APPENDIX G

Section 17

Outfall 003 - BMP Effectiveness, January 21, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: BMP Effectiveness
Monitoring Program

Sampled: 01/21/10
Received: 01/22/10
Issued: 02/02/10 06:26

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

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:	No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
ITA1962-01	003 EFF-1	Water
ITA1962-02	003 INF-1	Water

Reviewed By:

Debby Wilson

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA1962

Sampled: 01/21/10
Received: 01/22/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1962-01 (003 EFF-1 - Water)									
Reporting Units: g/cc									
Density	Displacement	10A2425	N/A	NA	**1.0**	1	01/26/10	01/26/10	
Sample ID: ITA1962-02 (003 INF-1 - Water)									
Reporting Units: g/cc									
Density	Displacement	10A2425	N/A	NA	**0.99**	1	01/26/10	01/26/10	
Sample ID: ITA1962-01 (003 EFF-1 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2468	10	10	**23**	1	01/26/10	01/29/10	
Sample ID: ITA1962-02 (003 INF-1 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2468	10	10	**24**	1	01/26/10	01/29/10	

TestAmerica Irvine

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A2425 Extracted: 01/26/10											
Duplicate Analyzed: 01/26/2010 (10A2425-DUP1)						**Source: ITA1595-01**					
Density	1.00	NA	N/A	g/cc		1.00			0	20	

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DATA QUALIFIERS AND DEFINITIONS

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

RPD Relative Percent Difference

TestAmerica Irvine

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Project ID: BMP Effectiveness Monitoring Program
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Sampled: 01/21/10
Received: 01/22/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

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

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

Test America Version 06/29/09

CHAIN OF CUSTODY FORM

JJA1962

Page 1 of 1

Client Name/Address:	Project: **Boeing BMP Effectiveness Monitoring Program**
MWH-Pasadena 618 Michillinda Ave., Ste 200 Arcadia, CA 91007 Test America contact: Joseph Doak	
Project Manager: Bronwyn Kelly Sampler: Shelby Dawson	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle * #	ANALYSIS REQUIRED: Suspended Sediment Concentration (SSC, ASTM-D3977-1997)									Comments
003 EFF-1	W	Poly-500 mL	1	1/21/10 1053	None	1	X									grab
003 INF-1	W	Poly-500 mL	1	1/21/10 1055	None	1	X									SD grab
~~003 INF-2~~	~~W~~	~~Poly-1 L~~	~~1~~	~~1/21/10 0839~~	~~None~~	~~2~~	~~X~~									~~grab~~

16:05
01/23/10
NP.

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	1-22-10 16:00	[signature]	1-22-10 16:00
[signature]	1-22-10 18:45		
		[signature]	1/22/10 1845

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal __X__
Perchlorate Only 72 Hours _____
Metals Only 72 Hours _____ 2.6
Sample Integrity: (Check)
Intact _____ On Ice: __X__

✓

APPENDIX G

Section 18

Outfall 003 - February 6 & 7, 2010

MEC^X Data Validation Report

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITB0890/ITB0894

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:	ITB0890/ITB0894
Project Manager:	B. Kelly
Matrix:	Water
QC Level:	IV
No. of Samples:	3
No. of Reanalyses/Dilutions:	1
Laboratory:	TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 003	ITB0890-01	N/A	Water	2/6/10 11:50 AM	EPA 1664A, EPA 218.6, EPA 624
Outfall 003	ITB0894-01	G0B100427-001, F090484-001	Water	2/7/10 10:28 AM	ASTM 5174-91, 200.7, 200.7 (Diss), 200.8, 200.8 (Diss), 245.1, 245.1 (Diss), 1613B, 300.0, 314.0, 525.2, 608, 625, 900.0 MOD, 901.1 MOD, 903.0 MOD, 904 MOD, 905 MOD, 906.0 MOD, SM 2540D, SM 4500-F-C, SM2340B, SM2340B-Diss, SM2540C, SM4500CN-E
Outfall 003	ITB0894-01RE1	G0B100427-001	Water	2/7/10 10:28 AM	1613B
Trip Blank	ITB0890-02		Water	2/6/10 11:50 AM	624

II. Sample Management

No anomalies were observed regarding sample management. The samples were received at ambient temperature at 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 intact upon receipt at TestAmerica-St. Louis and TestAmerica-West Sacramento. As the sample was 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: March 27, 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 ≤20% for the 16 native compounds (calibration by isotope dilution) and ≤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 results for total HpCDD and total HpCDF were qualified as nondetected, "U," as all peaks comprising the totals were present in the method blank.

- 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. 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. The EMPCs for 1,2,3,4,6,7,8-HpCDF and total HpCDF 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. The concentration of total HxCDD was equal to the sum of the isomers reported as EMPC; therefore, total HxCDD was also qualified as nondetected, "UJ," at the level of the EMPC. Any remaining 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 METHODS 200.7, 200.8, and 245.1—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: March 26, 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 Methods 200.7, 200.8, 245.1*, and the *National Functional Guidelines for Inorganic Data Review* (7/02).

- Holding Times: Analytical holding times, six months for ICP and ICP-MS metals and 28 days for mercury, were met.

- Tuning: The measured beryllium mass associated with the dissolved copper analysis exceeded the true value by >0.1 amu; however, the magnesium mass calibration was acceptable. As the mass of copper is nearer in value to magnesium, no qualifications were required. The remaining mass calibration and resolution checks criteria were met. All tuning solution %RSDs were ≤5%, and all remaining masses of interest were calibrated to ≤ 0.1 amu and ≤0.9 amu at 10% peak height.

- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were ≥0.995 and all initial and continuing calibration recoveries were within 90-110% for the ICP and ICP-MS metals and 85-115% for mercury. The nickel 5 ppb CRDL recovery associated with the total nickel analysis was 66%; therefore, nondetected total nickel in the sample was qualified as estimated, "UJ." The cadmium 0.2 ppb check standard associated with the total analyses was recovered at 50%; therefore, nondetected total cadmium was qualified as estimated, "UJ." The remaining CRDL/CRI recoveries were within the control limits of 70-130%.

- Blanks: Boron was detected in both the total and dissolved method blanks and iron was detected in the dissolved method blank at 24.3, 45.3, and 21.9 µg/L, respectively, therefore, both boron detects and dissolved iron detected in the sample were qualified as nondetected, "U," at the levels of contamination. Cadmium and antimony were reported in the total method blank at -0.156 and -0.631 µg/L; therefore, the nondetected total results for both analytes were qualified as estimated, "UJ." Method blanks and CCBs had no other applicable detects.

- Interference Check Samples: Recoveries were within 80-120% for all 200.7 analyses and the 200.8 dissolved analyses (ISCA/ICAB analyses were performed only in associated with the dissolved 200.8 analyses). Boron was reported in both ICSA analyses at -75 µg/L; however, the concentration of the primary interferent, iron, was not sufficient to cause matrix interference in the site sample. Copper and cadmium were detected in the 200.8 ICSA; however, the reviewer was not able to determine if the detects were due to low-level contamination of the ICSA standard.

- 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: MS/MSD analyses were performed on the dissolved 200.7 analytes. Recoveries and RPDs were within laboratory-established QC limits. Method accuracy for the remaining methods was evaluated based on the LCS results.

- Serial Dilution: No serial dilution analyses were performed on the sample in this SDG.

- Internal Standards Performance: All sample internal standard intensities were within 60-125% of the internal standard intensities measured in the initial calibration blank. Copper was not bracketed by an internal standard of lower mass; therefore, copper detected in the sample was qualified as estimated, "J."

- 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. EPA METHOD 608—Pesticides and PCBs

Reviewed By: P. Meeks
Date Reviewed: March 25, 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 Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0), EPA Method 608*, and the *National Functional Guidelines for Organic Data Review* (10/99).

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

- Calibration: The %RSD exceeded the control limit for heptachlor on both channels, endrin ketone on channel A and endosulfan II on channel B; therefore, the results for these analytes were qualified as estimated, "UJ." The remaining initial calibrations had average %RSDs of ≤10% and r^2 values ≥0.995. %Ds exceeded 15% for endrin, heptachlor, and toxaphene on one or both columns in the closing CCV; therefore, the nondetected results for these compounds were qualified as estimated, "UJ." The remaining ICV and CCVs bracketing the sample analyses had %Ds within the QC limit of ≤15%.

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

- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits. All results were acceptable when calculated using the correct volume.

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

- 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.

- 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 from the raw data. The reporting limits were supported by the lower level of the initial calibration. Any result reported between the MDL and the reporting limit was qualified as estimated, "J," and coded with "DNQ" in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

D. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks
Date Reviewed: March 26, 2010

The sample 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 aliquots for total uranium and radium-228 were reanalyzed more than 3× beyond the holding time for unpreserved samples; therefore, total uranium detected in the sample was qualified as estimated, "J," and nondetected radium-228 was rejected, "R." The tritium sample was analyzed within 180 days of collection. Aliquots for gamma spectroscopy, gross alpha, gross beta, 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 gross alpha and radium-226 results 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. The strontium chemical yield was less than 40%; therefore, nondetected strontium in the sample was qualified as estimated, "UJ." All remaining 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." There were no other analytes detected in the method blanks or the 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 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.

E. EPA METHOD 625—Semivolatile Organic Compounds (SVOCs)

Reviewed By: P. Meeks
Date Reviewed: March 25. 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 Semivolatile Organics (DVP-3, Rev. 0), EPA Method 625*, and the *National Functional Guidelines for Organic Data Review* (10/99).

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

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

- Calibration: Calibration criteria were met. The r^2 value for pentachlorophenol was less than the control limit; therefore, the nondetected result pentachlorophenol was qualified as estimated, "UJ." Initial calibration average RRFs were ≥0.05 and %RSDs ≤35% and the remaining r^2 values were ≥0.995. The second source ICV had %Ds above 20% for benzyl alcohol, hexachlorocyclopentadiene, 2,4-dinitrophenol, n-nitrosodiphenylamine, pentachlorophenol, and benzidine; therefore, the nondetected results for these compound were qualified as estimated, "UJ." The ICV RRFs were ≥0.05 and the remaining %Ds ≤20%. The continuing calibration associated with the sample analysis had %Ds above 20% for benzyl alcohol, hexachlorocyclopentadiene, n-nitrosodiphenylamine, pentachlorophenol, benzidine, and 2,4-dinitrophenol; therefore, the nondetected results for

these compounds were qualified as estimated, "UJ." The continuing calibration RRFs were ≥0.05 and the remaining %Ds ≤20%.

- Blanks: Method blanks had no target compound detects above the MDL.

- Blank Spikes and Laboratory Control Samples: Both recoveries for hexachlorocyclopentadiene exceeded the control limit; however, the compound was not detected in the site sample. The RPDs for benzidine and benzoic acid exceeded the control limit; therefore, the nondetected results for these compounds were qualified as estimated, "UJ." The remaining recoveries and RPDs were within laboratory-established QC limits.

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

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision were evaluated based on LCS/LCSD results.

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

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

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

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

- Compound Identification: Compound identification was verified. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.

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

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

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

F. EPA METHOD 525.2—Semivolatile Organic Compounds (SVOCs)

Reviewed By: P. Meeks
Date Reviewed: March 25, 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 Semivolatile Organics (DVP-3, Rev. 0), EPA Method 525.2*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within 24 hours of collection and analyzed within 30 days of extraction.

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

- Calibration: Calibration criteria were met. The initial calibration average RRFs were ≥0.05 and %RSDs ≤35%. The second source verification and continuing calibration RRFs were ≥0.05 and recoveries were within the method QC limits of 70-130%.

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

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

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

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision were evaluated based on the LCS/D results.

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

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

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

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

- Compound Identification: Compound identification was verified. The laboratory analyzed for chlorpyrifos and diazinon by Method 525.2. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.

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

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

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

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

Reviewed By: P. Meeks
Date Reviewed: March 25, 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 Volatile Organics (DVP-2, Rev. 0), EPA Methods 624 and 8260B*, and the *National Functional Guidelines for Organic Data Review* (10/99).

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

- GC/MS Tuning: The BFB tunes met the respective method abundance criteria specified by EPA Method 624. Samples were analyzed within 12 hours of the BFB injection time.

- Calibration: The acrolein RRF was <0.05; therefore, nondetected acrolein in the samples was rejected, "R." The remaining initial calibration average RRFs and continuing calibration RRFs were ≥0.05. The initial calibration %RSDs were ≤35% or r^2 ≥0.995. The continuing calibration %D exceeded the control limit for 2-chloroethyl vinyl ether; therefore, nondetected results for 2-chloroethyl vinyl ether in both samples were qualified as estimated, "UJ." Remaining continuing calibration %Ds were ≤20%.

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

- Blank Spikes and Laboratory Control Samples: LCS recoveries were within QC limits.

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

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

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

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

- o Trip Blanks: Sample Trip Blank was the trip blank associated with the site sample in this SDG. There were no detects above the MDL in the trip blank.

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

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

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

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

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

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

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

H. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks
Date Reviewed: March 26, 2010

The sample 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 218.6, 300.0, 314.0, 1664A, SM2540C, SM2540D, SM4500-F-C, SM4500CN-E*, 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 $\geq$0.995. Nitrite was recovered at 11% in one CCV bracketing the sample analyses; however, nitrite was not detected in the site sample and no qualification was required for the nitrate/nitrite

result. All remaining initial and continuing calibration recoveries were within 90-110%. Balance calibration logs were considered acceptable.

- Blanks: Hexavalent chromium was detected in the ICB at 0.40 µg/L; therefore, hexavalent chromium detected in the sample was qualified as nondetected, "U," at the reporting limit. Method blanks and CCBs had no other applicable detects.

- Blank Spikes and Laboratory Control Samples: A nitrate/nitrite recovery was not listed on the summary form. The reviewer checked the raw data and determined that the nitrate/nitrite recovery was acceptable. The remaining 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: MS/MSD analyses were performed on the sample in this SDG for the 200.0 analytes. Nitrate/nitrite recoveries were not listed on the summary form. The reviewer checked the raw data and determined that the nitrate/nitrite recoveries were acceptable. The remaining recoveries and RPDs were within laboratory-established QC limits.

- 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 ITB0890/ITB0894

Analysis Method ASTM 5174-91

Sample Name Outfall 003 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Uranium	7440-61-1	1.09	0.69	0.21	pCi/L		J	H

Analysis Method EPA 1664A

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0890-01 **Sample Date:** 2/6/2010 11:50:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hexane Extractable Material (Oil & Grease)		ND	4.8	1.3	mg/l		U	

Analysis Method EPA 200.7

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429-90-5	630	50	40	ug/l			
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	ND	0.092	0.020	mg/l	B	U	B
Calcium	7440-70-2	25	0.10	0.050	mg/l			
Chromium	7440-47-3	ND	5.0	2.0	ug/l		U	
Iron	7439-89-6	0.41	0.040	0.015	mg/l			
Magnesium	7439-95-4	6.0	0.020	0.012	mg/l			
Nickel	7440-02-0	ND	10	2.0	ug/l		UJ	R
Selenium	7782-49-2	ND	10	8.0	ug/l		U	
Silver	7440-22-4	ND	10	6.0	ug/l		U	
Vanadium	7440-62-2	3.2	10	3.0	ug/l	Ja	J	DNQ
Zinc	7440-66-6	20	20	6.0	ug/l			

Analysis Method EPA 200.7-Diss

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429-90-5	ND	50	40	ug/l		U	
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	ND	0.10	0.020	mg/l	B	U	B
Calcium	7440-70-2	23	0.10	0.050	mg/l			
Chromium	7440-47-3	ND	5.0	2.0	ug/l		U	
Iron	7439-89-6	ND	0.089	0.015	mg/l	B	U	B
Magnesium	7439-95-4	5.5	0.020	0.012	mg/l			
Nickel	7440-02-0	ND	10	2.0	ug/l		U	
Selenium	7782-49-2	ND	10	8.0	ug/l		U	
Silver	7440-22-4	ND	10	6.0	ug/l		U	
Vanadium	7440-62-2	ND	10	3.0	ug/l		U	
Zinc	7440-66-6	19	20	6.0	ug/l	J	J	DNQ

Analysis Method EPA 200.8

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	7440-36-0	ND	2.0	0.30	ug/l		UJ	B
Cadmium	7440-43-9	ND	1.0	0.10	ug/l		UJ	R, B
Copper	7440-50-8	2.6	2.0	0.50	ug/l		J	*III
Lead	7439-92-1	0.86	1.0	0.20	ug/l	Ja	J	DNQ
Thallium	7440-28-0	ND	1.0	0.20	ug/l	C	U	

Analysis Method EPA 200.8-Diss

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	7440-36-0	0.39	2.0	0.30	ug/l	Ja	J	DNQ
Cadmium	7440-43-9	ND	1.0	0.10	ug/l		U	
Copper	7440-50-8	2.1	2.0	0.50	ug/l		J	*III
Lead	7439-92-1	ND	1.0	0.20	ug/l		U	
Thallium	7440-28-0	ND	1.0	0.20	ug/l		U	

Analysis Method EPA 218.6

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0890-01 **Sample Date:** 2/6/2010 11:50:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chromium VI	18540-29-9	ND	0.0010	0.00025	mg/l	Ja	U	B

Analysis Method EPA 245.1

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 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 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 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 300.0

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	16887-00-6	5.6	0.50	0.25	mg/l			
Nitrate/Nitrite-N	NA	0.82	0.26	0.15	mg/l			
Sulfate	14808-79-8	13	0.50	0.20	mg/l			

Analysis Method EPA 314.0

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797-73-0	ND	4.0	0.90	ug/l		U	

Analysis Method EPA 525.2

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chlorpyrifos	2921-88-2	ND	1.0		ug/l		U	
Diazinon	333-41-5	ND	0.25		ug/l		U	

Analysis Method EPA 608

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
4,4'-DDD	72-54-8	ND	0.0047	0.0019	ug/l		U	
4,4'-DDE	72-55-9	ND	0.0047	0.0028	ug/l		U	
4,4'-DDT	50-29-3	ND	0.0094	0.0038	ug/l		U	
Aldrin	309-00-2	ND	0.0047	0.0014	ug/l		U	
alpha-BHC	319-84-6	ND	0.0047	0.0024	ug/l		U	
Aroclor 1016	12674-11-2	ND	0.47	0.24	ug/l		U	
Aroclor 1221	11104-28-2	ND	0.47	0.24	ug/l		U	
Aroclor 1232	11141-16-5	ND	0.47	0.24	ug/l		U	
Aroclor 1242	53469-21-9	ND	0.47	0.24	ug/l		U	
Aroclor 1248	12672-29-6	ND	0.47	0.24	ug/l		U	
Aroclor 1254	11097-69-1	ND	0.47	0.24	ug/l		U	
Aroclor 1260	11096-82-5	ND	0.47	0.24	ug/l		U	
beta-BHC	319-85-7	ND	0.0094	0.0038	ug/l		U	
Chlordane	57-74-9	ND	0.094	0.038	ug/l		U	
delta-BHC	319-86-8	ND	0.0047	0.0033	ug/l		U	
Dieldrin	60-57-1	ND	0.0047	0.0019	ug/l		U	
Endosulfan I	959-98-8	ND	0.0047	0.0019	ug/l		U	
Endosulfan II	33213-65-9	ND	0.0047	0.0028	ug/l		UJ	C
Endosulfan sulfate	1031-07-8	ND	0.0094	0.0028	ug/l		U	
Endrin	72-20-8	ND	0.0047	0.0019	ug/l	C	UJ	C
Endrin aldehyde	7421-93-4	ND	0.0094	0.0019	ug/l		U	
Endrin ketone	53494-70-5	ND	0.0094	0.0028	ug/l		UJ	C
gamma-BHC (Lindane)	58-89-9	ND	0.019	0.0028	ug/l		U	
Heptachlor	76-44-8	ND	0.0094	0.0028	ug/l	C	UJ	C
Heptachlor epoxide	1024-57-3	ND	0.0047	0.0024	ug/l		U	
Methoxychlor	72-43-5	ND	0.0047	0.0033	ug/l		U	
Toxaphene	8001-35-2	ND	0.47	0.24	ug/l		UJ	C

Analysis Method EPA 624

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0890-01 **Sample Date:** 2/6/2010 11:50:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1-Trichloroethane	71-55-6	ND	0.50	0.30	ug/l		U	
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.50	0.30	ug/l		U	
1,1,2-Trichloroethane	79-00-5	ND	0.50	0.30	ug/l		U	
1,1-Dichloroethane	75-34-3	ND	0.50	0.40	ug/l		U	
1,1-Dichloroethene	75-35-4	ND	0.50	0.42	ug/l		U	
1,2-Dichlorobenzene	95-50-1	ND	0.50	0.32	ug/l		U	
1,2-Dichloroethane	107-06-2	ND	0.50	0.28	ug/l		U	
1,2-Dichloropropane	78-87-5	ND	0.50	0.35	ug/l		U	
1,3-Dichlorobenzene	541-73-1	ND	0.50	0.35	ug/l		U	
1,4-Dichlorobenzene	106-46-7	ND	0.50	0.37	ug/l		U	
2-Chloroethyl vinyl ether	110-75-8	ND	5.0	1.8	ug/l		UJ	C
Acrolein	107-02-8	ND	5.0	4.0	ug/l		R	R
Acrylonitrile	107-13-1	ND	2.0	1.2	ug/l		U	
Benzene	71-43-2	ND	0.50	0.28	ug/l		U	
Bromodichloromethane	75-27-4	ND	0.50	0.30	ug/l		U	
Bromoform	75-25-2	ND	0.50	0.40	ug/l		U	
Bromomethane	74-83-9	ND	1.0	0.42	ug/l		U	
Carbon tetrachloride	56-23-5	ND	0.50	0.28	ug/l		U	
Chlorobenzene	108-90-7	ND	0.50	0.36	ug/l		U	
Chloroethane	75-00-3	ND	1.0	0.40	ug/l		U	
Chloroform	67-66-3	ND	0.50	0.33	ug/l		U	
Chloromethane	74-87-3	ND	0.50	0.40	ug/l		U	
cis-1,2-Dichloroethene	156-59-2	ND	0.50	0.32	ug/l		U	
cis-1,3-Dichloropropene	10061-01-5	ND	0.50	0.22	ug/l		U	
Dibromochloromethane	124-48-1	ND	0.50	0.40	ug/l		U	
Ethylbenzene	100-41-4	ND	0.50	0.25	ug/l		U	
Methylene chloride	75-09-2	ND	1.0	0.95	ug/l		U	
Tetrachloroethene	127-18-4	ND	0.50	0.32	ug/l		U	
Toluene	108-88-3	ND	0.50	0.36	ug/l		U	
trans-1,2-Dichloroethene	156-60-5	ND	0.50	0.30	ug/l		U	
trans-1,3-Dichloropropene	10061-02-6	ND	0.50	0.32	ug/l		U	
Trichloroethene	79-01-6	ND	0.50	0.26	ug/l		U	
Trichlorofluoromethane	75-69-4	ND	0.50	0.34	ug/l		U	
Trichlorotrifluoroethane (Freon 113)	76-13-1	ND	5.0	0.50	ug/l		U	
Vinyl chloride	75-01-4	ND	0.50	0.40	ug/l		U	

Analysis Method EPA 624

Xylenes, Total	1330-20-7	ND	1.5	0.90	ug/l		U

Analysis Method EPA 624

Sample Name Trip Blank **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0890-02 **Sample Date:** 2/6/2010 11:50:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1-Trichloroethane	71-55-6	ND	0.50	0.30	ug/l		U	
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.50	0.30	ug/l		U	
1,1,2-Trichloroethane	79-00-5	ND	0.50	0.30	ug/l		U	
1,1-Dichloroethane	75-34-3	ND	0.50	0.40	ug/l		U	
1,1-Dichloroethene	75-35-4	ND	0.50	0.42	ug/l		U	
1,2-Dichlorobenzene	95-50-1	ND	0.50	0.32	ug/l		U	
1,2-Dichloroethane	107-06-2	ND	0.50	0.28	ug/l		U	
1,2-Dichloropropane	78-87-5	ND	0.50	0.35	ug/l		U	
1,3-Dichlorobenzene	541-73-1	ND	0.50	0.35	ug/l		U	
1,4-Dichlorobenzene	106-46-7	ND	0.50	0.37	ug/l		U	
2-Chloroethyl vinyl ether	110-75-8	ND	5.0	1.8	ug/l		UJ	C
Acrolein	107-02-8	ND	5.0	4.0	ug/l		R	R
Acrylonitrile	107-13-1	ND	2.0	1.2	ug/l		U	
Benzene	71-43-2	ND	0.50	0.28	ug/l		U	
Bromodichloromethane	75-27-4	ND	0.50	0.30	ug/l		U	
Bromoform	75-25-2	ND	0.50	0.40	ug/l		U	
Bromomethane	74-83-9	ND	1.0	0.42	ug/l		U	
Carbon tetrachloride	56-23-5	ND	0.50	0.28	ug/l		U	
Chlorobenzene	108-90-7	ND	0.50	0.36	ug/l		U	
Chloroethane	75-00-3	ND	1.0	0.40	ug/l		U	
Chloroform	67-66-3	ND	0.50	0.33	ug/l		U	
Chloromethane	74-87-3	ND	0.50	0.40	ug/l		U	
cis-1,2-Dichloroethene	156-59-2	ND	0.50	0.32	ug/l		U	
cis-1,3-Dichloropropene	10061-01-5	ND	0.50	0.22	ug/l		U	
Dibromochloromethane	124-48-1	ND	0.50	0.40	ug/l		U	
Ethylbenzene	100-41-4	ND	0.50	0.25	ug/l		U	
Methylene chloride	75-09-2	ND	1.0	0.95	ug/l		U	
Tetrachloroethene	127-18-4	ND	0.50	0.32	ug/l		U	
Toluene	108-88-3	ND	0.50	0.36	ug/l		U	
trans-1,2-Dichloroethene	156-60-5	ND	0.50	0.30	ug/l		U	
trans-1,3-Dichloropropene	10061-02-6	ND	0.50	0.32	ug/l		U	
Trichloroethene	79-01-6	ND	0.50	0.26	ug/l		U	
Trichlorofluoromethane	75-69-4	ND	0.50	0.34	ug/l		U	
Trichlorotrifluoroethane (Freon 113)	76-13-1	ND	5.0	0.50	ug/l		U	
Vinyl chloride	75-01-4	ND	0.50	0.40	ug/l		U	

Analysis Method EPA 624

Xylenes, Total	1330-20-7	ND	1.5	0.90	ug/l		U

Analysis Method EPA 625

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,4-Trichlorobenzene	120-82-1	ND	9.6	2.4	ug/l		U	
1,2-Dichlorobenzene	95-50-1	ND	9.6	2.9	ug/l		U	
1,2-Diphenylhydrazine/Azobenzene	103-33-3	ND	19	2.4	ug/l		U	
1,3-Dichlorobenzene	541-73-1	ND	9.6	2.9	ug/l		U	
1,4-Dichlorobenzene	106-46-7	ND	9.6	2.4	ug/l		U	
2,4,5-Trichlorophenol	95-95-4	ND	19	2.9	ug/l		U	
2,4,6-Trichlorophenol	88-06-2	ND	19	4.3	ug/l		U	
2,4-Dichlorophenol	120-83-2	ND	9.6	3.4	ug/l		U	
2,4-Dimethylphenol	105-67-9	ND	19	3.4	ug/l		U	
2,4-Dinitrophenol	51-28-5	ND	19	7.7	ug/l		UJ	C
2,4-Dinitrotoluene	121-14-2	ND	9.6	3.4	ug/l		U	
2,6-Dinitrotoluene	606-20-2	ND	9.6	1.9	ug/l		U	
2-Chloronaphthalene	91-58-7	ND	9.6	2.9	ug/l		U	
2-Chlorophenol	95-57-8	ND	9.6	2.9	ug/l		U	
2-Methylnaphthalene	91-57-6	ND	9.6	1.9	ug/l		U	
2-Methylphenol	95-48-7	ND	9.6	2.9	ug/l		U	
2-Nitroaniline	88-74-4	ND	19	1.9	ug/l		U	
2-Nitrophenol	88-75-5	ND	9.6	3.4	ug/l		U	
3,3'-Dichlorobenzidine	91-94-1	ND	19	7.2	ug/l		U	
3-Nitroaniline	99-09-2	ND	19	2.9	ug/l		U	
4,6-Dinitro-2-methylphenol	534-52-1	ND	19	3.8	ug/l		U	
4-Bromophenyl phenyl ether	101-55-3	ND	9.6	2.9	ug/l		U	
4-Chloro-3-methylphenol	59-50-7	ND	19	2.4	ug/l		U	
4-Chloroaniline	106-47-8	ND	9.6	1.9	ug/l		U	
4-Chlorophenyl phenyl ether	7005-72-3	ND	9.6	2.4	ug/l		U	
4-Methylphenol	106-44-5	ND	9.6	2.9	ug/l		U	
4-Nitroaniline	100-01-6	ND	19	3.8	ug/l		U	
4-Nitrophenol	100-02-7	ND	19	5.3	ug/l		U	
Acenaphthene	83-32-9	ND	9.6	2.9	ug/l		U	
Acenaphthylene	208-96-8	ND	9.6	2.9	ug/l		U	
Aniline	62-53-3	ND	9.6	3.4	ug/l		U	
Anthracene	120-12-7	ND	9.6	2.4	ug/l		U	
Benzidine	92-87-5	ND	19	9.6	ug/l		UJ	C, *III
Benzo(a)anthracene	56-55-3	ND	9.6	2.4	ug/l		U	
Benzo(a)pyrene	50-32-8	ND	9.6	2.9	ug/l		U	

Analysis Method EPA 625

Benzo(b)fluoranthene	205-99-2	ND	9.6	1.9	ug/l		U	
Benzo(g,h,i)perylene	191-24-2	ND	9.6	3.8	ug/l		U	
Benzo(k)fluoranthene	207-08-9	ND	9.6	2.4	ug/l		U	
Benzoic acid	65-85-0	ND	19	9.6	ug/l		UJ	C, *III
Benzyl alcohol	100-51-6	ND	19	3.4	ug/l	C	UJ	C
Bis(2-chloroethoxy)methane	111-91-1	ND	9.6	2.9	ug/l		U	
Bis(2-chloroethyl)ether	111-44-4	ND	9.6	2.9	ug/l		U	
Bis(2-chloroisopropyl)ether	108-60-1	ND	9.6	2.4	ug/l		U	
Bis(2-ethylhexyl)phthalate	117-81-7	ND	48	3.8	ug/l		U	
Butyl benzyl phthalate	85-68-7	ND	19	3.8	ug/l		U	
Chrysene	218-01-9	ND	9.6	2.4	ug/l		U	
Dibenz(a,h)anthracene	53-70-3	ND	19	2.9	ug/l		U	
Dibenzofuran	132-64-9	ND	9.6	3.8	ug/l		U	
Diethyl phthalate	84-66-2	ND	9.6	3.4	ug/l		U	
Dimethyl phthalate	131-11-3	ND	9.6	2.4	ug/l		U	
Di-n-butyl phthalate	84-74-2	ND	19	2.9	ug/l		U	
Di-n-octyl phthalate	117-84-0	ND	19	3.4	ug/l		U	
Fluoranthene	206-44-0	ND	9.6	2.9	ug/l		U	
Fluorene	86-73-7	ND	9.6	2.9	ug/l		U	
Hexachlorobenzene	118-74-1	ND	9.6	2.9	ug/l		U	
Hexachlorobutadiene	87-68-3	ND	9.6	3.8	ug/l		U	
Hexachlorocyclopentadiene	77-47-4	ND	19	4.8	ug/l	C, L	UJ	C
Hexachloroethane	67-72-1	ND	9.6	3.4	ug/l		U	
Indeno(1,2,3-cd)pyrene	193-39-5	ND	19	3.4	ug/l		U	
Isophorone	78-59-1	ND	9.6	2.9	ug/l		U	
Naphthalene	91-20-3	ND	9.6	2.9	ug/l		U	
Nitrobenzene	98-95-3	ND	19	2.9	ug/l		U	
N-Nitrosodimethylamine	62-75-9	ND	19	2.4	ug/l		U	
N-Nitroso-di-n-propylamine	621-64-7	ND	9.6	3.4	ug/l		U	
N-Nitrosodiphenylamine	86-30-6	ND	9.6	1.9	ug/l		UJ	C
Pentachlorophenol	87-86-5	ND	19	3.4	ug/l		UJ	C
Phenanthrene	85-01-8	ND	9.6	3.4	ug/l		U	
Phenol	108-95-2	ND	9.6	1.9	ug/l		U	
Pyrene	129-00-0	ND	9.6	3.8	ug/l		U	

Analysis Method EPA 900.0 MOD

Sample Name Outfall 003 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Gross Alpha	12587-46-1	3.7	3	1.4	pCi/L		J	C
Gross Beta	12587-47-2	4.03	4	0.99	pCi/L			

Analysis Method EPA 901.1 MOD

Sample Name Outfall 003 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	-1.5	20	17	pCi/L	U	U	
Potassium 40	13966-00-2	-100	0	200	pCi/L	U	U	

Analysis Method EPA 903.0 MOD

Sample Name Outfall 003 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	0.16	1	0.27	pCi/L	U	UJ	C

Analysis Method EPA 904 MOD

Sample Name Outfall 003 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	0.08	1	0.37	pCi/L	U	R	H

Analysis Method EPA 905 MOD

Sample Name Outfall 003 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium 90	10098-97-2	0.41	3	0.87	pCi/L	U	UJ	*III

Analysis Method EPA 906.0 MOD

Sample Name Outfall 003 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	ND	500	94	pCi/L	Jb	U	B

Analysis Method EPA-5 1613B

Sample Name Outfall 003 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 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	0.00005	0.0000006	ug/L	J, Ba	U	B
1,2,3,4,6,7,8-HpCDF	67562-39-4	ND	1.7e-006	0.0000005	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	0.00005	0.0000009	ug/L		U	
1,2,3,4,7,8-HxCDD	39227-28-6	ND	6.6e-007	0.0000005	ug/L	J, Q	UJ	*III
1,2,3,4,7,8-HxCDF	70648-26-9	ND	9.8e-007	0.0000003	ug/L	J, Q	UJ	*III
1,2,3,6,7,8-HxCDD	57653-85-7	ND	4.5e-007	0.0000004	ug/L	J, Q	UJ	*III
1,2,3,6,7,8-HxCDF	57117-44-9	9.9e-007	0.00005	0.0000003	ug/L	J	J	DNQ
1,2,3,7,8,9-HxCDD	19408-74-3	ND	3.7e-007	0.0000003	ug/L	J, Q	UJ	*III
1,2,3,7,8,9-HxCDF	72918-21-9	ND	5.1e-007	0.0000004	ug/L	J, Q	UJ	*III
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	4.1e-007	0.00005	0.0000002	ug/L	J	J	DNQ
2,3,4,7,8-PeCDF	57117-31-4	ND	0.00005	0.0000004	ug/L		U	
2,3,7,8-TCDD	1746-01-6	ND	0.0000099	0.0000005	ug/L		U	
2,3,7,8-TCDF	51207-31-9	ND	0.0000099	0.0000023	ug/L		R	D
2,3,7,8-TCDF	51207-31-9	ND	9.9e-007	0.0000003	ug/L	J, Q	UJ	*III
OCDD	3268-87-9	ND	0.000099	0.0000009	ug/L	J, Ba	U	B
OCDF	39001-02-0	ND	0.000099	0.0000008	ug/L	J, Ba	U	B
Total HpCDD	37871-00-4	ND	0.00005	0.0000006	ug/L	J, Ba	U	B
Total HpCDF	38998-75-3	ND	1.7e-006	0.0000005	ug/L	J, Q, Ba	U	B
Total HxCDD	34465-46-8	ND	1.5e-006	0.0000003	ug/L	J, Q	UJ	*III
Total HxCDF	55684-94-1	2.9e-006	2.9e-006	0.0000002	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	0.0000099	0.0000005	ug/L		U	
Total TCDF	55722-27-5	1.7e-006	1.7e-006	0.0000003	ug/L	J, Q	J	DNQ, *III

Analysis Method SM 2540D

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Suspended Solids	TSS	28	10	1.0	mg/l			

Analysis Method SM 4500-F-C

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Fluoride	16984-48-8	0.27	0.10	0.020	mg/l	B		

Analysis Method SM2340B

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		87	0.33	0.17	mg/l			

Analysis Method SM2340B-Diss

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		79	0.33	0.17	mg/l			

Analysis Method SM2540C

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Dissolved Solids	NA	190	10	1.0	mg/l			

Analysis Method SM4500CN-E

Sample Name Outfall 003 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0894-01 **Sample Date:** 2/7/2010 10:28:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Cyanide	57-12-5	ND	0.0050	0.0022	mg/l		U	

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APPENDIX G

Section 19

Outfall 003 - February 6 & 7, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: Annual Outfall 003
Annual Outfall 003

Sampled: 02/06/10-02/07/10
Received: 02/06/10
Revised: 04/02/10 09:02

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

SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: Final revised report to include corrected units, .pdf data file for Radchem and added PP metals omitted from original issue.

LABORATORY ID	CLIENT ID	MATRIX
ITB0890-01	Outfall 003	Water
ITB0890-02	Trip Blank	Water
ITB0894-01	Outfall 003	Water

Reviewed By:

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

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: ITB0890-01 (Outfall 003 - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Benzene	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Bromodichloromethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Bromoform	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Bromomethane	EPA 624	10B0840	0.42	1.0	ND	1	02/08/10	02/09/10	
Carbon tetrachloride	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Chlorobenzene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
Chloroethane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/09/10	
Chloroform	EPA 624	10B0840	0.33	0.50	ND	1	02/08/10	02/09/10	
Chloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Dibromochloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichlorobenzene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
1,3-Dichlorobenzene	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
1,4-Dichlorobenzene	EPA 624	10B0840	0.37	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloroethane	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethene	EPA 624	10B0840	0.42	0.50	ND	1	02/08/10	02/09/10	
cis-1,2-Dichloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
trans-1,2-Dichloroethene	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloropropane	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
cis-1,3-Dichloropropene	EPA 624	10B0840	0.22	0.50	ND	1	02/08/10	02/09/10	
trans-1,3-Dichloropropene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
Ethylbenzene	EPA 624	10B0840	0.25	0.50	ND	1	02/08/10	02/09/10	
Methylene chloride	EPA 624	10B0840	0.95	1.0	ND	1	02/08/10	02/09/10	
1,1,2,2-Tetrachloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Tetrachloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
Toluene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
1,1,1-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,1,2-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Trichloroethene	EPA 624	10B0840	0.26	0.50	ND	1	02/08/10	02/09/10	
Trichlorofluoromethane	EPA 624	10B0840	0.34	0.50	ND	1	02/08/10	02/09/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10B0840	0.50	5.0	ND	1	02/08/10	02/09/10	
Vinyl chloride	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Xylenes, Total	EPA 624	10B0840	0.90	1.5	ND	1	02/08/10	02/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Surrogate: Dibromofluoromethane (80-120%)					*108 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

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: ITB0890-02 (Trip Blank - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Benzene	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Bromodichloromethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Bromoform	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Bromomethane	EPA 624	10B0840	0.42	1.0	ND	1	02/08/10	02/09/10	
Carbon tetrachloride	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Chlorobenzene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
Chloroethane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/09/10	
Chloroform	EPA 624	10B0840	0.33	0.50	ND	1	02/08/10	02/09/10	
Chloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Dibromochloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichlorobenzene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
1,3-Dichlorobenzene	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
1,4-Dichlorobenzene	EPA 624	10B0840	0.37	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloroethane	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethene	EPA 624	10B0840	0.42	0.50	ND	1	02/08/10	02/09/10	
cis-1,2-Dichloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
trans-1,2-Dichloroethene	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloropropane	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
cis-1,3-Dichloropropene	EPA 624	10B0840	0.22	0.50	ND	1	02/08/10	02/09/10	
trans-1,3-Dichloropropene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
Ethylbenzene	EPA 624	10B0840	0.25	0.50	ND	1	02/08/10	02/09/10	
Methylene chloride	EPA 624	10B0840	0.95	1.0	ND	1	02/08/10	02/09/10	
1,1,2,2-Tetrachloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Tetrachloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
Toluene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
1,1,1-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,1,2-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Trichloroethene	EPA 624	10B0840	0.26	0.50	ND	1	02/08/10	02/09/10	
Trichlorofluoromethane	EPA 624	10B0840	0.34	0.50	ND	1	02/08/10	02/09/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10B0840	0.50	5.0	ND	1	02/08/10	02/09/10	
Vinyl chloride	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Xylenes, Total	EPA 624	10B0840	0.90	1.5	ND	1	02/08/10	02/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Surrogate: Dibromofluoromethane (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*108 %*				

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618 Michillinda Avenue, Suite 200
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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0890-01 (Outfall 003 - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Acrolein	EPA 624	10B0840	4.0	5.0	ND	1	02/08/10	02/09/10	
Acrylonitrile	EPA 624	10B0840	1.2	2.0	ND	1	02/08/10	02/09/10	
2-Chloroethyl vinyl ether	EPA 624	10B0840	1.8	5.0	ND	1	02/08/10	02/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Surrogate: Dibromofluoromethane (80-120%)					*108 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				
Sample ID: ITB0890-02 (Trip Blank - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Acrolein	EPA 624	10B0840	4.0	5.0	ND	1	02/08/10	02/09/10	
Acrylonitrile	EPA 624	10B0840	1.2	2.0	ND	1	02/08/10	02/09/10	
2-Chloroethyl vinyl ether	EPA 624	10B0840	1.8	5.0	ND	1	02/08/10	02/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Surrogate: Dibromofluoromethane (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*108 %*				

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Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

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: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Acenaphthene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Acenaphthylene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Aniline	EPA 625	10B1328	3.4	9.6	ND	0.962	02/11/10	02/14/10	
Anthracene	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
Benzidine	EPA 625	10B1328	9.6	19	ND	0.962	02/11/10	02/14/10	
Benzo(a)anthracene	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
Benzo(a)pyrene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Benzo(b)fluoranthene	EPA 625	10B1328	1.9	9.6	ND	0.962	02/11/10	02/14/10	
Benzo(g,h,i)perylene	EPA 625	10B1328	3.8	9.6	ND	0.962	02/11/10	02/14/10	
Benzo(k)fluoranthene	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
Benzoic acid	EPA 625	10B1328	9.6	19	ND	0.962	02/11/10	02/14/10	
Benzyl alcohol	EPA 625	10B1328	3.4	19	ND	0.962	02/11/10	02/14/10	C
4-Bromophenyl phenyl ether	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Butyl benzyl phthalate	EPA 625	10B1328	3.8	19	ND	0.962	02/11/10	02/14/10	
4-Chloro-3-methylphenol	EPA 625	10B1328	2.4	19	ND	0.962	02/11/10	02/14/10	
4-Chloroaniline	EPA 625	10B1328	1.9	9.6	ND	0.962	02/11/10	02/14/10	
Bis(2-chloroethoxy)methane	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Bis(2-chloroethyl)ether	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Bis(2-chloroisopropyl)ether	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
Bis(2-ethylhexyl)phthalate	EPA 625	10B1328	3.8	48	ND	0.962	02/11/10	02/14/10	
2-Chloronaphthalene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
2-Chlorophenol	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
4-Chlorophenyl phenyl ether	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
Chrysene	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
Dibenz(a,h)anthracene	EPA 625	10B1328	2.9	19	ND	0.962	02/11/10	02/14/10	
Dibenzofuran	EPA 625	10B1328	3.8	9.6	ND	0.962	02/11/10	02/14/10	
Di-n-butyl phthalate	EPA 625	10B1328	2.9	19	ND	0.962	02/11/10	02/14/10	
1,2-Dichlorobenzene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
1,3-Dichlorobenzene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
1,4-Dichlorobenzene	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
3,3'-Dichlorobenzidine	EPA 625	10B1328	7.2	19	ND	0.962	02/11/10	02/14/10	
2,4-Dichlorophenol	EPA 625	10B1328	3.4	9.6	ND	0.962	02/11/10	02/14/10	
Diethyl phthalate	EPA 625	10B1328	3.4	9.6	ND	0.962	02/11/10	02/14/10	
2,4-Dimethylphenol	EPA 625	10B1328	3.4	19	ND	0.962	02/11/10	02/14/10	
Dimethyl phthalate	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
4,6-Dinitro-2-methylphenol	EPA 625	10B1328	3.8	19	ND	0.962	02/11/10	02/14/10	
2,4-Dinitrophenol	EPA 625	10B1328	7.7	19	ND	0.962	02/11/10	02/14/10	
2,4-Dinitrotoluene	EPA 625	10B1328	3.4	9.6	ND	0.962	02/11/10	02/14/10	
2,6-Dinitrotoluene	EPA 625	10B1328	1.9	9.6	ND	0.962	02/11/10	02/14/10	
Di-n-octyl phthalate	EPA 625	10B1328	3.4	19	ND	0.962	02/11/10	02/14/10	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	10B1328	2.4	19	ND	0.962	02/11/10	02/14/10	

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Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

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: ITB0894-01 (Outfall 003 - Water) - cont.					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Fluoranthene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Fluorene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Hexachlorobenzene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Hexachlorobutadiene	EPA 625	10B1328	3.8	9.6	ND	0.962	02/11/10	02/14/10	
Hexachlorocyclopentadiene	EPA 625	10B1328	4.8	19	ND	0.962	02/11/10	02/14/10	C, L
Hexachloroethane	EPA 625	10B1328	3.4	9.6	ND	0.962	02/11/10	02/14/10	
Indeno(1,2,3-cd)pyrene	EPA 625	10B1328	3.4	19	ND	0.962	02/11/10	02/14/10	
Isophorone	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
2-Methylnaphthalene	EPA 625	10B1328	1.9	9.6	ND	0.962	02/11/10	02/14/10	
2-Methylphenol	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
4-Methylphenol	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
Naphthalene	EPA 625	10B1328	2.9	9.6	ND	0.962	02/11/10	02/14/10	
2-Nitroaniline	EPA 625	10B1328	1.9	19	ND	0.962	02/11/10	02/14/10	
3-Nitroaniline	EPA 625	10B1328	2.9	19	ND	0.962	02/11/10	02/14/10	
4-Nitroaniline	EPA 625	10B1328	3.8	19	ND	0.962	02/11/10	02/14/10	
Nitrobenzene	EPA 625	10B1328	2.9	19	ND	0.962	02/11/10	02/14/10	
2-Nitrophenol	EPA 625	10B1328	3.4	9.6	ND	0.962	02/11/10	02/14/10	
4-Nitrophenol	EPA 625	10B1328	5.3	19	ND	0.962	02/11/10	02/14/10	
N-Nitroso-di-n-propylamine	EPA 625	10B1328	3.4	9.6	ND	0.962	02/11/10	02/14/10	
N-Nitrosodimethylamine	EPA 625	10B1328	2.4	19	ND	0.962	02/11/10	02/14/10	
N-Nitrosodiphenylamine	EPA 625	10B1328	1.9	9.6	ND	0.962	02/11/10	02/14/10	
Pentachlorophenol	EPA 625	10B1328	3.4	19	ND	0.962	02/11/10	02/14/10	
Phenanthrene	EPA 625	10B1328	3.4	9.6	ND	0.962	02/11/10	02/14/10	
Phenol	EPA 625	10B1328	1.9	9.6	ND	0.962	02/11/10	02/14/10	
Pyrene	EPA 625	10B1328	3.8	9.6	ND	0.962	02/11/10	02/14/10	
1,2,4-Trichlorobenzene	EPA 625	10B1328	2.4	9.6	ND	0.962	02/11/10	02/14/10	
2,4,5-Trichlorophenol	EPA 625	10B1328	2.9	19	ND	0.962	02/11/10	02/14/10	
2,4,6-Trichlorophenol	EPA 625	10B1328	4.3	19	ND	0.962	02/11/10	02/14/10	
Surrogate: 2,4,6-Tribromophenol (40-120%)					*83 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*74 %*				
Surrogate: 2-Fluorophenol (30-120%)					*57 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*71 %*				
Surrogate: Phenol-d6 (35-120%)					*67 %*				
Surrogate: Terphenyl-d14 (50-125%)					*89 %*				

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

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Chlorpyrifos	EPA 525.2	10B0852	N/A	1.0	ND	1	02/08/10	02/12/10	
Diazinon	EPA 525.2	10B0852	N/A	0.25	ND	1	02/08/10	02/12/10	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)					*92 %*				
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)					*92 %*				
Surrogate: Triphenylphosphate (70-130%)					*104 %*				
Surrogate: Triphenylphosphate (70-130%)					*104 %*				
Surrogate: Perylene-d12 (70-130%)					*94 %*				
Surrogate: Perylene-d12 (70-130%)					*94 %*				

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Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
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%)					*60 %*				
Surrogate: Tetrachloro-m-xylene (35-115%)					*40 %*				

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Sampled: 02/06/10-02/07/10
Received: 02/06/10

TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water) - cont.					**Sampled: 02/07/10**				
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	
Surrogate: Decachlorobiphenyl (45-120%)					*65 %*				

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Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0890-01 (Outfall 003 - Water)					**Sampled: 02/06/10**				
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	10B1991	1.3	4.8	ND	1	02/17/10	02/17/10	

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Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B	[CALC]	N/A	0.33	**87**	1	02/16/10	02/17/10	
Aluminum	EPA 200.7	10B1911	0.040	0.050	**0.63**	1	02/16/10	02/17/10	
Boron	EPA 200.7	10B1911	0.020	0.050	**0.092**	1	02/16/10	02/17/10	B
Calcium	EPA 200.7	10B1911	0.050	0.10	**25**	1	02/16/10	02/17/10	
Iron	EPA 200.7	10B1911	0.015	0.040	**0.41**	1	02/16/10	02/17/10	
Magnesium	EPA 200.7	10B1911	0.012	0.020	**6.0**	1	02/16/10	02/17/10	
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
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	10B1911	7.0	10	ND	1	02/16/10	02/17/10	
Antimony	EPA 200.8	10B1598	0.30	2.0	ND	1	02/12/10	02/15/10	
Beryllium	EPA 200.7	10B1911	0.90	2.0	ND	1	02/16/10	02/17/10	
Chromium	EPA 200.7	10B1911	2.0	5.0	ND	1	02/16/10	02/17/10	
Nickel	EPA 200.7	10B1911	2.0	10	ND	1	02/16/10	02/17/10	
Selenium	EPA 200.7	10B1911	8.0	10	ND	1	02/16/10	02/17/10	
Silver	EPA 200.7	10B1911	6.0	10	ND	1	02/16/10	02/17/10	
Cadmium	EPA 200.8	10B1598	0.10	1.0	ND	1	02/12/10	02/15/10	
Vanadium	EPA 200.7	10B1911	3.0	10	**3.2**	1	02/16/10	02/17/10	Ja
Zinc	EPA 200.7	10B1911	6.0	20	**20**	1	02/16/10	02/17/10	
Copper	EPA 200.8	10B1598	0.50	2.0	**2.6**	1	02/12/10	02/15/10	
Lead	EPA 200.8	10B1598	0.20	1.0	**0.86**	1	02/12/10	02/15/10	Ja
Thallium	EPA 200.8	10B1598	0.20	1.0	ND	1	02/12/10	02/15/10	C

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B-Diss	[CALC]	N/A	0.33	**79**	1	02/15/10	02/16/10	
Aluminum	EPA 200.7-Diss	10B1846	0.040	0.050	ND	1	02/15/10	02/16/10	
Boron	EPA 200.7-Diss	10B1846	0.020	0.050	**0.10**	1	02/15/10	02/16/10	B
Calcium	EPA 200.7-Diss	10B1846	0.050	0.10	**23**	1	02/15/10	02/16/10	
Iron	EPA 200.7-Diss	10B1846	0.015	0.040	**0.089**	1	02/15/10	02/16/10	B
Magnesium	EPA 200.7-Diss	10B1846	0.012	0.020	**5.5**	1	02/15/10	02/16/10	
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
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	**0.39**	1	02/15/10	02/17/10	Ja
Beryllium	EPA 200.7-Diss	10B1846	0.90	2.0	ND	1	02/15/10	02/16/10	
Chromium	EPA 200.7-Diss	10B1846	2.0	5.0	ND	1	02/15/10	02/16/10	
Nickel	EPA 200.7-Diss	10B1846	2.0	10	ND	1	02/15/10	02/16/10	
Selenium	EPA 200.7-Diss	10B1846	8.0	10	ND	1	02/15/10	02/16/10	
Silver	EPA 200.7-Diss	10B1846	6.0	10	ND	1	02/15/10	02/16/10	
Cadmium	EPA 200.8-Diss	10B1845	0.10	1.0	ND	1	02/15/10	02/17/10	
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	**19**	1	02/15/10	02/16/10	Ja
Copper	EPA 200.8-Diss	10B2106	0.50	2.0	**2.1**	1	02/17/10	02/17/10	
Lead	EPA 200.8-Diss	10B1845	0.20	1.0	ND	1	02/15/10	02/17/10	
Thallium	EPA 200.8-Diss	10B1845	0.20	1.0	ND	1	02/15/10	02/17/10	

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DISSOLVED INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0890-01 (Outfall 003 - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Chromium VI	EPA 218.6	10B0756	0.25	1.0	**0.66**	1	02/06/10	02/06/10	Ja

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: mg/l									
Chloride	EPA 300.0	10B0856	0.25	0.50	**5.6**	1	02/08/10	02/08/10	
Fluoride	SM 4500-F-C	10B0814	0.020	0.10	**0.27**	1	02/08/10	02/08/10	B
Nitrate/Nitrite-N	EPA 300.0	10B0856	0.15	0.26	**0.82**	1	02/08/10	02/08/10	
Sulfate	EPA 300.0	10B0856	0.20	0.50	**13**	1	02/08/10	02/08/10	
Total Dissolved Solids	SM2540C	10B1487	1.0	10	**190**	1	02/12/10	02/12/10	
Total Suspended Solids	SM 2540D	10B1648	1.0	10	**28**	1	02/12/10	02/12/10	
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	10B1658	0.90	4.0	ND	1	02/13/10	02/13/10	
Total Cyanide	SM4500CN-E	10B1250	2.2	5.0	ND	1	02/10/10	02/10/10	

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ASTM 5174-91

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Total Uranium	ASTM 5174-91	53280	0.21	0.69	**1.09**	1	02/23/10	02/26/10	

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EPA 900.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Gross Alpha	EPA 900.0 MOD	43108	1.4	3	**3.7**	1	02/10/10	02/18/10	
Gross Beta	EPA 900.0 MOD	43108	0.99	4	**4.03**	1	02/10/10	02/18/10	

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EPA 901.1 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Cesium 137	EPA 901.1 MOD	42136	17	20	-1.5	1	02/11/10	02/19/10	U
Potassium 40	EPA 901.1 MOD	42136	200	NA	-100	1	02/11/10	02/19/10	U

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EPA 903.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Radium (226)	EPA 903.0 MOD	41160	0.27	1	**0.16**	1	02/10/10	02/26/10	U

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EPA 904 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01RE1 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Radium 228	EPA 904 MOD	60257	0.37	1	**0.08**	1	03/01/10	03/05/10	U

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EPA 905 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Strontium 90	EPA 905 MOD	41162	0.87	3	**0.41**	1	02/10/10	02/19/10	U

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EPA 906.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Tritium	EPA 906.0 MOD	49035	94	500	**173**	1	02/18/10	02/18/10	Jb

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EPA-5 1613B

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01 (Outfall 003 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	48124	0.00000061	0.00005	**5e-006**	0.99	02/17/10	02/19/10	J, Ba
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	48124	0.00000052	0.00005	**1.7e-006**	0.99	02/17/10	02/19/10	J, Q, Ba
2,3,7,8-TCDF	EPA-5 1613B	48124	0.00000038	0.0000099	**9.9e-007**	0.99	02/17/10	02/19/10	J, Q
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	48124	0.00000093	0.00005	ND	0.99	02/17/10	02/19/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	48124	0.00000051	0.00005	**6.6e-007**	0.99	02/17/10	02/19/10	J, Q
1,2,3,4,7,8-HxCDF	EPA-5 1613B	48124	0.00000035	0.00005	**9.8e-007**	0.99	02/17/10	02/19/10	J, Q
1,2,3,6,7,8-HxCDD	EPA-5 1613B	48124	0.00000043	0.00005	**4.5e-007**	0.99	02/17/10	02/19/10	J, Q
1,2,3,6,7,8-HxCDF	EPA-5 1613B	48124	0.0000003	0.00005	**9.9e-007**	0.99	02/17/10	02/19/10	J
1,2,3,7,8,9-HxCDD	EPA-5 1613B	48124	0.00000039	0.00005	**3.7e-007**	0.99	02/17/10	02/19/10	J, Q
1,2,3,7,8,9-HxCDF	EPA-5 1613B	48124	0.0000004	0.00005	**5.1e-007**	0.99	02/17/10	02/19/10	J, Q
1,2,3,7,8-PeCDD	EPA-5 1613B	48124	0.00000052	0.00005	ND	0.99	02/17/10	02/19/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	48124	0.00000043	0.00005	ND	0.99	02/17/10	02/19/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	48124	0.00000029	0.00005	**4.1e-007**	0.99	02/17/10	02/19/10	J
2,3,4,7,8-PeCDF	EPA-5 1613B	48124	0.00000049	0.00005	ND	0.99	02/17/10	02/19/10	
2,3,7,8-TCDD	EPA-5 1613B	48124	0.00000053	0.0000099	ND	0.99	02/17/10	02/19/10	
OCDD	EPA-5 1613B	48124	0.00000093	0.000099	**4.3e-005**	0.99	02/17/10	02/19/10	J, Ba
OCDF	EPA-5 1613B	48124	0.00000084	0.000099	**3.4e-006**	0.99	02/17/10	02/19/10	J, Ba
Total HpCDD	EPA-5 1613B	48124	0.00000061	0.00005	**9.8e-006**	0.99	02/17/10	02/19/10	J, Ba
Total HpCDF	EPA-5 1613B	48124	0.00000052	0.00005	**1.7e-006**	0.99	02/17/10	02/19/10	J, Q, Ba
Total HxCDD	EPA-5 1613B	48124	0.00000039	0.00005	**1.5e-006**	0.99	02/17/10	02/19/10	J, Q
Total HxCDF	EPA-5 1613B	48124	0.00000029	0.00005	**2.9e-006**	0.99	02/17/10	02/19/10	J, Q
Total PeCDD	EPA-5 1613B	48124	0.00000052	0.00005	ND	0.99	02/17/10	02/19/10	
Total PeCDF	EPA-5 1613B	48124	0.00000011	0.00005	ND	0.99	02/17/10	02/19/10	
Total TCDD	EPA-5 1613B	48124	0.00000053	0.0000099	ND	0.99	02/17/10	02/19/10	
Total TCDF	EPA-5 1613B	48124	0.00000038	0.0000099	**1.7e-006**	0.99	02/17/10	02/19/10	J, Q
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					*68 %*				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					*93 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)					*94 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)					*86 %*				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)					*81 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)					*88 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)					*86 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)					*89 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)					*89 %*				
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)					*84 %*				
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)					*87 %*				
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)					*82 %*				
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)					*96 %*				
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)					*81 %*				
Surrogate: 13C-2,3,7,8-TCDD (25-164%)					*76 %*				
Surrogate: 13C-OCDD (17-157%)					*94 %*				

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EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0894-01RE1 (Outfall 003 - Water) - cont.					**Sampled: 02/07/10**				
Reporting Units: ug/L									
2,3,7,8-TCDF	EPA-5 1613B	48124	0.0000023	0.0000099	ND	0.99	02/17/10	02/19/10	
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					*88 %*				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					*97 %*				

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 003 (ITB0890-01) - Water					
EPA 218.6	1	02/06/2010 11:50	02/06/2010 12:00	02/06/2010 18:15	02/06/2010 19:29
EPA 624	3	02/06/2010 11:50	02/06/2010 12:00	02/08/2010 00:00	02/09/2010 02:20
Sample ID: Trip Blank (ITB0890-02) - Water					
EPA 624	3	02/06/2010 11:50	02/06/2010 12:00	02/08/2010 00:00	02/09/2010 02:49
Sample ID: Outfall 003 (ITB0894-01) - Water					
EPA 300.0	2	02/07/2010 10:28	02/07/2010 15:40	02/08/2010 14:00	02/08/2010 14:13
EPA 525.2	1	02/07/2010 10:28	02/07/2010 15:40	02/08/2010 09:00	02/12/2010 03:51
Filtration	1	02/07/2010 10:28	02/07/2010 15:40	02/07/2010 19:33	02/07/2010 19:35

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0840-BLK1)											
Bromodichloromethane	ND	0.50	0.30	ug/l							
Bromoform	ND	0.50	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
Chlorobenzene	ND	0.50	0.36	ug/l							
Chloroethane	ND	1.0	0.40	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							
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							
Methylene chloride	ND	1.0	0.95	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
Bromodichloromethane	24.0	0.50	0.30	ug/l	25.0		96	70-135			
Bromoform	20.1	0.50	0.40	ug/l	25.0		81	55-130			
Bromomethane	28.6	1.0	0.42	ug/l	25.0		115	65-140			
Chlorobenzene	24.7	0.50	0.36	ug/l	25.0		99	75-120			
Chloroethane	26.6	1.0	0.40	ug/l	25.0		107	60-140			
Chloromethane	28.4	0.50	0.40	ug/l	25.0		114	50-140			
Dibromochloromethane	22.3	0.50	0.40	ug/l	25.0		89	70-140			
1,2-Dichlorobenzene	24.5	0.50	0.32	ug/l	25.0		98	75-120			
1,3-Dichlorobenzene	25.1	0.50	0.35	ug/l	25.0		100	75-120			
1,4-Dichlorobenzene	24.6	0.50	0.37	ug/l	25.0		99	75-120			
cis-1,2-Dichloroethene	26.5	0.50	0.32	ug/l	25.0		106	70-125			
trans-1,2-Dichloroethene	25.9	0.50	0.30	ug/l	25.0		104	70-125			
1,2-Dichloropropane	21.7	0.50	0.35	ug/l	25.0		87	70-125			
cis-1,3-Dichloropropene	25.8	0.50	0.22	ug/l	25.0		103	75-125			

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Project ID: Annual Outfall 003
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Report Number: ITB0890

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
trans-1,3-Dichloropropene	19.9	0.50	0.32	ug/l	25.0		80	70-125			
Methylene chloride	24.0	1.0	0.95	ug/l	25.0		96	55-130			
1,1,2,2-Tetrachloroethane	25.5	0.50	0.30	ug/l	25.0		102	55-130			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 02/08/2010 (10B0840-MS1)						**Source: ITB0892-01**					
Bromodichloromethane	27.4	0.50	0.30	ug/l	25.0	ND	109	70-135			
Bromoform	22.2	0.50	0.40	ug/l	25.0	ND	89	55-135			
Bromomethane	30.0	1.0	0.42	ug/l	25.0	ND	120	55-145			
Chlorobenzene	26.9	0.50	0.36	ug/l	25.0	ND	108	75-125			
Chloroethane	28.3	1.0	0.40	ug/l	25.0	ND	113	55-140			
Chloromethane	29.6	0.50	0.40	ug/l	25.0	ND	118	45-145			
Dibromochloromethane	25.1	0.50	0.40	ug/l	25.0	ND	100	65-140			
1,2-Dichlorobenzene	26.3	0.50	0.32	ug/l	25.0	ND	105	75-125			
1,3-Dichlorobenzene	27.5	0.50	0.35	ug/l	25.0	ND	110	75-125			
1,4-Dichlorobenzene	27.0	0.50	0.37	ug/l	25.0	ND	108	75-125			
cis-1,2-Dichloroethene	29.2	0.50	0.32	ug/l	25.0	ND	117	65-130			
trans-1,2-Dichloroethene	27.6	0.50	0.30	ug/l	25.0	ND	111	65-130			
1,2-Dichloropropane	24.3	0.50	0.35	ug/l	25.0	ND	97	65-130			
cis-1,3-Dichloropropene	29.5	0.50	0.22	ug/l	25.0	ND	118	70-130			
trans-1,3-Dichloropropene	22.6	0.50	0.32	ug/l	25.0	ND	90	65-135			
Methylene chloride	26.0	1.0	0.95	ug/l	25.0	ND	104	50-135			
1,1,2,2-Tetrachloroethane	26.1	0.50	0.30	ug/l	25.0	ND	104	55-135			
Surrogate: 4-Bromofluorobenzene	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Matrix Spike Dup Analyzed: 02/08/2010 (10B0840-MSD1)						**Source: ITB0892-01**					
Bromodichloromethane	25.6	0.50	0.30	ug/l	25.0	ND	102	70-135	7	20	
Bromoform	21.2	0.50	0.40	ug/l	25.0	ND	85	55-135	5	25	
Bromomethane	29.2	1.0	0.42	ug/l	25.0	ND	117	55-145	3	25	
Chlorobenzene	26.0	0.50	0.36	ug/l	25.0	ND	104	75-125	3	20	
Chloroethane	26.8	1.0	0.40	ug/l	25.0	ND	107	55-140	5	25	
Chloromethane	28.7	0.50	0.40	ug/l	25.0	ND	115	45-145	3	25	
Dibromochloromethane	23.7	0.50	0.40	ug/l	25.0	ND	95	65-140	6	25	
1,2-Dichlorobenzene	25.2	0.50	0.32	ug/l	25.0	ND	101	75-125	4	20	
1,3-Dichlorobenzene	26.2	0.50	0.35	ug/l	25.0	ND	105	75-125	5	20	
1,4-Dichlorobenzene	25.9	0.50	0.37	ug/l	25.0	ND	103	75-125	4	20	
cis-1,2-Dichloroethene	27.3	0.50	0.32	ug/l	25.0	ND	109	65-130	7	20	
trans-1,2-Dichloroethene	26.2	0.50	0.30	ug/l	25.0	ND	105	65-130	6	20	
1,2-Dichloropropane	23.2	0.50	0.35	ug/l	25.0	ND	93	65-130	5	20	
cis-1,3-Dichloropropene	28.0	0.50	0.22	ug/l	25.0	ND	112	70-130	5	20	
trans-1,3-Dichloropropene	20.9	0.50	0.32	ug/l	25.0	ND	84	65-135	8	25	
Methylene chloride	25.0	1.0	0.95	ug/l	25.0	ND	100	50-135	4	20	
1,1,2,2-Tetrachloroethane	24.5	0.50	0.30	ug/l	25.0	ND	98	55-135	6	30	
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Dibromofluoromethane	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			

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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 Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0840-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	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
2-Chloroethyl vinyl ether	13.8	5.0	1.8	ug/l	25.0		55	25-170			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 02/08/2010 (10B0840-MS1)						**Source: ITB0892-01**					
2-Chloroethyl vinyl ether	13.8	5.0	1.8	ug/l	25.0	ND	55	25-170			
Surrogate: 4-Bromofluorobenzene	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0840-MSD1)						**Source: ITB0892-01**					
2-Chloroethyl vinyl ether	12.8	5.0	1.8	ug/l	25.0	ND	51	25-170	7	25	
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Dibromofluoromethane	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1328 Extracted: 02/11/10											
Blank Analyzed: 02/13/2010 (10B1328-BLK1)											
Acenaphthene	ND	10	3.0	ug/l							
Acenaphthylene	ND	10	3.0	ug/l							
Aniline	ND	10	3.5	ug/l							
Anthracene	ND	10	2.5	ug/l							
Benzidine	ND	20	10	ug/l							
Benzo(a)anthracene	ND	10	2.5	ug/l							
Benzo(a)pyrene	ND	10	3.0	ug/l							
Benzo(b)fluoranthene	ND	10	2.0	ug/l							
Benzo(g,h,i)perylene	ND	10	4.0	ug/l							
Benzo(k)fluoranthene	ND	10	2.5	ug/l							
Benzoic acid	ND	20	10	ug/l							
Benzyl alcohol	ND	20	3.5	ug/l							
4-Bromophenyl phenyl ether	ND	10	3.0	ug/l							
Butyl benzyl phthalate	ND	20	4.0	ug/l							
4-Chloro-3-methylphenol	ND	20	2.5	ug/l							
4-Chloroaniline	ND	10	2.0	ug/l							
Bis(2-chloroethoxy)methane	ND	10	3.0	ug/l							
Bis(2-chloroethyl)ether	ND	10	3.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	10	2.5	ug/l							
Bis(2-ethylhexyl)phthalate	ND	50	4.0	ug/l							
2-Chloronaphthalene	ND	10	3.0	ug/l							
2-Chlorophenol	ND	10	3.0	ug/l							
4-Chlorophenyl phenyl ether	ND	10	2.5	ug/l							
Chrysene	ND	10	2.5	ug/l							
Dibenz(a,h)anthracene	ND	20	3.0	ug/l							
Dibenzofuran	ND	10	4.0	ug/l							
Di-n-butyl phthalate	ND	20	3.0	ug/l							
1,2-Dichlorobenzene	ND	10	3.0	ug/l							
1,3-Dichlorobenzene	ND	10	3.0	ug/l							
1,4-Dichlorobenzene	ND	10	2.5	ug/l							
3,3'-Dichlorobenzidine	ND	20	7.5	ug/l							
2,4-Dichlorophenol	ND	10	3.5	ug/l							
Diethyl phthalate	ND	10	3.5	ug/l							
2,4-Dimethylphenol	ND	20	3.5	ug/l							
Dimethyl phthalate	ND	10	2.5	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 Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1328 Extracted: 02/11/10											
Blank Analyzed: 02/13/2010 (10B1328-BLK1)											
4,6-Dinitro-2-methylphenol	ND	20	4.0	ug/l							
2,4-Dinitrophenol	ND	20	8.0	ug/l							
2,4-Dinitrotoluene	ND	10	3.5	ug/l							
2,6-Dinitrotoluene	ND	10	2.0	ug/l							
Di-n-octyl phthalate	ND	20	3.5	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	20	2.5	ug/l							
Fluoranthene	ND	10	3.0	ug/l							
Fluorene	ND	10	3.0	ug/l							
Hexachlorobenzene	ND	10	3.0	ug/l							
Hexachlorobutadiene	ND	10	4.0	ug/l							
Hexachlorocyclopentadiene	ND	20	5.0	ug/l							
Hexachloroethane	ND	10	3.5	ug/l							
Indeno(1,2,3-cd)pyrene	ND	20	3.5	ug/l							
Isophorone	ND	10	3.0	ug/l							
2-Methylnaphthalene	ND	10	2.0	ug/l							
2-Methylphenol	ND	10	3.0	ug/l							
4-Methylphenol	ND	10	3.0	ug/l							
Naphthalene	ND	10	3.0	ug/l							
2-Nitroaniline	ND	20	2.0	ug/l							
3-Nitroaniline	ND	20	3.0	ug/l							
4-Nitroaniline	ND	20	4.0	ug/l							
Nitrobenzene	ND	20	3.0	ug/l							
2-Nitrophenol	ND	10	3.5	ug/l							
4-Nitrophenol	ND	20	5.5	ug/l							
N-Nitroso-di-n-propylamine	ND	10	3.5	ug/l							
N-Nitrosodimethylamine	ND	20	2.5	ug/l							
N-Nitrosodiphenylamine	ND	10	2.0	ug/l							
Pentachlorophenol	ND	20	3.5	ug/l							
Phenanthrene	ND	10	3.5	ug/l							
Phenol	ND	10	2.0	ug/l							
Pyrene	ND	10	4.0	ug/l							
1,2,4-Trichlorobenzene	ND	10	2.5	ug/l							
2,4,5-Trichlorophenol	ND	20	3.0	ug/l							
2,4,6-Trichlorophenol	ND	20	4.5	ug/l							
Surrogate: 2,4,6-Tribromophenol	*149*			*ug/l*	*200*		*74*	*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 Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1328 Extracted: 02/11/10											
Blank Analyzed: 02/13/2010 (10B1328-BLK1)											
Surrogate: 2-Fluorobiphenyl	*74.1*			*ug/l*	*100*		*74*	*50-120*			
Surrogate: 2-Fluorophenol	*119*			*ug/l*	*200*		*60*	*30-120*			
Surrogate: Nitrobenzene-d5	*69.8*			*ug/l*	*100*		*70*	*45-120*			
Surrogate: Phenol-d6	*127*			*ug/l*	*200*		*64*	*35-120*			
Surrogate: Terphenyl-d14	*79.8*			*ug/l*	*100*		*80*	*50-125*			
LCS Analyzed: 02/13/2010 (10B1328-BS1)											**MNR1**
Acenaphthene	78.5	10	3.0	ug/l	100		78	60-120			
Acenaphthylene	79.4	10	3.0	ug/l	100		79	60-120			
Aniline	77.9	10	3.5	ug/l	100		78	35-120			
Anthracene	79.0	10	2.5	ug/l	100		79	65-120			
Benzidine	117	20	10	ug/l	100		117	30-160			
Benzo(a)anthracene	79.0	10	2.5	ug/l	100		79	65-120			
Benzo(a)pyrene	84.2	10	3.0	ug/l	100		84	55-130			
Benzo(b)fluoranthene	86.5	10	2.0	ug/l	100		87	55-125			
Benzo(g,h,i)perylene	87.8	10	4.0	ug/l	100		88	45-135			
Benzo(k)fluoranthene	83.7	10	2.5	ug/l	100		84	50-125			
Benzoic acid	55.7	20	10	ug/l	100		56	25-120			
Benzyl alcohol	98.3	20	3.5	ug/l	100		98	50-120			
4-Bromophenyl phenyl ether	80.0	10	3.0	ug/l	100		80	60-120			
Butyl benzyl phthalate	88.8	20	4.0	ug/l	100		89	55-130			
4-Chloro-3-methylphenol	75.5	20	2.5	ug/l	100		75	60-120			
4-Chloroaniline	79.5	10	2.0	ug/l	100		80	55-120			
Bis(2-chloroethoxy)methane	80.3	10	3.0	ug/l	100		80	55-120			
Bis(2-chloroethyl)ether	75.3	10	3.0	ug/l	100		75	50-120			
Bis(2-chloroisopropyl)ether	83.4	10	2.5	ug/l	100		83	45-120			
Bis(2-ethylhexyl)phthalate	88.8	50	4.0	ug/l	100		89	65-130			
2-Chloronaphthalene	77.6	10	3.0	ug/l	100		78	60-120			
2-Chlorophenol	69.4	10	3.0	ug/l	100		69	45-120			
4-Chlorophenyl phenyl ether	75.7	10	2.5	ug/l	100		76	65-120			
Chrysene	82.7	10	2.5	ug/l	100		83	65-120			
Dibenz(a,h)anthracene	88.1	20	3.0	ug/l	100		88	50-135			
Dibenzofuran	78.4	10	4.0	ug/l	100		78	65-120			
Di-n-butyl phthalate	81.0	20	3.0	ug/l	100		81	60-125			
1,2-Dichlorobenzene	63.5	10	3.0	ug/l	100		63	40-120			
1,3-Dichlorobenzene	62.3	10	3.0	ug/l	100		62	35-120			

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Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1328 Extracted: 02/11/10											
LCS Analyzed: 02/13/2010 (10B1328-BS1)											**MNR1**
1,4-Dichlorobenzene	62.5	10	2.5	ug/l	100		63	35-120			
3,3'-Dichlorobenzidine	76.1	20	7.5	ug/l	100		76	45-135			
2,4-Dichlorophenol	76.2	10	3.5	ug/l	100		76	55-120			
Diethyl phthalate	76.5	10	3.5	ug/l	100		76	55-120			
2,4-Dimethylphenol	66.8	20	3.5	ug/l	100		67	40-120			
Dimethyl phthalate	77.7	10	2.5	ug/l	100		78	30-120			
4,6-Dinitro-2-methylphenol	93.8	20	4.0	ug/l	100		94	45-120			
2,4-Dinitrophenol	89.0	20	8.0	ug/l	100		89	40-120			
2,4-Dinitrotoluene	80.4	10	3.5	ug/l	100		80	65-120			
2,6-Dinitrotoluene	79.3	10	2.0	ug/l	100		79	65-120			
Di-n-octyl phthalate	90.4	20	3.5	ug/l	100		90	65-135			
1,2-Diphenylhydrazine/Azobenzene	87.4	20	2.5	ug/l	100		87	60-120			
Fluoranthene	78.7	10	3.0	ug/l	100		79	60-120			
Fluorene	75.9	10	3.0	ug/l	100		76	65-120			
Hexachlorobenzene	76.7	10	3.0	ug/l	100		77	60-120			
Hexachlorobutadiene	64.6	10	4.0	ug/l	100		65	40-120			
Hexachlorocyclopentadiene	127	20	5.0	ug/l	100		127	25-120			*L*
Hexachloroethane	58.7	10	3.5	ug/l	100		59	35-120			
Indeno(1,2,3-cd)pyrene	84.1	20	3.5	ug/l	100		84	45-135			
Isophorone	83.0	10	3.0	ug/l	100		83	50-120			
2-Methylnaphthalene	73.4	10	2.0	ug/l	100		73	55-120			
2-Methylphenol	69.6	10	3.0	ug/l	100		70	50-120			
4-Methylphenol	72.2	10	3.0	ug/l	100		72	50-120			
Naphthalene	75.9	10	3.0	ug/l	100		76	55-120			
2-Nitroaniline	83.3	20	2.0	ug/l	100		83	65-120			
3-Nitroaniline	83.1	20	3.0	ug/l	100		83	60-120			
4-Nitroaniline	81.9	20	4.0	ug/l	100		82	55-125			
Nitrobenzene	78.8	20	3.0	ug/l	100		79	55-120			
2-Nitrophenol	77.0	10	3.5	ug/l	100		77	50-120			
4-Nitrophenol	68.4	20	5.5	ug/l	100		68	45-120			
N-Nitroso-di-n-propylamine	77.6	10	3.5	ug/l	100		78	45-120			
N-Nitrosodimethylamine	78.9	20	2.5	ug/l	100		79	45-120			
N-Nitrosodiphenylamine	86.7	10	2.0	ug/l	100		87	60-120			
Pentachlorophenol	77.5	20	3.5	ug/l	100		78	50-120			
Phenanthrene	79.5	10	3.5	ug/l	100		79	65-120			

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Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1328 Extracted: 02/11/10											
LCS Analyzed: 02/13/2010 (10B1328-BS1)											**MNR1**
Phenol	70.9	10	2.0	ug/l	100		71	40-120			
Pyrene	81.0	10	4.0	ug/l	100		81	55-125			
1,2,4-Trichlorobenzene	69.8	10	2.5	ug/l	100		70	45-120			
2,4,5-Trichlorophenol	78.0	20	3.0	ug/l	100		78	55-120			
2,4,6-Trichlorophenol	80.1	20	4.5	ug/l	100		80	55-120			
Surrogate: 2,4,6-Tribromophenol	*165*			*ug/l*	*200*		*83*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*80.0*			*ug/l*	*100*		*80*	*50-120*			
Surrogate: 2-Fluorophenol	*127*			*ug/l*	*200*		*63*	*30-120*			
Surrogate: Nitrobenzene-d5	*78.3*			*ug/l*	*100*		*78*	*45-120*			
Surrogate: Phenol-d6	*140*			*ug/l*	*200*		*70*	*35-120*			
Surrogate: Terphenyl-d14	*81.1*			*ug/l*	*100*		*81*	*50-125*			
LCS Dup Analyzed: 02/13/2010 (10B1328-BSD1)											
Acenaphthene	86.0	10	3.0	ug/l	100		86	60-120	9	20	
Acenaphthylene	87.9	10	3.0	ug/l	100		88	60-120	10	20	
Aniline	75.7	10	3.5	ug/l	100		76	35-120	3	30	
Anthracene	85.4	10	2.5	ug/l	100		85	65-120	8	20	
Benzidine	81.0	20	10	ug/l	100		81	30-160	36	35	*R-7*
Benzo(a)anthracene	84.7	10	2.5	ug/l	100		85	65-120	7	20	
Benzo(a)pyrene	89.9	10	3.0	ug/l	100		90	55-130	7	25	
Benzo(b)fluoranthene	91.0	10	2.0	ug/l	100		91	55-125	5	25	
Benzo(g,h,i)perylene	95.1	10	4.0	ug/l	100		95	45-135	8	25	
Benzo(k)fluoranthene	90.4	10	2.5	ug/l	100		90	50-125	8	20	
Benzoic acid	81.8	20	10	ug/l	100		82	25-120	38	30	*R-7*
Benzyl alcohol	113	20	3.5	ug/l	100		113	50-120	14	20	
4-Bromophenyl phenyl ether	86.4	10	3.0	ug/l	100		86	60-120	8	25	
Butyl benzyl phthalate	91.8	20	4.0	ug/l	100		92	55-130	3	20	
4-Chloro-3-methylphenol	85.3	20	2.5	ug/l	100		85	60-120	12	25	
4-Chloroaniline	87.9	10	2.0	ug/l	100		88	55-120	10	25	
Bis(2-chloroethoxy)methane	91.1	10	3.0	ug/l	100		91	55-120	13	20	
Bis(2-chloroethyl)ether	86.4	10	3.0	ug/l	100		86	50-120	14	20	
Bis(2-chloroisopropyl)ether	97.5	10	2.5	ug/l	100		97	45-120	16	20	
Bis(2-ethylhexyl)phthalate	96.0	50	4.0	ug/l	100		96	65-130	8	20	
2-Chloronaphthalene	87.2	10	3.0	ug/l	100		87	60-120	12	20	
2-Chlorophenol	76.8	10	3.0	ug/l	100		77	45-120	10	25	
4-Chlorophenyl phenyl ether	83.4	10	2.5	ug/l	100		83	65-120	10	20	

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1328 Extracted: 02/11/10											
LCS Dup Analyzed: 02/13/2010 (10B1328-BSD1)											
Chrysene	87.8	10	2.5	ug/l	100		88	65-120	6	20	
Dibenz(a,h)anthracene	93.8	20	3.0	ug/l	100		94	50-135	6	25	
Dibenzofuran	87.1	10	4.0	ug/l	100		87	65-120	11	20	
Di-n-butyl phthalate	86.8	20	3.0	ug/l	100		87	60-125	7	20	
1,2-Dichlorobenzene	73.1	10	3.0	ug/l	100		73	40-120	14	25	
1,3-Dichlorobenzene	71.0	10	3.0	ug/l	100		71	35-120	13	25	
1,4-Dichlorobenzene	71.6	10	2.5	ug/l	100		72	35-120	14	25	
3,3'-Dichlorobenzidine	81.3	20	7.5	ug/l	100		81	45-135	7	25	
2,4-Dichlorophenol	83.7	10	3.5	ug/l	100		84	55-120	9	20	
Diethyl phthalate	84.2	10	3.5	ug/l	100		84	55-120	10	30	
2,4-Dimethylphenol	74.1	20	3.5	ug/l	100		74	40-120	10	25	
Dimethyl phthalate	85.4	10	2.5	ug/l	100		85	30-120	9	30	
4,6-Dinitro-2-methylphenol	100	20	4.0	ug/l	100		100	45-120	6	25	
2,4-Dinitrophenol	95.9	20	8.0	ug/l	100		96	40-120	8	25	
2,4-Dinitrotoluene	88.3	10	3.5	ug/l	100		88	65-120	9	20	
2,6-Dinitrotoluene	87.5	10	2.0	ug/l	100		87	65-120	10	20	
Di-n-octyl phthalate	96.5	20	3.5	ug/l	100		96	65-135	7	20	
1,2-Diphenylhydrazine/Azobenzene	97.0	20	2.5	ug/l	100		97	60-120	10	25	
Fluoranthene	84.6	10	3.0	ug/l	100		85	60-120	7	20	
Fluorene	84.3	10	3.0	ug/l	100		84	65-120	11	20	
Hexachlorobenzene	83.1	10	3.0	ug/l	100		83	60-120	8	20	
Hexachlorobutadiene	73.4	10	4.0	ug/l	100		73	40-120	13	25	
Hexachlorocyclopentadiene	137	20	5.0	ug/l	100		137	25-120	7	30	*L*
Hexachloroethane	67.7	10	3.5	ug/l	100		68	35-120	14	25	
Indeno(1,2,3-cd)pyrene	91.5	20	3.5	ug/l	100		92	45-135	8	25	
Isophorone	94.0	10	3.0	ug/l	100		94	50-120	12	20	
2-Methylnaphthalene	84.8	10	2.0	ug/l	100		85	55-120	14	20	
2-Methylphenol	79.8	10	3.0	ug/l	100		80	50-120	14	20	
4-Methylphenol	82.6	10	3.0	ug/l	100		83	50-120	13	20	
Naphthalene	85.6	10	3.0	ug/l	100		86	55-120	12	20	
2-Nitroaniline	93.7	20	2.0	ug/l	100		94	65-120	12	20	
3-Nitroaniline	91.9	20	3.0	ug/l	100		92	60-120	10	25	
4-Nitroaniline	92.1	20	4.0	ug/l	100		92	55-125	12	20	
Nitrobenzene	89.3	20	3.0	ug/l	100		89	55-120	12	25	
2-Nitrophenol	86.7	10	3.5	ug/l	100		87	50-120	12	25	

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1328 Extracted: 02/11/10											
LCS Dup Analyzed: 02/13/2010 (10B1328-BSD1)											
4-Nitrophenol	74.0	20	5.5	ug/l	100		74	45-120	8	30	
N-Nitroso-di-n-propylamine	90.2	10	3.5	ug/l	100		90	45-120	15	20	
N-Nitrosodimethylamine	82.9	20	2.5	ug/l	100		83	45-120	5	20	
N-Nitrosodiphenylamine	94.9	10	2.0	ug/l	100		95	60-120	9	20	
Pentachlorophenol	84.5	20	3.5	ug/l	100		84	50-120	9	25	
Phenanthrene	85.6	10	3.5	ug/l	100		86	65-120	7	20	
Phenol	77.9	10	2.0	ug/l	100		78	40-120	9	25	
Pyrene	85.5	10	4.0	ug/l	100		86	55-125	5	25	
1,2,4-Trichlorobenzene	79.3	10	2.5	ug/l	100		79	45-120	13	20	
2,4,5-Trichlorophenol	85.4	20	3.0	ug/l	100		85	55-120	9	30	
2,4,6-Trichlorophenol	87.4	20	4.5	ug/l	100		87	55-120	9	30	
Surrogate: 2,4,6-Tribromophenol	*178*			*ug/l*	*200*		*89*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*87.7*			*ug/l*	*100*		*88*	*50-120*			
Surrogate: 2-Fluorophenol	*128*			*ug/l*	*200*		*64*	*30-120*			
Surrogate: Nitrobenzene-d5	*88.7*			*ug/l*	*100*		*89*	*45-120*			
Surrogate: Phenol-d6	*152*			*ug/l*	*200*		*76*	*35-120*			
Surrogate: Terphenyl-d14	*87.2*			*ug/l*	*100*		*87*	*50-125*			

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METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
Blank Analyzed: 02/11/2010 (10B0852-BLK1)											
Acenaphthylene	ND	5.0	N/A	ug/l							
Alachlor	ND	1.0	N/A	ug/l							
Aldrin	ND	0.075	N/A	ug/l							
Ametryn	ND	1.0	N/A	ug/l							
Atrazine	ND	0.50	N/A	ug/l							
Benz(a)anthracene	ND	10	N/A	ug/l							
Benzo(a)pyrene	ND	0.10	N/A	ug/l							
Benzo(b)fluoranthene	ND	10	N/A	ug/l							
Benzo(g,h,i)perylene	ND	10	N/A	ug/l							
Benzo(k)fluoranthene	ND	10	N/A	ug/l							
Butachlor	ND	0.38	N/A	ug/l							
Butylate	ND	1.0	N/A	ug/l							
Butyl benzyl phthalate	ND	10	N/A	ug/l							
Di-n-butyl phthalate	ND	5.0	N/A	ug/l							
2-Chlorobiphenyl	ND	0.50	N/A	ug/l							
Chloroneb	ND	0.50	N/A	ug/l							
Chloropropham	ND	5.0	N/A	ug/l							
Chlorpyrifos	ND	1.0	N/A	ug/l							
Chrysene	ND	5.0	N/A	ug/l							
Cycloate	ND	0.30	N/A	ug/l							
Diazinon	ND	0.25	N/A	ug/l							
Dibenz(a,h)anthracene	ND	5.0	N/A	ug/l							
2,3-Dichlorobiphenyl	ND	0.50	N/A	ug/l							
Di(2-ethylhexyl)adipate	ND	5.0	N/A	ug/l							
Di(2-ethylhexyl)phthalate	ND	3.0	N/A	ug/l							
Diethyl phthalate	ND	5.0	N/A	ug/l							
Dimethyl phthalate	ND	5.0	N/A	ug/l							
Diphenamid	ND	100	N/A	ug/l							
Fluorene	ND	5.0	N/A	ug/l							
2,2',3,3',4,4',6-Heptachlorobiphenyl	ND	1.0	N/A	ug/l							
Hexachlorobenzene	ND	0.50	N/A	ug/l							
2,2',4,4',5,6'-Hexachlorobiphenyl	ND	1.0	N/A	ug/l							
Hexachlorocyclopentadiene	ND	1.0	N/A	ug/l							
Indeno(1,2,3-cd)pyrene	ND	10	N/A	ug/l							
gamma-BHC (Lindane)	ND	0.20	N/A	ug/l							

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ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
Blank Analyzed: 02/11/2010 (10B0852-BLK1)											
Methoxychlor	ND	10	N/A	ug/l							
Metolachlor	ND	0.50	N/A	ug/l							
Metribuzin	ND	1.0	N/A	ug/l							
Molinate	ND	2.0	N/A	ug/l							
Napropamide	ND	1.0	N/A	ug/l							
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	ND	1.0	N/A	ug/l							
Pebulate	ND	0.50	N/A	ug/l							
2,2',3',4,6-Pentachlorobiphenyl	ND	1.0	N/A	ug/l							
Permethrins (mixed isomers, total)	ND	2.0	N/A	ug/l							
Phenanthrene	ND	5.0	N/A	ug/l							
Prometryn	ND	2.0	N/A	ug/l							
Propachlor	ND	0.50	N/A	ug/l							
Propazine	ND	0.50	N/A	ug/l							
Pyrene	ND	5.0	N/A	ug/l							
Simazine	ND	1.0	N/A	ug/l							
Simetryn	ND	1.0	N/A	ug/l							
Terbutryn (e)	ND	1.0	N/A	ug/l							
2,2',4,4'-Tetrachlorobiphenyl	ND	0.50	N/A	ug/l							
Thiobencarb	ND	1.0	N/A	ug/l							
Triadimefon	ND	0.50	N/A	ug/l							
2,4,5-Trichlorobiphenyl	ND	0.50	N/A	ug/l							
Trifluralin	ND	0.50	N/A	ug/l							
Vernolate	ND	0.50	N/A	ug/l							
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.59*			*ug/l*	*5.00*		*92*	*70-130*			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.59*			*ug/l*	*5.00*		*92*	*70-130*			
Surrogate: Triphenylphosphate	*5.28*			*ug/l*	*5.00*		*106*	*70-130*			
Surrogate: Triphenylphosphate	*5.28*			*ug/l*	*5.00*		*106*	*70-130*			
Surrogate: Perylene-d12	*4.82*			*ug/l*	*5.00*		*96*	*70-130*			
Surrogate: Perylene-d12	*4.82*			*ug/l*	*5.00*		*96*	*70-130*			

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
LCS Analyzed: 02/11/2010 (10B0852-BS1)											
Acenaphthylene	4.34	5.0	N/A	ug/l	5.00		87	70-130			*Ja*
Alachlor	5.41	1.0	N/A	ug/l	5.00		108	70-130			
Aldrin	4.35	0.075	N/A	ug/l	5.00		87	70-130			
Ametryn	5.06	1.0	N/A	ug/l	5.00		101	70-130			
Atrazine	5.12	0.50	N/A	ug/l	5.00		102	70-130			
Benz(a)anthracene	4.76	10	N/A	ug/l	5.00		95	70-130			*Ja*
Benzo(a)pyrene	5.76	0.10	N/A	ug/l	5.00		115	70-130			
Benzo(b)fluoranthene	5.41	10	N/A	ug/l	5.00		108	70-130			*Ja*
Benzo(g,h,i)perylene	5.35	10	N/A	ug/l	5.00		107	70-130			*Ja*
Benzo(k)fluoranthene	5.00	10	N/A	ug/l	5.00		100	70-130			*Ja*
Butachlor	5.52	0.38	N/A	ug/l	5.00		110	70-130			
Butylate	4.81	1.0	N/A	ug/l	5.00		96	70-130			
Butyl benzyl phthalate	10.8	10	N/A	ug/l	10.0		108	70-130			
Di-n-butyl phthalate	9.80	5.0	N/A	ug/l	10.0		98	70-130			
2-Chlorobiphenyl	4.55	0.50	N/A	ug/l	5.00		91	70-130			
Chloroneb	5.30	0.50	N/A	ug/l	5.00		106	70-130			
Chloropropham	5.83	5.0	N/A	ug/l	5.00		117	70-130			
Chlorpyrifos	4.88	1.0	N/A	ug/l	5.00		98	70-130			
Chrysene	5.19	5.0	N/A	ug/l	5.00		104	70-130			
Cycloate	5.64	0.30	N/A	ug/l	5.00		113	70-130			
Diazinon	5.23	0.25	N/A	ug/l	5.00		105	70-130			
Dibenz(a,h)anthracene	5.42	5.0	N/A	ug/l	5.00		108	70-130			
2,3-Dichlorobiphenyl	5.31	0.50	N/A	ug/l	5.00		106	70-130			
Di(2-ethylhexyl)adipate	10.7	5.0	N/A	ug/l	10.0		107	70-130			
Di(2-ethylhexyl)phthalate	10.6	3.0	N/A	ug/l	10.0		106	70-130			
Diethyl phthalate	10.9	5.0	N/A	ug/l	10.0		109	70-130			
Dimethyl phthalate	9.95	5.0	N/A	ug/l	10.0		100	70-130			
Diphenamid	5.22	100	N/A	ug/l	5.00		104	70-130			*Ja*
Fluorene	5.31	5.0	N/A	ug/l	5.00		106	70-130			
2,2',3,3',4,4',6-Heptachlorobiphenyl	4.95	1.0	N/A	ug/l	5.00		99	70-130			
Hexachlorobenzene	5.47	0.50	N/A	ug/l	5.00		109	70-130			
2,2',4,4',5,6'-Hexachlorobiphenyl	5.19	1.0	N/A	ug/l	5.00		104	70-130			
Hexachlorocyclopentadiene	10.4	1.0	N/A	ug/l	10.0		104	70-130			
Indeno(1,2,3-cd)pyrene	4.70	10	N/A	ug/l	5.00		94	70-130			*Ja*
gamma-BHC (Lindane)	5.16	0.20	N/A	ug/l	5.00		103	70-130			

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MWH-Pasadena/Boeing
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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
LCS Analyzed: 02/11/2010 (10B0852-BS1)											
Methoxychlor	4.69	10	N/A	ug/l	5.00		94	70-130			*Ja*
Metolachlor	5.43	0.50	N/A	ug/l	5.00		109	70-130			
Metribuzin	5.11	1.0	N/A	ug/l	5.00		102	70-130			
Molinate	5.69	2.0	N/A	ug/l	5.00		114	70-130			
Napropamide	5.59	1.0	N/A	ug/l	5.00		112	70-130			
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	5.22	1.0	N/A	ug/l	5.00		104	70-130			
Pebulate	4.81	0.50	N/A	ug/l	5.00		96	70-130			
2,2',3',4,6-Pentachlorobiphenyl	5.27	1.0	N/A	ug/l	5.00		105	70-130			
Permethrins (mixed isomers, total)	12.1	2.0	N/A	ug/l	9.90		122	70-130			
Phenanthrene	4.82	5.0	N/A	ug/l	5.00		96	70-130			*Ja*
Prometryn	5.15	2.0	N/A	ug/l	5.00		103	70-130			
Propachlor	6.08	0.50	N/A	ug/l	5.00		122	70-130			
Propazine	5.39	0.50	N/A	ug/l	5.00		108	70-130			
Pyrene	5.52	5.0	N/A	ug/l	5.00		110	70-130			
Simazine	4.91	1.0	N/A	ug/l	5.00		98	70-130			
Simetryn	4.65	1.0	N/A	ug/l	5.00		93	70-130			
Terbutryn (e)	5.30	1.0	N/A	ug/l	5.00		106	70-130			
2,2',4,4'-Tetrachlorobiphenyl	5.14	0.50	N/A	ug/l	5.00		103	70-130			
Thiobencarb	5.33	1.0	N/A	ug/l	5.00		107	70-130			
Triadimefon	5.30	0.50	N/A	ug/l	5.00		106	70-130			
2,4,5-Trichlorobiphenyl	5.07	0.50	N/A	ug/l	5.00		101	70-130			
Trifluralin	6.12	0.50	N/A	ug/l	5.00		122	70-130			
Vernolate	4.81	0.50	N/A	ug/l	5.00		96	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*3.99*			*ug/l*	*5.00*		*80*	*70-130*			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*3.99*			*ug/l*	*5.00*		*80*	*70-130*			
Surrogate: Triphenylphosphate	*5.04*			*ug/l*	*5.00*		*101*	*70-130*			
Surrogate: Triphenylphosphate	*5.04*			*ug/l*	*5.00*		*101*	*70-130*			
Surrogate: Perylene-d12	*5.39*			*ug/l*	*5.00*		*108*	*70-130*			
Surrogate: Perylene-d12	*5.39*			*ug/l*	*5.00*		*108*	*70-130*			

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

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/11/2010 (10B0852-MS1)						**Source: ITB0598-01**					
Acenaphthylene	4.38	5.0	N/A	ug/l	5.00	0.00	88	70-130			*Ja*
Alachlor	5.35	1.0	N/A	ug/l	5.00	0.00	107	70-130			
Aldrin	4.02	0.075	N/A	ug/l	5.00	0.00	80	70-130			
Ametryn	5.32	1.0	N/A	ug/l	5.00	0.00	106	70-130			
Atrazine	4.74	0.50	N/A	ug/l	5.00	0.00	95	70-130			
Benz(a)anthracene	4.51	10	N/A	ug/l	5.00	0.00	90	70-130			*Ja*
Benzo(a)pyrene	4.99	0.10	N/A	ug/l	5.00	0.00	100	70-130			
Benzo(b)fluoranthene	5.12	10	N/A	ug/l	5.00	0.00	102	70-130			*Ja*
Benzo(g,h,i)perylene	4.87	10	N/A	ug/l	5.00	0.00	97	70-130			*Ja*
Benzo(k)fluoranthene	4.33	10	N/A	ug/l	5.00	0.00	87	70-130			*Ja*
Butachlor	5.43	0.38	N/A	ug/l	5.00	0.00	109	70-130			
Butylate	4.75	1.0	N/A	ug/l	5.00	0.00	95	70-130			
Butyl benzyl phthalate	10.9	10	N/A	ug/l	10.0	0.00	109	70-130			
Di-n-butyl phthalate	9.87	5.0	N/A	ug/l	10.0	0.00	99	70-130			
2-Chlorobiphenyl	4.59	0.50	N/A	ug/l	5.00	0.00	92	70-130			
Chloroneb	5.32	0.50	N/A	ug/l	5.00	0.00	106	70-130			
Chloropropham	5.61	5.0	N/A	ug/l	5.00	0.00	112	70-130			
Chlorpyrifos	5.11	1.0	N/A	ug/l	5.00	0.00	102	70-130			
Chrysene	5.01	5.0	N/A	ug/l	5.00	0.00	100	70-130			
Cycloate	5.22	0.30	N/A	ug/l	5.00	0.00	104	70-130			
Diazinon	3.14	0.25	N/A	ug/l	5.00	0.00	63	70-130			*M2*
Dibenz(a,h)anthracene	4.89	5.0	N/A	ug/l	5.00	0.00	98	70-130			*Ja*
2,3-Dichlorobiphenyl	4.83	0.50	N/A	ug/l	5.00	0.00	97	70-130			
Di(2-ethylhexyl)adipate	10.4	5.0	N/A	ug/l	10.0	0.00	104	70-130			
Di(2-ethylhexyl)phthalate	10.5	3.0	N/A	ug/l	10.0	0.720	98	70-130			
Diethyl phthalate	10.2	5.0	N/A	ug/l	10.0	0.00	102	70-130			
Dimethyl phthalate	9.55	5.0	N/A	ug/l	10.0	0.00	96	70-130			
Diphenamid	5.39	100	N/A	ug/l	5.00	0.00	108	70-130			*Ja*
Fluorene	5.09	5.0	N/A	ug/l	5.00	0.00	102	70-130			
2,2',3,3',4,4',6-Heptachlorobiphenyl	4.74	1.0	N/A	ug/l	5.00	0.00	95	70-130			
Hexachlorobenzene	4.73	0.50	N/A	ug/l	5.00	0.00	95	70-130			
2,2',4,4',5,6'-Hexachlorobiphenyl	4.88	1.0	N/A	ug/l	5.00	0.00	98	70-130			
Hexachlorocyclopentadiene	11.1	1.0	N/A	ug/l	10.0	0.00	111	70-130			
Indeno(1,2,3-cd)pyrene	4.65	10	N/A	ug/l	5.00	0.00	93	70-130			*Ja*
gamma-BHC (Lindane)	5.03	0.20	N/A	ug/l	5.00	0.00	101	70-130			

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/11/2010 (10B0852-MS1)						**Source: ITB0598-01**					
Methoxychlor	4.97	10	N/A	ug/l	5.00	0.00	99	70-130			*Ja*
Metolachlor	5.45	0.50	N/A	ug/l	5.00	0.00	109	70-130			
Metribuzin	3.64	1.0	N/A	ug/l	5.00	0.00	73	70-130			
Molinate	5.09	2.0	N/A	ug/l	5.00	0.00	102	70-130			
Napropamide	5.77	1.0	N/A	ug/l	5.00	0.00	115	70-130			
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	4.73	1.0	N/A	ug/l	5.00	0.00	95	70-130			
Pebulate	4.60	0.50	N/A	ug/l	5.00	0.00	92	70-130			
2,2',3',4,6-Pentachlorobiphenyl	4.80	1.0	N/A	ug/l	5.00	0.00	96	70-130			
Permethrins (mixed isomers, total)	11.2	2.0	N/A	ug/l	9.90	0.00	113	70-130			
Phenanthrene	4.86	5.0	N/A	ug/l	5.00	0.00	97	70-130			*Ja*
Prometryn	5.04	2.0	N/A	ug/l	5.00	0.00	101	70-130			
Propachlor	5.60	0.50	N/A	ug/l	5.00	0.00	112	70-130			
Propazine	5.15	0.50	N/A	ug/l	5.00	0.00	103	70-130			
Pyrene	5.19	5.0	N/A	ug/l	5.00	0.00	104	70-130			
Simazine	4.91	1.0	N/A	ug/l	5.00	0.00	98	70-130			
Simetryn	5.30	1.0	N/A	ug/l	5.00	0.00	106	70-130			
Terbutryn (e)	5.41	1.0	N/A	ug/l	5.00	0.00	108	70-130			
2,2',4,4'-Tetrachlorobiphenyl	4.72	0.50	N/A	ug/l	5.00	0.00	94	70-130			
Thiobencarb	5.43	1.0	N/A	ug/l	5.00	0.00	109	70-130			
Triadimefon	5.69	0.50	N/A	ug/l	5.00	0.00	114	70-130			
2,4,5-Trichlorobiphenyl	4.87	0.50	N/A	ug/l	5.00	0.00	97	70-130			
Trifluralin	5.32	0.50	N/A	ug/l	5.00	0.00	106	70-130			
Vernolate	4.79	0.50	N/A	ug/l	5.00	0.00	96	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.50*			*ug/l*	*5.00*		*90*	*70-130*			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.50*			*ug/l*	*5.00*		*90*	*70-130*			
Surrogate: Triphenylphosphate	*5.08*			*ug/l*	*5.00*		*102*	*70-130*			
Surrogate: Triphenylphosphate	*5.08*			*ug/l*	*5.00*		*102*	*70-130*			
Surrogate: Perylene-d12	*4.67*			*ug/l*	*5.00*		*93*	*70-130*			
Surrogate: Perylene-d12	*4.67*			*ug/l*	*5.00*		*93*	*70-130*			

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Received: 02/06/10

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/11/2010 (10B0852-MS2)						**Source: ITB0590-01**					
Acenaphthylene	4.33	5.0	N/A	ug/l	5.00	0.00	87	70-130			*Ja*
Alachlor	5.19	1.0	N/A	ug/l	5.00	0.00	104	70-130			
Aldrin	3.65	0.075	N/A	ug/l	5.00	0.00	73	70-130			
Ametryn	4.70	1.0	N/A	ug/l	5.00	0.00	94	70-130			
Atrazine	4.84	0.50	N/A	ug/l	5.00	0.00	97	70-130			
Benz(a)anthracene	4.86	10	N/A	ug/l	5.00	0.00	97	70-130			*Ja*
Benzo(a)pyrene	5.38	0.10	N/A	ug/l	5.00	0.00	108	70-130			
Benzo(b)fluoranthene	5.38	10	N/A	ug/l	5.00	0.00	108	70-130			*Ja*
Benzo(g,h,i)perylene	5.33	10	N/A	ug/l	5.00	0.00	107	70-130			*Ja*
Benzo(k)fluoranthene	4.89	10	N/A	ug/l	5.00	0.00	98	70-130			*Ja*
Butachlor	5.36	0.38	N/A	ug/l	5.00	0.00	107	70-130			
Butylate	4.70	1.0	N/A	ug/l	5.00	0.00	94	70-130			
Butyl benzyl phthalate	11.6	10	N/A	ug/l	10.0	0.00	116	70-130			
Di-n-butyl phthalate	9.38	5.0	N/A	ug/l	10.0	0.00	94	70-130			
2-Chlorobiphenyl	4.45	0.50	N/A	ug/l	5.00	0.00	89	70-130			
Chloroneb	4.66	0.50	N/A	ug/l	5.00	0.00	93	70-130			
Chloropropham	5.24	5.0	N/A	ug/l	5.00	0.00	105	70-130			
Chlorpyrifos	4.73	1.0	N/A	ug/l	5.00	0.00	95	70-130			
Chrysene	5.29	5.0	N/A	ug/l	5.00	0.00	106	70-130			
Cycloate	5.11	0.30	N/A	ug/l	5.00	0.00	102	70-130			
Diazinon	2.29	0.25	N/A	ug/l	5.00	0.00	46	70-130			*M2*
Dibenz(a,h)anthracene	5.44	5.0	N/A	ug/l	5.00	0.00	109	70-130			
2,3-Dichlorobiphenyl	4.63	0.50	N/A	ug/l	5.00	0.00	93	70-130			
Di(2-ethylhexyl)adipate	10.9	5.0	N/A	ug/l	10.0	0.00	109	70-130			
Di(2-ethylhexyl)phthalate	10.4	3.0	N/A	ug/l	10.0	0.00	104	70-130			
Diethyl phthalate	10.1	5.0	N/A	ug/l	10.0	0.00	101	70-130			
Dimethyl phthalate	9.26	5.0	N/A	ug/l	10.0	0.00	93	70-130			
Diphenamid	5.17	100	N/A	ug/l	5.00	0.00	103	70-130			*Ja*
Fluorene	4.96	5.0	N/A	ug/l	5.00	0.00	99	70-130			*Ja*
2,2',3,3',4,4',6-Heptachlorobiphenyl	5.17	1.0	N/A	ug/l	5.00	0.00	103	70-130			
Hexachlorobenzene	4.63	0.50	N/A	ug/l	5.00	0.00	93	70-130			
2,2',4,4',5,6'-Hexachlorobiphenyl	4.70	1.0	N/A	ug/l	5.00	0.00	94	70-130			
Hexachlorocyclopentadiene	10.9	1.0	N/A	ug/l	10.0	0.00	109	70-130			
Indeno(1,2,3-cd)pyrene	4.80	10	N/A	ug/l	5.00	0.00	96	70-130			*Ja*
gamma-BHC (Lindane)	4.87	0.20	N/A	ug/l	5.00	0.00	97	70-130			

TestAmerica Irvine

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

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/11/2010 (10B0852-MS2)						**Source: ITB0590-01**					
Methoxychlor	4.92	10	N/A	ug/l	5.00	0.00	98	70-130			*Ja*
Metolachlor	5.27	0.50	N/A	ug/l	5.00	0.00	105	70-130			
Metribuzin	3.77	1.0	N/A	ug/l	5.00	0.00	75	70-130			
Molinate	5.10	2.0	N/A	ug/l	5.00	0.00	102	70-130			
Napropamide	5.55	1.0	N/A	ug/l	5.00	0.00	111	70-130			
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	5.02	1.0	N/A	ug/l	5.00	0.00	100	70-130			
Pebulate	4.60	0.50	N/A	ug/l	5.00	0.00	92	70-130			
2,2',3',4,6-Pentachlorobiphenyl	4.85	1.0	N/A	ug/l	5.00	0.00	97	70-130			
Permethrins (mixed isomers, total)	12.0	2.0	N/A	ug/l	9.90	0.00	121	70-130			
Phenanthrene	4.68	5.0	N/A	ug/l	5.00	0.00	94	70-130			*Ja*
Prometryn	4.69	2.0	N/A	ug/l	5.00	0.00	94	70-130			
Propachlor	5.41	0.50	N/A	ug/l	5.00	0.00	108	70-130			
Propazine	5.16	0.50	N/A	ug/l	5.00	0.00	103	70-130			
Pyrene	5.09	5.0	N/A	ug/l	5.00	0.00	102	70-130			
Simazine	4.59	1.0	N/A	ug/l	5.00	0.00	92	70-130			
Simetryn	4.56	1.0	N/A	ug/l	5.00	0.00	91	70-130			
Terbutryn (e)	4.84	1.0	N/A	ug/l	5.00	0.00	97	70-130			
2,2',4,4'-Tetrachlorobiphenyl	4.77	0.50	N/A	ug/l	5.00	0.00	95	70-130			
Thiobencarb	5.17	1.0	N/A	ug/l	5.00	0.00	103	70-130			
Triadimefon	5.26	0.50	N/A	ug/l	5.00	0.00	105	70-130			
2,4,5-Trichlorobiphenyl	4.86	0.50	N/A	ug/l	5.00	0.00	97	70-130			
Trifluralin	4.94	0.50	N/A	ug/l	5.00	0.00	99	70-130			
Vernolate	4.63	0.50	N/A	ug/l	5.00	0.00	93	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.72*			*ug/l*	*5.00*		*94*	*70-130*			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.72*			*ug/l*	*5.00*		*94*	*70-130*			
Surrogate: Triphenylphosphate	*5.34*			*ug/l*	*5.00*		*107*	*70-130*			
Surrogate: Triphenylphosphate	*5.34*			*ug/l*	*5.00*		*107*	*70-130*			
Surrogate: Perylene-d12	*4.86*			*ug/l*	*5.00*		*97*	*70-130*			
Surrogate: Perylene-d12	*4.86*			*ug/l*	*5.00*		*97*	*70-130*			

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
Matrix Spike Dup Analyzed: 02/11/2010 (10B0852-MSD1)						**Source: ITB0598-01**					
Acenaphthylene	4.31	5.0	N/A	ug/l	5.00	0.00	86	70-130	2	30	*Ja*
Alachlor	5.14	1.0	N/A	ug/l	5.00	0.00	103	70-130	4	30	
Aldrin	3.95	0.075	N/A	ug/l	5.00	0.00	79	70-130	2	30	
Ametryn	5.32	1.0	N/A	ug/l	5.00	0.00	106	70-130	0	30	
Atrazine	4.84	0.50	N/A	ug/l	5.00	0.00	97	70-130	2	30	
Benz(a)anthracene	4.61	10	N/A	ug/l	5.00	0.00	92	70-130	2	30	*Ja*
Benzo(a)pyrene	5.41	0.10	N/A	ug/l	5.00	0.00	108	70-130	8	30	
Benzo(b)fluoranthene	5.34	10	N/A	ug/l	5.00	0.00	107	70-130	4	30	*Ja*
Benzo(g,h,i)perylene	5.57	10	N/A	ug/l	5.00	0.00	111	70-130	13	30	*Ja*
Benzo(k)fluoranthene	4.49	10	N/A	ug/l	5.00	0.00	90	70-130	4	30	*Ja*
Butachlor	5.46	0.38	N/A	ug/l	5.00	0.00	109	70-130	0.6	30	
Butylate	5.02	1.0	N/A	ug/l	5.00	0.00	100	70-130	6	30	
Butyl benzyl phthalate	11.2	10	N/A	ug/l	10.0	0.00	112	70-130	3	30	
Di-n-butyl phthalate	9.76	5.0	N/A	ug/l	10.0	0.00	98	70-130	1	30	
2-Chlorobiphenyl	4.51	0.50	N/A	ug/l	5.00	0.00	90	70-130	2	30	
Chloroneb	5.21	0.50	N/A	ug/l	5.00	0.00	104	70-130	2	30	
Chloropropham	5.78	5.0	N/A	ug/l	5.00	0.00	116	70-130	3	30	
Chlorpyrifos	4.80	1.0	N/A	ug/l	5.00	0.00	96	70-130	6	30	
Chrysene	5.01	5.0	N/A	ug/l	5.00	0.00	100	70-130	0	30	
Cycloate	5.22	0.30	N/A	ug/l	5.00	0.00	104	70-130	0	30	
Diazinon	2.88	0.25	N/A	ug/l	5.00	0.00	58	70-130	9	30	*M2*
Dibenz(a,h)anthracene	5.54	5.0	N/A	ug/l	5.00	0.00	111	70-130	12	30	
2,3-Dichlorobiphenyl	4.83	0.50	N/A	ug/l	5.00	0.00	97	70-130	0	30	
Di(2-ethylhexyl)adipate	10.5	5.0	N/A	ug/l	10.0	0.00	105	70-130	0.7	30	
Di(2-ethylhexyl)phthalate	11.0	3.0	N/A	ug/l	10.0	0.720	102	70-130	4	30	
Diethyl phthalate	10.3	5.0	N/A	ug/l	10.0	0.00	103	70-130	1	30	
Dimethyl phthalate	9.63	5.0	N/A	ug/l	10.0	0.00	96	70-130	0.8	30	
Diphenamid	5.24	100	N/A	ug/l	5.00	0.00	105	70-130	3	30	*Ja*
Fluorene	5.11	5.0	N/A	ug/l	5.00	0.00	102	70-130	0.4	30	
2,2',3,3',4,4',6-Heptachlorobiphenyl	4.77	1.0	N/A	ug/l	5.00	0.00	95	70-130	0.6	30	
Hexachlorobenzene	4.81	0.50	N/A	ug/l	5.00	0.00	96	70-130	2	30	
2,2',4,4',5,6'-Hexachlorobiphenyl	4.68	1.0	N/A	ug/l	5.00	0.00	94	70-130	4	30	
Hexachlorocyclopentadiene	11.2	1.0	N/A	ug/l	10.0	0.00	112	70-130	1	30	
Indeno(1,2,3-cd)pyrene	5.48	10	N/A	ug/l	5.00	0.00	110	70-130	16	30	*Ja*
gamma-BHC (Lindane)	5.09	0.20	N/A	ug/l	5.00	0.00	102	70-130	1	30	

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Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0852 Extracted: 02/08/10											
Matrix Spike Dup Analyzed: 02/11/2010 (10B0852-MSD1)						**Source: ITB0598-01**					
Methoxychlor	4.51	10	N/A	ug/l	5.00	0.00	90	70-130	10	30	*Ja*
Metolachlor	5.30	0.50	N/A	ug/l	5.00	0.00	106	70-130	3	30	
Metribuzin	3.68	1.0	N/A	ug/l	5.00	0.00	74	70-130	1	30	
Molinate	5.12	2.0	N/A	ug/l	5.00	0.00	102	70-130	0.6	30	
Napropamide	5.41	1.0	N/A	ug/l	5.00	0.00	108	70-130	6	30	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	4.77	1.0	N/A	ug/l	5.00	0.00	95	70-130	0.8	30	
Pebulate	4.66	0.50	N/A	ug/l	5.00	0.00	93	70-130	1	30	
2,2',3',4,6-Pentachlorobiphenyl	4.81	1.0	N/A	ug/l	5.00	0.00	96	70-130	0.2	30	
Permethrins (mixed isomers, total)	11.5	2.0	N/A	ug/l	9.90	0.00	117	70-130	3	30	
Phenanthrene	4.86	5.0	N/A	ug/l	5.00	0.00	97	70-130	0	30	*Ja*
Prometryn	5.16	2.0	N/A	ug/l	5.00	0.00	103	70-130	2	30	
Propachlor	5.48	0.50	N/A	ug/l	5.00	0.00	110	70-130	2	30	
Propazine	4.91	0.50	N/A	ug/l	5.00	0.00	98	70-130	5	30	
Pyrene	5.08	5.0	N/A	ug/l	5.00	0.00	102	70-130	2	30	
Simazine	4.35	1.0	N/A	ug/l	5.00	0.00	87	70-130	12	30	
Simetryn	5.47	1.0	N/A	ug/l	5.00	0.00	109	70-130	3	30	
Terbutryn (e)	5.45	1.0	N/A	ug/l	5.00	0.00	109	70-130	0.7	30	
2,2',4,4'-Tetrachlorobiphenyl	4.70	0.50	N/A	ug/l	5.00	0.00	94	70-130	0.4	30	
Thiobencarb	5.39	1.0	N/A	ug/l	5.00	0.00	108	70-130	0.7	30	
Triadimefon	5.55	0.50	N/A	ug/l	5.00	0.00	111	70-130	2	30	
2,4,5-Trichlorobiphenyl	4.90	0.50	N/A	ug/l	5.00	0.00	98	70-130	0.6	30	
Trifluralin	5.38	0.50	N/A	ug/l	5.00	0.00	108	70-130	1	30	
Vernolate	4.65	0.50	N/A	ug/l	5.00	0.00	93	70-130	3	30	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.73*			*ug/l*	*5.00*		*95*	*70-130*			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.73*			*ug/l*	*5.00*		*95*	*70-130*			
Surrogate: Triphenylphosphate	*5.00*			*ug/l*	*5.00*		*100*	*70-130*			
Surrogate: Triphenylphosphate	*5.00*			*ug/l*	*5.00*		*100*	*70-130*			
Surrogate: Perylene-d12	*5.14*			*ug/l*	*5.00*		*103*	*70-130*			
Surrogate: Perylene-d12	*5.14*			*ug/l*	*5.00*		*103*	*70-130*			

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Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 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: 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			
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			

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ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
LCS Analyzed: 02/12/2010 (10B1291-BS1)											
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: 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*			
Surrogate: Tetrachloro-m-xylene	*0.220*			*ug/l*	*0.472*		*47*	*35-115*			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
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: Tetrachloro-m-xylene	*0.264*			*ug/l*	*0.472*		*56*	*35-115*			

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Annual Outfall 003
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METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 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: 10B1991 Extracted: 02/17/10											
Blank Analyzed: 02/17/2010 (10B1991-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 02/17/2010 (10B1991-BS1)											
Hexane Extractable Material (Oil & Grease)	20.5	5.0	1.4	mg/l	20.0		102	78-114			
LCS Dup Analyzed: 02/17/2010 (10B1991-BSD1)											
Hexane Extractable Material (Oil & Grease)	20.2	5.0	1.4	mg/l	20.0		101	78-114	1	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							
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			
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			
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			
Thallium	82.9	1.0	0.20	ug/l	80.0	ND	104	70-130			
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	
Thallium	80.5	1.0	0.20	ug/l	80.0	ND	101	70-130	1	20	

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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: 10B1911 Extracted: 02/16/10											
Blank Analyzed: 02/16/2010 (10B1911-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	0.0243	0.050	0.020	mg/l							*Ja*
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Nickel	ND	10	2.0	ug/l							
Selenium	ND	10	8.0	ug/l							
Silver	ND	10	6.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							
LCS Analyzed: 02/16/2010 (10B1911-BS1)											
Aluminum	0.502	0.050	0.040	mg/l	0.500		100	85-115			
Arsenic	472	10	7.0	ug/l	500		94	85-115			
Beryllium	483	2.0	0.90	ug/l	500		97	85-115			
Boron	0.498	0.050	0.020	mg/l	0.500		100	85-115			
Calcium	2.44	0.10	0.050	mg/l	2.50		97	85-115			
Chromium	456	5.0	2.0	ug/l	500		91	85-115			
Iron	0.481	0.040	0.015	mg/l	0.500		96	85-115			
Magnesium	2.36	0.020	0.012	mg/l	2.50		94	85-115			
Nickel	464	10	2.0	ug/l	500		93	85-115			
Selenium	452	10	8.0	ug/l	500		90	85-115			
Silver	242	10	6.0	ug/l	250		97	85-115			
Vanadium	467	10	3.0	ug/l	500		93	85-115			
Zinc	460	20	6.0	ug/l	500		92	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1911 Extracted: 02/16/10											
Matrix Spike Analyzed: 02/16/2010 (10B1911-MS1)						**Source: ITB1030-02**					
Aluminum	1.49	0.050	0.040	mg/l	0.500	0.882	122	70-130			
Arsenic	516	10	7.0	ug/l	500	13.4	101	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Boron	2.08	0.050	0.020	mg/l	0.500	1.56	105	70-130			
Calcium	29.1	0.10	0.050	mg/l	2.50	26.3	112	70-130			*MHA*
Chromium	461	5.0	2.0	ug/l	500	ND	92	70-130			
Iron	1.73	0.040	0.015	mg/l	0.500	1.11	125	70-130			
Magnesium	24.0	0.020	0.012	mg/l	2.50	21.2	112	70-130			*MHA*
Nickel	468	10	2.0	ug/l	500	7.99	92	70-130			
Selenium	461	10	8.0	ug/l	500	ND	92	70-130			
Silver	244	10	6.0	ug/l	250	7.93	94	70-130			
Vanadium	524	10	3.0	ug/l	500	44.0	96	70-130			
Zinc	482	20	6.0	ug/l	500	15.1	93	70-130			
Matrix Spike Dup Analyzed: 02/16/2010 (10B1911-MSD1)						**Source: ITB1030-02**					
Aluminum	1.50	0.050	0.040	mg/l	0.500	0.882	123	70-130	0.4	20	
Arsenic	507	10	7.0	ug/l	500	13.4	99	70-130	2	20	
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130	0.1	20	
Boron	2.05	0.050	0.020	mg/l	0.500	1.56	99	70-130	1	20	
Calcium	28.8	0.10	0.050	mg/l	2.50	26.3	101	70-130	1	20	*MHA*
Chromium	451	5.0	2.0	ug/l	500	ND	90	70-130	2	20	
Iron	1.67	0.040	0.015	mg/l	0.500	1.11	113	70-130	4	20	
Magnesium	23.6	0.020	0.012	mg/l	2.50	21.2	96	70-130	2	20	*MHA*
Nickel	465	10	2.0	ug/l	500	7.99	91	70-130	0.7	20	
Selenium	446	10	8.0	ug/l	500	ND	89	70-130	3	20	
Silver	246	10	6.0	ug/l	250	7.93	95	70-130	0.8	20	
Vanadium	517	10	3.0	ug/l	500	44.0	95	70-130	1	20	
Zinc	473	20	6.0	ug/l	500	15.1	92	70-130	2	20	

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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: 10B1942 Extracted: 02/16/10											
Blank Analyzed: 02/16/2010 (10B1942-BLK1)											
Mercury	ND	0.20	0.10	ug/l							
LCS Analyzed: 02/16/2010 (10B1942-BS1)											
Mercury	7.96	0.20	0.10	ug/l	8.00		100	85-115			
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			
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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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 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							
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			
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			
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			
Lead	78.5	1.0	0.20	ug/l	80.0	ND	98	70-130			
Thallium	85.5	1.0	0.20	ug/l	80.0	ND	107	70-130			
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	
Thallium	80.8	10	2.0	ug/l	80.0	ND	101	70-130	3	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1846 Extracted: 02/15/10											
Blank Analyzed: 02/16/2010 (10B1846-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Arsenic	ND	10	7.0	ug/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*
Iron	0.0219	0.040	0.015	mg/l							*Ja*
Magnesium	0.0150	0.020	0.012	mg/l							*Ja*
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)											
Aluminum	0.510	0.050	0.040	mg/l	0.500		102	85-115			
Arsenic	521	10	7.0	ug/l	500		104	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			
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			
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			
Matrix Spike Analyzed: 02/16/2010 (10B1846-MS1)						**Source: ITB0895-01**					
Aluminum	0.519	0.050	0.040	mg/l	0.500	ND	104	70-130			
Arsenic	543	10	7.0	ug/l	500	ND	109	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*
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			
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			

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Project ID: Annual Outfall 003
Annual Outfall 003
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Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1846 Extracted: 02/15/10											
Matrix Spike Analyzed: 02/16/2010 (10B1846-MS2)						**Source: ITB0887-04**					
Aluminum	1.66	0.050	0.040	mg/l	0.500	0.761	179	70-130			*M1*
Arsenic	510	10	7.0	ug/l	500	ND	102	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*
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			
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**					
Aluminum	0.497	0.050	0.040	mg/l	0.500	ND	99	70-130	4	20	
Arsenic	534	10	7.0	ug/l	500	ND	107	70-130	2	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*
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	
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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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1953 Extracted: 02/16/10											
LCS Analyzed: 02/16/2010 (10B1953-BS1)											
Mercury	8.15	0.20	0.10	ug/l	8.00		102	85-115			
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			
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	
Batch: 10B2106 Extracted: 02/17/10											
Blank Analyzed: 02/17/2010 (10B2106-BLK1)											
Copper	ND	2.0	0.50	ug/l							
LCS Analyzed: 02/17/2010 (10B2106-BS1)											
Copper	77.6	2.0	0.50	ug/l	80.0		97	85-115			
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: 10B0756 Extracted: 02/06/10											
Blank Analyzed: 02/06/2010 (10B0756-BLK1)											
Chromium VI	ND	1.0	0.25	ug/l							
LCS Analyzed: 02/06/2010 (10B0756-BS1)											
Chromium VI	4.95	1.0	0.25	ug/l	5.00		99	90-110			
Matrix Spike Analyzed: 02/06/2010 (10B0756-MS1)						**Source: ITB0889-01**					
Chromium VI	4.80	1.0	0.25	ug/l	5.00	ND	96	90-110			
Matrix Spike Dup Analyzed: 02/06/2010 (10B0756-MSD1)						**Source: ITB0889-01**					
Chromium VI	4.91	1.0	0.25	ug/l	5.00	ND	98	90-110	2	10	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0814 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0814-BLK1)											
Fluoride	0.0335	0.10	0.020	mg/l							*Ja*
LCS Analyzed: 02/08/2010 (10B0814-BS1)											
Fluoride	1.04	0.10	0.020	mg/l	1.00		104	90-110			
Matrix Spike Analyzed: 02/08/2010 (10B0814-MS1)						**Source: ITB0610-01**					
Fluoride	1.48	0.10	0.020	mg/l	1.00	0.481	100	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0814-MSD1)						**Source: ITB0610-01**					
Fluoride	1.50	0.10	0.020	mg/l	1.00	0.481	101	80-120	1	20	
Batch: 10B0856 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0856-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/08/2010 (10B0856-BS1)											
Chloride	4.73	0.50	0.25	mg/l	5.00		95	90-110			*M-3*
Sulfate	9.84	0.50	0.20	mg/l	10.0		98	90-110			*M-3*
Matrix Spike Analyzed: 02/08/2010 (10B0856-MS1)						**Source: ITB0894-01**					
Chloride	11.2	0.50	0.25	mg/l	5.00	5.65	112	80-120			
Sulfate	23.8	0.50	0.20	mg/l	10.0	12.8	110	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0856-MSD1)						**Source: ITB0894-01**					
Chloride	11.2	0.50	0.25	mg/l	5.00	5.65	111	80-120	0.5	20	
Sulfate	23.6	0.50	0.20	mg/l	10.0	12.8	108	80-120	0.6	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 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)						**Source: ITB0359-02**					
Total Cyanide	187	5.0	2.2	ug/l	200	ND	94	70-115			
Matrix Spike Dup Analyzed: 02/10/2010 (10B1250-MSD1)						**Source: ITB0359-02**					
Total Cyanide	182	5.0	2.2	ug/l	200	ND	91	70-115	3	15	
Batch: 10B1487 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1487-BLK1)											
Total Dissolved Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/12/2010 (10B1487-BS1)											
Total Dissolved Solids	1010	10	1.0	mg/l	1000		101	90-110			
Duplicate Analyzed: 02/12/2010 (10B1487-DUP1)						**Source: ITB1082-01**					
Total Dissolved Solids	2140	10	1.0	mg/l		2150			0.7	10	
Batch: 10B1648 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1648-BLK1)											
Total Suspended Solids	ND	10	1.0	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1648 Extracted: 02/12/10											
LCS Analyzed: 02/12/2010 (10B1648-BS1)											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
Duplicate Analyzed: 02/12/2010 (10B1648-DUP1)						**Source: ITB1069-01**					
Total Suspended Solids	35.0	10	1.0	mg/l		36.0			3	10	
Batch: 10B1658 Extracted: 02/13/10											
Blank Analyzed: 02/13/2010 (10B1658-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 02/13/2010 (10B1658-BS1)											
Perchlorate	24.4	4.0	0.90	ug/l	25.0		98	85-115			
Matrix Spike Analyzed: 02/13/2010 (10B1658-MS1)						**Source: ITB1511-01**					
Perchlorate	24.6	4.0	0.90	ug/l	25.0	1.91	91	80-120			
Matrix Spike Dup Analyzed: 02/13/2010 (10B1658-MSD1)						**Source: ITB1511-01**					
Perchlorate	24.7	4.0	0.90	ug/l	25.0	1.91	91	80-120	0.2	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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EPA 900.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	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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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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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)						**Source:**					
Radium 228	0.08	1	0.39	pCi/L				-			*U*
LCS Analyzed: 03/05/2010 (F0C010000257C)						**Source:**					
Radium 228	6.23	1	0.39	pCi/L	6.4		97	60-142			
LCS Dup Analyzed: 03/05/2010 (F0C010000257L)						**Source:**					
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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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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THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Annual Outfall 003
Annual Outfall 003
Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

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											
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*			

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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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											
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	0.000004	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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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)						**Source:**					
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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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.
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).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
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-7	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
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.

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Report Number: ITB0890

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Received: 02/06/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water	N/A	N/A
EPA 1664A	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 525.2	Water		
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	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
SM2540C	Water	X	
SM4500CN-E	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

Aquatic Testing Laboratories-SUB *California Cert #1775*
4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrnic
Samples: ITB0894-01

Analysis Performed: Bioassay-Acute 96hr
Samples: ITB0890-01

TestAmerica Irvine

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Report Number: ITB0890

Sampled: 02/06/10-02/07/10
Received: 02/06/10

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITB0894-01

Method Performed: EPA 900.0 MOD
Samples: ITB0894-01

Method Performed: EPA 901.1 MOD
Samples: ITB0894-01

Method Performed: EPA 903.0 MOD
Samples: ITB0894-01

Method Performed: EPA 904 MOD
Samples: ITB0894-01RE1

Method Performed: EPA 905 MOD
Samples: ITB0894-01

Method Performed: EPA 906.0 MOD
Samples: ITB0894-01

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B
Samples: ITB0894-01, ITB0894-01RE1

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

Z7B0890

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Annual Outfall 003** **GRAB** Stormwater at RMHF
Project Manager: Bronwyn Kelly Sampler: EW/MC	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Oil & Grease (1664-HEM)	VOCs 624, Xylenes + PP	VOCs 624 +A+A+2CVE	Cr (VI) (218.6)	Acute Toxicity								Comments
Outfall 003	W	1L Amber	2	2/6/10-1150	HCl	1A, 1B	X												
Outfall 003	W	VOAs	3		HCl	2A, 2B, 2C		X											
Outfall 003	W	VOAs	3		None	3A, 3B, 3C			X										
Trip Blanks	W	VOAs	3		HCl	4A, 4B, 4C		X											
Trip Blanks	W	VOAs	3		None	5A, 5B, 5C			X										
Outfall 003	W	500 mL Poly	1		None	6				X									
Outfall 003	W	1 Gal Poly	1		None	7					X								

ANALYSIS REQUIRED

Field readings:
(Log In and include in report Temp and pH)

Temp °F = 52.3

pH = 7.5

Time of readings =

1150

Comments

MS
2/8/10
8:05

These Samples are the Grab Portion of Outfall 003 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By	Date/Time:	Received By	Date/Time:
			2-6-10 1430
Relinquished By	Date/Time:	Received By	Date/Time:
	2-6-10 1700		2/6/10 1700
Relinquished By	Date/Time:	Received By	Date/Time:

Turn-around time: (Check)

24 Hour: _____ 72 Hour: _____ 10 Day: _____

48 Hour: _____ 5 Day: _____ Normal: X

Sample Integrity: (Check)

Intact: ✓ On Ice: X 2.9 °

Data Requirements: (Check)

No Level IV: _____ All Level IV: _____ NPDES Level IV: X

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-10020802-001
Sample I.D.: ITB0894-01 (Outfall 003)

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

Date Sampled:	02/07/10
Date Received:	02/08/10
Temp. Received:	1.3°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	02/08/10 to 02/15/10

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

Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).

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

Result Summary:

	NOEC	TUc
Ceriodaphnia Survival:	100%	1.0
Ceriodaphnia Reproduction:	100%	1.0

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0

Aquatic Testing Laboratories

Lab No.: A-10020802-001
Client/ID: Test America – ITB0894-01 (Outfall 003)

Date Tested: 02/08/10 to 02/15/10

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%	26.9
100% Sample	100%	26.0
* 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 (26.9 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 = 13.6%)
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:	2/8/2010 15:00	Test ID:	10020802c	Sample ID:	ITB0894-01
End Date:	2/15/2010 14:30	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	EFF2-Industrial
Sample Date:	2/7/2010 10:28	Protocol:	FWCH EPA	Test Species:	CD-Ceriodaphnia dubia

Comments:

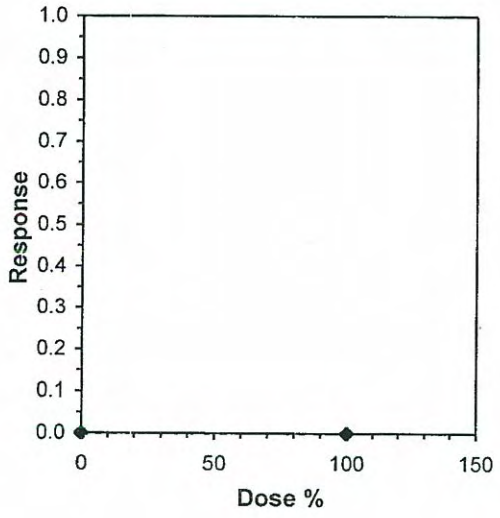
Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Isotonic Mean	Isotonic 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			



Reviewed by:

Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date:	2/8/2010 15:00	Test ID:	10020802c
End Date:	2/15/2010 14:30	Lab ID:	CAATL-Aquatic Testing Labs
Sample Date:	2/7/2010 10:28	Protocol:	FWCH EPA
Comments:			

Sample ID:	ITB0894-01									
Sample Type:	EFF2-Industrial									
Test Species:	CD-Ceriodaphnia dubia									

Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	28.000	28.000	21.000	27.000	23.000	32.000	29.000	33.000	28.000	20.000
100	27.000	28.000	26.000	23.000	26.000	22.000	39.000	23.000	25.000	21.000

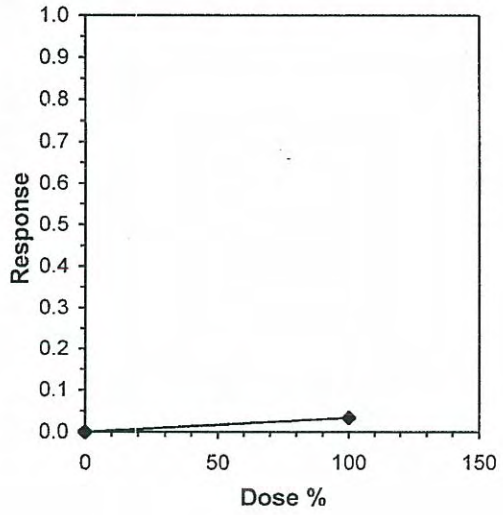
			Transform: Untransformed					1-Tailed			Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
D-Control	26.900	1.0000	26.900	20.000	33.000	16.104	10				26.900	1.0000
100	26.000	0.9665	26.000	21.000	39.000	19.612	10	0.425	1.734	3.669	26.000	0.9665

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.92321	0.905	1.04305	2.15056
F-Test indicates equal variances (p = 0.64)	1.38544	6.54109		

Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences Treatments vs D-Control	3.66895	0.13639	4.05	22.3833	0.67561	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

Aquatic Testing Laboratories

Lab No.: A-10020802-001
Client ID: TestAmerica - ITB0894-01 Outfall 003
Start Date: 02/08/2010

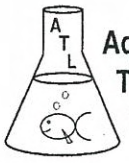
		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr
Analyst Initials:															
Time of Readings:		1540	1500	1500	1430	1430	1400	1400	1500	1500	1600	1600	1540	1540	1430
Control	DO	8.1	8.2	8.4	8.3	8.2	8.0	8.3	7.7	8.1	7.9	8.1	8.0	8.1	7.9
	pH	8.2	8.0	7.9	7.7	7.7	7.6	7.7	7.8	7.7	7.8	7.7	7.8	7.5	7.4
	Temp	24.7	24.1	24.2	24.8	24.3	24.3	25.7	24.7	25.4	24.9	25.9	25.4	24.9	24.2
100%	DO	10.3	8.4	8.8	7.9	10.7	7.8	10.2	7.4	10.3	7.6	9.9	7.7	10.1	7.7
	pH	7.6	8.0	8.0	7.7	7.5	7.8	7.5	7.9	7.5	7.8	7.4	7.8	7.3	7.9
	Temp	25.0	24.2	24.7	24.6	24.8	24.5	24.8	24.9	24.8	25.0	25.0	25.2	25.2	24.2

Additional Parameters	Control	100% Sample
Conductivity (umohms)	349	218
Alkalinity (mg/l $CaCO_3$)	67	86
Hardness (mg/l $CaCO_3$)	90	92
Ammonia (mg/l NH_3-N)	<0.1	<0.1

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

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	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	4	3	2	4	3	0	0	0	0	3	19	10	
	4	7	9	0	0	5	9	0	0	4	0	34	10	
	5	0	16	4	8	15	6	7	6	8	7	77	10	
	6	17	0	15	0	0	0	10	15	6	0	57	10	
	7	0	(15)	0	15	(16)	17	12	12	16	10	82	10	
	Total	28	28	21	27	23	32	29	33	28	20	269	10	
100%	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	0	2	2	2	0	2	0	0	0	0	8	10	
	4	2	9	6	6	3	5	5	3	2	3	44	10	
	5	7	17	0	15	7	0	0	7	8	7	68	10	
	6	0	0	18	0	0	15	19	0	0	0	52	10	
	7	18	(19)	(13)	(18)	16	0	15	13	15	11	88	10	
	Total	27	28	26	23	26	22	39	23	25	21	260	10	

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



Aquatic
Testing
Laboratories

CHAIN OF CUSTODY

SUBCONTRACT ORDER
TestAmerica Irvine

ITB0894

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: 1-3 °C Ice: (Y) / N

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

Analysis	Units	Expires	Comments
Sample ID: ITB0894-01 (Outfall 003 - Water)		Sampled: **02/07/10 10:28**	
Bioassay-~~Acute 96hr~~	~~% Survival~~	02/08/10 22:28	~~FH minnow, EPA/821-R02-012, Sub to~~ Aquatic testing
Containers Supplied:			Cerio Ch.
1 gal Poly (O)			

Released By	2/8/10 0730 Date/Time	Received By	2/8/10 0730 Date/Time
Released By	2/8/10 0730 Date/Time	Received By	2-8-10 1220 Date/Time

Aquatic
Testing
Laboratories

Ceriodaphnia dubia
Chronic Toxicity Test
Reference
Toxicant
Data

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl

Aquatic Testing Laboratories

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 NOEC 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:					

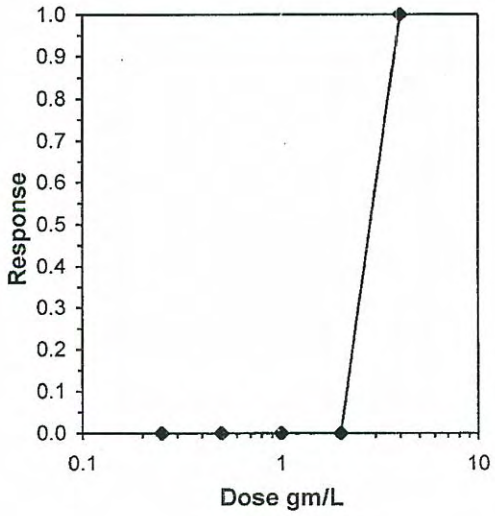
Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000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

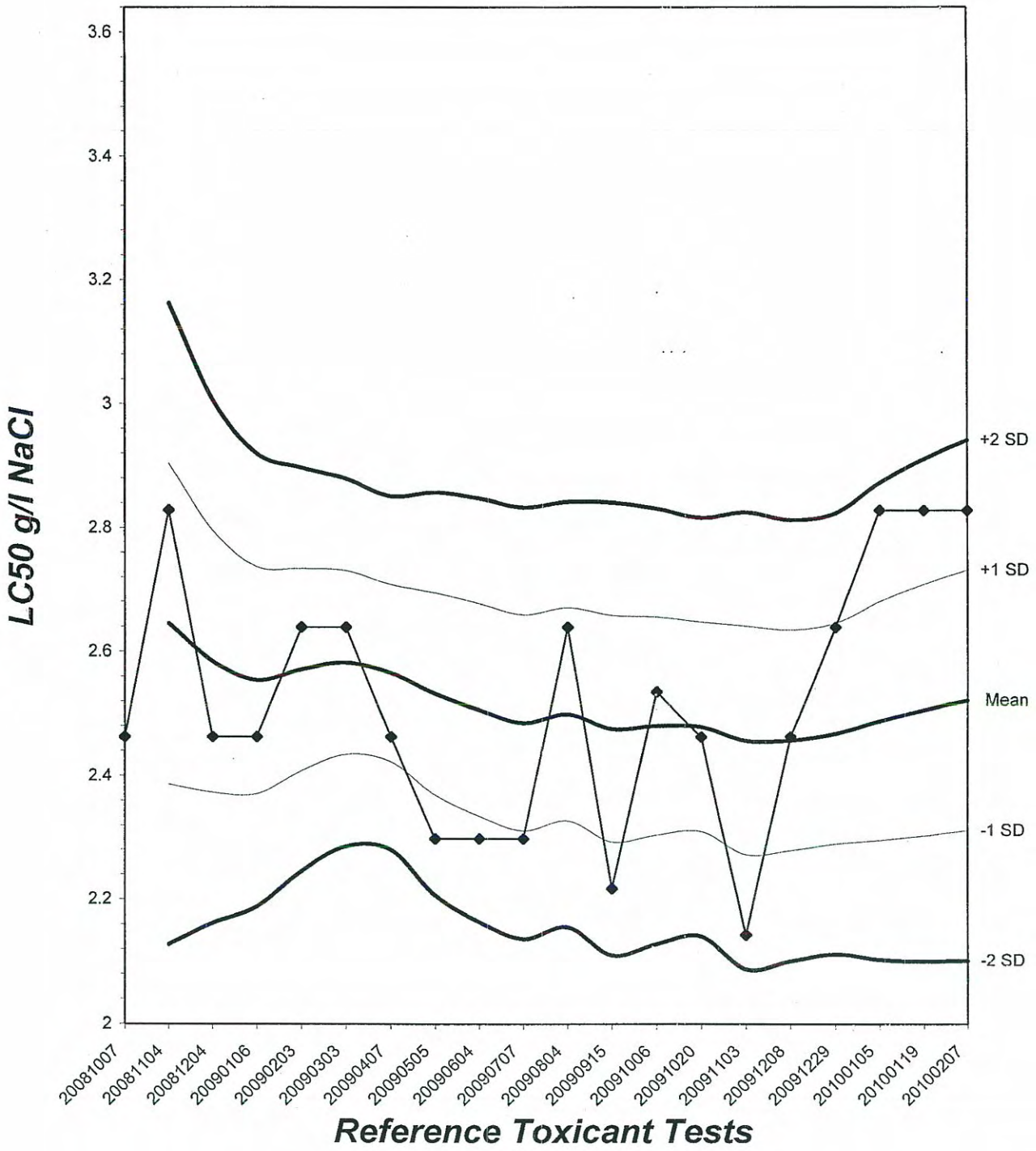
Graphical Method

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

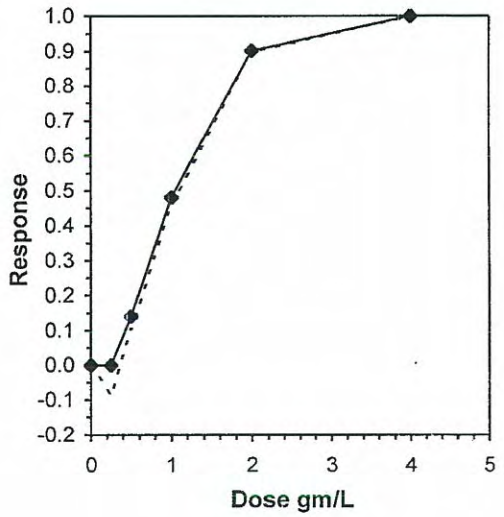
			Transform: Untransformed					Rank	1-Tailed	Isotonic	
Conc-gm/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
D-Control	28.500	1.0000	28.500	24.000	32.000	9.097	10			29.700	1.0000
0.25	30.900	1.0842	30.900	25.000	48.000	21.867	10	110.50	76.00	29.700	1.0000
0.5	25.500	0.8947	25.500	18.000	30.000	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				

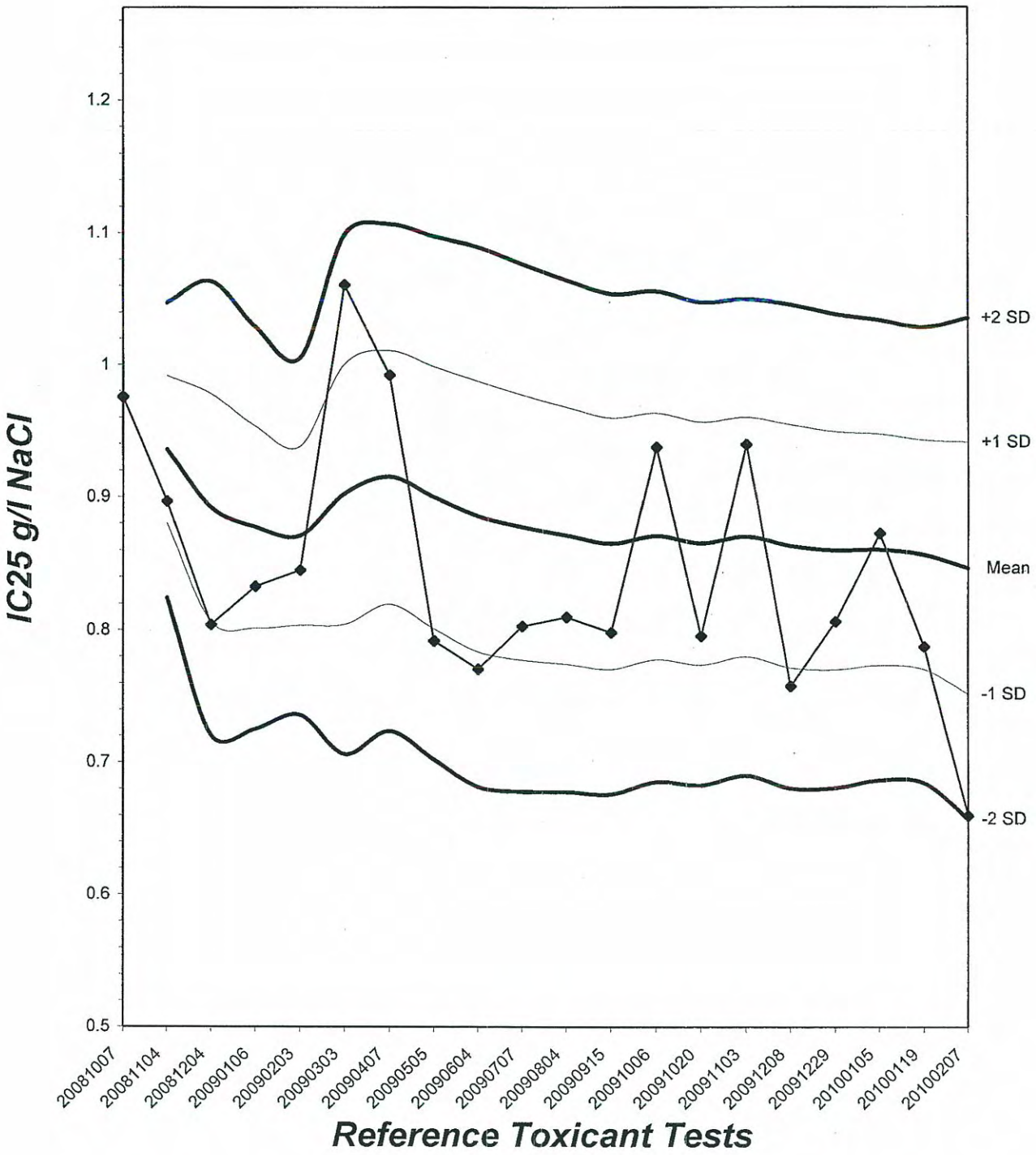
Linear Interpolation (200 Resamples)

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

Aquatic Testing Laboratories

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	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	5	0	4	4	3	4	4	4	3	4	35	10	
	4	0	5	0	0	0	9	10	7	9	9	49	10	
	5	8	8	12	11	10	0	16	14	14	11	104	10	
	6	0	0	0	0	0	17	(19)	(15)	(17)	(12)	17	10	
	7	17	16	14	17	16	(15)	0	0	0	0	80	10	
	Total	30	29	30	32	29	30	30	25	26	24	285	10	
0.25 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	0	4	4	4	5	3	4	0	4	3	31	10	
	4	0	0	0	0	9	8	11	10	9	0	47	10	
	5	11	8	8	10	13	0	13	11	12	8	94	10	
	6	18	17	19	17	(15)	16	(15)	0	(17)	16	103	10	
	7	19	0	(17)	(16)	0	(17)	0	15	0	(15)	34	10	
	Total	88	29	31	31	27	27	28	36	25	27	309	10	
0.5 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	2	0	3	0	3	3	0	0	4	3	18	10	
	4	0	4	4	2	5	0	6	4	6	5	36	10	
	5	7	5	0	0	0	7	8	6	8	0	41	10	
	6	18	17	19	12	17	0	16	0	0	0	99	10	
	7	0	0	0	14	(16)	15	0	15	(14)	17	61	10	
	Total	27	26	26	28	25	25	30	25	18	25	255	10	

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

Aquatic Testing Laboratories

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	
	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	6	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	7	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	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	0	0	0	0	0	0	0	0	0	0	0	10	
	4	0	0	0	0	0	0	0	0	0	0	0	10	
	5	0	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	X	X	X	X	X	X	X	X	X		0	0	
	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.

C\RIODAPHNIA DUBIA CHRONIC BIOASSAY
Reference Toxicant - NaCl
Water Chemistries Raw Data Sheet

Aquatic Testing Laboratories

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:															
Time of Readings:		1500	1430	1430	1500	1500	1400	1400	1400	1400	1500	1500	1600	1600	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	24.6
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	25.1	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 O_2; 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

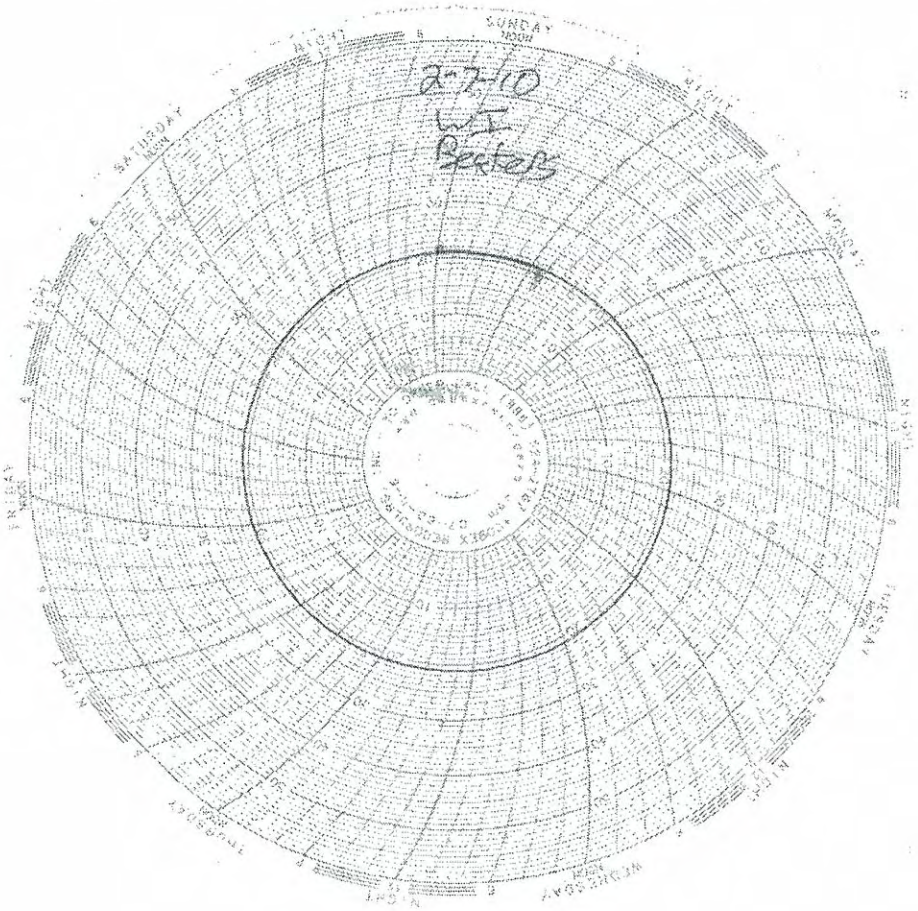
Aquatic Testing Laboratories

Test Temperature Chart

Test No: RT-100207

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

Acceptable Range: 25+/- 1°C



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 11, 2010

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

Laboratory No.: A-10020705-001
Sample ID.: ITB0890-01

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

Date Sampled:	02/06/10
Date Received:	02/07/10
Temp. Received:	5.4°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	02/07/10 to 02/11/10

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

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

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

Result Summary:

Sample ID.	Results
ITB0890-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-10020705-001
Client/ID: TestAmerica ITB0890-01 Outfall 003 **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	JL 1400
	100%	20.0	9.1	7.5	0	0	
24 Hr	Control	19.4	8.1	8.0	0	0	1200
	100%	19.2	8.6	8.1	0	0	
48 Hr	Control	19.3	8.1	7.5	0	0	1300
	100%	19.0	8.3	8.2	0	0	
Renewal	Control	19.8	9.0	8.0	0	0	1300
	100%	20.6	9.3	7.7	0	0	
72 Hr	Control	19.4	7.1	7.5	0	0	1500
	100%	19.0	7.5	7.8	0	0	
96 Hr	Control	19.1	8.2	7.7	0	0	1400
	100%	19.1	7.4	7.7	0	0	

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.5 ; Conductivity: 290 umho; Temp: 5.4°C;
DO: 9.1 mg/l; Alkalinity: 123 mg/l; Hardness: 109 mg/l; NH_3-N: <0.1 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
Control: Alkalinity: 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 O_2.

RESULTS

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

SUBCONTRACT ORDER
TestAmerica Irvine

ITB0890

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: 3-4 °C Ice: (Y) N

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

Analysis	Units	Expires	Comments
Sample ID: ITB0890-01 (Outfall 003 - Water)		Sampled: **02/06/10 11:50**	
Bioassay-Acute 96hr	% Survival	02/07/10 23:50	FH minnow, EPA/821-R02-012, Sub to Aquatic testing

Containers Supplied:
1 gal Poly (J)

Released By 2-7-10 Date/Time
Received By 2-7-10 505 Date/Time
Released By 2-7-10 1100 Date/Time
Received By 2-7-10 1102 Date/Time

Aquatic
Testing
Laboratories

REFERENCE TOXICANT DATA

FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS

Aquatic Testing Laboratories

QA/QC Batch No.: RT-100202

TEST SUMMARY

Species: *Pimephales promel*as.
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

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

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

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

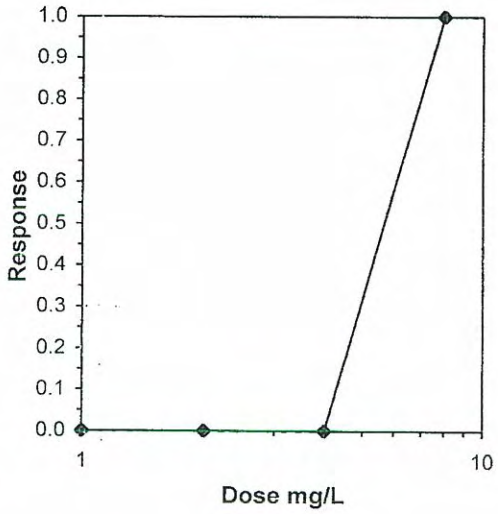
			Transform: Arcsin Square Root					Number	Total
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
4	1.0000	1.0000	1.4120	1.4120	1.4120	0.000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

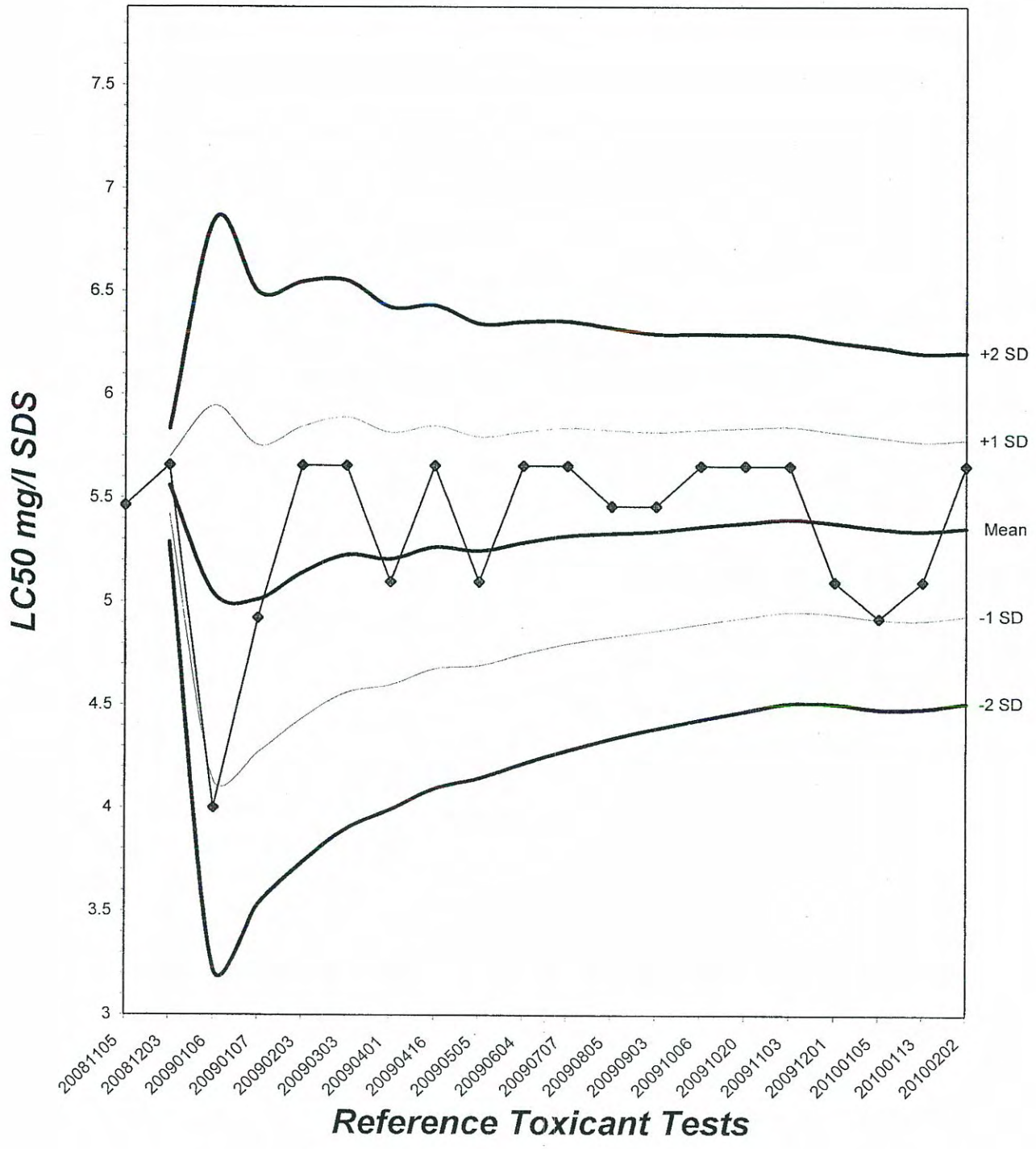
5.6569



Reviewed by:

Fathead Minnow Acute Laboratory Control Chart

CV% = 7.91



TEST ORGANISM LOG

Aquatic Testing Laboratories

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: 1/5/10

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:** <0.1 mg/l NH_3-N

DO: 8.4 mg/l **Alkalinity:** 69 mg/l **Hardness:** 94 mg/l

READINGS RECORDED BY: _____ **DATE:** 2-3-10

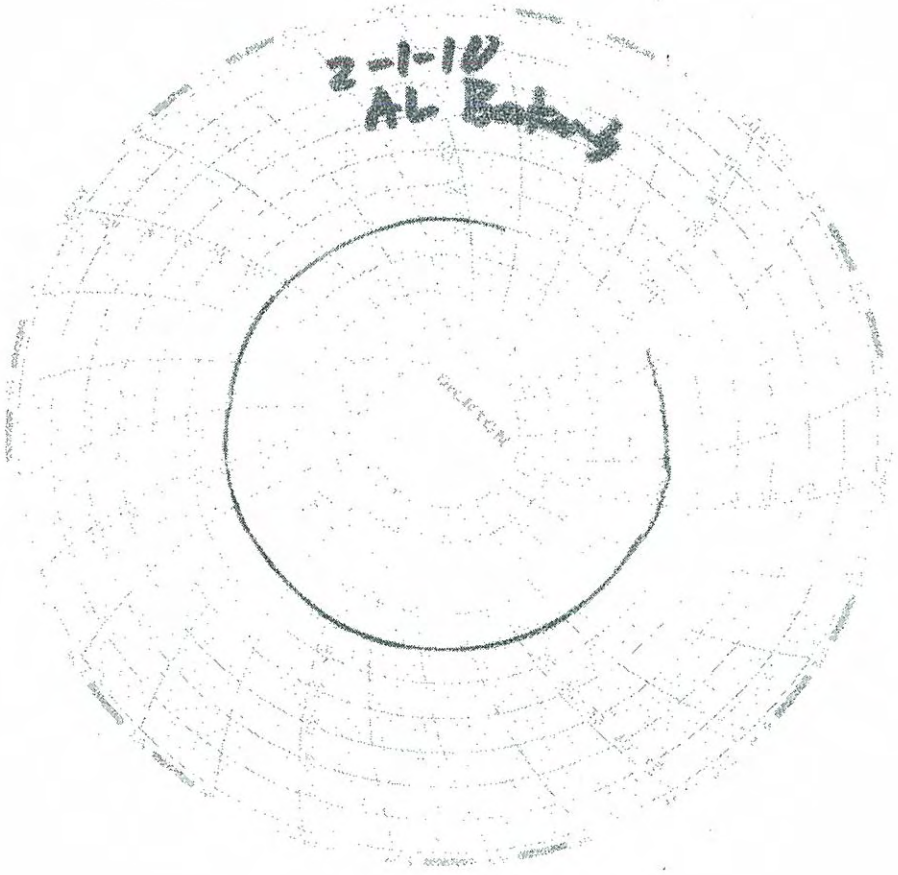
Aquatic Testing Laboratories

Test Temperature Chart

Test No: RT-100202

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

Acceptable Range: 20+/- 1°C



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. ITB0894

MWH-Pasadena Boeing

Lot #: F0B090484

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: F0B090484
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 except as noted below.

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.

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.

Strontium 90 Method: 905 MOD

The Strontium carrier recovery is outside the lower control limit (40%). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.
Affected Sample:
F0B090484 (1): ITB0894-01

W 12

TestAmerica Irvine

ITB0894

F0B090484

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: ITB0894-01 (Outfall 003 - Water)			Sampled: 02/07/10 10:28			
Gamma Spec-O	mg/kg	02/17/10	02/07/11 10:28	$200.00	50%	Out St Louis, k-40 and cs-137 only, DO NOT FILTER!
Gross Alpha-O	pCi/L	02/17/10	08/06/10 10:28	$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O	pCi/L	02/17/10	08/06/10 10:28	$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 + EDD-OUT	N/A	02/17/10	03/07/10 10:28	$0.00	0%	Excel EDD email to pm,Include Std logs for Lvl IV
Radium, Combined-O	pCi/L	02/17/10	02/07/11 10:28	$200.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	pCi/L	02/17/10	02/07/11 10:28	$140.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	pCi/L	02/17/10	02/07/11 10:28	$80.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Uranium, Combined-O	pCi/L	02/17/10	02/07/11 10:28	$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!

Containers Supplied:

2.5 gal Poly (K) 500 mL Amber (L)

Released By Date/Time: 2/8/10 17:00

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

TESTAMERICA
THE LEADER IN ENVIRONMENTAL TESTING

470, 482	489
473, 484	491
475, 485	494
476, 486	495

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CONDITION UPON RECEIPT FORM

Client: TA Irvine
Quote No: 77435, 95044
COC/RFA No: below

Initiated By: SV 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. 4289 2133 2309 MR	6.	1. ambient	6.
2.	7.	2.	7.
3.	8.	3.	8.
4.	9.	4.	9.
5.	10.	5.	10.

*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.	(Y) N	Are there custody seals present on the cooler?	8.	(Y) N	Are there custody seals present on bottles?
2.	Y (N) N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N (N/A)	Do custody seals on bottles appear to be tampered with?
3.	(Y) N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N (N/A)	Was sample received with proper pH[1]? (If not, make note below)
4.	(Y) N SV 2.9.10	Sample received with Chain of Custody?	11.	(Y) N	Sample received in proper containers?
5.	(Y) N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N (N/A)	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	Y (N)	Was sample received broken?	13.	(Y) N N/A	Was Internal COC/Workshare received?
7.	(Y) N	Is sample volume sufficient for analysis?	14.	(Y) N 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: ITB0887 ITB0773

95	36	
~~88~~ SV 2.9.10	97	Revised chains were
94	98	not relinquished for
88	99	Boeing project.
92	0800	
86	0590	ITB0800 label time is 1315;
85	0602	c-o-c reads 1254
96		

Corrective Action:
☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____
Project Management Review: Jaymak Pohl Date: 2-15-10

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, \\Sl...\QA\FORMS\ST. LOUIS\ADMIN\Admin004 ...11.doc

METHODS SUMMARY

F0B090484

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
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

F0B090484

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LVF59	001	ITB0894-01	02/07/10	10:28

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: ITB0894-01

Radiochemistry

Lab Sample ID: F0B090484-001
Work Order: LVF59
Matrix: WATER

Date Collected: 02/07/10 1028
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	-1.5	U	9.5	20.0	17	02/11/10	02/19/10
Potassium 40	-100	U	5300		200	02/11/10	02/19/10
Gross Alpha/Beta EPA 900				**pCi/L**		**Batch # 0043108**	**Yld %**
Gross Alpha	**3.7**		**1.4**	3.0	**1.4**	**02/10/10**	**02/18/10**
Gross Beta	**4.03**		**0.95**	4.00	**0.99**	**02/10/10**	**02/18/10**
SR-90 BY GFPC EPA-905 MOD				**pCi/L**		**Batch # 0041162**	**Yld % 30**
Strontium 90	0.41	U	0.53	3.00	0.87	02/10/10	02/19/10
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**		**Batch # 0049035**	**Yld %**
Tritium	**173**	**J**	**86**	500	**94**	**02/18/10**	**02/18/10**
Total Uranium by KPA ASTM 5174-91				**pCi/L**		**Batch # 0053280**	**Yld %**
Total Uranium	**1.09**		**0.11**	0.69	**0.21**	**02/23/10**	**02/26/10**
Radium 226 by EPA 903.0 MOD				**pCi/L**		**Batch # 0041160**	**Yld % 80**
Radium (226)	0.16	U	0.17	1.00	0.27	02/10/10	02/26/10
Radium 228 by GFPC EPA 904 MOD				**pCi/L**		**Batch # 0060257**	**Yld % 79**
Radium 228	0.08	U	0.21	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

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0B090484
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC		Prep Date	Analysis Date	Lab Sample ID
Radium 228 by GFPC EPA 904 MOD			**pCi/L**	**Batch #**	**0060257**	**Yld %**	**88**		**F0C010000-257B**
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**		**F0B100000-160B**
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**		**F0B100000-162B**
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 %**			**F0B110000-136B**
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 %**			**F0B120000-108B**
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 %**			**F0B180000-035B**
Tritium	165	J	85	500	95		02/18/10	02/18/10	
Total Uranium by KPA ASTM 5174-91			**pCi/L**	**Batch #**	**0053280**	**Yld %**			**F0B220000-280B**
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

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0B090484
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		

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F0B090484
Matrix: WATER

Parameter		Spike Amount	Result	Total Uncert. (2 σ+/-)	% Yld	% Rec	QC Control Limits	Lab Sample ID 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	

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: F0B090473
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. (2 σ +/-)	QC Sample ID %YLD	QC Sample ID %REC	QC Control Limits
TRITIUM (Distill) by EPA 906.0 MOD			**pCi/L**		**906.0 MOD**			**F0B090473-001**	
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**			**F0B090470-001**	
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**			**F0B090470-001**	
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: F0B090470 Date Sampled: 02/07/10 1143
Matrix: WATER Date Received: 02/09/10 1100

Parameter		Spike Amount	SPIKE Result	Total Uncert. (2 σ+/-)	Spike Yld	SAMPLE Result		Total Uncert. (2σ +/-)	QC Sample ID % Yld	%Rec	QC Control Limits
Total Uranium by KPA ASTM 5				**pCi/L**		**5174-91**				**F0B090470-001**	
Total Uranium		27.7	29.7	3.1		0.566	J	0.068		105	(62 - 150)
	Spx2	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

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F0B090484
Matrix: WATER

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

Parameter	SAMPLE Result		Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result		Total Uncert. (2 σ+/-)	% Yld	QC Sample ID Precision	
Radium 226 by EPA 903.0 MOD				**pCi/L**	**903.0 MOD**				**F0B090467-001**	
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				**pCi/L**	**901.1 MOD**				**F0B090470-001**	
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				**pCi/L**	**900.0 MOD**				**F0B090470-001**	
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				**pCi/L**	**906.0 MOD**				**F0B090470-001**	
Tritium	114	J	75		80	U	66		35	%RPD
	Batch #:		0049035 (Sample)		0049035 (Duplicate)					
SR-90 BY GFPC EPA-905 MOD				**pCi/L**	**905 MOD**				**F0B090475-001**	
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.

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APPENDIX G

Section 20

Outfall 003 – BMP Effectiveness February 7, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: BMP Effectiveness
Monitoring Program

Sampled: 02/07/10
Received: 02/10/10
Issued: 02/19/10 17:25

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

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:	No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
ITB1348-01	003 EFF-1	Water

Reviewed By:

Debby Wilson

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITB1348

Sampled: 02/07/10
Received: 02/10/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB1348-01 (003 EFF-1 - Water)									
Reporting Units: g/cc									
Density	Displacement	10B2266	N/A	NA	**1.0**	1	02/18/10	02/18/10	
Sample ID: ITB1348-01 (003 EFF-1 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	10B2268	10	10	**25**	1	02/07/10	02/07/10	

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITB1348

Sampled: 02/07/10
Received: 02/10/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2266 Extracted: 02/18/10											
Duplicate Analyzed: 02/18/2010 (10B2266-DUP1)						**Source: ITB1559-01**					
Density	1.00	NA	N/A	g/cc		1.00			0.06	20	

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITB1348

Sampled: 02/07/10
Received: 02/10/10

DATA QUALIFIERS AND DEFINITIONS

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

RPD Relative Percent Difference

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITB1348

Sampled: 02/07/10
Received: 02/10/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

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

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

ITB348

Client Name/Address:	Project: **Boeing BMP Effectiveness Monitoring Program**
MWH-Pasadena 618 Michillinda Ave, Suite 200 Pasadena, CA 91007 Test America Contact: Joe Doak	
Project Manager: Bronwyn Kelly Sampler: S Dawson	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle * #	ANALYSIS REQUIRED: Suspended Sediment Concentration (SSC, ASTM-D3977-1997)								Comments
003 EFF-1	W	~~Poly-1L~~ SD Poly-500mL	1	2/7/10 1140	None	1	X								

MS
2/12/10
07:05

Relinquished By	Date/Time:	Received By	Date/Time:
	2-10-10 14:55		2-10-10 14:55
Relinquished By	Date/Time:	Received By	Date/Time:
	2-10-10 19:40		2/10/10 19:46
Relinquished By	Date/Time:	Received By	Date/Time:

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal ___X___
Perchlorate Only 72 Hours_____
Metals Only 72 Hours_____
Sample Integrity: (Check)
Intact ___✓___ On Ice: ___X___

3.1 112/02

APPENDIX G

Section 21

Outfall 006 – January 18 & 19, 2010

MEC^X Data Validation Report

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITA1481

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:	ITA1481
Project Manager:	B. Kelly
Matrix:	Water
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 006 (Comp)	ITA1481-02	F0A220438-001, G0A210567-001	WATER	1/19/2010 8:46:00 AM	ASTM 5174-91, 245.1, 245.1-Diss, 1613B, 900.0 MOD, 901.1 MOD, 903.0 MOD, 904 MOD, 905 MOD, 906.0 MOD

II. Sample Management

No anomalies were observed regarding sample management. The sample receipt temperature was noted by TestAmerica-St Louis as “ambient”; 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. No custody seals were present on the sample coolers sent to TestAmerica-St. Louis. Custody seals were present upon receipt at TestAmerica-West Sacramento. 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: February 26, 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 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 ≤20% for the 16 native compounds (calibration by isotope dilution) and ≤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 more than half of all compounds, including all of the HxCDD isomers and total HxCDD, 1,2,3,6,7,8-HpCDD and total HpCDD, OCDD, total HxCDF and all of the HxCDF isomers except 1,2,3,4,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF and total HpCDF, and OCDF. Any sample detects for individual target compound isomers present at concentrations less than five times the

method blank concentrations were qualified as nondetected, "U," at the RL. 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. Results for totals that included peaks meeting ratio criteria that were not present in the method blank were qualified as estimated, "J," as only a portion of the total was considered method blank contamination. The concentrations of 1,2,3,4,6,7,8-HpCDD and 1,2,3,4,6,7,8-HpCDF in the method blank were insufficient to qualify the sample results or associated totals.

- 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 detects. The laboratory calculated and reported compound-specific detection limits. The result for 1,2,3,4,7,8-HxCDF was reported as an EMPC. As ratio criteria were not met, the result was qualified as an estimated nondetect, "UJ," at the reported concentration level. Any reported totals that included EMPCs were qualified as estimated, "J." Any detects 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 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 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 for mercury, was met.
- Tuning: Not applicable to this analysis.
- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were $\geq$0.995 and the initial and continuing calibration recoveries were within 85-115%. The 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: MS/MSD analyses were performed on the sample in this SDG. Recoveries and the RPD were within the method-established control limits.
- Serial Dilution: No serial dilution analyses were performed.
- 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 1, 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* (10/04).

- Holding Times: The tritium sample was analyzed within 180 days of collection. The aliquot for total uranium was prepared one day beyond 3× the five-day holding time for unpreserved samples; therefore, the nondetected total uranium result 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. Aliquots for radium-226, radium-228, strontium-90, 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 detector efficiency was less than 20%; therefore, nondetected gross alpha in the sample was qualified as estimated, "UJ." 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 250 pci/L but was not detected in the sample in this SDG. There were no other analytes detected in the method blank.

- Blank Spikes and Laboratory Control Samples: The recoveries 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.

- 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: ITA1481

Analysis Method ASTM 5174-91

Sample Name Outfall 006 (Comp) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Uranium	7440-61-1	0.12	0.693	0.21	pCi/L	U	R	H

Analysis Method EPA 245.1

Sample Name Outfall 006 (Comp) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.20	0.10	ug/l		U	

Analysis Method EPA 245.1-Diss

Sample Name Outfall 006 (Comp) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury, dissolved	7439-97-6	ND	0.20	0.10	ug/l	C	U	

Analysis Method EPA 900.0 MOD

Sample Name Outfall 006 (Comp) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Gross Alpha	12587-46-1	2.5	3	1.2	pCi/L	Jb	J	H, C, DNQ
Gross Beta	12587-47-2	2.97	4	1.1	pCi/L	Jb	J	H, DNQ

Analysis Method EPA 901.1 MOD

Sample Name Outfall 006 (Comp) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	-2.3	20	18	pCi/L	U	U	
Potassium 40	13966-00-2	-80	0	300	pCi/L	U	U	

Analysis Method EPA 903.0 MOD

Sample Name Outfall 006 (Comp) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	-0.13	1	0.38	pCi/L	U	U	

Analysis Method EPA 904 MOD

Sample Name Outfall 006 (Comp) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	0.22	1	1.5	pCi/L	U	U	

Analysis Method EPA 905 MOD

Sample Name Outfall 006 (Comp) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium 90	10098-97-2	0.04	3	0.37	pCi/L	U	U	

Analysis Method EPA 906.0 MOD

Sample Name Outfall 006 (Comp) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	11	500	140	pCi/L	U	U	

Analysis Method EPA-5 1613B

Sample Name Outfall 006 (Comp) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1481-02 **Sample Date:** 1/19/2010 8:46:00 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	8.4e-005	0.000047	0.000014	ug/L	B		
1,2,3,4,6,7,8-HpCDF	67562-39-4	7.4e-005	0.000047	0.000008	ug/L	B		
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	0.000047	0.000013	ug/L		U	
1,2,3,4,7,8-HxCDD	39227-28-6	ND	0.000047	0.000008	ug/L		U	
1,2,3,4,7,8-HxCDF	70648-26-9	ND	5.5e-006	0.000007	ug/L	J, Q, B	UJ	*III
1,2,3,6,7,8-HxCDD	57653-85-7	ND	0.000047	0.000007	ug/L		U	
1,2,3,6,7,8-HxCDF	57117-44-9	ND	0.000047	0.000006	ug/L		U	
1,2,3,7,8,9-HxCDD	19408-74-3	ND	0.000047	0.000006	ug/L		U	
1,2,3,7,8,9-HxCDF	72918-21-9	ND	0.000047	0.000007	ug/L		U	
1,2,3,7,8-PeCDD	40321-76-4	ND	0.000047	0.000012	ug/L		U	
1,2,3,7,8-PeCDF	57117-41-6	ND	0.000047	0.000006	ug/L		U	
2,3,4,6,7,8-HxCDF	60851-34-5	ND	0.000047	0.000006	ug/L	J, B	U	B
2,3,4,7,8-PeCDF	57117-31-4	ND	0.000047	0.000006	ug/L		U	
2,3,7,8-TCDD	1746-01-6	ND	0.0000094	0.000004	ug/L		U	
2,3,7,8-TCDF	51207-31-9	ND	0.0000094	0.000002	ug/L		U	
OCDD	3268-87-9	0.00077	0.000094	0.000021	ug/L	B		
OCDF	39001-02-0	0.00029	0.000094	0.000027	ug/L	B		
Total HpCDD	37871-00-4	0.00014	0.000047	0.000014	ug/L	B		
Total HpCDF	38998-75-3	0.00018	0.000047	0.000008	ug/L	B		
Total HxCDD	34465-46-8	ND	0.000047	0.000006	ug/L		U	
Total HxCDF	55684-94-1	3e-005	3e-005	0.000006	ug/L	J, Q, B	J	B, *III, DNQ
Total PeCDD	36088-22-9	ND	0.000047	0.000012	ug/L		U	
Total PeCDF	30402-15-4	ND	0.000047	0.000004	ug/L		U	
Total TCDD	41903-57-5	ND	0.0000094	0.000004	ug/L		U	
Total TCDF	55722-27-5	ND	0.0000094	0.000002	ug/L		U	

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APPENDIX G

Section 22

Outfall 006 – January 18 & 19, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: Routine Outfall 006

Sampled: 01/18/10-01/19/10
Received: 01/19/10
Revised: 04/02/10 17:10

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

CASE NARRATIVE

SAMPLE RECEIPT:	Samples were received intact, at 4°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:	No significant observations were made.
SUBCONTRACTED:	Refer to the last page for specific subcontract laboratory information included in this report.
ADDITIONAL INFORMATION:	Final revised report to provide corrected units and .pdf file for Radchem.

LABORATORY ID	CLIENT ID	MATRIX
ITA1481-01	Outfall 006 (Grab)	Water
ITA1481-02	Outfall 006 (Comp)	Water

Reviewed By:

TestAmerica Irvine

Kathleen A. Robb For Joseph Doak
Project Manager

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-01 (Outfall 006 (Grab) - Water)						**Sampled: 01/18/10**			
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	10A2388	4.7	1.3	ND	1	1/26/2010	1/26/2010	

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Sampled: 01/18/10-01/19/10
Received: 01/19/10

METALS

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: ug/l									
Mercury	EPA 245.1	10A1830	0.20	0.10	ND	1	1/20/2010	1/20/2010	
Antimony	EPA 200.8	10A1800	2.0	0.30	ND	1	1/20/2010	1/25/2010	
Cadmium	EPA 200.8	10A1800	1.0	0.10	ND	1	1/20/2010	1/25/2010	
Copper	EPA 200.8	10A1800	2.0	0.50	**4.7**	1	1/20/2010	1/25/2010	
Lead	EPA 200.8	10A1800	1.0	0.20	**2.8**	1	1/20/2010	1/25/2010	
Thallium	EPA 200.8	10A1800	1.0	0.20	ND	1	1/20/2010	1/25/2010	

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Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

DISSOLVED METALS

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10A2023	0.20	0.10	ND	1	1/21/2010	1/21/2010	C
Antimony	EPA 200.8-Diss	10A1999	2.0	0.30	ND	1	1/21/2010	1/25/2010	
Cadmium	EPA 200.8-Diss	10A1999	1.0	0.10	ND	1	1/21/2010	1/25/2010	
Copper	EPA 200.8-Diss	10A1999	2.0	0.50	**1.7**	1	1/21/2010	1/25/2010	Ja
Lead	EPA 200.8-Diss	10A1999	1.0	0.20	ND	1	1/21/2010	1/25/2010	C
Thallium	EPA 200.8-Diss	10A1999	1.0	0.20	ND	1	1/21/2010	1/25/2010	C

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Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

INORGANICS

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: mg/l									
Chloride	EPA 300.0	10A1808	0.50	0.25	**4.6**	1	1/20/2010	1/20/2010	
Nitrate/Nitrite-N	EPA 300.0	10A1808	0.26	0.15	**3.4**	1	1/20/2010	1/20/2010	
Sulfate	EPA 300.0	10A1808	0.50	0.20	**5.3**	1	1/20/2010	1/20/2010	
Total Dissolved Solids	SM2540C	10A1916	10	1.0	**120**	1	1/21/2010	1/21/2010	

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

ASTM 5174-91

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: pCi/L									
Total Uranium	ASTM 5174-91	35029	0.693	0.21	**0.12**	1	2/4/2010	2/8/2010	U

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Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

EPA 900.0 MOD

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: pCi/L									
Gross Alpha	EPA 900.0 MOD	25415	3	1.2	**2.5**	1	1/25/2010	1/29/2010	Jb
Gross Beta	EPA 900.0 MOD	25415	4	1.1	**2.97**	1	1/25/2010	1/29/2010	Jb

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

EPA 901.1 MOD

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: pCi/L									
Cesium 137	EPA 901.1 MOD	23036	20	18	**-2.3**	1	1/23/2010	1/26/2010	U
Potassium 40	EPA 901.1 MOD	23036	NA	300	**-80**	1	1/23/2010	1/26/2010	U

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Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

EPA 903.0 MOD

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: pCi/L									
Radium (226)	EPA 903.0 MOD	22145	1	0.38	**-0.13**	1	1/22/2010	2/8/2010	U

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Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

EPA 904 MOD

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: pCi/L									
Radium 228	EPA 904 MOD	22148	1	1.5	**0.22**	1	1/22/2010	2/8/2010	U

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Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

EPA 905 MOD

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: pCi/L									
Strontium 90	EPA 905 MOD	22149	3	0.37	**0.04**	1	1/22/2010	2/1/2010	U

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

EPA 906.0 MOD

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)						**Sampled: 01/19/10**			
Reporting Units: pCi/L									
Tritium	EPA 906.0 MOD	28080	500	140	**11**	1	1/28/2010	1/29/2010	U

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

EPA-5 1613B

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1481-02 (Outfall 006 (Comp) - Water)					**Sampled: 01/19/10**				
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	26267	0.000047	0.000014	**8.4e-005**	0.94	1/26/2010	2/2/2010	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	26267	0.000047	0.0000082	**7.4e-005**	0.94	1/26/2010	2/2/2010	B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	26267	0.000047	0.000013	ND	0.94	1/26/2010	2/2/2010	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	26267	0.000047	0.0000087	ND	0.94	1/26/2010	2/2/2010	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	26267	0.000047	0.000007	**5.5e-006**	0.94	1/26/2010	2/2/2010	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	26267	0.000047	0.0000071	ND	0.94	1/26/2010	2/2/2010	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	26267	0.000047	0.0000062	ND	0.94	1/26/2010	2/2/2010	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	26267	0.000047	0.0000062	ND	0.94	1/26/2010	2/2/2010	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	26267	0.000047	0.000007	ND	0.94	1/26/2010	2/2/2010	
1,2,3,7,8-PeCDD	EPA-5 1613B	26267	0.000047	0.000012	ND	0.94	1/26/2010	2/2/2010	
1,2,3,7,8-PeCDF	EPA-5 1613B	26267	0.000047	0.000006	ND	0.94	1/26/2010	2/2/2010	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	26267	0.000047	0.0000061	**6e-006**	0.94	1/26/2010	2/2/2010	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	26267	0.000047	0.0000065	ND	0.94	1/26/2010	2/2/2010	
2,3,7,8-TCDD	EPA-5 1613B	26267	0.0000094	0.0000047	ND	0.94	1/26/2010	2/2/2010	
2,3,7,8-TCDF	EPA-5 1613B	26267	0.0000094	0.0000028	ND	0.94	1/26/2010	2/2/2010	
OCDD	EPA-5 1613B	26267	0.000094	0.000021	**0.00077**	0.94	1/26/2010	2/2/2010	B
OCDF	EPA-5 1613B	26267	0.000094	0.000027	**0.00029**	0.94	1/26/2010	2/2/2010	B
Total HpCDD	EPA-5 1613B	26267	0.000047	0.000014	**0.00014**	0.94	1/26/2010	2/2/2010	B
Total HpCDF	EPA-5 1613B	26267	0.000047	0.0000082	**0.00018**	0.94	1/26/2010	2/2/2010	B
Total HxCDD	EPA-5 1613B	26267	0.000047	0.0000062	ND	0.94	1/26/2010	2/2/2010	
Total HxCDF	EPA-5 1613B	26267	0.000047	0.0000061	**3e-005**	0.94	1/26/2010	2/2/2010	J, Q, B
Total PeCDD	EPA-5 1613B	26267	0.000047	0.000012	ND	0.94	1/26/2010	2/2/2010	
Total PeCDF	EPA-5 1613B	26267	0.000047	0.000004	ND	0.94	1/26/2010	2/2/2010	
Total TCDD	EPA-5 1613B	26267	0.0000094	0.0000047	ND	0.94	1/26/2010	2/2/2010	
Total TCDF	EPA-5 1613B	26267	0.0000094	0.0000028	ND	0.94	1/26/2010	2/2/2010	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)					*47 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)					*54 %*				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)					*47 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)					*43 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)					*46 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)					*56 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)					*51 %*				
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)					*49 %*				
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)					*41 %*				
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)					*41 %*				
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)					*52 %*				
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)					*44 %*				
Surrogate: 13C-2,3,7,8-TCDD (25-164%)					*49 %*				
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					*46 %*				
Surrogate: 13C-OCDD (17-157%)					*41 %*				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					*94 %*				

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 006 (Comp) (ITA1481-02) - Water					
EPA 300.0	2	01/19/2010 08:46	01/19/2010 19:00	01/20/2010 17:15	01/20/2010 18:42
Filtration	1	01/19/2010 08:46	01/19/2010 19:00	01/20/2010 16:50	01/20/2010 16:53

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METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A2388 Extracted: 01/26/10										
Blank Analyzed: 01/26/2010 (10A2388-BLK1)										
Hexane Extractable Material (Oil & Grease)	ND	5.0	mg/l							
LCS Analyzed: 01/26/2010 (10A2388-BS1)										
Hexane Extractable Material (Oil & Grease)	20.3	5.0	mg/l	20.0		102	78-114			
LCS Dup Analyzed: 01/26/2010 (10A2388-BSD1)										
Hexane Extractable Material (Oil & Grease)	20.7	5.0	mg/l	20.0		104	78-114	2	11	
Matrix Spike Analyzed: 01/26/2010 (10A2388-MS1)					**Source: ITA2111-01**					
Hexane Extractable Material (Oil & Grease)	23.5	4.8	mg/l	19.1	3.33	106	78-114			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A1800 Extracted: 01/20/10										
Blank Analyzed: 01/25/2010 (10A1800-BLK1)										
Antimony	ND	2.0	ug/l							
Cadmium	ND	1.0	ug/l							
Copper	ND	2.0	ug/l							
Lead	ND	1.0	ug/l							
Thallium	ND	1.0	ug/l							
LCS Analyzed: 01/25/2010 (10A1800-BS1)										
Antimony	73.9	2.0	ug/l	80.0		92	85-115			
Cadmium	74.1	1.0	ug/l	80.0		93	85-115			
Copper	73.8	2.0	ug/l	80.0		92	85-115			
Lead	74.3	1.0	ug/l	80.0		93	85-115			
Thallium	73.9	1.0	ug/l	80.0		92	85-115			
Matrix Spike Analyzed: 01/25/2010 (10A1800-MS1)					**Source: ITA1401-01**					
Antimony	81.2	2.0	ug/l	80.0	2.44	98	70-130			
Cadmium	77.9	1.0	ug/l	80.0	ND	97	70-130			
Copper	86.3	2.0	ug/l	80.0	6.94	99	70-130			
Lead	118	1.0	ug/l	80.0	39.4	98	70-130			
Thallium	78.6	1.0	ug/l	80.0	0.228	98	70-130			
Matrix Spike Analyzed: 01/25/2010 (10A1800-MS2)					**Source: ITA1478-01**					
Antimony	73.2	4.0	ug/l	80.0	0.938	90	70-130			
Cadmium	80.5	2.0	ug/l	80.0	0.628	100	70-130			
Copper	101	4.0	ug/l	80.0	19.2	102	70-130			
Lead	130	2.0	ug/l	80.0	47.6	103	70-130			
Thallium	81.9	2.0	ug/l	80.0	0.594	102	70-130			
Matrix Spike Dup Analyzed: 01/25/2010 (10A1800-MSD1)					**Source: ITA1401-01**					
Antimony	81.3	2.0	ug/l	80.0	2.44	99	70-130	0.2	20	
Cadmium	79.0	1.0	ug/l	80.0	ND	99	70-130	1	20	
Copper	87.7	2.0	ug/l	80.0	6.94	101	70-130	2	20	
Lead	120	1.0	ug/l	80.0	39.4	101	70-130	2	20	
Thallium	81.2	1.0	ug/l	80.0	0.228	101	70-130	3	20	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A1830 Extracted: 01/20/10										
Blank Analyzed: 01/20/2010 (10A1830-BLK1)										
Mercury	ND	0.20	ug/l							
LCS Analyzed: 01/20/2010 (10A1830-BS1)										
Mercury	8.22	0.20	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 01/20/2010 (10A1830-MS1)					**Source: ITA1359-01**					
Mercury	8.18	0.20	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 01/20/2010 (10A1830-MSD1)					**Source: ITA1359-01**					
Mercury	8.18	0.20	ug/l	8.00	ND	102	70-130	0.08	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A1999 Extracted: 01/21/10										
Blank Analyzed: 01/25/2010 (10A1999-BLK1)										
Antimony	ND	2.0	ug/l							
Cadmium	ND	1.0	ug/l							
Copper	ND	2.0	ug/l							
Lead	ND	1.0	ug/l							
Thallium	ND	1.0	ug/l							
LCS Analyzed: 01/25/2010 (10A1999-BS1)										
Antimony	80.9	2.0	ug/l	80.0		101	85-115			
Cadmium	79.9	1.0	ug/l	80.0		100	85-115			
Copper	84.4	2.0	ug/l	80.0		106	85-115			
Lead	88.1	1.0	ug/l	80.0		110	85-115			
Thallium	86.6	1.0	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 01/25/2010 (10A1999-MS1)					**Source: ITA1358-02**					
Antimony	79.8	2.0	ug/l	80.0	ND	100	70-130			
Cadmium	78.2	1.0	ug/l	80.0	0.217	98	70-130			
Copper	86.7	2.0	ug/l	80.0	4.63	103	70-130			
Lead	91.4	1.0	ug/l	80.0	5.21	108	70-130			
Thallium	85.9	1.0	ug/l	80.0	0.290	107	70-130			
Matrix Spike Dup Analyzed: 01/25/2010 (10A1999-MSD1)					**Source: ITA1358-02**					
Antimony	80.7	2.0	ug/l	80.0	ND	101	70-130	1	20	
Cadmium	79.1	1.0	ug/l	80.0	0.217	99	70-130	1	20	
Copper	85.7	2.0	ug/l	80.0	4.63	101	70-130	1	20	
Lead	91.0	1.0	ug/l	80.0	5.21	107	70-130	0.5	20	
Thallium	86.1	1.0	ug/l	80.0	0.290	107	70-130	0.3	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A2023 Extracted: 01/21/10										
Blank Analyzed: 01/21/2010 (10A2023-BLK1)										
Mercury	ND	0.20	ug/l							
LCS Analyzed: 01/21/2010 (10A2023-BS1)										
Mercury	8.84	0.20	ug/l	8.00		110	85-115			
Matrix Spike Analyzed: 01/21/2010 (10A2023-MS1)					**Source: ITA1481-02**					
Mercury	8.85	0.20	ug/l	8.00	ND	111	70-130			
Matrix Spike Dup Analyzed: 01/21/2010 (10A2023-MSD1)					**Source: ITA1481-02**					
Mercury	8.92	0.20	ug/l	8.00	ND	111	70-130	0.8	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A1808 Extracted: 01/20/10										
Blank Analyzed: 01/20/2010 (10A1808-BLK1)										
Chloride	ND	0.50	mg/l							
Nitrate/Nitrite-N	ND	0.26	mg/l							
Sulfate	ND	0.50	mg/l							
LCS Analyzed: 01/20/2010 (10A1808-BS1)										
Chloride	4.93	0.50	mg/l	5.00		99	90-110			
Sulfate	9.94	0.50	mg/l	10.0		99	90-110			
Matrix Spike Analyzed: 01/20/2010 (10A1808-MS1)					**Source: ITA1585-01**					
Chloride	95.2	5.0	mg/l	50.0	45.0	100	80-120			
Sulfate	179	5.0	mg/l	100	78.1	101	80-120			
Matrix Spike Analyzed: 01/20/2010 (10A1808-MS2)					**Source: ITA1659-01**					
Chloride	42.2	2.5	mg/l	5.00	38.4	77	80-120			*MHA*
Sulfate	70.0	2.5	mg/l	10.0	62.1	79	80-120			*MHA*
Matrix Spike Dup Analyzed: 01/20/2010 (10A1808-MSD1)					**Source: ITA1585-01**					
Chloride	96.7	5.0	mg/l	50.0	45.0	103	80-120	2	20	
Sulfate	181	5.0	mg/l	100	78.1	103	80-120	1	20	
Batch: 10A1916 Extracted: 01/21/10										
Blank Analyzed: 01/21/2010 (10A1916-BLK1)										
Total Dissolved Solids	ND	10	mg/l							
LCS Analyzed: 01/21/2010 (10A1916-BS1)										
Total Dissolved Solids	990	10	mg/l	1000		99	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A1916 Extracted: 01/21/10										
Duplicate Analyzed: 01/21/2010 (10A1916-DUP1)					**Source: ITA1658-01**					
Total Dissolved Solids	489	10	mg/l		494			1	10	

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METHOD BLANK/QC DATA

ASTM 5174-91

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 35029 Extracted: 02/04/10										
Matrix Spike Dup Analyzed: 02/08/2010 (F0A200486001D)					**Source: F0A200486001**					
Total Uranium	29.2	0.7	pCi/L	27.7	-0.0334	105	62-150	2	20	
Matrix Spike Analyzed: 02/08/2010 (F0A200486001S)					**Source: F0A200486001**					
Total Uranium	28.8	0.7	pCi/L	27.7	-0.0334	104	62-150			
Blank Analyzed: 02/08/2010 (F0B040000029B)					**Source:**					
Total Uranium	-0.0623	0.693	pCi/L				-			*U*
LCS Analyzed: 02/08/2010 (F0B040000029C)					**Source:**					
Total Uranium	29.2	0.7	pCi/L	27.7		105	90-120			

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METHOD BLANK/QC DATA

EPA 900.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 25415 Extracted: 01/25/10										
Matrix Spike Analyzed: 01/29/2010 (F0A200486001S)					**Source: F0A200486001**					
Gross Alpha	6.9	3	pCi/L	49.4	0.98	12	35-150			*a*
Gross Beta	10	4	pCi/L	68.1	0.83	14	54-150			*a*
Duplicate Analyzed: 01/29/2010 (F0A200486001X)					**Source: F0A200486001**					
Gross Alpha	0.71	3	pCi/L		0.98		-			*Jb*
Gross Beta	1.6	4	pCi/L		0.83		-			*Jb*
Blank Analyzed: 01/29/2010 (F0A250000415B)					**Source:**					
Gross Alpha	-0.03	3	pCi/L				-			*U*
Gross Beta	-0.26	4	pCi/L				-			*U*
LCS Analyzed: 01/29/2010 (F0A250000415C)					**Source:**					
Gross Alpha	45.4	3	pCi/L	49.4		92	62-134			
Gross Beta	73.4	4	pCi/L	68.1		108	58-133			

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METHOD BLANK/QC DATA

EPA 901.1 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 23036 Extracted: 01/23/10										
Duplicate Analyzed: 01/26/2010 (F0A210532001X)					**Source: F0A210532001**					
Cesium 137	-1.4	20	pCi/L		-2.3		-			*U*
Potassium 40	-60	NA	pCi/L		-30		-			*U*
Blank Analyzed: 01/26/2010 (F0A230000036B)					**Source:**					
Cesium 137	-0.4	20	pCi/L				-			*U*
Potassium 40	-70	NA	pCi/L				-			*U*
LCS Analyzed: 01/26/2010 (F0A230000036C)					**Source:**					
Americium 241	132000	NA	pCi/L	141000		93	87-110			
Cobalt 60	79000	NA	pCi/L	87900		90	89-110			
Cesium 137	48200	20	pCi/L	53100		91	90-110			

TestAmerica Irvine

Kathleen A. Robb For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

METHOD BLANK/QC DATA

EPA 903.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 22145 Extracted: 01/22/10										
Blank Analyzed: 02/08/2010 (F0A220000145B)					**Source:**					
Radium (226)	0.111	1	pCi/L				-			*U*
LCS Analyzed: 02/08/2010 (F0A220000145C)					**Source:**					
Radium (226)	10.7	1	pCi/L	11.3		95	68-136			
LCS Dup Analyzed: 02/08/2010 (F0A220000145L)					**Source:**					
Radium (226)	11.2	1	pCi/L	11.3		100	68-136	5	40	

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Sampled: 01/18/10-01/19/10
Received: 01/19/10

METHOD BLANK/QC DATA

EPA 904 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 22148 Extracted: 01/22/10										
Blank Analyzed: 02/08/2010 (F0A220000148B)					**Source:**					
Radium 228	0.22	1	pCi/L				-			*U*
LCS Analyzed: 02/08/2010 (F0A220000148C)					**Source:**					
Radium 228	8.22	1	pCi/L	6.45		127	60-142			
LCS Dup Analyzed: 02/08/2010 (F0A220000148L)					**Source:**					
Radium 228	7.58	1	pCi/L	6.45		118	60-142	8	40	

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Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

METHOD BLANK/QC DATA

EPA 905 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 22149 Extracted: 01/22/10										
Blank Analyzed: 02/01/2010 (F0A220000149B)					**Source:**					
Strontium 90	-0.01	3	pCi/L				-			*U*
LCS Analyzed: 02/01/2010 (F0A220000149C)					**Source:**					
Strontium 90	6.74	3	pCi/L	6.81		99	80-130			
LCS Dup Analyzed: 02/01/2010 (F0A220000149L)					**Source:**					
Strontium 90	6.99	3	pCi/L	6.81		103	80-130	4	40	

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Sampled: 01/18/10-01/19/10
Received: 01/19/10

METHOD BLANK/QC DATA

EPA 906.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 28080 Extracted: 01/28/10										
Duplicate Analyzed: 01/29/2010 (F0A200486001X)					**Source: F0A200486001**					
Tritium	-49	500	pCi/L		99		-			*U*
Matrix Spike Analyzed: 01/29/2010 (F0A200494001S)					**Source: F0A200494001**					
Tritium	4350	500	pCi/L	4540	64	94	62-147			
Blank Analyzed: 01/28/2010 (F0A280000080B)					**Source:**					
Tritium	250	500	pCi/L				-			*Jb*
LCS Analyzed: 01/28/2010 (F0A280000080C)					**Source:**					
Tritium	4680	500	pCi/L	4540		103	85-112			

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Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 26267 Extracted: 01/26/10										
Blank Analyzed: 02/02/2010 (G0A260000267B)					**Source:**					
1,2,3,4,6,7,8-HpCDD	7.9e-006	0.00005	ug/L				-			*J*
1,2,3,4,6,7,8-HpCDF	6.9e-006	0.00005	ug/L				-			*J*
1,2,3,4,7,8,9-HpCDF	ND	0.00005	ug/L				-			
1,2,3,4,7,8-HxCDD	4.6e-006	0.00005	ug/L				-			*J*
1,2,3,4,7,8-HxCDF	ND	0.00005	ug/L				-			
1,2,3,6,7,8-HxCDD	6.5e-006	0.00005	ug/L				-			*J*
1,2,3,6,7,8-HxCDF	5.7e-006	0.00005	ug/L				-			*J*
1,2,3,7,8,9-HxCDD	2.7e-006	0.00005	ug/L				-			*J, Q*
1,2,3,7,8,9-HxCDF	2.2e-006	0.00005	ug/L				-			*J, Q*
1,2,3,7,8-PeCDD	ND	0.00005	ug/L				-			
1,2,3,7,8-PeCDF	ND	0.00005	ug/L				-			
2,3,4,6,7,8-HxCDF	6e-006	0.00005	ug/L				-			*J, Q*
2,3,4,7,8-PeCDF	ND	0.00005	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	ug/L				-			
OCDD	2e-005	0.0001	ug/L				-			*J, Q*
OCDF	1.6e-005	0.0001	ug/L				-			*J*
Total HpCDD	7.9e-006	0.00005	ug/L				-			*J*
Total HpCDF	6.9e-006	0.00005	ug/L				-			*J*
Total HxCDD	1.4e-005	0.00005	ug/L				-			*J, Q*
Total HxCDF	1.4e-005	0.00005	ug/L				-			*J, Q*
Total PeCDD	ND	0.00005	ug/L				-			
Total PeCDF	ND	0.00005	ug/L				-			
Total TCDD	ND	0.00001	ug/L				-			
Total TCDF	ND	0.00001	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.0018*		*ug/L*	*0.002*		*91*	*23-140*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.0021*		*ug/L*	*0.002*		*104*	*28-143*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.0019*		*ug/L*	*0.002*		*93*	*26-138*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.0017*		*ug/L*	*0.002*		*83*	*32-141*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.0015*		*ug/L*	*0.002*		*77*	*26-152*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.0018*		*ug/L*	*0.002*		*88*	*28-130*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.0017*		*ug/L*	*0.002*		*85*	*26-123*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.0017*		*ug/L*	*0.002*		*85*	*29-147*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.0013*		*ug/L*	*0.002*		*65*	*25-181*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.0013*		*ug/L*	*0.002*		*66*	*24-185*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.0019*		*ug/L*	*0.002*		*93*	*28-136*			

TestAmerica Irvine

Kathleen A. Robb For Joseph Doak
Project Manager

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

Project ID: Routine Outfall 006

Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 26267 Extracted: 01/26/10										
Blank Analyzed: 02/02/2010 (G0A260000267B)					**Source:**					
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.0014*		*ug/L*	*0.002*		*69*	*21-178*			
Surrogate: 13C-2,3,7,8-TCDD	*0.0012*		*ug/L*	*0.002*		*61*	*25-164*			
Surrogate: 13C-2,3,7,8-TCDF	*0.0012*		*ug/L*	*0.002*		*60*	*24-169*			
Surrogate: 13C-OCDD	*0.0036*		*ug/L*	*0.004*		*89*	*17-157*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.00077*		*ug/L*	*0.0008*		*96*	*35-197*			
LCS Analyzed: 02/02/2010 (G0A260000267C)					**Source:**					
1,2,3,4,6,7,8-HpCDD	0.00102	0.00005	ug/L	0.001		102	70-140			
1,2,3,4,6,7,8-HpCDF	0.00108	0.00005	ug/L	0.001		108	82-122			
1,2,3,4,7,8,9-HpCDF	0.00111	0.00005	ug/L	0.001		111	78-138			
1,2,3,4,7,8-HxCDD	0.00103	0.00005	ug/L	0.001		103	70-164			
1,2,3,4,7,8-HxCDF	0.00114	0.00005	ug/L	0.001		114	72-134			
1,2,3,6,7,8-HxCDD	0.000964	0.00005	ug/L	0.001		96	76-134			
1,2,3,6,7,8-HxCDF	0.00102	0.00005	ug/L	0.001		102	84-130			
1,2,3,7,8,9-HxCDD	0.000912	0.00005	ug/L	0.001		91	64-162			
1,2,3,7,8,9-HxCDF	0.00102	0.00005	ug/L	0.001		102	78-130			
1,2,3,7,8-PeCDD	0.000999	0.00005	ug/L	0.001		100	70-142			
1,2,3,7,8-PeCDF	0.00104	0.00005	ug/L	0.001		104	80-134			
2,3,4,6,7,8-HxCDF	0.00104	0.00005	ug/L	0.001		104	70-156			
2,3,4,7,8-PeCDF	0.00106	0.00005	ug/L	0.001		106	68-160			
2,3,7,8-TCDD	0.000175	0.00001	ug/L	0.0002		88	67-158			
2,3,7,8-TCDF	0.0002	0.00001	ug/L	0.0002		100	75-158			
OCDD	0.002	0.0001	ug/L	0.002		100	78-144			
OCDF	0.00214	0.0001	ug/L	0.002		107	63-170			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.00169*		*ug/L*	*0.002*		*84*	*23-140*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.00191*		*ug/L*	*0.002*		*96*	*28-143*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.00165*		*ug/L*	*0.002*		*83*	*26-138*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.00133*		*ug/L*	*0.002*		*66*	*32-141*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.00139*		*ug/L*	*0.002*		*69*	*26-152*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.00175*		*ug/L*	*0.002*		*88*	*28-130*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.00162*		*ug/L*	*0.002*		*81*	*26-123*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.00161*		*ug/L*	*0.002*		*80*	*29-147*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.00124*		*ug/L*	*0.002*		*62*	*25-181*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.00123*		*ug/L*	*0.002*		*62*	*24-185*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.00171*		*ug/L*	*0.002*		*86*	*28-136*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.00127*		*ug/L*	*0.002*		*63*	*21-178*			

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Project ID: Routine Outfall 006
Report Number: ITA1481

Sampled: 01/18/10-01/19/10
Received: 01/19/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 26267 Extracted: 01/26/10										
LCS Analyzed: 02/02/2010 (G0A260000267C)					**Source:**					
Surrogate: 13C-2,3,7,8-TCDD	*0.00116*		*ug/L*	*0.002*		*58*	*25-164*			
Surrogate: 13C-2,3,7,8-TCDF	*0.00112*		*ug/L*	*0.002*		*56*	*24-169*			
Surrogate: 13C-OCDD	*0.00318*		*ug/L*	*0.004*		*80*	*17-157*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.000752*		*ug/L*	*0.0008*		*94*	*35-197*			

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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
ITA1481-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	0	4.7	15

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
ITA1481-02	Antimony-200.8	Antimony	ug/l	0.29	2.0	6
ITA1481-02	Cadmium-200.8	Cadmium	ug/l	0.095	1.0	4
ITA1481-02	Chloride - 300.0	Chloride	mg/l	4.57	0.50	150
ITA1481-02	Copper-200.8	Copper	ug/l	4.75	2.0	14
ITA1481-02	Lead-200.8	Lead	ug/l	2.84	1.0	5.2
ITA1481-02	Mercury - 245.1	Mercury	ug/l	0	0.20	0.2
ITA1481-02	Nitrogen, NO3+NO2 -N EPA 300.0	Nitrate/Nitrite-N	mg/l	3.41	0.26	10
ITA1481-02	Sulfate-300.0	Sulfate	mg/l	5.30	0.50	250
ITA1481-02	TDS - SM2540C	Total Dissolved Solids	mg/l	119	10	850
ITA1481-02	Thallium-200.8	Thallium	ug/l	0.014	1.0	2

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DATA QUALIFIERS AND DEFINITIONS

a	Spiked analyte outside of stated QC limits.
B	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.
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.
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).
Q	Estimated maximum possible concentration (EMPC).
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

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Received: 01/19/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water	N/A	N/A
EPA 1664A	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
Filtration	Water	N/A	N/A
SM2540C	Water	X	

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

Subcontracted Laboratories

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITA1481-02

Method Performed: EPA 900.0 MOD
Samples: ITA1481-02

Method Performed: EPA 901.1 MOD
Samples: ITA1481-02

Method Performed: EPA 903.0 MOD
Samples: ITA1481-02

Method Performed: EPA 904 MOD
Samples: ITA1481-02

Method Performed: EPA 905 MOD
Samples: ITA1481-02

Method Performed: EPA 906.0 MOD
Samples: ITA1481-02

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Sampled: 01/18/10-01/19/10
Received: 01/19/10

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITA1481-02

TestAmerica Irvine

Kathleen A. Robb For Joseph Doak
Project Manager

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

ITA1481

Client Name/Address: MWH-Arcadia, 618 Michillinda Ave, Suite 200, Arcadia, CA 91007. Test America Contact: Joseph Doak	Project: Boeing-SSFL NPDES **Routine Outfall 006** **GRAB** Stormwater at FSDF-2
Project Manager: Bronwyn Kelly. Sampler: E. WALKER	Phone Number: (626) 568-6691. Fax Number: (626) 568-6515

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Oil & Grease (1664-HEM)	Comments
Outfall 006	W	1L Amber	2	1/18/10-1415	HCl	1A, 1B	X	

Field readings:
Temp °F = 54° F
pH = 7.3
Time of readings = 1415

(circled) 30 / 7/20 / 1/14/16

These Samples are the Grab Portion of Outfall 006 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By	Date/Time	Received By	Date/Time
E. Walker	1/18/10 - 16:00	Matt [signature]	1-18-10 16:00
Matt [signature]	1-18-10 19:00		
		[signature]	1/18/10 19:00

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

Sample Integrity: (Check)
Intact: ____ On Ice: X 3.6

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

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 006** **COMPOSITE** Stormwater at FSDF-2
Project Manager: Bronwyn Kelly Sampler: Emily Alfano, Meghann Chell	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl	TCDD (and all congeners)	Cl-, SO_4, NO3+NO2-N	TDS	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1)	~~Chronic Toxicity~~	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl							Comments
Outfall 006	W	1L Poly	1	1/19/10 0846	HNO_3	2A	X													
Outfall 006 Dup	W	1L Poly	1		HNO_3	2B	X													
Outfall 006	W	1L Amber	2		None	3A, 3B		X												
Outfall 006	W	500 mL Poly	2		None	4A, 4B			X											
Outfall 006	W	500 mL Poly	1		None	5				X										
Outfall 006	W	2.5 Gal Cube	1		None	6A					X									Unfiltered and unpreserved analysis
		500 ml Amber	1		None	6B														
~~Outfall 006~~	~~W~~	~~1 Gal Poly~~	~~1~~		~~None~~	~~7~~						X								~~Only test if first or second rain events of the year~~
Outfall 006	W	1L Poly	1		None	8							X							Filter w/in 24hrs of receipt at lab
								4/9/10												

COC Page ~~1~~ of ~~1~~ are the composite samples for Outfall 006 for this storm event.

These must be added to the same work order for ~~COC Page 1 of 2~~ for Outfall 006 for the same event. GRAB Samples taken 1/19/10

Relinquished By	Date/Time:	Received By	Date/Time:
	1/19/10 1430		1-19-10 14:30
Relinquished By	Date/Time:	Received By	Date/Time:
	1-19-10 18:55		1/19/10 18:55
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: X On Ice: X 4.1

Data Requirements: (Check)

No Level IV: _____ All Level IV: _____ NPDES Level IV: _____

CHAIN OF CUSTODY FORM

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 006** **COMPOSITE** Stormwater at FSDF-2
Project Manager: Bronwyn Kelly Sampler: E. WALKER	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl	TCDD (and all congeners)	Cl-, SO_4, NO3+NO2-N	TDS	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1)	Chronic Toxicity	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl							Comments
Outfall 006	W	1L Poly	1	1/18/10 - 1415	HNO_3	2A	X													Low Flow (HOLD)
Outfall 006 Dup	W	1L Poly	1		HNO_3	2B	X													
Outfall 006	W	1L Amber	2		None	3A, 3B		X												
Outfall 006	W	500 mL Poly	2		None	4A, 4B			X											
Outfall 006	W	500 mL Poly	1		None	5				X										
Outfall 006	W	2.5 Gal Cube	1		None	6A					X									Unfiltered and unpreserved analysis
		500 ml Amber	1		None	6B														
~~Outfall 006~~	~~W~~	~~1 Gal Poly~~	~~1~~		None	~~7~~						X								Only test if first or second rain events of the year
Outfall 006	W	1L Poly	1	1/18/10 - 1415	None	8							X							Filter w/in 24hrs of receipt at lab
																				(HOLD)

COC Page 2 of 2 are the composite samples for Outfall 006 for this storm event.

These must be added to the same work order for COC Page 1 of 2 for Outfall 006 for the same event.

Relinquished By	Date/Time:	Received By	Date/Time:
	1/18/10 - 16:00		1-18-10 16:00
Relinquished By	Date/Time:	Received By	Date/Time:
	1-18-10 19:00		
Relinquished By	Date/Time:	Received By	Date/Time:
			1/18/10 19:00

Turn-around time: (Check)

24 Hour: _____ 72 Hour: _____ 10 Day: _____

48 Hour: _____ 5 Day: _____ Normal: X

Sample Integrity: (Check) 3.6

Intact: _____ On Ice: X

Data Requirements: (Check)

No Level IV: _____ All Level IV: _____ NPDES Level IV: X

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. ITA1481

MWH-Pasadena Boeing

Lot #: F0A220438

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: F0A220438
Revised 03-17-10

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on January 22, 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 except as noted below.

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.

Gross Alpha/Beta (EPA 900.0 MOD)

The gross alpha and beta matrix spike are outside lower control limits due to possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:
F0A220438 (1): ITA1481-02

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): FOA210425 (438), 427, 441, 429, 444, 433, 445, 434

CONDITION UPON RECEIPT FORM

Client: Brookhaven

Quote No: 71762

COC/RFA No: SEE BELOW

Initiated By: NVO Date: 179 1-21-10 Time: 0900

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	9800 5393 4579	6.		1.	Ambient	6.	
2.	9800 5393 4568	7.		2.	2	7.	
3.	8629 2902 7619	8.		3.	3	8.	
4.	9800 5393 4580	9.		4.	2	9.	
5.		10.		5.		10.	

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

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

Notes:

28246
28162
28255
28892
28257
28243
28248
28253

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: Jaymark Pehl Date: 1-25-10

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 \\Slavr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

METHODS SUMMARY

F0A220438

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
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

F0A220438

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LTLAV	001	ITA1481-02	01/19/10	08:46

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: ITA1481-02

Radiochemistry

Lab Sample ID: F0A220438-001
Work Order: LTLAV
Matrix: WATER

Date Collected: 01/19/10 0846
Date Received: 01/22/10 0930

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 # 0023036**	**Yld %**
Cesium 137	-2.3	U	9.7	20.0	18	01/23/10	01/26/10
Potassium 40	-80	U	1000		300	01/23/10	01/26/10
Gross Alpha/Beta EPA 900				**pCi/L**		**Batch # 0025415**	**Yld %**
Gross Alpha	**2.5**	**J**	**1.1**	3.0	**1.2**	**01/25/10**	**01/29/10**
Gross Beta	**2.97**	**J**	**0.89**	4.00	**1.1**	**01/25/10**	**01/29/10**
SR-90 BY GFPC EPA-905 MOD				**pCi/L**		**Batch # 0022149**	**Yld % 71**
Strontium 90	0.04	U	0.21	3.00	0.37	01/22/10	02/01/10
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**		**Batch # 0028080**	**Yld %**
Tritium	11	U	78	500	140	01/28/10	01/29/10
Total Uranium by KPA ASTM 5174-91				**pCi/L**		**Batch # 0035029**	**Yld %**
Total Uranium	0.120	U	0.013	0.693	0.21	02/04/10	02/08/10
Radium 226 by EPA 903.0 MOD				**pCi/L**		**Batch # 0022145**	**Yld % 43**
Radium (226)	-0.13	U	0.17	1.00	0.38	01/22/10	02/08/10
Radium 228 by GFPC EPA 904 MOD				**pCi/L**		**Batch # 0022148**	**Yld % 43**
Radium 228	0.22	U	0.86	1.00	1.5	01/22/10	02/08/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0A220438
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC		Prep Date	Analysis Date	Lab Sample ID
Total Uranium by KPA ASTM 5174-91			pCi/L	Batch # 0035029		Yld %			F0B040000-029B
Total Uranium	-0.0623	U	0.0075	0.693	0.21		02/04/10	02/08/10	
Radium 226 by EPA 903.0 MOD			pCi/L	Batch # 0022145		Yld % 108			F0A220000-145B
Radium (226)	0.111	U	0.094	1.00	0.13		01/22/10	02/08/10	
Radium 228 by GFPC EPA 904 MOD			pCi/L	Batch # 0022148		Yld % 92			F0A220000-148B
Radium 228	0.22	U	0.35	1.00	0.59		01/22/10	02/08/10	
SR-90 BY GFPC EPA-905 MOD			pCi/L	Batch # 0022149		Yld % 79			F0A220000-149B
Strontium 90	-0.01	U	0.22	3.00	0.38		01/22/10	02/01/10	
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	Batch # 0023036		Yld %			F0A230000-036B
Cesium 137	-0.4	U	6.7	20.0	12		01/23/10	01/26/10	
Potassium 40	-70	U	240		210		01/23/10	01/26/10	
Gross Alpha/Beta EPA 900			pCi/L	Batch # 0025415		Yld %			F0A250000-415B
Gross Alpha	-0.03	U	0.34	3.00	0.71		01/25/10	01/29/10	
Gross Beta	-0.26	U	0.86	4.00	1.5		01/25/10	01/29/10	
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	Batch # 0028080		Yld %			F0A280000-080B
Tritium	250	J	120	500	140		01/28/10	01/28/10	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0A220438
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gamma Cs-137 & Hits by EPA 901.1 MOD		**pCi/L**		**901.1 MOD**			**F0A230000-036C**
Americium 241	141000	132000	10000	500		93	(87 - 110)
Cesium 137	53100	48200	2800	200		91	(90 - 110)
Cobalt 60	87900	79000	4400	200		90	(89 - 110)
	Batch #:	0023036		**Analysis Date:**	01/26/10		
Gross Alpha/Beta EPA 900		**pCi/L**		**900.0 MOD**			**F0A250000-415C**
Gross Beta	68.1	73.4	6.2	1.6		108	(58 - 133)
	Batch #:	0025415		**Analysis Date:**	01/29/10		
Gross Alpha/Beta EPA 900		**pCi/L**		**900.0 MOD**			**F0A250000-415C**
Gross Alpha	49.4	45.4	5.0	0.9		92	(62 - 134)
	Batch #:	0025415		**Analysis Date:**	01/29/10		
TRITIUM (Distill) by EPA 906.0 MOD		**pCi/L**		**906.0 MOD**			**F0A280000-080C**
Tritium	4540	4680	480	140		103	(85 - 112)
	Batch #:	0028080		**Analysis Date:**	01/28/10		
Total Uranium by KPA ASTM 5174-91		**pCi/L**		**5174-91**			**F0B040000-029C**
Total Uranium	27.7	29.2	3.5	0.2		105	(90 - 120)
	Batch #:	0035029		**Analysis Date:**	02/08/10		
Total Uranium by KPA ASTM 5174-91		**pCi/L**		**5174-91**			**F0B040000-029C**
Total Uranium	5.54	5.67	0.59	0.21		102	(90 - 120)
	Batch #:	0035029		**Analysis Date:**	02/08/10		

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F0A220438
Matrix: WATER

Parameter		Spike Amount	Result		Total Uncert. (2 σ+/-)	% Yld	% Rec	QC Control Limits	Precision	
Radium 226 by EPA 903.0 MOD				**pCi/L**	**903.0 MOD**				**Lab Sample ID F0A220000-145C**	
Radium (226)		11.3	10.7		1.1	108	95	(68 - 136)		
	Spk 2	11.3	11.2		1.1	110	100	(68 - 136)	5	%RPD
		Batch #:	0022145			**Analysis Date:**		02/08/10		
Radium 228 by GFPC EPA 904 MOD				**pCi/L**	**904 MOD**				**Lab Sample ID F0A220000-148C**	
Radium 228		6.45	8.22		0.95	93	127	(60 - 142)		
	Spk 2	6.45	7.58		0.88	99	118	(60 - 142)	8	%RPD
		Batch #:	0022148			**Analysis Date:**		02/08/10		
SR-90 BY GFPC EPA-905 MOD				**pCi/L**	**905 MOD**				**Lab Sample ID F0A220000-149C**	
Strontium 90		6.81	6.74		0.79	77	99	(80 - 130)		
	Spk 2	6.81	6.99		0.81	80	103	(80 - 130)	4	%RPD
		Batch #:	0022149			**Analysis Date:**		02/01/10		

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: F0A200486
Matrix: WATER

Date Sampled: 01/18/10
Date Received: 01/20/10

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID %YLD	%REC		QC Control Limits
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F0A200486-001**		
Gross Beta	68.1	10.0	1.6		0.83	0.99		14	a	(54 - 150)
	Batch #:	0025415		Analysis Date:		01/29/10				
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F0A200486-001**		
Gross Alpha	49.4	6.9	1.6		0.98	0.70		12	a	(35 - 150)
	Batch #:	0025415		Analysis Date:		01/29/10				
TRITIUM (Distill) by EPA 906.0 MOD			**pCi/L**		**906.0 MOD**			**F0A200494-001**		
Tritium	4540	4350	460		64	88		94		(62 - 147)
	Batch #:	0028080		Analysis Date:		01/29/10				

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: F0A200486
Matrix: WATER

Date Sampled: 01/18/10 0730
Date Received: 01/20/10 0915

Parameter		Spike Amount	SPIKE Result	Total Uncert. (2 σ+/-)	Spike Yld	SAMPLE Result	Total Uncert. (2σ +/-)	QC Sample ID	% Yld	%Rec	QC Control Limits
Total Uranium by KPA ASTM 5				**pCi/L**		**5174-91**				**F0A200486-001**	
Total Uranium		27.7	28.8	3.4		-0.0334 U	0.0040			104	(62 - 150)
	Spk2	27.7	29.2	3.5		-0.0334 U	0.0040			105	(62 - 150)
									Precision:	2	%RPD

Batch #: 0035029 **Analysis date:** 02/08/10

NOTE(S)

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F0A220438
Matrix: WATER

Date Sampled: 01/18/10
Date Received: 01/20/10

Parameter	SAMPLE Result		Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result		Total Uncert. (2σ+/-)	% Yld	QC Sample ID Precision	
Gross Alpha/Beta EPA 900				**pCi/L**	**900.0 MOD**				**F0A200486-001**	
Gross Alpha	**0.98**	J	0.70		0.71	J	0.85		32	%RPD
Gross Beta	0.83	U	0.99		**1.6**	J	**1.0**		62	%RPD
	Batch #:		0025415	(Sample)	0025415		(Duplicate)			
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**	**906.0 MOD**				**F0A200486-001**	
Tritium	**99**	U	**94**		**-49**	U	**64**		586	%RPD
	Batch #:		0028080	(Sample)	0028080		(Duplicate)			
Gamma Cs-137 & Hits by EPA 901.1 MOD				**pCi/L**	**901.1 MOD**				**F0A210532-001**	
Cesium 137	-2.3	U	**9.2**		-1.4	U	9.8		47	%RPD
Potassium 40	-30	U	**240**		**-60**	U	**440**		69	%RPD
	Batch #:		0023036	(Sample)	0023036		(Duplicate)			

NOTE(S)

Data are incomplete without the case narrative.

APPENDIX G

Section 23

Outfall 006 – BMP Effectiveness January 18 & 19, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: BMP Effectiveness
Monitoring Program

Sampled: 01/18/10-01/19/10
Received: 01/22/10
Issued: 02/02/10 06:16

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

CASE NARRATIVE

SAMPLE RECEIPT:	Samples were received intact, at 4°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:	No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
ITA1967-01	006 EFF-1	Water
ITA1967-02	006 EFF-2	Water

Reviewed By:

Debby Wilson

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA1967

Sampled: 01/18/10-01/19/10
Received: 01/22/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1967-01 (006 EFF-1 - Water)					**Sampled: 01/18/10**				
Reporting Units: g/cc									
Density	Displacement	10A2463	N/A	NA	**1.0**	1	01/26/10	01/26/10	
Sample ID: ITA1967-02 (006 EFF-2 - Water)					**Sampled: 01/19/10**				
Reporting Units: g/cc									
Density	Displacement	10A2463	N/A	NA	**1.0**	1	01/26/10	01/26/10	
Sample ID: ITA1967-01 (006 EFF-1 - Water)					**Sampled: 01/18/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2469	10	10	**120**	1	01/26/10	01/26/10	
Sample ID: ITA1967-02 (006 EFF-2 - Water)					**Sampled: 01/19/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2469	10	10	**95**	1	01/26/10	01/26/10	

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA1967

Sampled: 01/18/10-01/19/10
Received: 01/22/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10A2463 Extracted: 01/26/10											
Duplicate Analyzed: 01/26/2010 (10A2463-DUP1)						**Source: ITA1969-01**					
Density	0.997	NA	N/A	g/cc		0.997			0	20	

TestAmerica Irvine

Debby Wilson For Joseph Doak
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Received: 01/22/10

DATA QUALIFIERS AND DEFINITIONS

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

RPD Relative Percent Difference

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

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Sampled: 01/18/10-01/19/10
Received: 01/22/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

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

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

Test America Version 06/29/09

CHAIN OF CUSTODY FORM

JTA1967

Client Name/Address:	Project: **Boeing BMP Effectiveness Monitoring Program**
MWH-Pasadena 618 Michillinda Ave., Ste 200 Arcadia, CA 91007 Test America contact: Joseph Doak	
Project Manager: Bronwyn Kelly Sampler: Shelby Dawson	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle * #	Suspended Sediment Concentration (SSC, ASTM-D3977-1997)	ANALYSIS REQUIRED									Comments
006 EFF-1	W	Poly cube 1 gal	1	1/18/10 1420	None	1	X										composite
006 EFF-2	W	Poly cube 1 gal	1	1/19/10 0846	None	2	X										composite

10:13
01/23/10
NP

Relinquished By	Date/Time:	Received By	Date/Time:
	1-22-10 16:00		1-22-10 16:00
Relinquished By	Date/Time:	Received By	Date/Time:
	1-22-10 18:45		
Relinquished By	Date/Time:	Received By	Date/Time:
			1/22/10 18:45

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal __X__
Perchlorate Only 72 Hours_____
Metals Only 72 Hours_____ 3.9
Sample Integrity: (Check)
Intact __X__ On Ice: __X__

√

APPENDIX G

Section 24

Outfall 006 – March 8, 2010

MEC^X Data Validation Report

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITC0989

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:	ITC0989
Project Manager:	B. Kelly
Matrix:	Water
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 006 (COMPOSITE)	ITC0989-03	G0C110494-001, F0C110508-001	WATER	3/8/2010 11:08:00 AM	ASTM 5174-91, 218.6, 200.7, 200.7 (Diss), 245.1, 245.1 (Diss), 1613B, 900.0 MOD, 901.1 MOD, 903.0 MOD, 904 MOD, 905 MOD, 906.0 MOD, SM2340B, SM2340B (Diss), SM2540D, 625

II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at TestAmerica-St. Louis above the control limit at ambient temperature; however, due to the nonvolatile nature of the analytes, no qualifications were required. The samples in this SDG were received at the laboratory 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 TestAmercia-West Sacramento and TestAmerica-St. Louis. As the samples were couriered to TestAmerica-Irvine, custody seals were not 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 15, 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 ≤20% for the 16 native compounds (calibration by isotope dilution) and ≤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 1,2,3,7,8-PeCDD and total PeCDD. Most method blank results were reported as EMPCs; however, due to the extent of the method blank contamination, it was the reviewer's professional opinion that the EMPC results also be utilized to qualify sample results. All sample detects for target

compound isomers and for total HxCDF were qualified as estimated nondetects, "U," at the levels of contamination. Totals for HpCDD and HpCDF were qualified as estimated, "J," as only a portion of the total was considered 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.

- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating a representative number of LCS results. The EMPCs qualified as nondetected for method blank contamination were not further qualified as EMPCs. Total PeCDD was comprised of a single EMPC peak, and was therefore qualified as an estimated nondetect, "UJ," at the level of the EMPC. 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 METHODS 200.7 and 245.1—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: April 15, 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 Methods 200.7 and 245.1*, 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. All initial and continuing calibration recoveries were within 90-110% for the ICP and ICP-MS metals and 85-115% for mercury. The CRDL/CRI recoveries were within the control limits of 70-130%.

- Blanks: Method blanks and CCBs had no applicable detects.

- Interference Check Samples: Recoveries were within 80-120%. Boron and selenium were detected in the ICSA associated with the dissolved analyses at 21.6 and 6.7 µg/L, respectively; however, the reviewer was not able to determine if the detects were due to matrix interference or low-level contamination of the ICSA solution. Selenium was reported in the ICSA associated with the total analysis at -17.8 µg/L. The sample result was reported at approximately the same level but the negative result in the sample was not due to matrix interference as the concentrations of the interferents were not large enough. There were no other target compounds present in the ICSA solution at concentrations indicative of matrix interference.

- 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: MS/MSD analyses were performed for all of the 200.7 analytes. Recoveries and RPDs were within laboratory-established QC limits.

- 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.

  Total selenium was reported as a nondetect but the reviewer noted that the raw result was a negative value, the absolute value of which was larger than the reporting limit; therefore, the reviewer raised the reporting limits and method detection limit for total selenium to the level of interference, 18 µg/L.

  Dissolved antimony and boron were detected at concentrations marginally higher than the total concentrations. Chromium and nickel were not detected in the total fraction but were detected near the reporting limit in the dissolved fraction.

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: April 15, 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 aliquots for gross alpha, gross beta, cesium-137, potassium-40, and total uranium were prepared beyond the 5-day holding time for unpreserved samples; therefore, the results for these analytes were qualified as estimated, "UJ," for nondetects and, "J," for detects. The tritium sample was analyzed within 180 days of collection. All remaining aliquots were prepared within the five-day analytical holding time for unpreserved 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 nondetected results for these analytes were qualified as estimated, "UJ." 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 and radium-226 were detected in the method blank at 0.269 and 0.059 pCi/L, respectively; therefore, total uranium and radium-226 detected in the sample were qualified as nondetected ,"U," at the reporting limits. 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: A laboratory duplicate analysis was performed on the sample in this SDG for cesium-137 and potassium-40. All results and duplicate results were nondetects.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed for the sample in this SDG for total uranium. The recoveries and RPD were within the laboratory-established control limits. Method accuracy for the remaining analytes 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 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.

D. EPA METHOD 525.2/625—Semivolatile Organic Compounds (SVOCs) Diazinon and Chlorpyrifos

Reviewed By: E. Wessling
Date Reviewed: April 28, 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 Semivolatile Organics (DVP-3, Rev. 0), EPA Method 625*,

EPA Method 525.2, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: Extraction holding times were met for the 625 method. The sample was extracted 4 days from sample collection. The sample was analyzed 1 day past the 40 day analytical holding time. The sample was qualified as estimated, "UJ," for chlorpyrifos and diazinon. The extraction holding time for diazinon by Method 525.2, listed as "immediate," was not met.

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

- Calibration: The sample was analyzed utilizing a 525.2 calibration. Calibration criteria were met. The initial calibration % RSD were ≤35%. The second source ICV had %Ds less than 20%. The CCV RRFs were ≥0.05 and the CCV recoveries were within the method control limits of 70-130%.

- Blanks: A method blank was extracted by the Method 625 procedure along with the sample and analyzed by the 625 and 525.2 calibration methods. The blank did not contain either chlorpyrifos or diazinon.

- Blank Spikes and Laboratory Control Samples: A standard 625 LCD/LCSD pair was extracted and analyzed with the sample during the 625 analysis. Benzidine was recovered below QC limits in the LSC only and had an RPD which exceeded the control limit. All other recoveries and RPDs including surrogates and internal standards were within QC limits. An LCS/LCSD pair containing the 525.2 LCS analytes was subsequently prepared by the 625 method. The recoveries for diazinon and chlorpyrifos LCS/LCSD were 61%/52% and 93%/92%, respectively. The diazinon recoveries were below the laboratory 525.2 method acceptance criteria of 70% but demonstrated the ability to recover the compounds by the 625 preparation method. RPDs were 17% and 1%; within the 30% laboratory acceptance criteria. Although not extracted with the sample, these recoveries along with the acceptable 625 target compound recoveries and RPDs demonstrate acceptable recovery of diazinon and chlorpyrifos by the 625 preparation method.

- Surrogate Recovery: Surrogate recoveries were within laboratory-established QC limits for the 625 analysis of the sample. Surrogate recoveries were not calculated for the 525.2 analysis of the samples.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision were evaluated based on LCS/LCSD results.

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

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

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

- Internal Standards Performance: The internal standard area counts and retention times were within the control limits established by the continuing calibration standards: -50%/+100% for internal standard areas and ±30 seconds for retention times for the 625 and 525.2 analysis of the sample.

- Compound Identification: Compound identification was verified. Three methods of evaluation were performed on the sample to determine the absence of diazinon and chlorpyrifos in the site sample. A tentatively identified compound (TIC) search for diazinon and chlorpyrifos was performed on the 625 analysis of the sample. The region of the chromatogram in which diazinon and chlorpyrifos would elude was scanned for the presence of the primary ions of these compounds and the areas with these abundances evaluated for the presence of the target compounds. Additionally, spectra for all unknown peaks eluting within the retention time window of diazinon and chlorpyrifos were compared to the reference spectra. Diazinon and chlorpyrifos were not detected in the 625 extract analyzed by the 625 analytical method. Subsequently, the 625 extract was analyzed by the 525.2 method, using a 525.2 calibration. Diazinon and chlorpyrifos were not detected in the 525.2 analysis of the sample. However, due to the deviations from the published methods, both diazinon and chlorpyrifos were qualified as estimated nondetects, "UJ."

- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. The reporting limits from the 525.2 analysis were utilized in the reporting of these compounds. However, due to the deviations from the published methods, both diazinon and chlorpyrifos were qualified as estimated nondetects, "UJ."

- Tentatively Identified Compounds: TICs were evaluated as an integral part of this sample analysis. Diazinon and chlorpyrifos were not identified in the sample.

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

E. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks
Date Reviewed: April 8, 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 General Minerals (DVP-6, Rev. 0), EPA Method 218.6 and SM2540D*, and the *National Functional Guidelines for Inorganic Data Review* (7/02).

- Holding Times: Analytical holding times, seven days for TSS and 24 hours from collection for hexavalent chromium, were met.

- Calibration: Calibration criteria were met. The hexavalent chromium initial calibration r^2 value was ≥0.995 and all ICV 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 for 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 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 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 ITC0989

Analysis Method ASTM 5174-91

Sample Name Outfall 006 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

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

Analysis Method EPA 200.7

Sample Name Outfall 006 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429-90-5	0.20	0.050	0.040	mg/l			
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	0.055	0.050	0.020	mg/l			
Calcium	7440-70-2	51	0.10	0.050	mg/l			
Chromium	7440-47-3	ND	5.0	2.0	ug/l		U	
Iron	7439-89-6	0.14	0.040	0.015	mg/l			
Magnesium	7439-95-4	4.1	0.020	0.012	mg/l			
Nickel	7440-02-0	ND	10	2.0	ug/l		U	
Selenium	7782-49-2	ND	18	18	ug/l		U	$
Silver	7440-22-4	ND	10	6.0	ug/l		u	
Vanadium	7440-62-2	3.7	10	3.0	ug/l	Ja	J	DNQ
Zinc	7440-66-6	7.7	20	6.0	ug/l	Ja	J	DNQ

Analysis Method EPA 200.7-Diss

Sample Name Outfall 006 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429-90-5	ND	0.050	0.040	mg/l		U	
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	0.057	0.050	0.020	mg/l			
Calcium	7440-70-2	51	0.10	0.050	mg/l	MHA		
Chromium	7440-47-3	4.6	5.0	2.0	ug/l	Ja	J	DNQ
Iron	7439-89-6	0.016	0.040	0.015	mg/l	Ja	J	DNQ
Magnesium	7439-95-4	4.1	0.020	0.012	mg/l			
Nickel	7440-02-0	10	10	2.0	ug/l			
Selenium	7782-49-2	ND	10	8.0	ug/l		U	
Silver	7440-22-4	ND	10	6.0	ug/l		U	
Vanadium	7440-62-2	3.4	10	3.0	ug/l	Ja	J	DNQ
Zinc	7440-66-6	ND	20	6.0	ug/l		U	

Analysis Method EPA 218.6

Sample Name Outfall 006 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITC0989-01 **Sample Date:** 3/8/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chromium VI	18540-29-9	0.83	1.0	0.25	ug/l	Ja	J	DNQ

Analysis Method EPA 245.1

Sample Name Outfall 006 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.20	0.10	ug/l		U	

Analysis Method EPA 245.1-Diss

Sample Name Outfall 006 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.20	0.10	ug/l		U	

Analysis Method EPA 525.2

Sample Name Outfall 006 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITC0989-03RE1 **Sample Date:** 3/8/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chlorpyrifos	2921-88-2	ND	0.96	0.0096	ug/l		UJ	H,*III
Diazinon	333-41-5	ND	0.24	0.096	ug/l	L2	UJ	H,*III

Analysis Method EPA 625

Sample Name Outfall 006 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/8/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chlorpyrifos	2921-88-2	ND	48		ug/l		R	D
Diazinon	333-41-5	ND	48		ug/l		R	D

Analysis Method EPA 900.0 MOD

Sample Name Outfall 006 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Gross Alpha	12587-46-1	0.7	3	2	pCi/L	U	UJ	H, C
Gross Beta	12587-47-2	3.6	4	1.2	pCi/L	Jb	J	H, DNQ

Analysis Method EPA 901.1 MOD

Sample Name Outfall 006 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	-2.2	20	16	pCi/L	U	UJ	H
Potassium 40	13966-00-2	-80	0	300	pCi/L	U	UJ	H

Analysis Method EPA 903.0 MOD

Sample Name Outfall 006 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	ND	1	0.05	pCi/L	Jb	UJ	B, H, C

Analysis Method EPA 904 MOD

Sample Name Outfall 006 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	0.11	1	0.44	pCi/L	U	U	

Analysis Method EPA 905 MOD

Sample Name Outfall 006 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium 90	10098-97-2	-0.1	3	0.68	pCi/L	U	U	

Analysis Method EPA 906.0 MOD

Sample Name Outfall 006 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	73	500	150	pCi/L	U	U	

Analysis Method EPA-5 1613B

Sample Name Outfall 006 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 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	0.00005	0.0000014	ug/L	J, Ba	U	B
1,2,3,4,6,7,8-HpCDF	67562-39-4	ND	1.2e-006	0.0000004	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	6.2e-007	0.0000007	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8-HxCDD	39227-28-6	ND	0.00005	0.0000009	ug/L		U	
1,2,3,4,7,8-HxCDF	70648-26-9	ND	4.1e-007	0.0000001	ug/L	J, Q, Ba	U	B
1,2,3,6,7,8-HxCDD	57653-85-7	ND	0.00005	0.0000008	ug/L		U	
1,2,3,6,7,8-HxCDF	57117-44-9	ND	6.5e-007	0.0000001	ug/L	J, Q, Ba	U	B
1,2,3,7,8,9-HxCDD	19408-74-3	ND	0.00005	0.0000007	ug/L		U	
1,2,3,7,8,9-HxCDF	72918-21-9	ND	6.4e-007	0.0000002	ug/L	J, Q, Ba	U	B
1,2,3,7,8-PeCDD	40321-76-4	ND	0.00005	0.0000006	ug/L		U	
1,2,3,7,8-PeCDF	57117-41-6	ND	0.00005	0.0000002	ug/L		U	
2,3,4,6,7,8-HxCDF	60851-34-5	ND	4.4e-007	0.0000001	ug/L	J, Q, Ba	U	B
2,3,4,7,8-PeCDF	57117-31-4	ND	0.00005	0.0000002	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	0.0000004	ug/L		U	
OCDD	3268-87-9	ND	1.1e-005	0.0000027	ug/L	J, Q, Ba	U	B
OCDF	39001-02-0	ND	2.4e-006	0.0000008	ug/L	J, Q, Ba	U	B
Total HpCDD	37871-00-4	6e-006	0.00005	0.0000014	ug/L	J, Ba	J	B, DNQ, *III
Total HpCDF	38998-75-3	3.3e-006	3.3e-006	0.0000004	ug/L	J, Q, Ba	J	B, DNQ, *III
Total HxCDD	34465-46-8	ND	0.00005	0.0000007	ug/L		U	
Total HxCDF	55684-94-1	ND	2.4e-006	0.0000001	ug/L	J, Q, Ba	U	B
Total PeCDD	36088-22-9	ND	1.1e-006	0.0000006	ug/L	J, Q	UJ	*III
Total PeCDF	30402-15-4	ND	0.00005	0.0000002	ug/L		U	
Total TCDD	41903-57-5	ND	0.00001	0.0000004	ug/L		U	
Total TCDF	55722-27-5	ND	0.00001	0.0000004	ug/L		U	

Analysis Method SM 2540D

Sample Name Outfall 006 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITC0989-03 **Sample Date:** 3/9/2010 11:08:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Suspended Solids	TSS	13	10	1.0	mg/l			