APPENDIX G

Section 73

Outfall 011, January 27, 2008

MEC^X Data Validation Reports

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IRA2565

Prepared by

MEC^X, LLC
12269 East Vassar Drive
Aurora, CO 80014

I. INTRODUCTION

Task Order Title:	Boeing SSFL NPDES
Contract Task Order:	1261.100D.00
Sample Delivery Group:	IRA2565
Project Manager:	B. Kelly
Matrix:	Soil
QC Level:	IV
No. of Samples:	2
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 011	IRA2565-01	30207-001, 8692-001, 8012803-01	Water	01/27/08 0900	120.1, 160.2, 160.5, 180.1, 200.8, 245.1, 624, 625, 900.0, 901.1, 903.1, 904.0, 905.0, 906.0, 1613, ASTM D-5174
Trip Blank	IRA2565-02	N/A	Water	N/A	624

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TestAmerica-Irvine within the temperature limits of 4°C ±2°C. The sample was received below the temperature limit at Vista; however, the sample was not noted to have been frozen. The sample was received above the temperature limit at Weck; however, mercury is not considered volatile. According to the case narrative for this SDG, the sample was received intact at all laboratories. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the sample was couriered to TestAmerica-Irvine, custody seals were not required. Custody seals were intact upon arrival at Vista. No custody seals were present upon arrival at Weck. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

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

Qualification Code Reference Table

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

Qualification Code Reference Table Cont.

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

III. Method Analyses

A. EPA METHOD 1613—Dioxin/Furans

Reviewed By: K. Shadowlight
Date Reviewed: March 2, 2008

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

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted and analyzed within one year of collection.

- Instrument Performance: Instrument performance criteria were met. Following are findings associated with instrument performance.

    - GC Column Performance: A Windows Defining Mix (WDM) containing the first and last eluting congeners of each descriptor and isomer specificity compounds was not analyzed prior to the initial calibration sequence or at the beginning of each analytical sequence; however, the first and last eluting congeners and isomer specificity compounds were added to the midpoint of the initial calibration and to the continuing calibration standards. The GC column performance in the calibrations was acceptable, with the height of the valley between the closely eluting isomers and 2,3,7,8-TCDD reported as less than 25%.

    - Mass Spectrometer Performance: The mass spectrometer performance was acceptable with the static resolving power greater than 10,000.

- Calibration: Calibration criteria were met.

    - Initial Calibration: Initial calibration criteria were met. The initial calibration was acceptable with %RSDs $\leq$20% for the 16 native compounds (calibration by isotope dilution) and $\leq$35% for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the Method 1613 QC limits for all standards.

    - Continuing Calibration: Calibration verification (VER) consisted of a mid-level standard (CS3) analyzed at the beginning of each analytical sequence. The VERs were acceptable with the concentrations within the acceptance criteria listed in Table 6 of EPA Method 1613. The ion abundance ratios and relative retention times were within the method QC limits.

- Blanks: Total HpCDD was detected in the method blank above the EDL. The result in the sample was qualified as estimated, "J," as a portion of the reported total HpCDD was

considered to be method blank contamination. The method blank had no other target compound detects above the EDL.

- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613.

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

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

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

- Internal Standards Performance: The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.

- Compound Identification: Compound identification was verified. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613.

- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating any sample detects and a representative number of blank spike concentrations. The laboratory calculated and reported compound-specific detection limits. Any detects below the laboratory lower calibration level were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Any EMPC value was qualified as an estimated nondetect, "UJ." Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 200.8, 245.1—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: March 10, 2008

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 Methods 200.8 and 245.1,* and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The analytical holding times, 6 months for metals and 28 days for mercury, were met.

- Tuning: The mass calibration and resolution checks criteria were met. All tuning solution %RSDs were ≤5%, and all 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. A bracketing lead CCV was recovered above the control limit at 115%; however, lead was not detected in the site sample. All remaining initial and continuing calibration recoveries were within 90-110% for the ICP-MS metals and 85-115% for mercury. The mercury MDL check standard was recovered at 66%; therefore, nondetected mercury in the sample was qualified as estimated, "UJ." The remaining CRI recoveries were within the control limits of 70-130%.

- Blanks: Zinc was detected in the method blank associated with the dissolved metals analyses at 2.87 µg/L; therefore zinc detected in the dissolved metal aliquot was qualified as an estimated nondetect, "UJ." There were no other applicable detects in the method blanks or CCBs.

- Interference Check Samples: ICSA/B analyses were performed in association with the metals analyses only. Recoveries were within the method-established control limits. All analytes were reported in the 6020 ICSA solution; however, the reviewer was not able to ascertain if the detection was indicative of matrix interference.

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

- Laboratory Duplicates: No laboratory duplicate analyses were performed.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the sample in this SDG for mercury only. The recoveries and RPDs were within the laboratory-established control limits. Evaluation of the ICP-MS method accuracy was based on LCS results.

- Serial Dilution: No serial dilution analyses were performed.

- Internal Standards Performance: All sample internal standard intensities were within 30-120% of the internal standard intensities measured in the initial calibration. The bracketing CCV and CCB internal standard intensities were within 80-120% of the internal standard intensities measured in the initial calibration.

- 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. Detects reported below the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.

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

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

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

C. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks
Date Reviewed: March 5, 2008

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

- Holding Times: The tritium sample was analyzed within 180 days of collection. Aliquots for gross alpha and, gross beta were prepared within the five-day analytical holding time for unpreserved samples. The aliquots for radium-226, radium-228, strontium-90, gamma spectroscopy, and total uranium were prepared beyond the five-day holding time for unpreserved samples; therefore, these results were qualified as estimated, "J," for detects and, "UJ," for nondetects.

- 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, gross alpha detected in the sample was qualified as an estimated detect, "J." The gross beta detector efficiency was greater than 20%.

  The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. The tritium detector efficiency for the sample was at least 20% and was considered acceptable. The internal spike efficiency to default efficiency ratios was near 1, indicating that quenching did not occur.

  The strontium chemical yield was at least 70% and was considered acceptable. The strontium continuing calibration results were within the laboratory control limits.

  The radium-226 cell efficiencies were determined in September 2006. The radium-226 continuing calibration results were within the laboratory-established control limits. The radium-228 calibration utilized actinium-228 and was verified in February 2001. The radium-228 tracer, yttrium oxalate yields were greater than 70%.

  The gamma spectroscopy geometry-specific, detector efficiencies were determined in September 1999 and February 2007. All analytes were determined at the maximum photopeak energy.

The kinetic phosphorescence analyzer (KPA) was calibrated immediately prior to the sample analysis. All calibration check standard recoveries were within 90-110% and were deemed acceptable.

- Blanks: There were no 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. 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.

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

Reviewed By: L. Calvin
Date Reviewed: March 9, 2008

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 8270C*, and the *National Functional Guidelines for Organic Data Review* (2/94).

- 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. Samples were analyzed within 12 hours of the DFTPP injection time.

- Calibration: Calibration criteria were met. Initial calibration average RRFs were ≥0.05 and %RSDs ≤35%. Continuing calibration RRFs were ≥0.05 and %Ds ≤20%.

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

- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.

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

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the sample of this SDG. Evaluation of method accuracy and precision was based on LSC/LSCD 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. The laboratory analyzed for five semivolatile target compounds by EPA Method 625. 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 results reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

- 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.

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

Reviewed By: L. Calvin
Date Reviewed: March 9, 2008

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 Method 8260B*, and the *National Functional Guidelines for Organic Data Review* (2/94).

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

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

- Calibration: Calibration criteria were met. For applicable target compounds, initial calibration average RRFs were ≥0.05 and %RSDs ≤35%. Continuing calibration RRFs were ≥0.05 and %Ds ≤20%.

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

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

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

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on site sample Outfall 011. Recoveries and RPDs were within laboratory-established QC limits.

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

    - Trip Blanks: Sample Trip Blank was the trip blank associated with site sample Outfall 011. The trip blank had no target compound detects above the MDL.

    - 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. The laboratory analyzed for 15 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 calibration and the laboratory MDLs. Any results reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

- 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. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks
Date Reviewed: March 7, 2008

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 120.1, 160.2, 160.5, 180.1,* and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: Analytical holding times, 24 hours for conductivity, 48 hours for settleable solids and turbidity, and seven days for TSS, were met.

- Calibration: The conductivity and turbidity check standard recoveries were acceptable. The balance calibration logs were acceptable. Calibration is not applicable to settleable solids.

- Blanks: Turbidity was detected in the method blank but not at a concentration sufficient to qualify the site samples. Method blanks and CCBs had no other detects.

- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits. The LCS is not applicable to settleable solids or turbidity.

- Laboratory Duplicates: A laboratory duplicate analysis was performed for turbidity. The RPD was within the laboratory-established control limit.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. For the applicable methods, method accuracy was evaluated based on the LCS results.

- Sample Result Verification: Review is not applicable at a Level V validation. Nondetects are valid to the reporting limit. Turbidity was reported from a 5× dilution.

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

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

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

Sample ID: IRA2565-01 Outfall 011 **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30207-001	Date Received:	29-Jan-08
Project:	IRA2565	Sample Size:	1.00 L	QC Batch No.:	9921	Date Extracted:	2-Feb-08
Date Collected:	27-Jan-08			Date Analyzed DB-5:	6-Feb-08	Date Analyzed DB-225:	NA
Time Collected:	0900						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000921		
1,2,3,7,8-PeCDD	ND	0.00000162		
1,2,3,4,7,8-HxCDD	ND	0.00000178		
1,2,3,6,7,8-HxCDD	ND	0.00000430		
1,2,3,7,8,9-HxCDD	ND	0.00000685		
1,2,3,4,6,7,8-HpCDD	0.0000632			
OCDD	0.000718			
2,3,7,8-TCDF	ND	0.000000728		
1,2,3,7,8-PeCDF	ND	0.00000101		
2,3,4,7,8-PeCDF	ND	0.00000165		
1,2,3,4,7,8-HxCDF	ND	0.00000151		
1,2,3,6,7,8-HxCDF	ND	0.00000205		
2,3,4,6,7,8-HxCDF	ND	0.00000176		
1,2,3,7,8,9-HxCDF	ND	0.00000109		
1,2,3,4,6,7,8-HpCDF	0.0000149			J
1,2,3,4,7,8,9-HpCDF	ND	0.00000344		
OCDF	0.0000456			J

Labeled Standard		%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	85.3	25 - 164	
	13C-1,2,3,7,8-PeCDD	80.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	76.3	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	76.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	82.6	23 - 140	
	13C-OCDD	71.0	17 - 157	
	13C-2,3,7,8-TCDF	86.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	84.9	24 - 185	
	13C-2,3,4,7,8-PeCDF	73.2	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	93.8	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	75.6	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	70.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	76.8	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	73.3	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	77.2	26 - 138	
	13C-OCDF	75.4	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	89.1	35 - 197	

Totals

Total TCDD	ND	0.000000921	
Total PeCDD	ND	0.00000162	
Total HxCDD	0.0000117		
Total HpCDD	0.000169		B
Total TCDF	ND	0.00000117	
Total PeCDF	ND		0.000000946
Total HxCDF	0.00000502		0.0000107
Total HpCDF	0.0000412		

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: MAS Level IV

Approved By: William J. Luksemburg 08-Feb-2008 12:16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: ug/l									
Cadmium J/DNQ	EPA 200.8	8A28076	0.11	1.0	**0.20**	1	01/28/08	01/28/08	J
Copper	EPA 200.8	8A28076	0.75	2.0	**5.3**	1	01/28/08	01/28/08	
Lead	EPA 200.8	8A28076	0.30	1.0	**3.9**	1	01/28/08	01/28/08	
Selenium U	EPA 200.8	8A28076	0.30	2.0	ND	1	01/28/08	01/28/08	
Zinc	EPA 200.8	8A28076	2.5	20	**59**	1	01/28/08	01/28/08	

LEVEL IV

TestAmerica Irvine

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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: ug/l									
Cadmium U	EPA 200.8-Diss	8A28070	0.11	1.0	ND	1	01/28/08	01/28/08	
Copper	EPA 200.8-Diss	8A28070	0.75	2.0	**4.8**	1	01/28/08	01/28/08	
Lead U	EPA 200.8-Diss	8A28070	0.30	1.0	ND	1	01/28/08	01/28/08	
Selenium U	EPA 200.8-Diss	8A28070	0.30	2.0	ND	1	01/28/08	01/28/08	
Zinc UJ/B	EPA 200.8-Diss	8A28070	2.5	20	**8.3**	1	01/28/08	01/28/08	B, J

LEVEL IV

TestAmerica Irvine

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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

Metals by EPA 200 Series Methods

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved UJ/*III	EPA 245.1	W8A1034	0.050	0.20	ND	1	01/29/08	01/30/08	
Mercury, Total UJ/*III	EPA 245.1	W8A1034	0.050	0.20	ND	1	01/29/08	01/30/08	

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

Eberline Services

ANALYSIS RESULTS

SDG 8692 Client TA IRVINE
Work Order R801175-01 Contract PROJECT# IRA2565
Received Date 01/29/08 Matrix WATER

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA	
Outfall 011								
IRA2565-01	8692-001	01/27/08	02/16/08	GrossAlpha	1.29 ± 0.48	pCi/L	0.57	J/R
			02/16/08	Gross Beta	3.03 ± 0.60	pCi/L	0.87	
			02/20/08	Ra-228	-0.085 ± 0.18	pCi/L	0.51	UJ/H
			02/15/08	K-40 (G)	U	pCi/L	55	↓
			02/15/08	Cs-137 (G)	U	pCi/L	2.0	↓
			02/21/08	H-3	-90.4 ± 92	pCi/L	160	U
			02/20/08	Ra-226	-0.114 ± 0.38	pCi/L	0.83	UJ/H
			02/14/08	Sr-90	-0.007 ± 0.26	pCi/L	0.54	↓
			02/19/08	Total U	0.101 ± 0.015	pCi/L	0.022	J/H

LEVEL IV

Certified by
Report Date 02/27/08
Page 1

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

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

Project ID: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

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: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: ug/l									
Bis(2-ethylhexyl)phthalate	EPA 625	8A29057	1.6	4.7	ND	0.943	01/29/08	01/31/08	
2,4-Dinitrotoluene	EPA 625	8A29057	0.19	8.5	ND	0.943	01/29/08	01/31/08	
N-Nitrosodimethylamine	EPA 625	8A29057	0.094	7.5	ND	0.943	01/29/08	01/31/08	
Pentachlorophenol	EPA 625	8A29057	0.094	7.5	ND	0.943	01/29/08	01/31/08	
2,4,6-Trichlorophenol	EPA 625	8A29057	0.094	5.7	ND	0.943	01/29/08	01/31/08	
Surrogate: 2-Fluorophenol (30-120%)					*72 %*				
Surrogate: Phenol-d6 (35-120%)					*78 %*				
Surrogate: 2,4,6-Tribromophenol (40-120%)					*120 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*78 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*85 %*				
Surrogate: Terphenyl-d14 (50-125%)					*108 %*				

u ↓

Level IV

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Joseph Doak
Project Manager

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

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

Project ID: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

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: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	8A30009	0.28	2.0	ND	1	01/30/08	01/30/08	
Carbon tetrachloride	EPA 624	8A30009	0.28	5.0	ND	1	01/30/08	01/30/08	
Chloroform	EPA 624	8A30009	0.33	2.0	ND	1	01/30/08	01/30/08	
1,1-Dichloroethane	EPA 624	8A30009	0.27	2.0	ND	1	01/30/08	01/30/08	
1,2-Dichloroethane	EPA 624	8A30009	0.28	2.0	ND	1	01/30/08	01/30/08	
1,1-Dichloroethene	EPA 624	8A30009	0.42	3.0	ND	1	01/30/08	01/30/08	
Ethylbenzene	EPA 624	8A30009	0.25	2.0	ND	1	01/30/08	01/30/08	
Tetrachloroethene	EPA 624	8A30009	0.32	2.0	ND	1	01/30/08	01/30/08	
Toluene	EPA 624	8A30009	0.36	2.0	ND	1	01/30/08	01/30/08	
1,1,1-Trichloroethane	EPA 624	8A30009	0.30	2.0	ND	1	01/30/08	01/30/08	
1,1,2-Trichloroethane	EPA 624	8A30009	0.30	2.0	ND	1	01/30/08	01/30/08	
Trichloroethene	EPA 624	8A30009	0.26	5.0	ND	1	01/30/08	01/30/08	
Trichlorofluoromethane	EPA 624	8A30009	0.34	5.0	ND	1	01/30/08	01/30/08	
Vinyl chloride	EPA 624	8A30009	0.30	5.0	ND	1	01/30/08	01/30/08	
Xylenes, Total	EPA 624	8A30009	0.90	4.0	ND	1	01/30/08	01/30/08	
Surrogate: Dibromofluoromethane (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Sample ID: IRA2565-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	8A30009	0.28	2.0	ND	1	01/30/08	01/30/08	
Carbon tetrachloride	EPA 624	8A30009	0.28	5.0	ND	1	01/30/08	01/30/08	
Chloroform	EPA 624	8A30009	0.33	2.0	ND	1	01/30/08	01/30/08	
1,1-Dichloroethane	EPA 624	8A30009	0.27	2.0	ND	1	01/30/08	01/30/08	
1,2-Dichloroethane	EPA 624	8A30009	0.28	2.0	ND	1	01/30/08	01/30/08	
1,1-Dichloroethene	EPA 624	8A30009	0.42	3.0	ND	1	01/30/08	01/30/08	
Ethylbenzene	EPA 624	8A30009	0.25	2.0	ND	1	01/30/08	01/30/08	
Tetrachloroethene	EPA 624	8A30009	0.32	2.0	ND	1	01/30/08	01/30/08	
Toluene	EPA 624	8A30009	0.36	2.0	ND	1	01/30/08	01/30/08	
1,1,1-Trichloroethane	EPA 624	8A30009	0.30	2.0	ND	1	01/30/08	01/30/08	
1,1,2-Trichloroethane	EPA 624	8A30009	0.30	2.0	ND	1	01/30/08	01/30/08	
Trichloroethene	EPA 624	8A30009	0.26	5.0	ND	1	01/30/08	01/30/08	
Trichlorofluoromethane	EPA 624	8A30009	0.34	5.0	ND	1	01/30/08	01/30/08	
Vinyl chloride	EPA 624	8A30009	0.30	5.0	ND	1	01/30/08	01/30/08	
Xylenes, Total	EPA 624	8A30009	0.90	4.0	ND	1	01/30/08	01/30/08	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

Level IV

TestAmerica Irvine

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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease) *	EPA 1664A	8B05016	1.3	4.8	**1.6**	1	02/05/08	02/05/08	J
Ammonia-N (Distilled)	EPA 350.2	8A29110	0.30	0.50	ND	1	01/29/08	01/29/08	
Biochemical Oxygen Demand	EPA 405.1	8A28120	0.59	2.0	**2.2**	1	01/28/08	02/02/08	
Chloride	EPA 300.0	8A28061	0.25	0.50	**4.8**	1	01/28/08	01/28/08	
Nitrate-N	EPA 300.0	8A28061	0.060	0.11	**3.5**	1	01/28/08	01/28/08	
Nitrite-N	EPA 300.0	8A28061	0.090	0.15	ND	1	01/28/08	01/28/08	
Nitrate/Nitrite-N	EPA 300.0	8A28061	0.15	0.26	**3.5**	1	01/28/08	01/28/08	
Sulfate	EPA 300.0	8A28061	0.20	0.50	**9.0**	1	01/28/08	01/28/08	
Surfactants (MBAS)	SM5540-C	8A28127	0.044	0.10	**0.058**	1	01/28/08	01/28/08	J
Total Dissolved Solids	SM2540C	8A31077	10	10	**100**	1	01/31/08	01/31/08	
Total Suspended Solids	EPA 160.2	8A28115	10	10	**43**	1	01/28/08	01/28/08	
Sample ID: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: ml/l/hr									
Total Settleable Solids	EPA 160.5	8A28129	0.10	0.10	ND	1	01/28/08	01/28/08	
Sample ID: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: NTU									
Turbidity	EPA 180.1	8A29082	0.20	5.0	**60**	5	01/29/08	01/29/08	
Sample ID: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: ug/l									
Total Cyanide *	EPA 335.2	8A28126	2.2	5.0	ND	1	01/28/08	01/28/08	
Perchlorate	EPA 314.0	8A28071	1.5	4.0	ND	1	01/28/08	01/28/08	

* Analysis not validated

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TestAmerica Irvine

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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	8A31072	1.0	1.0	**120**	1	01/31/08	01/31/08	

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

APPENDIX G

Section 74

Outfall 011, January 27, 2008

Test America Analytical Laboratory Report

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 011

Sampled: 01/27/08
Received: 01/28/08
Issued: 02/28/08 12:13

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

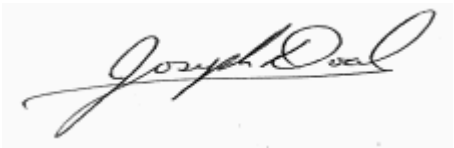
SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This is a final report to include all subcontract data.

LABORATORY ID	CLIENT ID	MATRIX
IRA2565-01	Outfall 11	Water
IRA2565-02	Trip Blanks	Water

Reviewed By:



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Joseph Doak
Project Manager

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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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

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: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	8A30009	0.28	2.0	ND	1	01/30/08	01/30/08	
Carbon tetrachloride	EPA 624	8A30009	0.28	5.0	ND	1	01/30/08	01/30/08	
Chloroform	EPA 624	8A30009	0.33	2.0	ND	1	01/30/08	01/30/08	
1,1-Dichloroethane	EPA 624	8A30009	0.27	2.0	ND	1	01/30/08	01/30/08	
1,2-Dichloroethane	EPA 624	8A30009	0.28	2.0	ND	1	01/30/08	01/30/08	
1,1-Dichloroethene	EPA 624	8A30009	0.42	3.0	ND	1	01/30/08	01/30/08	
Ethylbenzene	EPA 624	8A30009	0.25	2.0	ND	1	01/30/08	01/30/08	
Tetrachloroethene	EPA 624	8A30009	0.32	2.0	ND	1	01/30/08	01/30/08	
Toluene	EPA 624	8A30009	0.36	2.0	ND	1	01/30/08	01/30/08	
1,1,1-Trichloroethane	EPA 624	8A30009	0.30	2.0	ND	1	01/30/08	01/30/08	
1,1,2-Trichloroethane	EPA 624	8A30009	0.30	2.0	ND	1	01/30/08	01/30/08	
Trichloroethene	EPA 624	8A30009	0.26	5.0	ND	1	01/30/08	01/30/08	
Trichlorofluoromethane	EPA 624	8A30009	0.34	5.0	ND	1	01/30/08	01/30/08	
Vinyl chloride	EPA 624	8A30009	0.30	5.0	ND	1	01/30/08	01/30/08	
Xylenes, Total	EPA 624	8A30009	0.90	4.0	ND	1	01/30/08	01/30/08	
Surrogate: Dibromofluoromethane (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Sample ID: IRA2565-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	8A30009	0.28	2.0	ND	1	01/30/08	01/30/08	
Carbon tetrachloride	EPA 624	8A30009	0.28	5.0	ND	1	01/30/08	01/30/08	
Chloroform	EPA 624	8A30009	0.33	2.0	ND	1	01/30/08	01/30/08	
1,1-Dichloroethane	EPA 624	8A30009	0.27	2.0	ND	1	01/30/08	01/30/08	
1,2-Dichloroethane	EPA 624	8A30009	0.28	2.0	ND	1	01/30/08	01/30/08	
1,1-Dichloroethene	EPA 624	8A30009	0.42	3.0	ND	1	01/30/08	01/30/08	
Ethylbenzene	EPA 624	8A30009	0.25	2.0	ND	1	01/30/08	01/30/08	
Tetrachloroethene	EPA 624	8A30009	0.32	2.0	ND	1	01/30/08	01/30/08	
Toluene	EPA 624	8A30009	0.36	2.0	ND	1	01/30/08	01/30/08	
1,1,1-Trichloroethane	EPA 624	8A30009	0.30	2.0	ND	1	01/30/08	01/30/08	
1,1,2-Trichloroethane	EPA 624	8A30009	0.30	2.0	ND	1	01/30/08	01/30/08	
Trichloroethene	EPA 624	8A30009	0.26	5.0	ND	1	01/30/08	01/30/08	
Trichlorofluoromethane	EPA 624	8A30009	0.34	5.0	ND	1	01/30/08	01/30/08	
Vinyl chloride	EPA 624	8A30009	0.30	5.0	ND	1	01/30/08	01/30/08	
Xylenes, Total	EPA 624	8A30009	0.90	4.0	ND	1	01/30/08	01/30/08	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

TestAmerica Irvine

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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

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: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: ug/l									
Bis(2-ethylhexyl)phthalate	EPA 625	8A29057	1.6	4.7	ND	0.943	01/29/08	01/31/08	
2,4-Dinitrotoluene	EPA 625	8A29057	0.19	8.5	ND	0.943	01/29/08	01/31/08	
N-Nitrosodimethylamine	EPA 625	8A29057	0.094	7.5	ND	0.943	01/29/08	01/31/08	
Pentachlorophenol	EPA 625	8A29057	0.094	7.5	ND	0.943	01/29/08	01/31/08	
2,4,6-Trichlorophenol	EPA 625	8A29057	0.094	5.7	ND	0.943	01/29/08	01/31/08	
Surrogate: 2-Fluorophenol (30-120%)					*72 %*				
Surrogate: Phenol-d6 (35-120%)					*78 %*				
Surrogate: 2,4,6-Tribromophenol (40-120%)					*120 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*78 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*85 %*				
Surrogate: Terphenyl-d14 (50-125%)					*108 %*				

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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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: ug/l									
alpha-BHC	EPA 608	8A29059	0.0024	0.0094	ND	0.943	01/29/08	01/29/08	
Surrogate: Decachlorobiphenyl (45-120%)					*83 %*				
Surrogate: Tetrachloro-m-xylene (35-115%)					*72 %*				

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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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: ug/l									
Cadmium	EPA 200.8	8A28076	0.11	1.0	**0.20**	1	01/28/08	01/28/08	J
Copper	EPA 200.8	8A28076	0.75	2.0	**5.3**	1	01/28/08	01/28/08	
Lead	EPA 200.8	8A28076	0.30	1.0	**3.9**	1	01/28/08	01/28/08	
Selenium	EPA 200.8	8A28076	0.30	2.0	ND	1	01/28/08	01/28/08	
Zinc	EPA 200.8	8A28076	2.5	20	**59**	1	01/28/08	01/28/08	

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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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: ug/l									
Cadmium	EPA 200.8-Diss	8A28070	0.11	1.0	ND	1	01/28/08	01/28/08	
Copper	EPA 200.8-Diss	8A28070	0.75	2.0	**4.8**	1	01/28/08	01/28/08	
Lead	EPA 200.8-Diss	8A28070	0.30	1.0	ND	1	01/28/08	01/28/08	
Selenium	EPA 200.8-Diss	8A28070	0.30	2.0	ND	1	01/28/08	01/28/08	
Zinc	EPA 200.8-Diss	8A28070	2.5	20	**8.3**	1	01/28/08	01/28/08	B, J

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Joseph Doak
Project Manager

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

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

Project ID: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	8B05016	1.3	4.8	**1.6**	1	02/05/08	02/05/08	J
Ammonia-N (Distilled)	EPA 350.2	8A29110	0.30	0.50	ND	1	01/29/08	01/29/08	
Biochemical Oxygen Demand	EPA 405.1	8A28120	0.59	2.0	**2.2**	1	01/28/08	02/02/08	
Chloride	EPA 300.0	8A28061	0.25	0.50	**4.8**	1	01/28/08	01/28/08	
Nitrate-N	EPA 300.0	8A28061	0.060	0.11	**3.5**	1	01/28/08	01/28/08	
Nitrite-N	EPA 300.0	8A28061	0.090	0.15	ND	1	01/28/08	01/28/08	
Nitrate/Nitrite-N	EPA 300.0	8A28061	0.15	0.26	**3.5**	1	01/28/08	01/28/08	
Sulfate	EPA 300.0	8A28061	0.20	0.50	**9.0**	1	01/28/08	01/28/08	
Surfactants (MBAS)	SM5540-C	8A28127	0.044	0.10	**0.058**	1	01/28/08	01/28/08	J
Total Dissolved Solids	SM2540C	8A31077	10	10	**100**	1	01/31/08	01/31/08	
Total Suspended Solids	EPA 160.2	8A28115	10	10	**43**	1	01/28/08	01/28/08	
Sample ID: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: ml/l/hr									
Total Settleable Solids	EPA 160.5	8A28129	0.10	0.10	ND	1	01/28/08	01/28/08	
Sample ID: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: NTU									
Turbidity	EPA 180.1	8A29082	0.20	5.0	**60**	5	01/29/08	01/29/08	
Sample ID: IRA2565-01 (Outfall 11 - Water)									
Reporting Units: ug/l									
Total Cyanide	EPA 335.2	8A28126	2.2	5.0	ND	1	01/28/08	01/28/08	
Perchlorate	EPA 314.0	8A28071	1.5	4.0	ND	1	01/28/08	01/28/08	

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Project Manager

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MWH-Pasadena/Boeing
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	8A31072	1.0	1.0	**120**	1	01/31/08	01/31/08	

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Metals by EPA 200 Series Methods

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2565-01 (Outfall 11 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W8A1034	0.050	0.20	ND	1	01/29/08	01/30/08	
Mercury, Total	EPA 245.1	W8A1034	0.050	0.20	ND	1	01/29/08	01/30/08	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 11 (IRA2565-01) - Water					
EPA 160.5	2	01/27/2008 09:00	01/28/2008 05:30	01/28/2008 18:30	01/28/2008 18:30
EPA 180.1	2	01/27/2008 09:00	01/28/2008 05:30	01/29/2008 09:00	01/29/2008 09:00
EPA 300.0	2	01/27/2008 09:00	01/28/2008 05:30	01/28/2008 09:00	01/28/2008 13:19
EPA 405.1	2	01/27/2008 09:00	01/28/2008 05:30	01/28/2008 16:43	02/02/2008 12:00
SM5540-C	2	01/27/2008 09:00	01/28/2008 05:30	01/28/2008 20:21	01/28/2008 21:22

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Project Manager

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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: 8A30009 Extracted: 01/30/08											
Blank Analyzed: 01/30/2008 (8A30009-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	0.50	ug/l							
Carbon tetrachloride	ND	5.0	0.28	ug/l							
Chloroform	ND	2.0	0.33	ug/l							
1,1-Dichloroethane	ND	2.0	0.27	ug/l							
1,2-Dichloroethane	ND	2.0	0.28	ug/l							
1,1-Dichloroethene	ND	3.0	0.42	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Tetrachloroethene	ND	2.0	0.32	ug/l							
Toluene	ND	2.0	0.36	ug/l							
1,1,1-Trichloroethane	ND	2.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	2.0	0.30	ug/l							
Trichloroethene	ND	5.0	0.26	ug/l							
Trichlorofluoromethane	ND	5.0	0.34	ug/l							
Vinyl chloride	ND	5.0	0.30	ug/l							
Xylenes, Total	ND	4.0	0.90	ug/l							
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
LCS Analyzed: 01/30/2008 (8A30009-BS1)											
Benzene	25.2	2.0	0.28	ug/l	25.0		101	70-120			
Carbon tetrachloride	26.5	5.0	0.28	ug/l	25.0		106	65-140			
Chloroform	27.6	2.0	0.33	ug/l	25.0		110	70-130			
1,1-Dichloroethane	27.3	2.0	0.27	ug/l	25.0		109	70-125			
1,2-Dichloroethane	24.8	2.0	0.28	ug/l	25.0		99	60-140			
1,1-Dichloroethene	24.3	3.0	0.42	ug/l	25.0		97	70-125			
Ethylbenzene	25.7	2.0	0.25	ug/l	25.0		103	75-125			
Tetrachloroethene	21.8	2.0	0.32	ug/l	25.0		87	70-125			
Toluene	25.4	2.0	0.36	ug/l	25.0		101	70-120			
1,1,1-Trichloroethane	27.3	2.0	0.30	ug/l	25.0		109	65-135			
1,1,2-Trichloroethane	25.6	2.0	0.30	ug/l	25.0		102	70-125			
Trichloroethene	23.9	5.0	0.26	ug/l	25.0		96	70-125			
Trichlorofluoromethane	29.3	5.0	0.34	ug/l	25.0		117	65-145			
Vinyl chloride	25.3	5.0	0.30	ug/l	25.0		101	55-135			
Xylenes, Total	74.5	4.0	0.90	ug/l	75.0		99	70-125			

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Joseph Doak
Project Manager

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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

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Received: 01/28/08

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: 8A30009 Extracted: 01/30/08											
LCS Analyzed: 01/30/2008 (8A30009-BS1)											
Surrogate: Dibromofluoromethane	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Matrix Spike Analyzed: 01/30/2008 (8A30009-MS1)						**Source: IRA2565-01**					
Benzene	24.1	2.0	0.28	ug/l	25.0	ND	96	65-125			
Carbon tetrachloride	25.1	5.0	0.28	ug/l	25.0	ND	100	65-140			
Chloroform	26.6	2.0	0.33	ug/l	25.0	ND	106	65-135			
1,1-Dichloroethane	25.8	2.0	0.27	ug/l	25.0	ND	103	65-130			
1,2-Dichloroethane	23.9	2.0	0.28	ug/l	25.0	ND	96	60-140			
1,1-Dichloroethene	22.0	3.0	0.42	ug/l	25.0	ND	88	60-130			
Ethylbenzene	25.1	2.0	0.25	ug/l	25.0	ND	100	65-130			
Tetrachloroethene	21.2	2.0	0.32	ug/l	25.0	ND	85	65-130			
Toluene	24.3	2.0	0.36	ug/l	25.0	ND	97	70-125			
1,1,1-Trichloroethane	26.0	2.0	0.30	ug/l	25.0	ND	104	65-140			
1,1,2-Trichloroethane	25.4	2.0	0.30	ug/l	25.0	ND	102	65-130			
Trichloroethene	23.3	5.0	0.26	ug/l	25.0	ND	93	65-125			
Trichlorofluoromethane	26.4	5.0	0.34	ug/l	25.0	ND	105	60-145			
Vinyl chloride	21.6	5.0	0.30	ug/l	25.0	ND	86	45-140			
Xylenes, Total	72.8	4.0	0.90	ug/l	75.0	ND	97	60-130			
Surrogate: Dibromofluoromethane	*26.6*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			
Matrix Spike Dup Analyzed: 01/30/2008 (8A30009-MSD1)						**Source: IRA2565-01**					
Benzene	26.9	2.0	0.28	ug/l	25.0	ND	108	65-125	11	20	
Carbon tetrachloride	28.0	5.0	0.28	ug/l	25.0	ND	112	65-140	11	25	
Chloroform	29.2	2.0	0.33	ug/l	25.0	ND	117	65-135	9	20	
1,1-Dichloroethane	28.5	2.0	0.27	ug/l	25.0	ND	114	65-130	10	20	
1,2-Dichloroethane	26.4	2.0	0.28	ug/l	25.0	ND	106	60-140	10	20	
1,1-Dichloroethene	24.0	3.0	0.42	ug/l	25.0	ND	96	60-130	9	20	
Ethylbenzene	28.1	2.0	0.25	ug/l	25.0	ND	113	65-130	11	20	
Tetrachloroethene	23.8	2.0	0.32	ug/l	25.0	ND	95	65-130	12	20	
Toluene	27.1	2.0	0.36	ug/l	25.0	ND	109	70-125	11	20	
1,1,1-Trichloroethane	28.6	2.0	0.30	ug/l	25.0	ND	115	65-140	10	20	
1,1,2-Trichloroethane	28.0	2.0	0.30	ug/l	25.0	ND	112	65-130	10	25	

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Joseph Doak
Project Manager

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

MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
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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: 8A30009 Extracted: 01/30/08											
Matrix Spike Dup Analyzed: 01/30/2008 (8A30009-MSD1)						**Source: IRA2565-01**					
Trichloroethene	25.8	5.0	0.26	ug/l	25.0	ND	103	65-125	10	20	
Trichlorofluoromethane	28.7	5.0	0.34	ug/l	25.0	ND	115	60-145	9	25	
Vinyl chloride	24.6	5.0	0.30	ug/l	25.0	ND	98	45-140	13	30	
Xylenes, Total	81.1	4.0	0.90	ug/l	75.0	ND	108	60-130	11	20	
Surrogate: Dibromofluoromethane	*26.4*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*			*ug/l*	*25.0*		*97*	*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: 8A29057 Extracted: 01/29/08											
Blank Analyzed: 01/31/2008 (8A29057-BLK1)											
Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
2,4-Dinitrotoluene	ND	9.0	0.20	ug/l							
N-Nitrosodimethylamine	ND	8.0	0.10	ug/l							
Pentachlorophenol	ND	8.0	0.10	ug/l							
2,4,6-Trichlorophenol	ND	6.0	0.10	ug/l							
Surrogate: 2-Fluorophenol	*14.9*			*ug/l*	*20.0*		*75*	*30-120*			
Surrogate: Phenol-d6	*16.3*			*ug/l*	*20.0*		*81*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*18.4*			*ug/l*	*20.0*		*92*	*40-120*			
Surrogate: Nitrobenzene-d5	*8.42*			*ug/l*	*10.0*		*84*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*8.88*			*ug/l*	*10.0*		*89*	*50-120*			
Surrogate: Terphenyl-d14	*10.6*			*ug/l*	*10.0*		*106*	*50-125*			
LCS Analyzed: 01/31/2008 (8A29057-BS1)											**MNR1**
Bis(2-ethylhexyl)phthalate	11.3	5.0	1.7	ug/l	10.0		113	65-130			
2,4-Dinitrotoluene	11.2	9.0	0.20	ug/l	10.0		112	65-120			
N-Nitrosodimethylamine	8.42	8.0	0.10	ug/l	10.0		84	45-120			
Pentachlorophenol	8.90	8.0	0.10	ug/l	10.0		89	50-120			
2,4,6-Trichlorophenol	8.46	6.0	0.10	ug/l	10.0		85	55-120			
Surrogate: 2-Fluorophenol	*15.6*			*ug/l*	*20.0*		*78*	*30-120*			
Surrogate: Phenol-d6	*17.1*			*ug/l*	*20.0*		*86*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*21.2*			*ug/l*	*20.0*		*106*	*40-120*			
Surrogate: Nitrobenzene-d5	*8.44*			*ug/l*	*10.0*		*84*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*8.82*			*ug/l*	*10.0*		*88*	*50-120*			
Surrogate: Terphenyl-d14	*9.24*			*ug/l*	*10.0*		*92*	*50-125*			
LCS Dup Analyzed: 01/31/2008 (8A29057-BSD1)											
Bis(2-ethylhexyl)phthalate	11.3	5.0	1.7	ug/l	10.0		113	65-130	1	20	
2,4-Dinitrotoluene	10.2	9.0	0.20	ug/l	10.0		102	65-120	9	20	
N-Nitrosodimethylamine	7.74	8.0	0.10	ug/l	10.0		77	45-120	8	20	*J*
Pentachlorophenol	8.24	8.0	0.10	ug/l	10.0		82	50-120	8	25	
2,4,6-Trichlorophenol	8.06	6.0	0.10	ug/l	10.0		81	55-120	5	30	
Surrogate: 2-Fluorophenol	*14.4*			*ug/l*	*20.0*		*72*	*30-120*			
Surrogate: Phenol-d6	*16.3*			*ug/l*	*20.0*		*82*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*19.6*			*ug/l*	*20.0*		*98*	*40-120*			
Surrogate: Nitrobenzene-d5	*7.74*			*ug/l*	*10.0*		*77*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*7.68*			*ug/l*	*10.0*		*77*	*50-120*			

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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: 8A29057 Extracted: 01/29/08											
LCS Dup Analyzed: 01/31/2008 (8A29057-BSD1)											
Surrogate: Terphenyl-d14	*8.94*			*ug/l*	*10.0*		*89*	*50-125*			

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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: 8A29059 Extracted: 01/29/08											
Blank Analyzed: 01/29/2008 (8A29059-BLK1)											
alpha-BHC	ND	0.010	0.0025	ug/l							
Surrogate: Decachlorobiphenyl	*0.417*			*ug/l*	*0.500*		*83*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.376*			*ug/l*	*0.500*		*75*	*35-115*			
LCS Analyzed: 01/29/2008 (8A29059-BS1)											**MNR1**
alpha-BHC	0.450	0.010	0.0025	ug/l	0.500		90	45-115			
Surrogate: Decachlorobiphenyl	*0.459*			*ug/l*	*0.500*		*92*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.392*			*ug/l*	*0.500*		*78*	*35-115*			
LCS Dup Analyzed: 01/29/2008 (8A29059-BSD1)											
alpha-BHC	0.341	0.010	0.0025	ug/l	0.500		68	45-115	28	30	
Surrogate: Decachlorobiphenyl	*0.338*			*ug/l*	*0.500*		*68*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.302*			*ug/l*	*0.500*		*60*	*35-115*			

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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: Routine Outfall 011
Report Number: IRA2565

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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: 8A28076 Extracted: 01/28/08											
Blank Analyzed: 01/28/2008 (8A28076-BLK1)											
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Zinc	ND	20	2.5	ug/l							
LCS Analyzed: 01/28/2008 (8A28076-BS1)											
Cadmium	82.2	1.0	0.11	ug/l	80.0		103	85-115			
Copper	83.7	2.0	0.75	ug/l	80.0		105	85-115			
Lead	82.0	1.0	0.30	ug/l	80.0		102	85-115			
Selenium	79.2	2.0	0.30	ug/l	80.0		99	85-115			
Zinc	82.3	20	2.5	ug/l	80.0		103	85-115			
Matrix Spike Analyzed: 01/28/2008 (8A28076-MS1)						**Source: IRA2324-01**					
Cadmium	81.0	1.0	0.11	ug/l	80.0	ND	101	70-130			
Copper	85.4	2.0	0.75	ug/l	80.0	2.97	103	70-130			
Lead	81.3	1.0	0.30	ug/l	80.0	0.484	101	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Zinc	82.0	20	2.5	ug/l	80.0	4.76	97	70-130			
Matrix Spike Analyzed: 01/28/2008 (8A28076-MS2)						**Source: IRA2432-04**					
Cadmium	78.5	1.0	0.11	ug/l	80.0	ND	98	70-130			
Copper	80.3	2.0	0.75	ug/l	80.0	1.94	98	70-130			
Lead	80.4	1.0	0.30	ug/l	80.0	0.376	100	70-130			
Selenium	79.3	2.0	0.30	ug/l	80.0	3.49	95	70-130			
Zinc	74.2	20	2.5	ug/l	80.0	3.40	89	70-130			
Matrix Spike Dup Analyzed: 01/28/2008 (8A28076-MSD1)						**Source: IRA2324-01**					
Cadmium	80.8	1.0	0.11	ug/l	80.0	ND	101	70-130	0	20	
Copper	84.6	2.0	0.75	ug/l	80.0	2.97	102	70-130	1	20	
Lead	81.9	1.0	0.30	ug/l	80.0	0.484	102	70-130	1	20	
Selenium	75.7	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Zinc	81.1	20	2.5	ug/l	80.0	4.76	95	70-130	1	20	

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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: Routine Outfall 011
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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: 8A28070 Extracted: 01/28/08											
Blank Analyzed: 01/28/2008 (8A28070-BLK1)											
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Zinc	2.87	20	2.5	ug/l							*J*
LCS Analyzed: 01/28/2008 (8A28070-BS1)											
Cadmium	89.6	1.0	0.11	ug/l	80.0		112	85-115			
Copper	82.3	2.0	0.75	ug/l	80.0		103	85-115			
Lead	89.0	1.0	0.30	ug/l	80.0		111	85-115			
Selenium	92.2	2.0	0.30	ug/l	80.0		115	85-115			
Zinc	83.7	20	2.5	ug/l	80.0		105	85-115			
Matrix Spike Analyzed: 01/28/2008 (8A28070-MS1)						**Source: IRA2565-01**					
Cadmium	85.8	1.0	0.11	ug/l	80.0	ND	107	70-130			
Copper	86.7	2.0	0.75	ug/l	80.0	4.82	102	70-130			
Lead	88.0	1.0	0.30	ug/l	80.0	ND	110	70-130			
Selenium	82.5	2.0	0.30	ug/l	80.0	ND	103	70-130			
Zinc	92.4	20	2.5	ug/l	80.0	8.35	105	70-130			
Matrix Spike Dup Analyzed: 01/28/2008 (8A28070-MSD1)						**Source: IRA2565-01**					
Cadmium	88.0	1.0	0.11	ug/l	80.0	ND	110	70-130	3	20	
Copper	88.0	2.0	0.75	ug/l	80.0	4.82	104	70-130	1	20	
Lead	90.0	1.0	0.30	ug/l	80.0	ND	113	70-130	2	20	
Selenium	84.6	2.0	0.30	ug/l	80.0	ND	106	70-130	2	20	
Zinc	93.3	20	2.5	ug/l	80.0	8.35	106	70-130	1	20	

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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

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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: 8A28061 Extracted: 01/28/08											
Blank Analyzed: 01/28/2008 (8A28061-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 01/28/2008 (8A28061-BS1)											
Chloride	4.62	0.50	0.25	mg/l	5.00		92	90-110			*M-3*
Nitrate-N	1.14	0.11	0.060	mg/l	1.13		101	90-110			*M-3*
Nitrite-N	1.45	0.15	0.090	mg/l	1.52		95	90-110			
Sulfate	10.1	0.50	0.20	mg/l	10.0		101	90-110			*M-3*
Matrix Spike Analyzed: 01/28/2008 (8A28061-MS1)						**Source: IRA2565-01**					
Chloride	9.49	0.50	0.25	mg/l	5.00	4.84	93	80-120			
Nitrate-N	4.60	0.11	0.060	mg/l	1.13	3.47	100	80-120			
Nitrite-N	1.58	0.15	0.090	mg/l	1.52	ND	104	80-120			
Sulfate	18.7	0.50	0.20	mg/l	10.0	8.97	97	80-120			
Matrix Spike Analyzed: 01/29/2008 (8A28061-MS2)						**Source: IRA2637-11**					
Nitrite-N	3.37	0.15	0.090	mg/l	1.52	ND	222	80-120			*M1*
Matrix Spike Dup Analyzed: 01/28/2008 (8A28061-MSD1)						**Source: IRA2565-01**					
Chloride	9.45	0.50	0.25	mg/l	5.00	4.84	92	80-120	1	20	
Nitrate-N	4.63	0.11	0.060	mg/l	1.13	3.47	103	80-120	1	20	
Nitrite-N	1.60	0.15	0.090	mg/l	1.52	ND	105	80-120	1	20	
Sulfate	18.7	0.50	0.20	mg/l	10.0	8.97	97	80-120	0	20	

TestAmerica Irvine

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

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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: 8A28071 Extracted: 01/28/08											
Blank Analyzed: 01/28/2008 (8A28071-BLK1)											
Perchlorate	ND	4.0	1.5	ug/l							
LCS Analyzed: 01/28/2008 (8A28071-BS1)											
Perchlorate	54.0	4.0	1.5	ug/l	50.0		108	85-115			
Matrix Spike Analyzed: 01/28/2008 (8A28071-MS1)						**Source: IRA2506-01**					
Perchlorate	55.4	4.0	1.5	ug/l	50.0	ND	111	80-120			
Matrix Spike Dup Analyzed: 01/28/2008 (8A28071-MSD1)						**Source: IRA2506-01**					
Perchlorate	55.2	4.0	1.5	ug/l	50.0	ND	110	80-120	0	20	
Batch: 8A28115 Extracted: 01/28/08											
Blank Analyzed: 01/28/2008 (8A28115-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 01/28/2008 (8A28115-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 01/28/2008 (8A28115-DUP1)						**Source: IRA2560-07**					
Total Suspended Solids	10.0	10	10	mg/l		11.0			10	10	
Batch: 8A28120 Extracted: 01/28/08											
Blank Analyzed: 02/02/2008 (8A28120-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.59	mg/l							

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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

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A28120 Extracted: 01/28/08											
LCS Analyzed: 02/02/2008 (8A28120-BS1)											
Biochemical Oxygen Demand	183	100	30	mg/l	198		92	85-115			
LCS Dup Analyzed: 02/02/2008 (8A28120-BSD1)											
Biochemical Oxygen Demand	184	100	30	mg/l	198		93	85-115	1	20	
Batch: 8A28126 Extracted: 01/28/08											
Blank Analyzed: 01/28/2008 (8A28126-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 01/28/2008 (8A28126-BS1)											
Total Cyanide	197	5.0	2.2	ug/l	200		99	90-110			
Matrix Spike Analyzed: 01/28/2008 (8A28126-MS1)						**Source: IRA2156-01**					
Total Cyanide	203	5.0	2.2	ug/l	200	ND	101	70-115			
Matrix Spike Dup Analyzed: 01/28/2008 (8A28126-MSD1)						**Source: IRA2156-01**					
Total Cyanide	199	5.0	2.2	ug/l	200	ND	99	70-115	2	15	
Batch: 8A28127 Extracted: 01/28/08											
Blank Analyzed: 01/28/2008 (8A28127-BLK1)											
Surfactants (MBAS)	ND	0.10	0.044	mg/l							
LCS Analyzed: 01/28/2008 (8A28127-BS1)											
Surfactants (MBAS)	0.258	0.10	0.044	mg/l	0.250		103	90-110			

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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

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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: 8A28127 Extracted: 01/28/08											
Matrix Spike Analyzed: 01/28/2008 (8A28127-MS1)						**Source: IRA2565-01**					
Surfactants (MBAS)	0.317	0.10	0.044	mg/l	0.250	0.0583	104	50-125			
Matrix Spike Dup Analyzed: 01/28/2008 (8A28127-MSD1)						**Source: IRA2565-01**					
Surfactants (MBAS)	0.312	0.10	0.044	mg/l	0.250	0.0583	102	50-125	1	20	
Batch: 8A29082 Extracted: 01/29/08											
Blank Analyzed: 01/29/2008 (8A29082-BLK1)											
Turbidity	0.110	1.0	0.040	NTU							*J*
Duplicate Analyzed: 01/29/2008 (8A29082-DUP1)						**Source: IRA2565-01**					
Turbidity	64.0	5.0	0.20	NTU		60.0			6	20	
Batch: 8A29110 Extracted: 01/29/08											
Blank Analyzed: 01/29/2008 (8A29110-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 01/29/2008 (8A29110-BS1)											
Ammonia-N (Distilled)	10.1	0.50	0.30	mg/l	10.0		101	80-115			
Matrix Spike Analyzed: 01/29/2008 (8A29110-MS1)						**Source: IRA2355-01**					
Ammonia-N (Distilled)	10.4	0.50	0.30	mg/l	10.0	ND	104	70-120			
Matrix Spike Dup Analyzed: 01/29/2008 (8A29110-MSD1)						**Source: IRA2355-01**					
Ammonia-N (Distilled)	10.6	0.50	0.30	mg/l	10.0	ND	106	70-120	3	15	

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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
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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: 8A31072 Extracted: 01/31/08											
Duplicate Analyzed: 01/31/2008 (8A31072-DUP1)						**Source: IRA2944-01**					
Specific Conductance	128	1.0	1.0	umhos/cm		128			0	5	
Batch: 8A31077 Extracted: 01/31/08											
Blank Analyzed: 01/31/2008 (8A31077-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 01/31/2008 (8A31077-BS1)											
Total Dissolved Solids	1000	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 01/31/2008 (8A31077-DUP1)						**Source: IRA2619-03**					
Total Dissolved Solids	ND	10	10	mg/l		ND				10	
Batch: 8B05016 Extracted: 02/05/08											
Blank Analyzed: 02/05/2008 (8B05016-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 02/05/2008 (8B05016-BS1)											**MNR1**
Hexane Extractable Material (Oil & Grease)	19.9	5.0	1.4	mg/l	20.2		99	78-114			
LCS Dup Analyzed: 02/05/2008 (8B05016-BSD1)											
Hexane Extractable Material (Oil & Grease)	20.3	5.0	1.4	mg/l	20.2		100	78-114	2	11	

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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
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METHOD BLANK/QC DATA

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: W8A1034 Extracted: 01/29/08											
Blank Analyzed: 01/30/2008 (W8A1034-BLK1)											
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
LCS Analyzed: 01/30/2008 (W8A1034-BS1)											
Mercury, Dissolved	0.986	0.20	0.050	ug/l	1.00		99	85-115			
Mercury, Total	0.986	0.20	0.050	ug/l	1.00		99	85-115			
Matrix Spike Analyzed: 01/30/2008 (W8A1034-MS1)						**Source: IRA2565-01**					
Mercury, Dissolved	2.06	0.40	0.10	ug/l	2.00	ND	103	70-130			
Mercury, Total	2.06	0.40	0.10	ug/l	2.00	ND	103	70-130			
Matrix Spike Dup Analyzed: 01/30/2008 (W8A1034-MSD1)						**Source: IRA2565-01**					
Mercury, Dissolved	2.02	0.40	0.10	ug/l	2.00	ND	101	70-130	2	20	
Mercury, Total	2.02	0.40	0.10	ug/l	2.00	ND	101	70-130	2	20	

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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
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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
IRA2565-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	1.63	4.8	10
IRA2565-01	608-Pest Boeing 001/002 Q (LL)	alpha-BHC	ug/l	0	0.0094	0.01
IRA2565-01	625-Boeing 001/002 Q-LL	2,4,6-Trichlorophenol	ug/l	0	5.7	6.5
IRA2565-01	625-Boeing 001/002 Q-LL	2,4-Dinitrotoluene	ug/l	0	8.5	9.1
IRA2565-01	625-Boeing 001/002 Q-LL	Bis(2-ethylhexyl)phthalate	ug/l	1.40	4.7	4
IRA2565-01	625-Boeing 001/002 Q-LL	N-Nitrosodimethylamine	ug/l	0	7.5	8.1
IRA2565-01	625-Boeing 001/002 Q-LL	Pentachlorophenol	ug/l	0	7.5	8.2
IRA2565-01	Ammonia-N, Titr (350.2) w/dist	Ammonia-N (Distilled)	mg/l	0.28	0.50	2
IRA2565-01	BOD	Biochemical Oxygen Demand	mg/l	2.15	2.0	20
IRA2565-01	Cadmium-200.8	Cadmium	ug/l	0.20	1.0	2
IRA2565-01	Chloride - 300.0	Chloride	mg/l	4.84	0.50	150
IRA2565-01	Copper-200.8	Copper	ug/l	5.34	2.0	7.1
IRA2565-01	Cyanide-335.2 5ppb	Total Cyanide	ug/l	-1	5.0	5
IRA2565-01	Hg_w 245.1	Mercury, Total	ug/l	0.029	0.20	0.2
IRA2565-01	**Lead-200.8**	**Lead**	**ug/l**	**3.88**	**1.0**	**2.6**
IRA2565-01	MBAS - SM5540-C	Surfactants (MBAS)	mg/l	0.058	0.10	0.5
IRA2565-01	Nitrate-N, 300.0	Nitrate-N	mg/l	3.47	0.11	8
IRA2565-01	Nitrite-N, 300.0	Nitrite-N	mg/l	0	0.15	1
IRA2565-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	3.47	0.26	8
IRA2565-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	4.0	6
IRA2565-01	Selenium-200.8	Selenium	ug/l	0.24	2.0	4.1
IRA2565-01	Settleable Solids	Total Settleable Solids	ml/l/hr	0	0.10	0.1
IRA2565-01	Sulfate-300.0	Sulfate	mg/l	8.97	0.50	300
IRA2565-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	100	10	950
IRA2565-01	**TSS - EPA 160.2**	**Total Suspended Solids**	**mg/l**	**43**	**10**	**15**
IRA2565-01	**Zinc-200.8**	**Zinc**	**ug/l**	**59**	**20**	**54**

Compliance Check

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LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit

TestAmerica Irvine

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
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Project ID: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Irvine

Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 120.1	Water	X	X
EPA 160.2	Water	X	X
EPA 160.5	Water	X	X
EPA 1664A	Water		
EPA 180.1	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 335.2	Water	X	X
EPA 350.2	Water		X
EPA 405.1	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
SM2540C	Water	X	
SM5540-C	Water	X	X

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

Subcontracted Laboratories

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

Analysis Performed: Bioassay-7 dy Chrnic
Samples: IRA2565-01

TestAmerica Irvine

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: Routine Outfall 011
Report Number: IRA2565

Sampled: 01/27/08
Received: 01/28/08

Eberline Services - SUB

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gamma Spec
Samples: IRA2565-01

Analysis Performed: Gross Alpha
Samples: IRA2565-01

Analysis Performed: Gross Beta
Samples: IRA2565-01

Analysis Performed: Radium, Combined
Samples: IRA2565-01

Analysis Performed: Strontium 90
Samples: IRA2565-01

Analysis Performed: Tritium
Samples: IRA2565-01

Analysis Performed: Uranium, Combined
Samples: IRA2565-01

Vista Analytical *NELAC Cert #02102CA, California Cert #1640, Nevada Cert #CA-413*

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta
Samples: IRA2565-01

Weck Laboratories, Inc

14859 E. Clark Avenue - City of Industry, CA 91745

Method Performed: EPA 245.1
Samples: IRA2565-01

TestAmerica Irvine

Joseph Doak
Project Manager

IRA 2565

Test America Version 12/20/07 CHAIN OF CUSTODY FORM

IRA 2565

Client Name/Address.	Project:
MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 011**
Project Manager: Bronwyn Kelly Sampler:	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 Cu, Pb, Hg, Cd, Se, Zn	Settleable Solids	TCDD (and all congeners)	Oil & Grease (1664-HEM)	Cyanide (total recoverable)	BOD_5 (20 degrees C)	Surfactants (MBAS)	Cl, SO_4, NO_3+NO_2-N, Perchlorate	Nitrate-N, Nitrite-N	Turbidity, TDS, TSS, Conductivity	Ammonia-N (350.2)	Alpha BHC (608)	2,4,6 TCP, 2,4 Dinitrotoluene Bis(2- ethylhexyl)phthalate, NDMA, PCP (SVOCs 625)	Comments
							ANALYSIS REQUIRED													
Outfall 011	W	1L Poly	1	1/27/8 0900	HNO_3	1A	X													24 TAT
Outfall 011 Dup	W	1L Poly	1	1/27/8 0900	HNO_3	1B	X													24 TAT
Outfall 011	W	1L Poly	1	1/27/8 0900	None	2		X												
Outfall 011	W	1L Amber	2	1/27/8 0900	None	3A, 3B			X											
Outfall 011	W	1L Amber	2	1/27/8 0900	HCl	4A, 4B				X										
Outfall 011	W	500 ml Poly	1	1/27/8 0900	NaOH	5					X									
Outfall 011	W	1L Poly	1	1/27/8 0900	None	6						X								
Outfall 011	W	500 ml Poly	2	1/27/8 0900	None	7A, 7B							X							
Outfall 011	W	500 ml Poly	2	1/27/8 0900	None	8A, 8B								X						24 TAT
Outfall 011	W	500 ml Poly	1	1/27/8 0900	None	9									X					24 TAT
Outfall 011	W	500 ml Poly	2	1/27/8 0900	None	10A, 10B										X				
Outfall 011	W	500 ml Poly	1	1/27/8 0900	H_2SO_4	11											X			
Outfall 011	W	1L Amber	2	1/27/8 0900	None	12A, 12B												X		
Outfall 011	W	1L Amber	2	1/27/8 0900	None	13A, 13B													X	

Field readings.
Temp = 10.6 °C
pH = 7.6
Time of readings =

Relinquished By	Date/Time:	Received By	Date/Time:
Jaemarie Sad	01/27/08 1200		1-27-08 1200
Relinquished By	Date/Time:	Received By	Date/Time:
	1-27-08 1535		
Relinquished By	Date/Time:	Received By	Date/Time:

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal _____

Sample Integrity: (check)
Intact _____ On Ice: _____

RG 1.28.08 0730

#358

NPDES - 2771

Test America Version 12/20/07 CHAIN OF CUSTODY FORM

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Avenue Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 011**
Project Manager: Bronwyn Kelly Sampler:	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	VOCs 624 + xylenes	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: Cu Pb, Hg, Cd, Se, Zn	**Comments**
Outfall 011	W	VOAs	5	1/27/8 0900	HCl	14A, 14B, 14C, 14D, 14E	X				
Outfall 011	W	2.5 Gal Cube 500 ml Amber	1 1	1/27/8 0900	None None	15A 15B		X			Unfiltered and unpreserved analysis
Outfall 011	W	1 Gal Cube	1	1/27/8 0900	None	16			X		**Only test if second rain event of the year**
Outfall 011	W	1L Poly	1	1/27/8 0900	None	17				X	Filter w/in 24hrs of receipt at lab
Trip Blanks	W	VOAs	3	1/27/8 0900	HCl	18A, 18B, 18C	X				

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	01/27/08 1200	[signature]	1-27-08 1200
[signature]	1-27-08 1535		

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal _____

Sample Integrity: (check)
Intact _____ On Ice: _____

NPDES - 2772

#358

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 5, 2008

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

Laboratory No.: A-08012801-001
Sample ID.: IRA2565-01 (Outfall 011)

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

Date Sampled:	01/27/08
Date Received:	01/28/08
Temp. Received:	2°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	01/28/08 to 02/04/08

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:

Chronic:	**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-08012801-001
Client/ID: Test America – IRA2565-01 (Outfall 011)

Date Tested: 01/28/08 to 02/04/08

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-080106.

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

RESULTS SUMMARY

Sample Concentration	Percent Survival	Mean Number of Young Per Female
Control	100%	27.9
100% Sample	100%	30.0
Sample not statistically significantly less than Control for either endpoint.		

CHRONIC TOXICITY

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

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% survival)
≥15 young per surviving control female	Pass (27.9 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD <47% for reproduction; if >47% and no toxicity at IWC, the test must be repeated	Pass (PMSD = 5.7%)
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:	1/28/2008 15:00	Test ID:	8012801	Sample ID:	Outfall 011
End Date:	2/4/2008 15:30	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	EFF2-Industrial
Sample Date:	1/27/2008 09:00	Protocol:	FWCH 4TH-EPA-821-R-02-0	Test Species:	CD-Ceriodaphnia dubia

Comments:

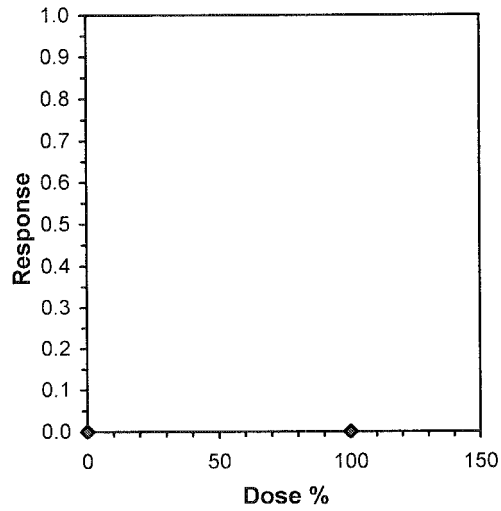
Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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			



ToxCalc v5.0.23

Reviewed by:

NPDES - 2775

Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date:	1/28/2008 15:00	Test ID:	8012801	Sample ID:	Outfall 011
End Date:	2/4/2008 15:30	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	EFF2-Industrial
Sample Date:	1/27/2008 09:00	Protocol:	FWCH 4TH-EPA-821-R-02-0	Test Species:	CD-Ceriodaphnia dubia
Comments:					

Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	28.000	26.000	29.000	27.000	28.000	27.000	28.000	30.000	30.000	26.000
100	35.000	30.000	32.000	31.000	28.000	28.000	29.000	26.000	30.000	31.000

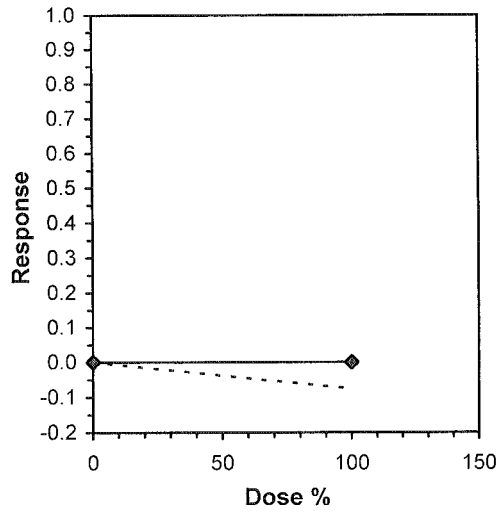
			Transform: Untransformed					1-Tailed			Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
D-Control	27.900	1.0000	27.900	26.000	30.000	5.194	10				28.950	1.0000
100	30.000	1.0753	30.000	26.000	35.000	8.315	10	-2.302	1.734	1.582	28.950	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.96092	0.905	0.43843	1.10812
F-Test indicates equal variances (p = 0.12)	2.96296	6.54109		

Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	1.58192	0.0567	22.05	4.16111	0.03349	1, 18
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			



ToxCalc v5.0.23

Reviewed by:

NPDES - 2776

CERIODAPHNIA DUBIA CHRONIC BIOASSAY
EPA METHOD 1002.0 Raw Data Sheet

Aquatic Testing Laboratories

Lab No.: A-08012801-001
Client ID: TestAmerica - IRA2565-01 (Outfall 011)
Start Date: 01/28/2008

		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:		1500	1500	1500	1500	1500	1600	1600	1500	1500	1530	1530	1500	1400	1530
Control	DO	7.9	8.2	8.9	8.4	8.1	8.5	8.2	8.4	8.0	8.1	8.1	8.2	7.8	8.0
	pH	7.8	7.9	8.0	7.6	7.8	7.7	7.7	7.7	7.6	7.8	7.6	7.7	7.6	7.7
	Temp	24.2	25.1	24.6	25.0	24.6	24.9	25.1	24.5	25.0	24.8	25.4	24.8	24.6	25.1
100%	DO	9.9	7.9	10.0	8.4	10.2	8.5	9.3	8.4	10.8	8.2	11.2	8.2	10.1	8.3
	pH	7.2	7.2	7.3	7.1	7.1	7.0	7.1	7.1	6.7	7.0	6.5	7.0	7.0	7.0
	Temp	24.3	25.1	24.6	25.1	24.8	24.8	24.2	24.5	24.2	24.8	24.4	24.8	24.9	25.2

Additional Parameters	Control	100% Sample
Conductivity (umohms)	310	117
Alkalinity (mg/l $CaCO_3$)	67	24
Hardness (mg/l $CaCO_3$)	97	48
Ammonia (mg/l NH_3-N)	<0.1	0.2

Source of Neonates

Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	1A	1B	1E	2H	3B	3F	3J	4G	6C	6E

Sample	Day	Number of Young Produced A	B	C	D	E	F	G	H	I	J	Total Live Young	No. Live Adults	Analyst Initials
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	5	3	4	4	4	4	3	4	3	39	10	
	4	0	0	10	0	6	0	0	11	0	0	27	10	
	5	8	7	0	8	0	7	9	0	8	8	55	10	
	6	0	0	16	15	0	0	15	16	0	0	62	10	
	7	15	14	(12)	(16)	18	16	(15)	(17)	18	15	96	10	
	Total	28	26	29	27	28	27	28	30	30	26	279	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	5	4	4	3	4	4	3	3	3	3	36	10	
	4	11	8	0	9	10	9	10	8	11	12	88	10	
	5	0	18	10	0	14	0	0	0	16	14	72	10	
	6	19	0	18	19	0	17	16	15	0	0	104	10	
	7	(16)	(19)	(19)	(20)	(16)	(16)	(17)	(12)	(16)	(19)	0	10	
	Total	35	30	32	31	28	28	29	26	30	31	300	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.

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2565

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: California
Receipt Temperature: 2 °C   Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2565-01	**Water**		Sampled: **01/27/08 09:00**	
Bioassay-7 dy Chrnic	N/A	02/06/08	01/28/08 21:00	Cerio, EPA/821-R02-013, Sub to Aquatic testing

Containers Supplied:
1 gal Poly (AC)

Rody Guerra	01/28/08 0700	Emilio Acuña TAI	01/28/08 0700
Released By	Date/Time	Received By	Date/Time
Emilio Acuña TAI	01/28/08 1200	[signature] ATL	1-28-08 1200
Released By	Date/Time	Received By	Date/Time

Aquatic
Testing
Laboratories

REFERENCE TOXICANT DATA

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl

Aquatic Testing Laboratories

QA/QC Batch No.: RT-080106

Date Tested: 01/06/08 to 01/12/08

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: 6 days.
Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival		Mean Number of Young Per Female	
Control	100%		20.5	
0.25 g/l	100%		19.5	
0.5 g/l	100%		19.5	
1.0 g/l	100%		14.0	*
2.0 g/l	80%		3.2	*
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	2.5 g/l
Reproduction IC25	0.88 g/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% Survival)
≥15 young per surviving control female	Pass (20.5 young)
≥60% surviving controls had 3 broods	Pass (90% with 3 broods)
PMSD <47% for reproduction	Pass (PMSD = 19.1%)
Stat. sig. diff. conc. relative difference >13%	Pass (Stat. sig. diff. conc. = 31.7%)
Concentration response relationship acceptable	Pass (Response curve normal)

Ceriodaphnia Survival and Reproduction Test-Survival Day 6

Start Date:	1/6/2008 13:00	Test ID:	RT-080106c	Sample ID:	REF-Ref Toxicant
End Date:	1/12/2008 13:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	NACL-Sodium chloride
Sample Date:	1/6/2008	Protocol:	FWCH-EPA-821-R-02-013	Test Species:	CD-Ceriodaphnia dubia
Comments:					

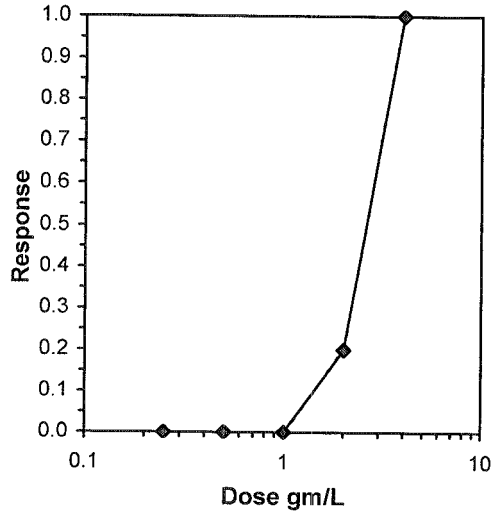
Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	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	0.0000	0.0000
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	0.8000	0.8000	2	8	10	10	0.2368	0.0500	2	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				

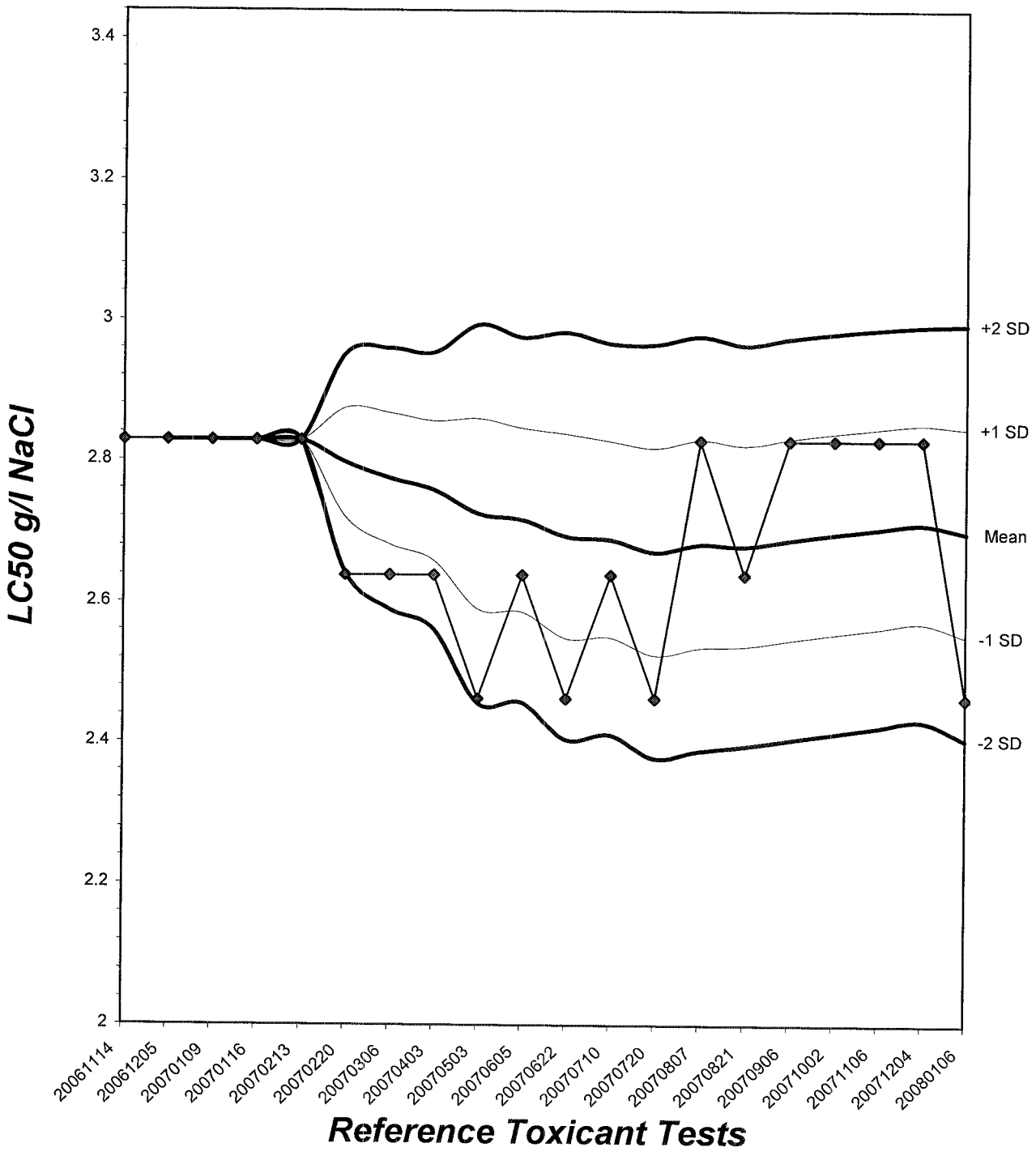
Trimmed Spearman-Karber

Trim Level	EC50	95% CL	
0.0%	2.4623	2.0663	2.9342
5.0%	2.5108	2.0545	3.0683
10.0%	2.5519	1.9976	3.2599
20.0%	2.5937	2.2616	2.9745
Auto-0.0%	2.4623	2.0663	2.9342



Ceriodaphnia dubia Chronic Survival Laboratory Control Chart

CV% = 5.46



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date:	1/6/2008 13:00	Test ID:	RT-080106c	Sample ID:	REF-Ref Toxicant
End Date:	1/12/2008 13:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	NACL-Sodium chloride
Sample Date:	1/6/2008	Protocol:	FWCH-EPA-821-R-02-013	Test Species:	CD-Ceriodaphnia dubia
Comments:					

Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	23.000	11.000	21.000	21.000	23.000	20.000	19.000	22.000	20.000	25.000
0.25	12.000	24.000	19.000	22.000	9.000	20.000	21.000	21.000	22.000	25.000
0.5	21.000	19.000	21.000	22.000	16.000	12.000	22.000	21.000	22.000	19.000
1	19.000	9.000	9.000	19.000	14.000	10.000	16.000	17.000	19.000	8.000
2	8.000	2.000	2.000	5.000	4.000	3.000	3.000	5.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

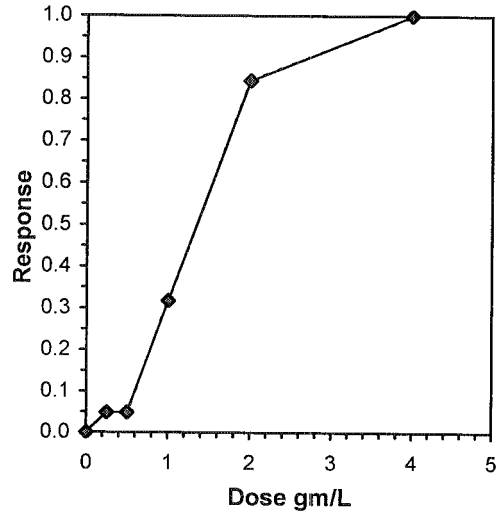
			Transform: Untransformed					Rank	1-Tailed	Isotonic	
Conc-gm/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
D-Control	20.500	1.0000	20.500	11.000	25.000	18.432	10			20.500	1.0000
0.25	19.500	0.9512	19.500	9.000	25.000	26.177	10	102.00	76.00	19.500	0.9512
0.5	19.500	0.9512	19.500	12.000	22.000	16.617	10	94.50	76.00	19.500	0.9512
*1	14.000	0.6829	14.000	8.000	19.000	32.819	10	62.50	76.00	14.000	0.6829
*2	3.200	0.1561	3.200	0.000	8.000	76.263	10	55.00	76.00	3.200	0.1561
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)	0.91281	0.947	-0.9793	0.67912
Bartlett's Test indicates equal variances (p = 0.25)	5.39	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)

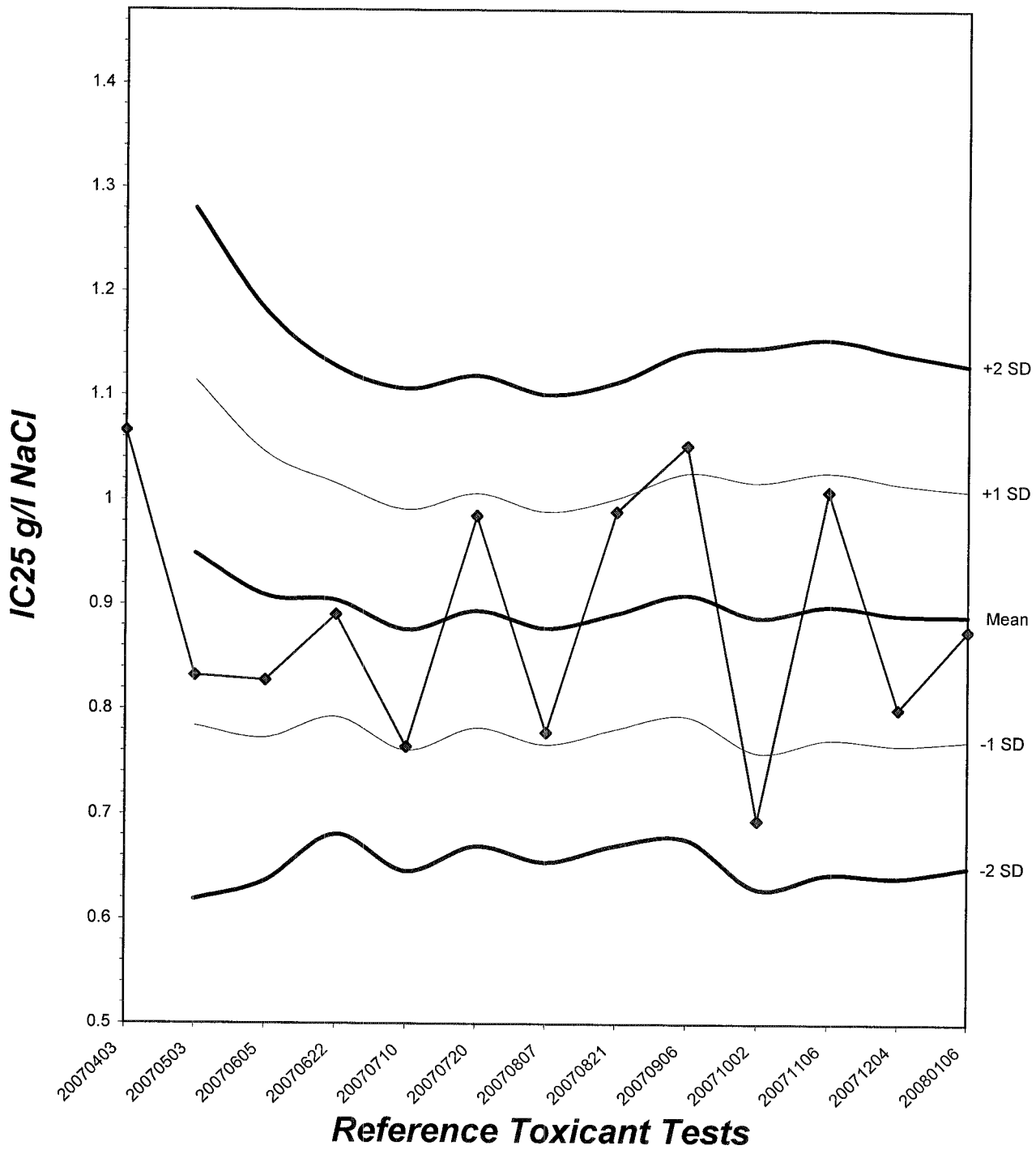
Point	gm/L	SD	95% CL		Skew
IC05	0.5023	0.1876	0.0809	0.6178	-0.0659
IC10	0.5955	0.1768	0.1617	0.7497	-0.5184
IC15	0.6886	0.1424	0.2426	0.9253	-0.5389
IC20	0.7818	0.1259	0.4995	1.0352	0.2728
IC25	0.8750	0.1224	0.6413	1.1094	0.3153
IC40	1.1574	0.1139	0.9216	1.3331	-0.0890
IC50	1.3472	0.0972	1.1197	1.4847	-0.4227



Reviewed by: _____

Ceriodaphnia dubia Chronic Reproduction Laboratory Control Chart

CV% = 13.5



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
Reference Toxicant - NaCl
Reproduction and Survival Raw Data Sheet

Aquatic Testing Laboratories

QA/QC No.: RT-080106

Start Date: 01/06/2008

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	0	0	2	0	0	0	3	0	3	0	8	10	
	4	4	3	0	4	3	2	0	2	0	3	21	10	
	5	9	8	7	7	6	7	6	7	6	7	70	10	
	6	10	0	12	10	14	11	10	13	11	15	106	10	
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	23	11	21	21	23	20	19	22	20	25	205	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	3	0	3	0	2	0	0	3	0	11	10	
	4	4	0	2	0	3	6	4	2	0	3	24	10	
	5	8	8	7	5	6	0	7	6	7	8	62	10	
	6	0	13	10	14	0	12	10	13	12	14	98	10	
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	12	24	19	22	9	20	21	21	22	25	195	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	2	0	0	0	3	2	0	0	9	10	
	4	0	3	0	3	4	3	0	0	3	3	19	10	
	5	9	6	7	7	0	9	8	7	7	6	66	10	
	6	10	10	12	12	12	0	11	12	12	10	101	10	
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	21	19	21	22	16	12	22	21	22	19	195	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-080106

Start Date: 01/06/2008

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	0	0	0	0	0	3	0	0	2	0	5	10	
	4	3	2	2	3	0	0	3	2	0	2	17	10	
	5	5	7	7	4	5	7	5	4	7	6	57	10	
	6	11	0	0	12	9	0	8	11	10	0	61	10	
	7	–	–	–	–	–	–	–	–	–	–	–	–	–
	Total	19	9	9	19	14	10	16	17	19	8	140	10	
2.0 g/l	1	0	0	0	0	0	0	0	0	X	0	0	9	
	2	0	0	0	0	0	0	0	0	–	0	0	9	
	3	0	0	0	0	0	0	0	0	–	0	0	9	
	4	2	0	2	3	0	0	0	2	–	0	9	9	
	5	3	0	0	2	2	3	3	0	–	0	13	9	
	6	3	2	0	0	2	0	0	3	–	X	10	8	
	7	–	–	–	–	–	–	–	–	–	–	–	–	–
	Total	8	2	2	5	4	3	3	5	0	0	32	8	
4.0 g/l	1	X	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.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY
Reference Toxicant - NaCl
Water Chemistries Raw Data Sheet

Aquatic Testing Laboratories

QA/QC No.: RT-080106

Start Date: 01/06/2008

		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:		1330	1330	1330	1330	1330	1230	1230	1300	1330	1330	1330	1330	—	—
Control	DO	7.6	7.2	7.4	7.7	7.4	7.6	7.4	7.5	8.2	7.8	7.9	7.7	—	—
	pH	7.6	7.4	7.4	7.3	7.3	7.2	7.2	7.7	7.5	7.6	7.9	7.6	—	—
	Temp	24.3	25.1	25.4	24.8	24.1	24.5	24.9	25.1	24.4	25.0	24.6	25.1	—	—
0.25 g/l	DO	7.5	7.3	7.5	7.5	7.5	7.7	7.3	7.4	8.2	7.8	7.9	7.7	—	—
	pH	7.5	7.3	7.4	7.4	7.4	7.2	7.3	7.4	7.6	7.5	7.6	7.7	—	—
	Temp	24.4	25.2	25.3	24.5	24.2	24.5	24.7	25.0	24.4	25.1	24.6	25.1	—	—
0.5 g/l	DO	7.4	7.2	7.4	7.6	7.4	7.5	7.4	7.6	8.5	7.6	8.0	7.8	—	—
	pH	7.5	7.3	7.4	7.4	7.4	7.2	7.3	7.5	7.6	7.5	7.7	7.7	—	—
	Temp	24.3	25.1	25.3	24.5	24.1	25.2	24.6	24.5	24.4	24.5	24.4	24.5	—	—
1.0 g/l	DO	7.5	7.2	7.6	7.7	7.3	7.8	7.4	7.4	8.4	7.8	7.7	7.7	—	—
	pH	7.5	7.3	7.6	7.5	7.4	7.2	7.3	7.5	7.6	7.6	7.5	7.6	—	—
	Temp	24.4	25.2	25.1	24.7	24.2	25.2	24.6	25.0	24.4	24.9	24.6	25.0	—	—
2.0 g/l	DO	7.4	7.4	7.6	7.5	7.4	7.8	7.2	7.6	8.2	7.6	7.6	7.7	—	—
	pH	7.5	7.4	7.6	7.6	7.4	7.3	7.2	7.6	7.5	7.6	7.9	7.6	—	—
	Temp	24.5	25.1	25.0	24.6	24.2	25.3	24.8	25.2	24.4	24.8	24.6	25.1	—	—
4.0 g/l	DO	7.5	7.8	—	—	—	—	—	—	—	—	—	—	—	—
	pH	7.6	7.8	—	—	—	—	—	—	—	—	—	—	—	—
	Temp	24.3	24.6	—	—	—	—	—	—	—	—	—	—	—	—

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)	350	348	305	6400	3100	3210
Alkalinity (mg/l $CaCO_3$)	66	65	63	65	66	64
Hardness (mg/l $CaCO_3$)	98	92	98	98	92	98

Source of Neonates

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

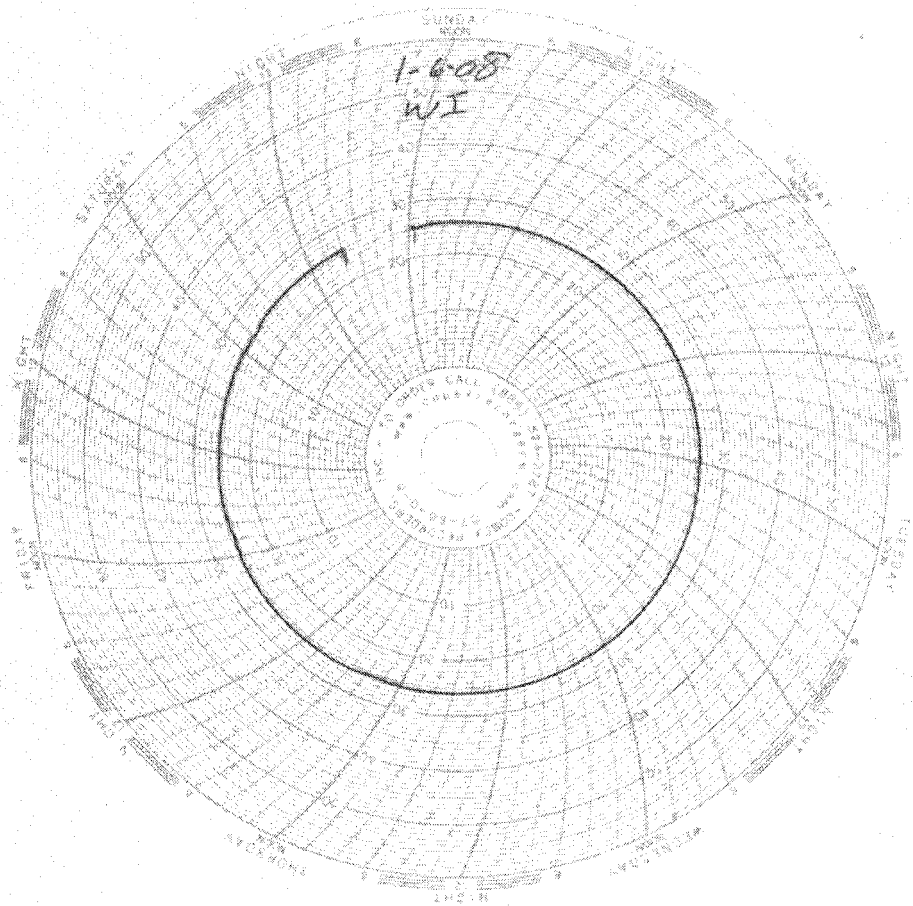
Aquatic Testing Laboratories

Laboratory Temperature Chart

QA/QC Batch No: RT-080106

Date Tested: 01/06/08 to 01/12/08

Acceptable Range: 25+/- 1°C



EBERLINE
SERVICES

February 27 2008

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

Reference: Eberline Services NELAP Cert #01120CA
Test America Project Nos. IRA2496, IRA2497, IRA2499, IRA2500
IRA2506, IRA2565
Eberline Services Reports R801170-8687, R801171-8688, R801172-8689
R801173-8690, R801174-8691, R801175-8692

Dear Mr. Doak:

Enclosed are results from the analyses of six water samples received on January 29, 2008. The samples were analyzed according to the accompanying Test America Subcontract Order Forms, the requested analyses were: gross alpha/gross beta (EPA 900.0), tritium (H-3, EPA906.0), Sr-90 (EPA905.0), Ra-226 (EPA903.1), Ra-228 (EPA 904.0), total uranium (ASTM D-5174), and gamma spectroscopy (EPA901.1, K-40 and Cs-137 only). The parenthetical G after a nuclide indicates that the result was obtained by gamma spectroscopy; a "U" in the results column indicates that the nuclide was not detected greater than the indicated minimum detectable activity (MDA). The samples were not filtered prior to analysis. The samples were analyzed in batches with common QC samples. All samples were batched with QC samples 8687-002, 003, 004, and 005, except for total uranium analysis; the QC samples for total-U analysis are 8682-002, 003, 004, and 005. Batch quality control samples consisted of LCS's, blank analyses, duplicate analyses, and matrix spike analyses (gross alpha/gross beta, H-3, Ra-226, Total-U only). All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual.

Please call me if you have any questions concerning this report.

Regards,

Melissa Mannion

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: Reports/CoC's

Analytical Services
2030 Wright Avenue
P.O. Box 4040
Richmond, California 94804-0040
(510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com

Eberline Services

ANALYSIS RESULTS

SDG 8692
Work Order R801175-01
Received Date 01/29/08

Client TA IRVINE
Contract PROJECT# IRA2565
Matrix WATER

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
IRA2565-01	8692-001	01/27/08	02/16/08	GrossAlpha	1.29 ± 0.48	pCi/L	0.57
			02/16/08	Gross Beta	3.03 ± 0.60	pCi/L	0.87
			02/20/08	Ra-228	-0.085 ± 0.18	pCi/L	0.51
			02/15/08	K-40 (G)	U	pCi/L	55
			02/15/08	Cs-137 (G)	U	pCi/L	2.0
			02/21/08	H-3	-90.4 ± 92	pCi/L	160
			02/20/08	Ra-226	-0.114 ± 0.38	pCi/L	0.83
			02/14/08	Sr-90	-0.007 ± 0.26	pCi/L	0.54
			02/19/08	Total U	0.101 ± 0.015	pCi/L	0.022

Certified by
Report Date 02/27/08

Eberline Services

QC RESULTS

SDG 8692 | Client TA IRVINE
Work Order R801175-01 | Contract PROJECT# IRA2565
Received Date 01/29/08 | Matrix WATER

Lab Sample ID	Nuclide	Results	Units	Amount Added	MDA	Evaluation
LCS						
8682-002	GrossAlpha	10.6 ± 0.84	pCi/Smpl	10.1	0.29	105% recovery
	Gross Beta	9.49 ± 0.38	pCi/Smpl	9.39	0.29	101% recovery
	Ra-228	8.69 ± 0.54	pCi/Smpl	8.73	0.75	100% recovery
	Co-60 (G)	223 ± 11	pCi/Smpl	226	7.0	99% recovery
	Cs-137 (G)	253 ± 11	pCi/Smpl	236	8.1	107% recovery
	Am-241 (G)	215 ± 37	pCi/Smpl	252	47	85% recovery
	H-3	228 ± 14	pCi/Smpl	240	16	95% recovery
	Ra-226	5.92 ± 0.27	pCi/Smpl	5.58	0.085	106% recovery
	Sr-90	9.45 ± 0.73	pCi/Smpl	9.40	0.32	101% recovery
	Total U	1.06 ± 0.12	pCi/Smpl	1.13	0.004	94% recovery
BLANK						
8682-003	GrossAlpha	0.006 ± 0.13	pCi/Smpl	NA	0.25	<MDA
	Gross Beta	-0.090 ± 0.27	pCi/Smpl	NA	0.44	<MDA
	Ra-228	-0.089 ± 0.33	pCi/Smpl	NA	0.78	<MDA
	K-40 (G)	U	pCi/Smpl	NA	190	<MDA
	Cs-137 (G)	U	pCi/Smpl	NA	7.4	<MDA
	H-3	-4.88 ± 9.0	pCi/Smpl	NA	15	<MDA
	Ra-226	-0.014 ± 0.026	pCi/Smpl	NA	0.071	<MDA
	Sr-90	0.078 ± 0.24	pCi/Smpl	NA	0.54	<MDA
	Total U	0.00E 00 ± 1.9E-04	pCi/Smpl	NA	4.4E-04	<MDA
LCS						
8687-002	GrossAlpha	13.1 ± 0.92	pCi/Smpl	11.2	0.23	117% recovery
	Gross Beta	11.4 ± 0.46	pCi/Smpl	11.3	0.44	101% recovery
	Ra-228	10.3 ± 0.62	pCi/Smpl	9.87	0.85	104% recovery
	Co-60 (G)	504 ± 11	pCi/Smpl	525	6.4	96% recovery
	Cs-137 (G)	586 ± 10	pCi/Smpl	566	6.9	104% recovery
	Am-241 (G)	602 ± 20	pCi/Smpl	610	23	99% recovery
	H-3	250 ± 15	pCi/Smpl	263	16	95% recovery
	Ra-226	5.35 ± 0.25	pCi/Smpl	5.58	0.082	96% recovery
	Sr-90	10.7 ± 0.79	pCi/Smpl	10.3	0.34	104% recovery
BLANK						
8687-003	GrossAlpha	0.023 ± 0.14	pCi/Smpl	NA	0.25	<MDA
	Gross Beta	-0.044 ± 0.15	pCi/Smpl	NA	0.26	<MDA
	Ra-228	-0.313 ± 0.39	pCi/Smpl	NA	1.1	<MDA

Certified by _____
Report Date 02/27/08

Eberline Services

SDG 8692 | Client TA IRVINE
Work Order R801175-01 | Contract PROJECT# IRA2565
Received Date 01/29/08 | Matrix WATER

K-40 (G)	U	pCi/Smpl	NA	26	<MDA
Cs-137 (G)	U	pCi/Smpl	NA	2.2	<MDA
H-3	-7.14 ± 9.0	pCi/Smpl	NA	16	<MDA
Ra-226	-0.013 ± 0.036	pCi/Smpl	NA	0.081	<MDA
Sr-90	0.036 ± 0.20	pCi/Smpl	NA	0.45	<MDA

DUPLICATES

Sample ID	Nuclide	Results ± 2σ	MDA
8682-004	GrossAlpha	3.13 ± 2.1	2.2
	Gross Beta	42.1 ± 2.3	2.1
	Ra-228	0.070 ± 0.15	0.42
	K-40 (G)	42.6 ± 18	9.6
	Cs-137 (G)	U	0.92
	H-3	-73.7 ± 92	160
	Ra-226	0.111 ± 0.44	0.80
	Sr-90	-0.108 ± 0.44	1.1
	Total U	2.88 ± 0.32	0.022
8687-004	GrossAlpha	2.52 ± 1.2	1.5
	Gross Beta	4.02 ± 1.0	1.5
	Ra-228	0.123 ± 0.17	0.47
	K-40 (G)	U	35
	Cs-137 (G)	U	1.5
	H-3	-114 ± 91	160
	Ra-226	-0.221 ± 0.37	0.81
	Sr-90	-0.019 ± 0.24	0.58

ORIGINALS

Sample ID	Results ± 2σ	MDA	RPD	3σ (Tot)	Eval
8682-001	2.52 ± 2.0	2.4	22	160	satis.
	42.3 ± 2.4	2.4	0	44	satis.
	0.145 ± 0.17	0.44	-	0	satis.
	36.0 ± 19	13	17	102	satis.
	U	1.1	-	0	satis.
	-62.4 ± 94	160	-	0	satis.
	-0.149 ± 0.46	0.96	-	0	satis.
	0.032 ± 0.30	0.58	-	0	satis.
	2.75 ± 0.30	0.022	5	30	satis.
8687-001	2.21 ± 1.1	1.4	13	112	satis.
	4.33 ± 1.0	1.5	7	66	satis.
	0.159 ± 0.19	0.49	-	0	satis.
	U	12	-	0	satis.
	U	0.53	-	0	satis.
	-77.4 ± 91	160	-	0	satis.
	0.047 ± 0.45	0.83	-	0	satis.
	0.076 ± 0.32	0.68	-	0	satis.

SPIKED SAMPLE

Sample ID	Nuclide	Results ± 2σ	MDA
8682-005	GrossAlpha	225 ± 12	2.5
	Gross Beta	192 ± 4.5	2.4
	H-3	15800 ± 310	160
	Ra-226	124 ± 4.7	0.94
	Total U	120 ± 15	2.2
8687-005	GrossAlpha	153 ± 7.3	1.3
	Gross Beta	107 ± 2.7	1.3
	H-3	14900 ± 300	160
	Ra-226	134 ± 4.9	0.85

ORIGINAL SAMPLE

Sample ID	Results ± 2σ	MDA	Added	%Recv
8682-001	2.52 ± 2.0	2.4	163	136
	42.3 ± 2.4	2.4	145	103
	-62.4 ± 94	160	16000	99
	-0.149 ± 0.46	0.96	112	111
	2.75 ± 0.30	0.022	113	104
8687-001	2.21 ± 1.1	1.4	114	132
	4.33 ± 1.0	1.5	103	100
	-77.4 ± 91	160	16000	94
	0.047 ± 0.45	0.83	123	109

Certified by _____
Report Date 02/27/08

SUBCONTRACT ORDER

TestAmerica Irvine

8492

IRA2565

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:

Eberline Services - SUB
2030 Wright Avenue
Richmond, CA 94804
Phone :(510) 235-2633
Fax: (510) 235-0438
Project Location: California
Receipt Temperature: 6 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2565-01	**Water**		Sampled: **01/27/08 09:00**	
EDD + Level 4	N/A	02/06/08	02/24/08 09:00	Excel EDD email to pm,Include Std logs for Lvl IV
Gamma Spec-O	mg/kg	02/06/08	01/26/09 09:00	Boeing, permit, J flags, K-40 and CS-137 only
Gross Alpha-O	pCi/L	02/06/08	07/25/08 09:00	Boeing, permit, J flags
Gross Beta-O	pCi/L	02/06/08	07/25/08 09:00	Boeing, permit, J flags
Radium, Combined-O	pCi/L	02/06/08	01/26/09 09:00	Boeing, permit, J flags
Strontium 90-O	pCi/L	02/06/08	01/26/09 09:00	Boeing, permit, J flags
Tritium-O	pCi/L	02/06/08	01/26/09 09:00	Boeing, permit, J flags
Uranium, Combined-O	pCi/L	02/06/08	01/26/09 09:00	Boeing, permit, J flags

Containers Supplied:
2.5 gal Poly (AA) 500 mL Amber (AB)

Released By	1/28/08 Date/Time	Fed-Ex Received By	1/28/08 Date/Time
Released By	Date/Time	Received By	01/29/08 10:15 Date/Time

NPDES - 2793

EBERLINE

RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

1/29/08

Client: TEST AMERICA City: IRVINE State: CA

Date/Time received: 01/29/08 1015 CoC No: IMA 2565

Container/E No: ICE CHEST Requested TAT (Days): _____ P.O. Received: Yes [ ] No [ ]

INSPECTION

1	Custody seals on shipping container intact?	Yes X	No [ ]	N/A [ ]
2	Custody seals on shipping container dated & signed?	Yes X	No [ ]	N/A [ ]
3	Custody seals on sample containers intact?	Yes [ ]	No [ ]	N/A X
4	Custody seals on sample containers dated & signed?	Yes [ ]	No [ ]	N/A X
5	Packing material is:	Wet [ ]	Dry X	
6	Number of samples in shipping container: 1	Sample Matrix: W		
7	Number of containers per sample: 2	(Or see CoC _____)		
8	Samples are in correct container	Yes X	No [ ]	
9	Paperwork agrees with samples?	Yes X	No [ ]	
10	Samples have: Tape [ ] Hazard labels [ ] Rad labels [ ]	Appropriate sample labels: X		
11	Samples are: In good condition X	Leaking [ ]	Broken Container [ ]	Missing [ ]
12	Samples are: Preserved [ ]	Not preserved X	pH _____	Preservative _____
13	Describe any anomalies:			
14	Was P.M. notified of any anomalies?	Yes [ ]	No [ ]	Date _____
15	Inspected by: _____	Date 01/29/08	Time 1030	

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe
IMA 2565-1	<60						

Ion Chamber Ser. No: _____ Calibration date: _____

Alpha Meter Ser. No: _____ Calibration date: _____

Beta/Gamma Meter Ser. No: 100482 Calibration date: 09MAY07

Form: SOP-02 11T 07-30-07

NPDES - 2794

Vista
Analytical Laboratory

February 09, 2008

Vista Project I.D.: 30207

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

Dear Mr. Doak,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on January 29, 2008 under your Project Name "IRA2565". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Vista's current certifications, and copies of the raw data (if requested).

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com. Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier

Martha M. Maier
Laboratory Director

ACCREDITED IN ACCORDANCE WITH NELAC

Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista Analytical Laboratory.

Section I: Sample Inventory Report

Date Received: **1/29/2008**

Vista Lab. ID	Client Sample ID
30207-001	IRA2565-01

SECTION II

Method Blank **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9921	Lab Sample:	0-MB001
Sample Size:	1.00 L	Date Extracted:	2-Feb-08	Date Analyzed DB-5:	6-Feb-08
				Date Analyzed DB-225:	NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.00000165		
1,2,3,7,8-PeCDD	ND	0.00000120		
1,2,3,4,7,8-HxCDD	ND	0.00000316		
1,2,3,6,7,8-HxCDD	ND	0.00000300		
1,2,3,7,8,9-HxCDD	ND	0.00000295		
1,2,3,4,6,7,8-HpCDD	ND	0.00000197		
OCDD	ND	0.00000682		
2,3,7,8-TCDF	ND	0.000000988		
1,2,3,7,8-PeCDF	ND	0.00000123		
2,3,4,7,8-PeCDF	ND	0.00000151		
1,2,3,4,7,8-HxCDF	ND	0.000000596		
1,2,3,6,7,8-HxCDF	ND	0.000000816		
2,3,4,6,7,8-HxCDF	ND	0.000000976		
1,2,3,7,8,9-HxCDF	ND	0.00000111		
1,2,3,4,6,7,8-HpCDF	ND	0.00000146		
1,2,3,4,7,8,9-HpCDF	ND	0.00000154		
OCDF	ND	0.00000455		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	73.6	25 - 164	
	13C-1,2,3,7,8-PeCDD	76.1	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	74.4	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	73.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	77.2	23 - 140	
	13C-OCDD	65.9	17 - 157	
	13C-2,3,7,8-TCDF	72.7	24 - 169	
	13C-1,2,3,7,8-PeCDF	80.3	24 - 185	
	13C-2,3,4,7,8-PeCDF	66.6	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	95.5	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	77.3	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	67.6	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	76.1	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	72.0	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	75.2	26 - 138	
	13C-OCDF	71.7	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	77.0	35 - 197	

Totals		
Total TCDD	ND	0.00000165
Total PeCDD	ND	0.00000209
Total HxCDD	ND	0.00000304
Total HpCDD	0.00000138	
Total TCDF	ND	0.000000988
Total PeCDF	ND	0.00000136
Total HxCDF	ND	0.000000843
Total HpCDF	ND	0.00000150

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: MAS

Approved By: William J. Luksemburg 08-Feb-2008 12:16

OPR Results **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9921	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	2-Feb-08	Date Analyzed DB-5:	6-Feb-08	Date Analyzed DB-225:	NA

Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits		Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	11.2	6.7 - 15.8	IS	13C-2,3,7,8-TCDD	77.8	25 - 164	
1,2,3,7,8-PeCDD	50.0	55.0	35 - 71		13C-1,2,3,7,8-PeCDD	74.8	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	54.7	35 - 82		13C-1,2,3,4,7,8-HxCDD	74.8	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	54.1	38 - 67		13C-1,2,3,6,7,8-HxCDD	75.4	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	54.8	32 - 81		13C-1,2,3,4,6,7,8-HpCDD	80.9	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	54.0	35 - 70		13C-OCDD	71.4	17 - 157	
OCDD	100	113	78 - 144		13C-2,3,7,8-TCDF	77.3	24 - 169	
2,3,7,8-TCDF	10.0	10.7	7.5 - 15.8		13C-1,2,3,7,8-PeCDF	73.3	24 - 185	
1,2,3,7,8-PeCDF	50.0	55.0	40 - 67		13C-2,3,4,7,8-PeCDF	66.3	21 - 178	
2,3,4,7,8-PeCDF	50.0	55.4	34 - 80		13C-1,2,3,4,7,8-HxCDF	90.2	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	54.4	36 - 67		13C-1,2,3,6,7,8-HxCDF	73.1	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	56.0	42 - 65		13C-2,3,4,6,7,8-HxCDF	69.8	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	56.1	35 - 78		13C-1,2,3,7,8,9-HxCDF	74.7	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	55.4	39 - 65		13C-1,2,3,4,6,7,8-HpCDF	71.2	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	55.5	41 - 61		13C-1,2,3,4,7,8,9-HpCDF	77.2	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	55.7	39 - 69		13C-OCDF	72.9	17 - 157	
OCDF	100	106	63 - 170	CRS	37Cl-2,3,7,8-TCDD	86.5	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 08-Feb-2008 12:16

Sample ID: **IRA2565-01** **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30207-001	Date Received:	29-Jan-08
Project:	IRA2565	Sample Size:	1.00 L	QC Batch No.:	9921	Date Extracted:	2-Feb-08
Date Collected:	27-Jan-08			Date Analyzed DB-5:	6-Feb-08	Date Analyzed DB-225:	NA
Time Collected:	0900						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000921		
1,2,3,7,8-PeCDD	ND	0.00000162		
1,2,3,4,7,8-HxCDD	ND	0.00000178		
1,2,3,6,7,8-HxCDD	ND	0.00000430		
1,2,3,7,8,9-HxCDD	ND	0.00000685		
1,2,3,4,6,7,8-HpCDD	0.0000632			
OCDD	0.000718			
2,3,7,8-TCDF	ND	0.000000728		
1,2,3,7,8-PeCDF	ND	0.00000101		
2,3,4,7,8-PeCDF	ND	0.00000165		
1,2,3,4,7,8-HxCDF	ND	0.00000151		
1,2,3,6,7,8-HxCDF	ND	0.00000205		
2,3,4,6,7,8-HxCDF	ND	0.00000176		
1,2,3,7,8,9-HxCDF	ND	0.00000109		
1,2,3,4,6,7,8-HpCDF	0.0000149			J
1,2,3,4,7,8,9-HpCDF	ND	0.00000344		
OCDF	0.0000456			J

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	85.3	25 - 164	
	13C-1,2,3,7,8-PeCDD	80.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	76.3	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	76.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	82.6	23 - 140	
	13C-OCDD	71.0	17 - 157	
	13C-2,3,7,8-TCDF	86.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	84.9	24 - 185	
	13C-2,3,4,7,8-PeCDF	73.2	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	93.8	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	75.6	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	70.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	76.8	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	73.3	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	77.2	26 - 138	
	13C-OCDF	75.4	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	89.1	35 - 197	

Totals

Total TCDD	ND	0.000000921		
Total PeCDD	ND	0.00000162		
Total HxCDD	0.0000117			
Total HpCDD	0.000169			B
Total TCDF	ND	0.00000117		
Total PeCDF	ND		0.000000946	
Total HxCDF	0.00000502		0.0000107	
Total HpCDF	0.0000412			

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: MAS

Approved By: William J. Luksemburg 08-Feb-2008 12:16

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
State of Alaska, DEC	CA413-02
State of Arizona	AZ0639
State of Arkansas, DEQ	05-013-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	
State of Connecticut	PH-0182
State of Florida, DEP	E87777
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA050001
State of Louisiana, DEQ	01977
State of Maine	CA0413
State of Michigan	81178087
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	
State of Nevada	CA413
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-002
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	02996
State of Texas	TX247-2005A
U.S. Army Corps of Engineers	
State of Utah	9169330940
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2565 30207

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: 1.1°C

Vista Analytical Laboratory- SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone :(916) 673-1520
Fax: (916) 673-0106
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2565-01	**Water**		Sampled: **01/27/08 09:00**	
1613-Dioxin-HR-Alta	ug/l	02/06/08	02/03/08 09:00	J flags,17 congeners,no TEQ,ug/L,sub=Vista
Level 4 Data Package - Out	N/A	02/06/08	02/24/08 09:00	
Containers Supplied:				
1 L Amber (D)	1 L Amber (E)			

Rudy Guerra 1/28/08 1700 FedEx 1/28/08 1700
Released By Date/Time Received By Date/Time

Released By Date/Time Barbara Benedict 1/29/08 1229
Received By Date/Time

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 30207 TAT unspecified

Samples Arrival:	**Date/Time** 1/29/08 0905	**Initials:** KBB	**Location:** WR-2 **Shelf/Rack:** N/A
Logged In:	**Date/Time** 1/29/08 1229	**Initials:** KBB	**Location:** WR-2 **Shelf/Rack:** C 2

Delivered By:	(FedEx)	UPS	Cal	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice	Dry Ice	None		
Temp °C 1.1°C	**Time:** 0914	**Thermometer ID:** IR-1				

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill Trk # 7997 9227 1985	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

$Na_2S_2O_3$ Preservation Documented?	COC	Sample Container	(None)	
Shipping Container	Vista	(Client)	Retain	(Return) Dispose

Comments:

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2565

8012803

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:

Weck Laboratories, Inc
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2565-01	**Water**		Sampled: **01/27/08 09:00**	
Level 4 Data Package - Wec	N/A	02/06/08	02/24/08 09:00	
Mercury - 245.1, Diss -OUT	mg/l	02/06/08	02/24/08 09:00	Boeing, permit, J flags, Filter and pres. ASAP before 9:00am!!!
Mercury - 245.1-OUT	mg/l	01/29/08	02/24/08 09:00	Boeing, permit, J flags
Containers Supplied:				
125 mL Poly (AE)	125 mL Poly w/HNO3 (AF)			

Released By 01/28/08 0700 Date/Time — Received By TAZ 01/28/08 0700 Date/Time

Released By 01/28/08 845 Date/Time — Received By 01/28/08 Date/Time

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964

14859 E. Clark Ave., Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634
info@wecklabs.com www.wecklabs.com

CERTIFICATE OF ANALYSIS

Client: TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine, CA 92614
Attention: Joseph Doak

Phone: (949) 261-1022
Fax: (949) 260-3297

Report Date: 01/30/08 12:53
Received Date: 01/28/08 08:45
Turn Around: 1 day

Work Order #: 8012803

Client Project: IRA2565

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Joseph Doak :

Enclosed are the results of analyses for samples received 01/28/08 08:45 with the Chain of Custody document. The samples were received in good condition. The samples were received at 7.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager

Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 8012803
Project ID: IRA2565

Date Received: 01/28/08 08:45
Date Reported: 01/30/08 12:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IRA2565-01	Client		8012803-01	Water	01/27/08 09:00

Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 8012803
Project ID: IRA2565

Date Received: 01/28/08 08:45
Date Reported: 01/30/08 12:53

IRA2565-01 8012803-01 (Water) Date Sampled: 01/27/08 09:00

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed		Data Qualifiers
Mercury, Dissolved	ND	0.050	ug/l	0.20	1	EPA 245.1	W8A1034	01/29/08	01/30/08	jlp	
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W8A1034	01/29/08	01/30/08	jlp	

Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 8012803
Project ID: IRA2565

Date Received: 01/28/08 08:45
Date Reported: 01/30/08 12:53

QUALITY CONTROL SECTION

Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
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Date Received: 01/28/08 08:45
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Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W8A1034 - EPA 245.1										
Blank (W8A1034-BLK1)				Analyzed: 01/30/08						
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
LCS (W8A1034-BS1)				Analyzed: 01/30/08						
Mercury, Dissolved	0.986	0.20	ug/l	1.00		99	85-115			
Mercury, Total	0.986	0.20	ug/l	1.00		99	85-115			
Matrix Spike (W8A1034-MS1)	**Source: 8012803-01**			Analyzed: 01/30/08						
Mercury, Dissolved	2.06	0.40	ug/l	2.00	ND	103	70-130			
Mercury, Total	2.06	0.40	ug/l	2.00	ND	103	70-130			
Matrix Spike Dup (W8A1034-MSD1)	**Source: 8012803-01**			Analyzed: 01/30/08						
Mercury, Dissolved	2.02	0.40	ug/l	2.00	ND	101	70-130	2	20	
Mercury, Total	2.02	0.40	ug/l	2.00	ND	101	70-130	2	20	

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Report ID: 8012803
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Date Received: 01/28/08 08:45
Date Reported: 01/30/08 12:53

Notes and Definitions

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Weck Laboratories, Inc
Kim G Tu, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

APPENDIX G

Section 75

Outfall 011 - BMP Effectiveness, January 27-28, 2008

Test America Analytical Laboratory Report

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: 01/27/08-01/28/08
Received: 01/28/08
Revised: 04/30/08 13:07

NELAP #01108CA California ELAP#1197 CSDLAC #10256

SAMPLE CROSS REFERENCE

ADDITIONAL INFORMATION: This is a Revised report to correct date and sampling times in accordance with the revised Chain of custody per clients request.

LABORATORY ID	CLIENT ID	MATRIX
IRA2667-01	011 EFF-1	Water
IRA2667-02	011 EFF-2	Water
IRA2667-03	011 EFF-3	Water
IRA2667-04	011 EFF-4	Water
IRA2667-05	011 EFF-5	Water
IRA2667-06	011 EFF-6	Water
IRA2667-07	011 EFF-7	Water
IRA2667-08	011 EFF-8	Water
IRA2667-09	011 EFF-9	Water
IRA2667-10	011 EFF-10	Water
IRA2667-11	011 EFF-11	Water
IRA2667-12	011 EFF-12	Water
IRA2667-13	011 EFF-13	Water
IRA2667-14	011 EFF-14	Water
IRA2667-15	011 EFF-15	Water
IRA2667-16	011 EFF-16	Water
IRA2667-17	011 EFF-17	Water
IRA2667-18	011 EFF-18	Water
IRA2667-19	011 EFF-19	Water
IRA2667-20	011 EFF-20	Water
IRA2667-21	011 EFF-21	Water
IRA2667-22	011 EFF-22	Water
IRA2667-23	011 EFF-23	Water

TestAmerica Irvine

Joseph Doak
Project Manager

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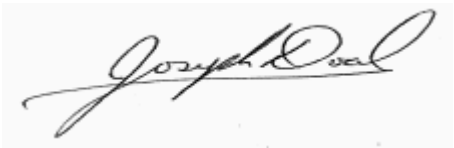
MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: IRA2667

Sampled: 01/27/08-01/28/08
Received: 01/28/08

LABORATORY ID	CLIENT ID	MATRIX
IRA2667-24	011 EFF-24	Water

Reviewed By:



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Joseph Doak
Project Manager

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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: IRA2667

Sampled: 01/27/08-01/28/08
Received: 01/28/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2667-01 (011 EFF-1 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-02 (011 EFF-2 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-03 (011 EFF-3 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-04 (011 EFF-4 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-05 (011 EFF-5 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**1.0**	1	02/04/08	02/04/08	
Sample ID: IRA2667-06 (011 EFF-6 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-07 (011 EFF-7 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**1.0**	1	02/04/08	02/04/08	
Sample ID: IRA2667-08 (011 EFF-8 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**1.0**	1	02/04/08	02/04/08	
Sample ID: IRA2667-09 (011 EFF-9 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-10 (011 EFF-10 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	

TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: IRA2667

Sampled: 01/27/08-01/28/08
Received: 01/28/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2667-11 (011 EFF-11 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-12 (011 EFF-12 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**1.0**	1	02/04/08	02/04/08	
Sample ID: IRA2667-13 (011 EFF-13 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.98**	1	02/04/08	02/04/08	
Sample ID: IRA2667-14 (011 EFF-14 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-15 (011 EFF-15 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-16 (011 EFF-16 - Water)					**Sampled: 01/27/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-17 (011 EFF-17 - Water)					**Sampled: 01/28/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.98**	1	02/04/08	02/04/08	
Sample ID: IRA2667-18 (011 EFF-18 - Water)					**Sampled: 01/28/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**1.0**	1	02/04/08	02/04/08	
Sample ID: IRA2667-19 (011 EFF-19 - Water)					**Sampled: 01/28/08**				
Reporting Units: g/cc									
Density	Displacement	8B04115	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-20 (011 EFF-20 - Water)					**Sampled: 01/28/08**				
Reporting Units: g/cc									
Density	Displacement	8B04120	N/A	NA	**0.99**	1	02/04/08	02/04/08	

TestAmerica Irvine

Joseph Doak
Project Manager

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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: IRA2667

Sampled: 01/27/08-01/28/08
Received: 01/28/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2667-21 (011 EFF-21 - Water)					**Sampled: 01/28/08**				
Reporting Units: g/cc									
Density	Displacement	8B04120	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-22 (011 EFF-22 - Water)					**Sampled: 01/28/08**				
Reporting Units: g/cc									
Density	Displacement	8B04120	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-23 (011 EFF-23 - Water)					**Sampled: 01/28/08**				
Reporting Units: g/cc									
Density	Displacement	8B04120	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-24 (011 EFF-24 - Water)					**Sampled: 01/28/08**				
Reporting Units: g/cc									
Density	Displacement	8B04120	N/A	NA	**0.99**	1	02/04/08	02/04/08	
Sample ID: IRA2667-01 (011 EFF-1 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**45**	1	02/04/08	02/05/08	
Sample ID: IRA2667-02 (011 EFF-2 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**44**	1	02/04/08	02/05/08	
Sample ID: IRA2667-03 (011 EFF-3 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**35**	1	02/04/08	02/05/08	
Sample ID: IRA2667-04 (011 EFF-4 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**30**	1	02/04/08	02/05/08	
Sample ID: IRA2667-05 (011 EFF-5 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**42**	1	02/04/08	02/05/08	
Sample ID: IRA2667-06 (011 EFF-6 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**37**	1	02/04/08	02/05/08	

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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: IRA2667

Sampled: 01/27/08-01/28/08
Received: 01/28/08

INORGANICS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2667-07 (011 EFF-7 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**47**	1	02/04/08	02/05/08	
Sample ID: IRA2667-08 (011 EFF-8 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**75**	1	02/04/08	02/05/08	
Sample ID: IRA2667-09 (011 EFF-9 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**120**	1	02/04/08	02/05/08	
Sample ID: IRA2667-10 (011 EFF-10 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**130**	1	02/04/08	02/05/08	
Sample ID: IRA2667-11 (011 EFF-11 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**81**	1	02/04/08	02/05/08	
Sample ID: IRA2667-12 (011 EFF-12 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**64**	1	02/04/08	02/05/08	
Sample ID: IRA2667-13 (011 EFF-13 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**46**	1	02/04/08	02/05/08	
Sample ID: IRA2667-14 (011 EFF-14 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**48**	1	02/04/08	02/05/08	
Sample ID: IRA2667-15 (011 EFF-15 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**41**	1	02/04/08	02/05/08	
Sample ID: IRA2667-16 (011 EFF-16 - Water)					**Sampled: 01/27/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**42**	1	02/04/08	02/05/08	

TestAmerica Irvine

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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: IRA2667

Sampled: 01/27/08-01/28/08
Received: 01/28/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2667-17 (011 EFF-17 - Water)					**Sampled: 01/28/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**37**	1	02/04/08	02/05/08	
Sample ID: IRA2667-18 (011 EFF-18 - Water)					**Sampled: 01/28/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**35**	1	02/04/08	02/05/08	
Sample ID: IRA2667-19 (011 EFF-19 - Water)					**Sampled: 01/28/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04124	10	10	**35**	1	02/04/08	02/05/08	
Sample ID: IRA2667-20 (011 EFF-20 - Water)					**Sampled: 01/28/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04125	10	10	**58**	1	02/04/08	02/05/08	
Sample ID: IRA2667-21 (011 EFF-21 - Water)					**Sampled: 01/28/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04125	10	10	**76**	1	02/04/08	02/05/08	
Sample ID: IRA2667-22 (011 EFF-22 - Water)					**Sampled: 01/28/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04125	10	10	**61**	1	02/04/08	02/05/08	
Sample ID: IRA2667-23 (011 EFF-23 - Water)					**Sampled: 01/28/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04125	10	10	**47**	1	02/04/08	02/05/08	
Sample ID: IRA2667-24 (011 EFF-24 - Water)					**Sampled: 01/28/08**				
Reporting Units: mg/l									
Sediment	ASTM D3977	8B04125	10	10	**36**	1	02/04/08	02/05/08	

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Project ID: BMP Effectiveness Monitoring Program
Report Number: IRA2667

Sampled: 01/27/08-01/28/08
Received: 01/28/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04115 Extracted: 02/04/08											
Duplicate Analyzed: 02/04/2008 (8B04115-DUP1)						**Source: IRA2667-01**					
Density	0.992	NA	N/A	g/cc		0.990			0	20	
Batch: 8B04120 Extracted: 02/04/08											
Duplicate Analyzed: 02/04/2008 (8B04120-DUP1)						**Source: IRA2668-01**					
Density	0.987	NA	N/A	g/cc		0.984			0	20	

TestAmerica Irvine

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Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: IRA2667

Sampled: 01/27/08-01/28/08
Received: 01/28/08

DATA QUALIFIERS AND DEFINITIONS

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

RPD Relative Percent Difference

TestAmerica Irvine

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Project Manager

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Sampled: 01/27/08-01/28/08
Received: 01/28/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

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

TestAmerica Irvine

Joseph Doak
Project Manager

IRA26067

Test America Version 12/20/07 — CHAIN OF CUSTODY FORM

IRA26067 Page 1 of 1

Client Name/Address:
MWH-Arcadia
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007

Test America Contact: Joseph Doak

Project Manager: Bronwyn Kelly

Sampler: Pollock

Project: **Boeing BMP Effectiveness Monitoring Program**

Phone Number:
(626) 568-6691
Fax Number:
(626) 568-6515

ANALYSIS REQUIRED

Field readings:
Temp = N/A
pH = N/A
Time of readings = N/A

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Suspended Sediment Concentration (SSC, ASTM-D3977-1997)	Comments
011 EFF-1	W	500 mL Poly	1	1-27-08 08:00	None	1	X	Sampling Date Corrections:
011 EFF-2	W	500 mL Poly	1		None	2	X	1-27-08 9:00
011 EFF-3	W	500 mL Poly	1		None	3	X	1-27-08 10:00
011 EFF-4	W	500 mL Poly	1		None	4	X	1-27-08 11:00
011 EFF-5	W	500 mL Poly	1		None	5	X	1-27-08 12:00
011 EFF-6	W	500 mL Poly	1		None	6	X	1-27-08 1:00
011 EFF-7	W	500 mL Poly	1		None	7	X	1-27-08 2:00
011 EFF-8	W	500 mL Poly	1		None	8	X	1-27-08 3:00
011 EFF-9	W	500 mL Poly	1		None	9	X	1-27-08 4:00
011 EFF-10	W	500 mL Poly	1		None	10	X	1-27-08 5:00
011 EFF-11	W	500 mL Poly	1		None	11	X	1-27-08 6:00
011 EFF-12	W	500 mL Poly	1		None	12	X	1-27-08 7:00
011 EFF-13	W	500 mL Poly	1		None	13	X	1-27-08 8:00
011 EFF-14	W	500 mL Poly	1		None	14	X	1-27-08 9:00
011 EFF-15	W	500 mL Poly	1		None	15	X	1-27-08 10:00
011 EFF-16	W	500 mL Poly	1		None	16	X	1-27-08 11:00
011 EFF-17	W	500 mL Poly	1		None	17	X	1-28-08 12:00
011 EFF-18	W	500 mL Poly	1		None	18	X	1-28-08 1:00
011 EFF-19	W	500 mL Poly	1		None	19	X	1-28-08 2:00
011 EFF-20	W	500 mL Poly	1		None	20	X	1-28-08 3:00
011 EFF-21	W	500 mL Poly	1		None	21	X	1-28-08 4:00
011 EFF-22	W	500 mL Poly	1		None	22	X	1-28-08 5:00
011 EFF-23	W	500 mL Poly	1		None	23	X	1-28-08 6:00
011 EFF-24	W	500 mL Poly	1		None	24	X	1-28-08 7:00

MB

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	1-28-08 1420	[signature] TAI	01/28/08 1420
[signature] TAI	01/28/08 1615	[signature]	1-28-08 1615
Relinquished By	Date/Time:	Received By	Date/Time:

Turn around Time: (check)
24 Hours ____ 5 Days ____
48 Hours ____ 10 Days ____
72 Hours ____ Normal X

Sample Integrity: (check)
Intact ✓ On Ice: X
5.6/3.6°C

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(1)