APPENDIX G

Section 5

Outfall 006, December 19, 2007

MEC^X Data Validation Reports

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IQL2125

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:	IQL2128
Project Manager:	B. Kelly
Matrix:	Soil
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine, Weck, Vista

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 006	IQL2125-01	7122005-01, 30103-001	Water	12/19/07 1000	160.2, 245.1, 300.0, 413.1, 900.0, 1613, 6020, SM2540C

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TestAmerica-Irvine and Weck within the temperature limits of 4°C ±2°C. The sample was received below the temperature limits at Visa; however, the sample was not noted to have been frozen. 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 and 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: January 15, 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 TCDF was reported in the method blank at a concentration of 0.00000139 µg/l; however, total TCDF was not reported in site sample Outfall 006. 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. An EMPC value for 1,2,3,4,6,7,8-HpCDD was qualified as an estimated nondetect, "UJ." Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 245.1, 6020—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: January 15, 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 245.1 and 6020*, 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 and all initial and continuing calibration recoveries were within 90-110% for the ICP-MS metals and 85-115% for mercury.

- Blanks: There were no applicable detects in the method blanks or CCBs.

- Interference Check Samples: ICSA/B analyses were performed in association with the dissolved 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 not performed on the sample in this SDG. Evaluation of 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 CCV analyzed prior to the sample and the CCB analyzed after the sample both had all internal standard recoveries below the control limit; however, as the sample internal standard recoveries were acceptable, no qualifications were applied. The remaining 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. EPA METHOD 900.0 — Radionuclides

Reviewed By: P. Meeks
Date Reviewed: January 17, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *EPA Method 900.0* and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The analytical holding time for gross beta was exceeded by one day. The gross beta result was qualified as estimated, "J."

- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability. The gross beta detector efficiency was greater than 20%.

- Blanks: Gross beta was not detected above the MDA in the method blank.

- Blank Spikes and Laboratory Control Samples: The recovery was within laboratory-established control limits.

- Laboratory Duplicates: Duplicate analysis was performed for the sample in this SDG. The RPD was within the laboratory-established control limit.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed for the sample in this SDG. The recovery was within the laboratory-established control limits.

- Sample Result Verification: An EPA Level IV review was performed for the sample in this data package. The sample result and MDA 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. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks
Date Reviewed: January 15, 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 General Minerals (DVP-6, Rev. 0), Standard Methods 160.2, 300.0, 413.1, SM2540C* and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: All holding times, 28 days for chloride, sulfate, and oil and grease, seven days for TSS and TDS, and 48 hours for nitrate/nitrite, were met.

- Calibration: Calibration criteria were met. Initial calibration r^2 values were $\geq$0.995 and all initial and continuing calibration recoveries were within 90-110%.

- Blanks: There were no applicable detects in the method blanks or CCBs.

- Blank Spikes and Laboratory Control Samples: All recoveries and the oil and grease RPD were within the laboratory-established control limits. A nitrate/nitrite LCS recovery was not listed by the laboratory, but during the review of the raw data, the reviewer noted an acceptable recovery.

- Laboratory Duplicates: No laboratory duplicate analyses were performed.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed. Method accuracy was evaluated based on LCS results.

- Sample Result Verification: The sample results were verified against the raw data. No transcription or calculation errors were noted. In order to report chloride and sulfate within the linear range of the calibrations, chloride and sulfate were analyzed at 20× dilutions.

- 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:	IQL2125-01 Outfall 006				EPA Method 1613
Client Data		**Sample Data**		**Laboratory Data**	
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30103-001
Project:	IQL2125	Sample Size:	1.01 L	QC Batch No.:	9806
Date Collected:	19-Dec-07			Date Analyzed DB-5:	25-Dec-07
Time Collected:	1000				
				Date Received:	21-Dec-07
				Date Extracted:	23-Dec-07
				Date Analyzed DB-225:	NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000661		
1,2,3,7,8-PeCDD	ND	0.000000895		
1,2,3,4,7,8-HxCDD	ND	0.00000124		
1,2,3,6,7,8-HxCDD	ND	0.00000140		
1,2,3,7,8,9-HxCDD	ND	0.00000132		
1,2,3,4,6,7,8-HpCDD	ND		0.00000207	
OCDD	0.0000176			J
2,3,7,8-TCDF	ND	0.00000133		
1,2,3,7,8-PeCDF	ND	0.000000827		
2,3,4,7,8-PeCDF	ND	0.000000901		
1,2,3,4,7,8-HxCDF	ND	0.000000499		
1,2,3,6,7,8-HxCDF	ND	0.000000541		
2,3,4,6,7,8-HxCDF	ND	0.000000599		
1,2,3,7,8,9-HxCDF	ND	0.000000921		
1,2,3,4,6,7,8-HpCDF	ND	0.000000760		
1,2,3,4,7,8,9-HpCDF	ND	0.00000101		
OCDF	ND	0.00000152		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	85.6	25 - 164	
	13C-1,2,3,7,8-PeCDD	82.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	70.0	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	61.7	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	65.5	23 - 140	
	13C-OCDD	58.9	17 - 157	
	13C-2,3,7,8-TCDF	82.4	24 - 169	
	13C-1,2,3,7,8-PeCDF	93.9	24 - 185	
	13C-2,3,4,7,8-PeCDF	88.7	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	71.0	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	60.1	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	63.8	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	61.4	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	57.1	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	57.2	26 - 138	
	13C-OCDF	52.0	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	97.9	35 - 197	

Totals			
Total TCDD	ND	0.000000661	
Total PeCDD	ND	0.000000895	
Total HxCDD	ND	0.00000132	
Total HpCDD	0.00000416		0.00000623
Total TCDF	ND	0.00000133	
Total PeCDF	ND	0.000000863	
Total HxCDF	ND	0.000000621	
Total HpCDF	ND	0.000000866	

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH Level IV

Approved By: Martha M. Maier 26-Dec-2007 13:46

NPDES - 128

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water)									
Reporting Units: ug/l									
Antimony J/DNQ	EPA 200.8	7L20116	0.20	2.0	**0.42**	1	12/20/07	12/20/07	J
Cadmium	EPA 200.8	7L20116	0.11	1.0	**0.12**	1	12/20/07	12/20/07	J
Copper	EPA 200.8	7L20116	0.75	2.0	**0.84**	1	12/20/07	12/20/07	J
Lead	EPA 200.8	7L20116	0.10	1.0	**0.42**	1	12/20/07	12/20/07	J
Thallium U	EPA 200.8	7L20116	0.15	1.0	ND	1	12/20/07	12/20/07	

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

DISSOLVED METALS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7L20140	0.20	2.0	**0.45**	1	12/20/07	12/20/07	J
Cadmium	EPA 200.8-Diss	7L20140	0.11	1.0	**0.12**	1	12/20/07	12/20/07	J
Copper	EPA 200.8-Diss	7L20140	0.75	2.0	ND	1	12/20/07	12/20/07	
Lead	EPA 200.8-Diss	7L20140	0.10	1.0	ND	1	12/20/07	12/20/07	
Thallium	EPA 200.8-Diss	7L20140	0.15	1.0	ND	1	12/20/07	12/20/07	

J/DNQ → U

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

Metals by EPA 200 Series Methods

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved U	EPA 245.1	W7L0889	0.050	0.20	ND	1	12/26/07	12/27/07	
Mercury, Total U	EPA 245.1	W7L0889	0.050	0.20	ND	1	12/26/07	12/27/07	

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

Eberline Services

ANALYSIS RESULTS

SDG 8674	Client TA IRVINE
Work Order R712148-01	Contract PR0JECT# IQL2125
Received Date 12/24/07	Matrix WATER

Client Sample ID		Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
IQL2125-01	J/H	8674-001	12/19/07	12/28/07	Gross Beta	19.4 ± 2.1	pCi/L	2.1

LEVEL IV

Certified by

Report Date 01/02/08

Page 1

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

INORGANICS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7L19047	5.0	10	**210**	20	12/19/07	12/20/07	
Nitrate/Nitrite-N	EPA 300.0	7L19047	0.15	0.26	**0.35**	1	12/19/07	12/20/07	
Oil & Grease U	EPA 413.1	7L21125	1.1	4.7	ND	1	12/22/07	12/26/07	
Sulfate	EPA 300.0	7L19047	4.0	10	**60**	20	12/19/07	12/20/07	
Total Dissolved Solids	SM2540C	7L21099	10	10	**670**	1	12/21/07	12/21/07	
Total Suspended Solids U	EPA 160.2	7L20129	10	10	ND	1	12/20/07	12/20/07	

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

APPENDIX G

Section 6

Outfall 006, December 19, 2007

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 006

Sampled: 12/19/07
Received: 12/19/07
Revised: 12/28/07 16:49

NELAP #01108CA California ELAP#1197 CSDLAC #10256

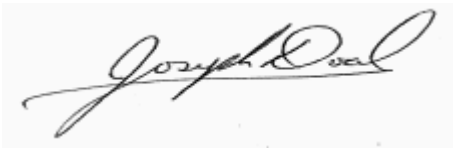
SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This report was revised to correct project number from Annual Outfall 006 to Routine Outfall 006.

LABORATORY ID	CLIENT ID	MATRIX
IQL2125-01	Outfall 006	Water

Reviewed By:



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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	7L20116	0.20	2.0	**0.42**	1	12/20/07	12/20/07	J
Cadmium	EPA 200.8	7L20116	0.11	1.0	**0.12**	1	12/20/07	12/20/07	J
Copper	EPA 200.8	7L20116	0.75	2.0	**0.84**	1	12/20/07	12/20/07	J
Lead	EPA 200.8	7L20116	0.10	1.0	**0.42**	1	12/20/07	12/20/07	J
Thallium	EPA 200.8	7L20116	0.15	1.0	ND	1	12/20/07	12/20/07	

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7L20140	0.20	2.0	**0.45**	1	12/20/07	12/20/07	J
Cadmium	EPA 200.8-Diss	7L20140	0.11	1.0	**0.12**	1	12/20/07	12/20/07	J
Copper	EPA 200.8-Diss	7L20140	0.75	2.0	ND	1	12/20/07	12/20/07	
Lead	EPA 200.8-Diss	7L20140	0.10	1.0	ND	1	12/20/07	12/20/07	
Thallium	EPA 200.8-Diss	7L20140	0.15	1.0	ND	1	12/20/07	12/20/07	

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7L19047	5.0	10	**210**	20	12/19/07	12/20/07	
Nitrate/Nitrite-N	EPA 300.0	7L19047	0.15	0.26	**0.35**	1	12/19/07	12/20/07	
Oil & Grease	EPA 413.1	7L21125	1.1	4.7	ND	1	12/22/07	12/26/07	
Sulfate	EPA 300.0	7L19047	4.0	10	**60**	20	12/19/07	12/20/07	
Total Dissolved Solids	SM2540C	7L21099	10	10	**670**	1	12/21/07	12/21/07	
Total Suspended Solids	EPA 160.2	7L20129	10	10	ND	1	12/20/07	12/20/07	

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

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: IQL2125-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W7L0889	0.050	0.20	ND	1	12/26/07	12/27/07	
Mercury, Total	EPA 245.1	W7L0889	0.050	0.20	ND	1	12/26/07	12/27/07	

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
2,3,7,8-TCDD	1613-Dioxin-HR Alta	9806	N/A	4.95	ND	1	12/23/07	12/25/07	
1,2,3,7,8-PeCDD	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,4,7,8-HxCDD	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,6,7,8-HxCDD	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,7,8,9-HxCDD	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,4,6,7,8-HpCDD	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
OCDD	1613-Dioxin-HR Alta	9806	N/A	49.5	**0.0000176**	1	12/23/07	12/25/07	Ja
2,3,7,8-TCDF	1613-Dioxin-HR Alta	9806	N/A	4.95	ND	1	12/23/07	12/25/07	
1,2,3,7,8-PeCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
2,3,4,7,8-PeCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,4,7,8-HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,6,7,8-HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
2,3,4,6,7,8-HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,7,8,9-HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,4,6,7,8-HpCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
1,2,3,4,7,8,9-HpCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
OCDF	1613-Dioxin-HR Alta	9806	N/A	49.5	ND	1	12/23/07	12/25/07	
Total TCDD	1613-Dioxin-HR Alta	9806	N/A	4.95	ND	1	12/23/07	12/25/07	
Total PeCDD	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
Total HxCDD	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
Total HpCDD	1613-Dioxin-HR Alta	9806	N/A	24.8	**0.00000416**	1	12/23/07	12/25/07	
Total TCDF	1613-Dioxin-HR Alta	9806	N/A	4.95	ND	1	12/23/07	12/25/07	
Total PeCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
Total HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
Total HpCDF	1613-Dioxin-HR Alta	9806	N/A	24.8	ND	1	12/23/07	12/25/07	
Surrogate: 13C-2,3,7,8-TCDD (25-164%)					*85.6 %*				
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)					*82.3 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)					*70 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)					*61.7 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)					*65.5 %*				
Surrogate: 13C-OCDD (17-157%)					*58.9 %*				
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					*82.4 %*				
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)					*93.9 %*				
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)					*88.7 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)					*71 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)					*60.1 %*				
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)					*63.8 %*				
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)					*61.4 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)					*57.1 %*				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)					*57.2 %*				
Surrogate: 13C-OCDF (17-157%)					*52 %*				

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2125-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
Surrogate: 37Cl-2,3,7,8-TCDD (35-197%)					*97.9 %*				

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 006 (IQL2125-01) - Water					
EPA 300.0	2	12/19/2007 10:00	12/19/2007 19:10	12/19/2007 20:00	12/20/2007 03:48

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L20116 Extracted: 12/20/07											
Blank Analyzed: 12/20/2007 (7L20116-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 12/20/2007 (7L20116-BS1)											
Antimony	84.5	2.0	0.20	ug/l	80.0		106	85-115			
Cadmium	84.5	1.0	0.11	ug/l	80.0		106	85-115			
Copper	85.1	2.0	0.75	ug/l	80.0		106	85-115			
Lead	84.6	1.0	0.10	ug/l	80.0		106	85-115			
Thallium	86.6	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 12/20/2007 (7L20116-MS1)						**Source: IQL2190-01**					
Antimony	80.0	2.0	0.20	ug/l	80.0	0.268	100	70-130			
Cadmium	78.8	1.0	0.11	ug/l	80.0	0.576	98	70-130			
Copper	102	2.0	0.75	ug/l	80.0	21.3	101	70-130			
Lead	103	1.0	0.10	ug/l	80.0	23.3	100	70-130			
Thallium	82.8	1.0	0.15	ug/l	80.0	ND	103	70-130			
Matrix Spike Analyzed: 12/20/2007 (7L20116-MS2)						**Source: IQL2059-01**					
Antimony	82.3	2.0	0.20	ug/l	80.0	1.68	101	70-130			
Cadmium	78.8	1.0	0.11	ug/l	80.0	0.396	98	70-130			
Copper	101	2.0	0.75	ug/l	80.0	19.1	102	70-130			
Lead	85.1	1.0	0.10	ug/l	80.0	3.19	102	70-130			
Thallium	82.3	1.0	0.15	ug/l	80.0	ND	103	70-130			
Matrix Spike Dup Analyzed: 12/20/2007 (7L20116-MSD1)						**Source: IQL2190-01**					
Antimony	79.3	2.0	0.20	ug/l	80.0	0.268	99	70-130	1	20	
Cadmium	78.6	1.0	0.11	ug/l	80.0	0.576	98	70-130	0	20	
Copper	101	2.0	0.75	ug/l	80.0	21.3	100	70-130	1	20	
Lead	104	1.0	0.10	ug/l	80.0	23.3	101	70-130	1	20	
Thallium	83.5	1.0	0.15	ug/l	80.0	ND	104	70-130	1	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

Project ID: Routine Outfall 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L20140 Extracted: 12/20/07											
Blank Analyzed: 12/20/2007 (7L20140-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 12/20/2007 (7L20140-BS1)											
Antimony	80.2	2.0	0.20	ug/l	80.0		100	85-115			
Cadmium	78.5	1.0	0.11	ug/l	80.0		98	85-115			
Copper	75.0	2.0	0.75	ug/l	80.0		94	85-115			
Lead	79.6	1.0	0.10	ug/l	80.0		100	85-115			
Thallium	81.8	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 12/20/2007 (7L20140-MS1)						**Source: IQL2118-01**					
Antimony	81.3	2.0	0.20	ug/l	80.0	0.742	101	70-130			
Cadmium	75.0	1.0	0.11	ug/l	80.0	ND	94	70-130			
Copper	73.9	2.0	0.75	ug/l	80.0	2.16	90	70-130			
Lead	76.2	1.0	0.10	ug/l	80.0	0.118	95	70-130			
Thallium	78.3	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Dup Analyzed: 12/20/2007 (7L20140-MSD1)						**Source: IQL2118-01**					
Antimony	81.5	2.0	0.20	ug/l	80.0	0.742	101	70-130	0	20	
Cadmium	75.2	1.0	0.11	ug/l	80.0	ND	94	70-130	0	20	
Copper	73.8	2.0	0.75	ug/l	80.0	2.16	90	70-130	0	20	
Lead	76.0	1.0	0.10	ug/l	80.0	0.118	95	70-130	0	20	
Thallium	78.3	1.0	0.15	ug/l	80.0	ND	98	70-130	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

Project ID: Routine Outfall 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L19047 Extracted: 12/19/07											
Blank Analyzed: 12/19/2007 (7L19047-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 12/19/2007 (7L19047-BS1)											
Chloride	5.10	0.50	0.25	mg/l	5.00		102	90-110			
Sulfate	9.75	0.50	0.20	mg/l	10.0		98	90-110			
Matrix Spike Analyzed: 12/19/2007 (7L19047-MS1)						**Source: IQL2030-01**					
Chloride	5.70	0.50	0.25	mg/l	5.00	0.848	97	80-120			
Sulfate	11.3	0.50	0.20	mg/l	10.0	1.85	94	80-120			
Matrix Spike Dup Analyzed: 12/19/2007 (7L19047-MSD1)						**Source: IQL2030-01**					
Chloride	5.70	0.50	0.25	mg/l	5.00	0.848	97	80-120	0	20	
Sulfate	11.3	0.50	0.20	mg/l	10.0	1.85	94	80-120	0	20	
Batch: 7L20129 Extracted: 12/20/07											
Blank Analyzed: 12/20/2007 (7L20129-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 12/20/2007 (7L20129-BS1)											
Total Suspended Solids	927	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 12/20/2007 (7L20129-DUP1)						**Source: IQL2122-01**					
Total Suspended Solids	71.0	10	10	mg/l		73.0			3	10	

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L21099 Extracted: 12/21/07											
Blank Analyzed: 12/21/2007 (7L21099-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 12/21/2007 (7L21099-BS1)											
Total Dissolved Solids	992	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 12/21/2007 (7L21099-DUP1)						**Source: IQL2115-04**					
Total Dissolved Solids	492	10	10	mg/l		496			1	10	
Batch: 7L21125 Extracted: 12/22/07											
Blank Analyzed: 12/26/2007 (7L21125-BLK1)											
Oil & Grease	ND	5.0	1.2	mg/l							
LCS Analyzed: 12/26/2007 (7L21125-BS1)											**MNR1**
Oil & Grease	18.8	5.0	1.2	mg/l	20.0		94	65-120			
LCS Dup Analyzed: 12/26/2007 (7L21125-BSD1)											
Oil & Grease	18.7	5.0	1.2	mg/l	20.0		94	65-120	1	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

Project ID: Routine Outfall 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

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: W7L0889 Extracted: 12/26/07											
Blank Analyzed: 12/27/2007 (W7L0889-BLK1)											
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
LCS Analyzed: 12/27/2007 (W7L0889-BS1)											
Mercury, Dissolved	1.00	0.20	0.050	ug/l	1.00		100	85-115			
Mercury, Total	1.00	0.20	0.050	ug/l	1.00		100	85-115			
Matrix Spike Analyzed: 12/27/2007 (W7L0889-MS1)						**Source: 7121925-01**					
Mercury, Dissolved	0.882	0.20	0.050	ug/l	1.00	ND	88	70-130			
Mercury, Total	0.882	0.20	0.050	ug/l	1.00	ND	88	70-130			
Matrix Spike Analyzed: 12/27/2007 (W7L0889-MS2)						**Source: 7121925-03**					
Mercury, Dissolved	0.882	0.20	0.050	ug/l	1.00	ND	88	70-130			
Mercury, Total	0.882	0.20	0.050	ug/l	1.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 12/27/2007 (W7L0889-MSD1)						**Source: 7121925-01**					
Mercury, Dissolved	0.909	0.20	0.050	ug/l	1.00	ND	91	70-130	3	20	
Mercury, Total	0.909	0.20	0.050	ug/l	1.00	ND	91	70-130	3	20	
Matrix Spike Dup Analyzed: 12/27/2007 (W7L0889-MSD2)						**Source: 7121925-03**					
Mercury, Dissolved	0.907	0.20	0.050	ug/l	1.00	ND	91	70-130	3	20	
Mercury, Total	0.907	0.20	0.050	ug/l	1.00	ND	91	70-130	3	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

Project ID: Routine Outfall 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9806 Extracted: 12/23/07											
Blank Analyzed: 12/25/2007 (MB001)						**Source:**					
2,3,7,8-TCDD	ND	5.00	N/A	ug/L				50-150		25	
1,2,3,7,8-PeCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,6,7,8-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,7,8,9-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDD	ND	25.0	N/A	ug/L				50-150		25	
OCDD	ND	50.0	N/A	ug/L				50-150		25	
2,3,7,8-TCDF	ND	5.00	N/A	ug/L				50-150		25	
1,2,3,7,8-PeCDF	ND	25.0	N/A	ug/L				50-150		25	
2,3,4,7,8-PeCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,6,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
2,3,4,6,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,7,8,9-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8,9-HpCDF	ND	25.0	N/A	ug/L				50-150		25	
OCDF	ND	50.0	N/A	ug/L				50-150		25	
Total TCDD	ND	5.00	N/A	ug/L				50-150		25	
Total PeCDD	ND	25.0	N/A	ug/L				50-150		25	
Total HxCDD	ND	25.0	N/A	ug/L				50-150		25	
Total HpCDD	ND	25.0	N/A	ug/L				50-150		25	
Total TCDF	0.00000139	5.00	N/A	ug/L				50-150		25	
Total PeCDF	ND	25.0	N/A	ug/L				50-150		25	
Total HxCDF	ND	25.0	N/A	ug/L				50-150		25	
Total HpCDF	ND	25.0	N/A	ug/L				50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	*0.00156*			*ug/L*	*2000*		*78*	*50-150*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.00193*			*ug/L*	*2000*		*96*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.00139*			*ug/L*	*2000*		*70*	*50-150*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.00124*			*ug/L*	*2000*		*62*	*50-150*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.00128*			*ug/L*	*2000*		*64*	*50-150*			
Surrogate: 13C-OCDD	*0.00237*			*ug/L*	*4000*		*59*	*50-150*			
Surrogate: 13C-2,3,7,8-TCDF	*0.00158*			*ug/L*	*2000*		*79*	*50-150*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.00197*			*ug/L*	*2000*		*99*	*50-150*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.00208*			*ug/L*	*2000*		*104*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.00139*			*ug/L*	*2000*		*70*	*50-150*			

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9806 Extracted: 12/23/07											
Blank Analyzed: 12/25/2007 (MB001)						**Source:**					
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.00113*			*ug/L*	*2000*		*57*	*50-150*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.00129*			*ug/L*	*2000*		*64*	*50-150*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.00128*			*ug/L*	*2000*		*64*	*50-150*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.00112*			*ug/L*	*2000*		*56*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.00112*			*ug/L*	*2000*		*56*	*50-150*			
Surrogate: 13C-OCDF	*0.00203*			*ug/L*	*4000*		*51*	*50-150*			
Surrogate: 37Cl-2,3,7,8-TCDD	*0.000755*			*ug/L*	*800*		*94*	*50-150*			
LCS Analyzed: 12/24/2007 (OPR001)						**Source:**					
2,3,7,8-TCDD	10.3	5.00	N/A	ug/L	10		103	50-150		25	
1,2,3,7,8-PeCDD	51.0	25.0	N/A	ug/L	50		102	50-150		25	
1,2,3,4,7,8-HxCDD	50.5	25.0	N/A	ug/L	50		101	50-150		25	
1,2,3,6,7,8-HxCDD	53.0	25.0	N/A	ug/L	50		106	50-150		25	
1,2,3,7,8,9-HxCDD	51.8	25.0	N/A	ug/L	50		104	50-150		25	
1,2,3,4,6,7,8-HpCDD	50.8	25.0	N/A	ug/L	50		102	50-150		25	
OCDD	100	50.0	N/A	ug/L	100		100	50-150		25	
2,3,7,8-TCDF	10.5	5.00	N/A	ug/L	10		105	50-150		25	
1,2,3,7,8-PeCDF	51.3	25.0	N/A	ug/L	50		103	50-150		25	
2,3,4,7,8-PeCDF	52.4	25.0	N/A	ug/L	50		105	50-150		25	
1,2,3,4,7,8-HxCDF	50.2	25.0	N/A	ug/L	50		100	50-150		25	
1,2,3,6,7,8-HxCDF	54.1	25.0	N/A	ug/L	50		108	50-150		25	
2,3,4,6,7,8-HxCDF	53.7	25.0	N/A	ug/L	50		107	50-150		25	
1,2,3,7,8,9-HxCDF	52.4	25.0	N/A	ug/L	50		105	50-150		25	
1,2,3,4,6,7,8-HpCDF	50.4	25.0	N/A	ug/L	50		101	50-150		25	
1,2,3,4,7,8,9-HpCDF	51.8	25.0	N/A	ug/L	50		104	50-150		25	
OCDF	104	50.0	N/A	ug/L	100		104	50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	*84.4*			*ug/L*	*100*		*84*	*50-150*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*83.4*			*ug/L*	*100*		*83*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*81.1*			*ug/L*	*100*		*81*	*50-150*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*68.0*			*ug/L*	*100*		*68*	*50-150*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*75.4*			*ug/L*	*100*		*75*	*50-150*			
Surrogate: 13C-OCDD	*126*			*ug/L*	*200*		*63*	*50-150*			
Surrogate: 13C-2,3,7,8-TCDF	*79.7*			*ug/L*	*100*		*80*	*50-150*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*91.9*			*ug/L*	*100*		*92*	*50-150*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*88.6*			*ug/L*	*100*		*89*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*79.3*			*ug/L*	*100*		*79*	*50-150*			

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9806 Extracted: 12/23/07											
LCS Analyzed: 12/24/2007 (OPR001)						**Source:**					
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*65.5*			*ug/L*	*100*		*66*	*50-150*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*68.9*			*ug/L*	*100*		*69*	*50-150*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*68.6*			*ug/L*	*100*		*69*	*50-150*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*65.2*			*ug/L*	*100*		*65*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*62.5*			*ug/L*	*100*		*63*	*50-150*			
Surrogate: 13C-OCDF	*108*			*ug/L*	*200*		*54*	*50-150*			
Surrogate: 37Cl-2,3,7,8-TCDD	*39.6*			*ug/L*	*40*		*99*	*50-150*			

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

DATA QUALIFIERS AND DEFINITIONS

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.
Ja	The amount detected is below the Lower CalibrationLimit of the instrument
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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 413.1	Water	X	X
SM2540C	Water	X	

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

Subcontracted Laboratories

Alta Analytical Perspectives
2714 Exchange Drive - Wilmington, NC 28405
Method Performed: 1613-Dioxin-HR Alta
Samples: IQL2125-01

Eberline Services - SUB
2030 Wright Avenue - Richmond, CA 94804
Analysis Performed: Gross Beta
Samples: IQL2125-01

Analysis Performed: Radium, Combined
Samples: IQL2125-01

Analysis Performed: Strontium 90
Samples: IQL2125-01

Analysis Performed: Tritium
Samples: IQL2125-01

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: IQL2125-01

Analysis Performed: EDD + Level 4
Samples: IQL2125-01

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 006
Report Number: IQL2125

Sampled: 12/19/07
Received: 12/19/07

Weck Laboratories, Inc

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

Method Performed: EPA 245.1

Samples: IQL2125-01

TestAmerica Irvine

Joseph Doak
Project Manager

JBL 2125

Test America Version 04/28/06 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 006** Stormwater at FSDF-2
Project Manager: Bronwyn Kelly Sampler: R. BANAGA	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	ANALYSIS REQUIRED: Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl	TCDD (and all congeners)	Oil & Grease (EPA 413.1)	Cl-, SO_4, NO_3+NO_2-N	TDS, TSS	Gross Beta, SR-90 (905) Total Combined Radium 226& 223*, Tritium	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl		Comments
Outfall 006	W	1L Poly	1	12-19-07 10:00	HNO_3	1A	X								
Outfall 006 Dup	W	1L Poly	1		HNO_3	1B	X								
Outfall 006	W	1L Amber	2		None	2A, 2B		X							
Outfall 006	W	1L Amber	2		HCl	3A, 3B			X						
Outfall 006	W	500ml Poly	2		None	4A, 4B				X					
Outfall 006	W	500ml Poly	2		None	5A, 5B					X				
Outfall 006	W	2.5 Gal Cube 500 ml Amber	1 1		None	6A, 6B						X			• If gross beta exceeds: run total combined Ra226 & Ra228, Sr90, and gamma spectroscopy • If total combined Ra226 & Ra228 exceeds: run tritium.
Outfall 006	W	1L Poly	1	12-19-07 10:00	None	7							X		Filter w/in 24hr of receipt at lab

Field readings:
Temp = 54.5
pH= 7.12
Sample Collection Time = 10:00

Relinquished By	Date/Time:	Received By	Date/Time:
12-19-07	1620		12/19/07 1620
Relinquished By	Date/Time:	Received By	Date/Time:
	12/19/07 1910		12/19/07 1910
Relinquished By	Date/Time:	Received By	Date/Time:

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

Sample Integrity: (check)
Intact ✓ On Ice: ✓
2.6°/1.6°C

AD 2145 12/19/07

Vista
Analytical Laboratory

December 26, 2007

Vista Project I.D.: 30103

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 December 21, 2007 under your Project Name "IQL2125". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A rush 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 M. Maier
Laboratory Director

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: **12/21/2007**

Vista Lab. ID	Client Sample ID
30103-001	IQL2125-01

SECTION II

Method Blank **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9806	Lab Sample:	0-MB001
Sample Size:	1.00 L	Date Extracted:	23-Dec-07	Date Analyzed DB-5:	25-Dec-07
				Date Analyzed DB-225:	NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000817		
1,2,3,7,8-PeCDD	ND	0.000000965		
1,2,3,4,7,8-HxCDD	ND	0.00000174		
1,2,3,6,7,8-HxCDD	ND	0.00000175		
1,2,3,7,8,9-HxCDD	ND	0.00000174		
1,2,3,4,6,7,8-HpCDD	ND	0.00000246		
OCDD	ND	0.00000423		
2,3,7,8-TCDF	ND	0.00000140		
1,2,3,7,8-PeCDF	ND	0.00000129		
2,3,4,7,8-PeCDF	ND	0.00000126		
1,2,3,4,7,8-HxCDF	ND	0.000000846		
1,2,3,6,7,8-HxCDF	ND	0.000000904		
2,3,4,6,7,8-HxCDF	ND	0.000000973		
1,2,3,7,8,9-HxCDF	ND	0.00000140		
1,2,3,4,6,7,8-HpCDF	ND	0.00000100		
1,2,3,4,7,8,9-HpCDF	ND	0.00000138		
OCDF	ND	0.00000156		

Labeled Standard		%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	78.1	25 - 164	
	13C-1,2,3,7,8-PeCDD	96.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	69.7	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	62.0	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	63.9	23 - 140	
	13C-OCDD	59.3	17 - 157	
	13C-2,3,7,8-TCDF	79.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	98.6	24 - 185	
	13C-2,3,4,7,8-PeCDF	104	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	69.6	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	56.7	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	64.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	63.8	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	55.9	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	55.8	26 - 138	
	13C-OCDF	50.8	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	94.4	35 - 197	

Totals

Total TCDD	ND	0.000000817
Total PeCDD	ND	0.000000965
Total HxCDD	ND	0.00000175
Total HpCDD	ND	0.00000246
Total TCDF	0.00000139	
Total PeCDF	ND	0.00000128
Total HxCDF	ND	0.00000101
Total HpCDF	ND	0.00000117

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH

Approved By: Martha M. Maier 26-Dec-2007 13:46

OPR Results **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9806	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	23-Dec-07	Date Analyzed DB-5:	24-Dec-07	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	10.3	6.7 - 15.8	IS	13C-2,3,7,8-TCDD	84.4	25 - 164	
1,2,3,7,8-PeCDD	50.0	51.0	35 - 71		13C-1,2,3,7,8-PeCDD	83.4	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	50.5	35 - 82		13C-1,2,3,4,7,8-HxCDD	81.1	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	53.0	38 - 67		13C-1,2,3,6,7,8-HxCDD	68.0	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	51.8	32 - 81		13C-1,2,3,4,6,7,8-HpCDD	75.4	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	50.8	35 - 70		13C-OCDD	63.2	17 - 157	
OCDD	100	100	78 - 144		13C-2,3,7,8-TCDF	79.7	24 - 169	
2,3,7,8-TCDF	10.0	10.5	7.5 - 15.8		13C-1,2,3,7,8-PeCDF	91.9	24 - 185	
1,2,3,7,8-PeCDF	50.0	51.3	40 - 67		13C-2,3,4,7,8-PeCDF	88.6	21 - 178	
2,3,4,7,8-PeCDF	50.0	52.4	34 - 80		13C-1,2,3,4,7,8-HxCDF	79.3	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	50.2	36 - 67		13C-1,2,3,6,7,8-HxCDF	65.5	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	54.1	42 - 65		13C-2,3,4,6,7,8-HxCDF	68.9	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	53.7	35 - 78		13C-1,2,3,7,8,9-HxCDF	68.6	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	52.4	39 - 65		13C-1,2,3,4,6,7,8-HpCDF	65.2	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	50.4	41 - 61		13C-1,2,3,4,7,8,9-HpCDF	62.5	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	51.8	39 - 69		13C-OCDF	54.0	17 - 157	
OCDF	100	104	63 - 170	CRS	37Cl-2,3,7,8-TCDD	99.1	35 - 197	

Analyst: JMH

Approved By: Martha M. Maier 26-Dec-2007 13:46

Sample ID: **IQL2125-01** **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30103-001	Date Received:	21-Dec-07
Project:	IQL2125	Sample Size:	1.01 L	QC Batch No.:	9806	Date Extracted:	23-Dec-07
Date Collected:	19-Dec-07			Date Analyzed DB-5:	25-Dec-07	Date Analyzed DB-225:	NA
Time Collected:	1000						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000661		
1,2,3,7,8-PeCDD	ND	0.000000895		
1,2,3,4,7,8-HxCDD	ND	0.00000124		
1,2,3,6,7,8-HxCDD	ND	0.00000140		
1,2,3,7,8,9-HxCDD	ND	0.00000132		
1,2,3,4,6,7,8-HpCDD	ND		0.00000207	
OCDD	0.0000176			J
2,3,7,8-TCDF	ND	0.00000133		
1,2,3,7,8-PeCDF	ND	0.000000827		
2,3,4,7,8-PeCDF	ND	0.000000901		
1,2,3,4,7,8-HxCDF	ND	0.000000499		
1,2,3,6,7,8-HxCDF	ND	0.000000541		
2,3,4,6,7,8-HxCDF	ND	0.000000599		
1,2,3,7,8,9-HxCDF	ND	0.000000921		
1,2,3,4,6,7,8-HpCDF	ND	0.000000760		
1,2,3,4,7,8,9-HpCDF	ND	0.00000101		
OCDF	ND	0.00000152		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	85.6	25 - 164	
	13C-1,2,3,7,8-PeCDD	82.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	70.0	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	61.7	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	65.5	23 - 140	
	13C-OCDD	58.9	17 - 157	
	13C-2,3,7,8-TCDF	82.4	24 - 169	
	13C-1,2,3,7,8-PeCDF	93.9	24 - 185	
	13C-2,3,4,7,8-PeCDF	88.7	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	71.0	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	60.1	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	63.8	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	61.4	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	57.1	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	57.2	26 - 138	
	13C-OCDF	52.0	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	97.9	35 - 197	

Totals

Total TCDD	ND	0.000000661	
Total PeCDD	ND	0.000000895	
Total HxCDD	ND	0.00000132	
Total HpCDD	0.00000416		0.00000623
Total TCDF	ND	0.00000133	
Total PeCDF	ND	0.000000863	
Total HxCDF	ND	0.000000621	
Total HpCDF	ND	0.000000866	

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH

Approved By: Martha M. Maier 26-Dec-2007 13:46

NPDES - 160

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank.**
D	**Dilution**
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 Lower Calibration Limit of the instrument.**
*****	**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

IQL2125 30103

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: 0.3°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: IQL2125-01	**Water**		Sampled: **12/19/07 10:00**	
1613-Dioxin-HR-Alta	ug/l	12/28/07	12/26/07 10:00	J flags,17 congeners,no TEQ,ug/L,sub=Vista
EDD + Level 4	N/A	12/28/07	01/16/08 10:00	
Containers Supplied:				
1 L Amber (C)	1 L Amber (D)			

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

12/20/07 1700 — FedEx — 12/20/07 1700

Bethina Benedict 12/21/07 1027

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 30103 TAT 7

Samples Arrival:	**Date/Time** 12/21/07 0947	**Initials:** [illegible]	**Location:** WR-2 **Shelf/Rack:** N/A
Logged In:	**Date/Time** 12/21/07 1120	**Initials:** [illegible]	**Location:** WR-2 **Shelf/Rack:** C-4

Delivered By:	(FedEx)	UPS	Cal	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice	Dry Ice	None		
Temp °C 0.3	**Time:** 0952	**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 # 7909 0204 7014	✓		
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 7122005

IQL2125

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-SUB
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: IQL2125-01	**Water**		Sampled: **12/19/07 10:00**	
Level 4 Data Package - Wec	N/A	12/28/07	01/16/08 10:00	Provide Element transfer EDD
Mercury - 245.1, Diss -OUT	mg/l	12/28/07	01/16/08 10:00	Boeing, J flags, sub to Weck
Mercury - 245.1-OUT	mg/l	12/28/07	01/16/08 10:00	Boeing, J flags, sub to Weck

Containers Supplied:

125 mL Poly w/HNO3 (N) 125 mL Poly (O)

12/20/07 0700
Released By Date/Time

12/20/07
Released By Date/Time

12/20/07 0700 4.5
Received By Date/Time

12/20/07 1600
Received By 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: 12/28/07 15:28
Received Date: 12/20/07 10:00
Turn Around: 5 days

Work Order #: 7122005

Client Project: IQL2125

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 12/20/07 10:00 with the Chain of Custody document. The samples were received in good condition. The samples were received at 4.5 °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: 7122005
Project ID: IQL2125

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQL2125-01	Client		7122005-01	Water	12/19/07 10:00

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: 7122005
Project ID: IQL2125

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:28

IQL2125-01 7122005-01 (Water) Date Sampled: 12/19/07 10:00

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	W7L0889	12/26/07	12/27/07	jlp	
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W7L0889	12/26/07	12/27/07	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: 7122005
Project ID: IQL2125

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:28

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
Irvine CA, 92614

Report ID: 7122005
Project ID: IQL2125

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:28

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 W7L0889 - EPA 245.1										
Blank (W7L0889-BLK1)				Analyzed: 12/27/07						
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
LCS (W7L0889-BS1)				Analyzed: 12/27/07						
Mercury, Dissolved	1.00	0.20	ug/l	1.00		100	85-115			
Mercury, Total	1.00	0.20	ug/l	1.00		100	85-115			
Matrix Spike (W7L0889-MS1)	**Source: 7121925-01**			Analyzed: 12/27/07						
Mercury, Dissolved	0.882	0.20	ug/l	1.00	ND	88	70-130			
Mercury, Total	0.882	0.20	ug/l	1.00	ND	88	70-130			
Matrix Spike (W7L0889-MS2)	**Source: 7121925-03**			Analyzed: 12/27/07						
Mercury, Dissolved	0.882	0.20	ug/l	1.00	ND	88	70-130			
Mercury, Total	0.882	0.20	ug/l	1.00	ND	88	70-130			
Matrix Spike Dup (W7L0889-MSD1)	**Source: 7121925-01**			Analyzed: 12/27/07						
Mercury, Dissolved	0.909	0.20	ug/l	1.00	ND	91	70-130	3	20	
Mercury, Total	0.909	0.20	ug/l	1.00	ND	91	70-130	3	20	
Matrix Spike Dup (W7L0889-MSD2)	**Source: 7121925-03**			Analyzed: 12/27/07						
Mercury, Dissolved	0.907	0.20	ug/l	1.00	ND	91	70-130	3	20	
Mercury, Total	0.907	0.20	ug/l	1.00	ND	91	70-130	3	20	

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: 7122005
Project ID: IQL2125

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:28

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.

JBL 2125

Test America Version 04/28/06 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 006** Stormwater at FSDF-2
Project Manager: Bronwyn Kelly Sampler: R. BANAGA	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	ANALYSIS REQUIRED: Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl	TCDD (and all congeners)	Oil & Grease (EPA 413.1)	Cl-, SO_4, NO_3+NO_2-N	TDS, TSS	Gross Beta, SR-90 (905) Total Combined Radium 226& 223*, Tritium	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl		Comments
Outfall 006	W	1L Poly	1	12-19-07 10:00	HNO_3	1A	X								
Outfall 006 Dup	W	1L Poly	1		HNO_3	1B	X								
Outfall 006	W	1L Amber	2		None	2A, 2B		X							
Outfall 006	W	1L Amber	2		HCl	3A, 3B			X						
Outfall 006	W	500ml Poly	2		None	4A, 4B				X					
Outfall 006	W	500ml Poly	2		None	5A, 5B					X				
Outfall 006	W	2.5 Gal Cube 500 ml Amber	1 1		None	6A, 6B						X			• If gross beta exceeds: run total combined Ra226 & Ra228, Sr90, and gamma spectroscopy • If total combined Ra226 & Ra228 exceeds: run tritium.
Outfall 006	W	1L Poly	1	12-19-07 10:00	None	7							X		Filter w/in 24hr of receipt at lab

Field readings:
Temp = 54.5
pH= 7.12
Sample Collection Time = 10:00

Relinquished By	Date/Time:	Received By	Date/Time:
12-19-07	1620		12/19/07 1620
Relinquished By	Date/Time:	Received By	Date/Time:
	12/19/07 1910		12/19/07 1910
Relinquished By	Date/Time:	Received By	Date/Time:

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

Sample Integrity: (check)
Intact ✓ On Ice: ✓
2.6°/1.6°C

RD 2145 12/19/07

EBERLINE
SERVICES

January 2, 2008

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

Reference: Test America Project No. IQL2125
Eberline Services NELAP Cert #01120CA (exp. 01/31/08)
Eberline Services Report R712148-8674

Dear Mr. Doak:

Enclosed are results from the analysis of one water sample received at Eberline Services on December 24, 2007. The sample was analyzed according to the accompanying Test America Subcontract Order Form. The requested analysis was gross beta (EPA900.0). The sample was not filtered prior to analysis. Quality control samples consisted of an LCS, blank analysis, duplicate analysis, and matrix spike. 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
Senior Program Manager

MCM/njv

Enclosure: *Report*
Subcontract Form
Receipt checklist

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 8674
Work Order R712148-01
Received Date 12/24/07

Client TA IRVINE
Contract PROJECT# IQL2125
Matrix WATER

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
IQL2125-01	8674-001	12/19/07	12/28/07	Gross Beta	19.4 ± 2.1	pCi/L	2.1

Certified by
Report Date 01/02/08
Page 1

Eberline Services

QC RESULTS

SDG 8674
Work Order R712148-01
Received Date 12/24/07

Client TA IRVINE
Contract PROJECT# IQL2125
Matrix WATER

Lab Sample ID	Nuclide	Results	Units	Amount Added	MDA	Evaluation
LCS						
8674-002	Gross Beta	10.9 ± 0.76	pCi/Smpl	11.3	0.56	96% recovery
BLANK						
8674-003	Gross Beta	-0.120 ± 0.36	pCi/Smpl	NA	0.63	<MDA

DUPLICATES

Sample ID	Nuclide	Results ± 2σ	MDA
8674-004	Gross Beta	20.0 ± 2.6	3.3

ORIGINALS

Sample ID	Results ± 2σ	MDA	RPD	3σ (Tot)	Eval
8674-001	19.4 ± 2.1	2.1	3	50	satis.

SPIKED SAMPLE

Sample ID	Nuclide	Results ± 2σ	MDA
8674-005	Gross Beta	88.0 ± 4.2	3.2

ORIGINAL SAMPLE

Sample ID	Results ± 2σ	MDA	Added	%Recv
8674-001	19.4 ± 2.1	2.1	69.0	99

Certified by
Report Date 01/02/08

SUBCONTRACT ORDER

TestAmerica Irvine

IQL2125

8674

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: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IQL2125-01	**Water**		Sampled: **12/19/07 10:00**	
Gross Beta-O	pCi/L	12/28/07	06/16/08 10:00	DONT FILTER, 900.0,RESULT>50 pCi/L,run Rad 226&228
Level 4 + EDD-OUT	N/A	12/28/07	01/16/08 10:00	Excel EDD email to pm,Include Std logs for Lvl IV
Radium, Combined-O	pCi/L	12/28/07	12/18/08 10:00	HOLD for G A&B results; EPA 903.1&904.0,NO FILTER
Strontium 90-O	pCi/L	12/28/07	12/18/08 10:00	HOLD for Ra 226&228 results,EPA 905.0, DONT FILTER
Tritium-O	pCi/L	12/28/07	12/18/08 10:00	HOLD for Ra 226&228 results,EPA 906.0, DONT FILTER

Containers Supplied:

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

Released By	Date/Time	Received By	Date/Time
	12/20/07 17:00	FedEx	12/20/07 17:00
FEDEX		Alex Kelleher	12/24/07 10:40
Released By	Date/Time	Received By	Date/Time

EBERLINE

RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

SK

Client: TESTAMERICA City: IRVINE State: CA

Date/Time received: 12/24/07 10:40 CoC No.: 12L2125

Container I.D. No.: _____ Requested TAT (Days): _____ P.O. Received: Yes [ ] No [ ]

INSPECTION

1	Custody seals on shipping container intact?	Yes [✓]	No [ ]	N/A [ ]
2	Custody seals on shipping container dated & signed?	Yes [✓]	No [ ]	N/A [ ]
3	Custody seals on sample containers intact?	Yes [ ]	No [ ]	N/A [✓]
4	Custody seals on sample containers dated & signed?	Yes [ ]	No [ ]	N/A [✓]
5	Packing material is:	Wet [ ]	Dry [ ]	N/A ✓
6	Number of samples in shipping container: 1	Sample Matrix: WATER		
7	Number of containers per sample: 2	(Or see CoC _____)		
8	Samples are in correct container	Yes [✓]	No [ ]	
9	Paperwork agrees with samples?	Yes [✓]	No [ ]	
10	Samples have: Tape [ ] Hazard labels [ ] Rad labels [ ]	Appropriate sample labels: [✓]		
11	Samples are: In good condition [✓] Leaking [ ] Broken Container [ ] Missing [ ]			
12	Samples are: Preserved [ ] Not preserved [✓] pH: 6	Preservative: _____		
13	Describe any anomalies:			
14	Was P.M. notified of any anomalies?	Yes [ ]	No [ ]	Date: _____
15	Inspected by: SK	Date: 12/24/07	Time: 11:20	

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe
12L2125-01	<60						

Ion Chamber Ser. No: _____ Calibration date: _____

Alpha Meter Ser. No: _____ Calibration date: _____

Beta/Gamma Meter Ser. No: 100482 Calibration date: 9 May 2007

APPENDIX G

Section 7

Outfall 006 - BMP Effectiveness, December 18-19, 2007

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: 12/18/07-12/19/07
Received: 12/19/07
Revised: 01/31/08 15:18

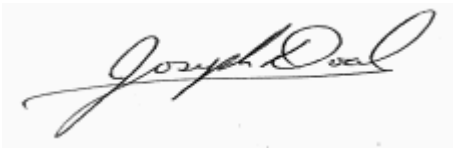
NELAP #01108CA California ELAP#1197 CSDLAC #10256

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 of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IQL2160-01	006 EFF-1	Water
IQL2160-02	006 EFF-2	Water
IQL2160-03	006 EFF-3	Water
IQL2160-04	006 EFF-4	Water
IQL2160-05	006 EFF-5	Water
IQL2160-06	006 EFF-6	Water
IQL2160-07	006 EFF-7	Water
IQL2160-08	006 EFF-8	Water
IQL2160-09	006 EFF-9	Water

Reviewed By:



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: BMP Effectiveness Monitoring Program
Report Number: IQL2160

Sampled: 12/18/07-12/19/07
Received: 12/19/07

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2160-01 (006 EFF-1 - Water)				**Sampled: 12/18/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**1.0**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-01 (006 EFF-1 - Water)				**Sampled: 12/18/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**44**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-02 (006 EFF-2 - Water)				**Sampled: 12/18/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**0.99**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-02 (006 EFF-2 - Water)				**Sampled: 12/18/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**28**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-03 (006 EFF-3 - Water)				**Sampled: 12/18/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**0.99**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-03 (006 EFF-3 - Water)				**Sampled: 12/18/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**16**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-04 (006 EFF-4 - Water)				**Sampled: 12/18/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**0.99**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-04 (006 EFF-4 - Water)				**Sampled: 12/18/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**17**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-05 (006 EFF-5 - Water)				**Sampled: 12/18/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**0.99**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-05 (006 EFF-5 - Water)				**Sampled: 12/18/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**16**	1	12/28/2007	12/28/2007	

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: BMP Effectiveness Monitoring Program
Report Number: IQL2160

Sampled: 12/18/07-12/19/07
Received: 12/19/07

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2160-06 (006 EFF-6 - Water)				**Sampled: 12/18/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**0.99**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-06 (006 EFF-6 - Water)				**Sampled: 12/18/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**17**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-07 (006 EFF-7 - Water)				**Sampled: 12/18/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**1.0**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-07 (006 EFF-7 - Water)				**Sampled: 12/18/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**16**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-08 (006 EFF-8 - Water)				**Sampled: 12/19/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**0.99**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-08 (006 EFF-8 - Water)				**Sampled: 12/19/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**33**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-09 (006 EFF-9 - Water)				**Sampled: 12/19/07**				
Reporting Units: g/cc								
Density	Displacement	7L28073	NA	**0.99**	1	12/28/2007	12/28/2007	
Sample ID: IQL2160-09 (006 EFF-9 - Water)				**Sampled: 12/19/07**				
Reporting Units: mg/l								
Sediment	ASTM D3977	7L28103	10	**39**	1	12/28/2007	12/28/2007	

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: BMP Effectiveness Monitoring Program
Report Number: IQL2160

Sampled: 12/18/07-12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L28073 Extracted: 12/28/07										
Duplicate Analyzed: 12/28/2007 (7L28073-DUP1)					**Source: IQL2159-05**					
Density	0.991	NA	g/cc		0.988			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	Project ID: BMP Effectiveness Monitoring Program	Sampled: 12/18/07-12/19/07
618 Michillinda Avenue, Suite 200	Report Number: IQL2160	Received: 12/19/07
Arcadia, CA 91007		
Attention: Bronwyn Kelly		

DATA QUALIFIERS AND DEFINITIONS

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

RPD Relative Percent Difference

TestAmerica Irvine

Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: BMP Effectiveness Monitoring Program
Report Number: IQL2160

Sampled: 12/18/07-12/19/07
Received: 12/19/07

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

IQ1260

Test America Version 04/28/06

CHAIN OF CUSTODY FORM

IQ1260

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

Test America Contact: Joseph Doak

Project Manager: Bronwyn Kelly

Sampler: R. Barroso

Project: **Boeing BMP Effectiveness Monitoring Program**

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

ANALYSIS REQUIRED

Field readings:

Temp = NA

pH = 7.12

Sample Collection Time = 17:00

RG- 12.20.07 0745

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Suspended Sediment Concentration (SSC, ASTM-D3977-1997)	Comments
006 EFF-1	W	500 mL Poly	1	12-18-07 17:00	None	1	X	
006 EFF-2	W	500 mL Poly	1	12-18-07 18:00	None	2	X	
006 EFF-3	W	500 mL Poly	1	12-18-07 19:00	None	3	X	
006 EFF-4	W	500 mL Poly	1	12-18-07 20:00	None	4	X	
006 EFF-5	W	500 mL Poly	1	12-18-07 21:00	None	5	X	
006 EFF-6	W	500 mL Poly	1	12-18-07 22:00	None	6	X	
006 EFF-7	W	500 mL Poly	1	12-18-07 23:00	None	7	X	
006 EFF-8	W	500 mL Poly	1	12-19-07 00:00	None	8	X	
006 EFF-9	W	500 mL Poly	1	12-19-07 01:00	None	9	X	
006 EFF-10	W	500 mL Poly	1		None	10	X	
006 EFF-11	W	500 mL Poly	1		None	11	X	
006 EFF-12	W	500 mL Poly	1		None	12	X	
006 EFF-13	W	500 mL Poly	1		None	13	X	
006 EFF-14	W	500 mL Poly	1		None	14	X	
006 EFF-15	W	500 mL Poly	1		None	15	X	
006 EFF-16	W	500 mL Poly	1		None	16	X	
006 EFF-17	W	500 mL Poly	1		None	17	X	
006 EFF-18	W	500 mL Poly	1		None	18	X	
006 EFF-19	W	500 mL Poly	1		None	19	X	
006 EFF-20	W	500 mL Poly	1		None	20	X	
006 EFF-21	W	500 mL Poly	1		None	21	X	
006 EFF-22	W	500 mL Poly	1		None	22	X	
006 EFF-23	W	500 mL Poly	1		None	23	X	
006 EFF-24	W	500 mL Poly	1		None	24	X	

EW

Relinquished By	Date/Time:	Received By	Date/Time:
R. Barroso	12-19-07 1620	B. Doak	12/19/07 1620
B. Doak	12/19/07 1905	Jeremy Meyer	12/19/07 1905

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

Sample Integrity: (Check)
Intact ✓ On Ice: ✓
2.6°C 1.6°C

NPDES - 186

APPENDIX G

Section 8

Outfall 009, December 19, 2007

MEC^X Data Validation Reports

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IQL2128

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:	IQL2128
Project Manager:	B. Kelly
Matrix:	Soil
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine, Weck, Vista

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 009	IQL2128-01	7122006-01, 30104-001	Water	12/19/07 0800	245.1, 1613, 6020

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TestAmerica-Irvine and Weck within the temperature limits of 4°C ±2°C. The sample was received below the temperature limits at Vista; however, the sample was not noted to have been frozen. 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 and 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: January 15, 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 TCDF was reported in the method blank at a concentration of 0.00000139µg/l; however, total TCDF was not reported in site sample Outfall 009. 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. An EMPC value for total HpCDF was qualified as an estimated nondetect, "UJ." Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 245.1, 6020—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: January 15, 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 245.1 and 6020,* 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 and all initial and continuing calibration recoveries were within 90-110% for the ICP-MS metals and 85-115% for mercury.

- Blanks: There were no applicable detects in the method blanks or CCBs.

- Interference Check Samples: ICSA/B analyses were performed in association with the dissolved 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 not performed on the sample in this SDG. Evaluation of 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 CCV analyzed prior to the sample and the CCB analyzed after the sample both had all internal standard recoveries below the control limit; however, as the sample internal standard recoveries were acceptable, no qualifications were applied. The remaining 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.

Sample ID: IQL2128-01 Outfall 009 **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30104-001	Date Received:	21-Dec-07
Project:	IQL2128	Sample Size:	1.00 L	QC Batch No.:	9806	Date Extracted:	23-Dec-07
Date Collected:	19-Dec-07			Date Analyzed DB-5:	27-Dec-07	Date Analyzed DB-225:	NA
Time Collected:	0800						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers		Labeled Standard	%R	LCL-UCL [d]	Qualifiers
2,3,7,8-TCDD	ND	0.00000130			IS	13C-2,3,7,8-TCDD	75.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000165				13C-1,2,3,7,8-PeCDD	58.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000344				13C-1,2,3,4,7,8-HxCDD	72.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000364				13C-1,2,3,6,7,8-HxCDD	68.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000345				13C-1,2,3,4,6,7,8-HpCDD	44.7	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.0000163			J		13C-OCDD	30.1	17 - 157	
OCDD	0.000187					13C-2,3,7,8-TCDF	75.1	24 - 169	
2,3,7,8-TCDF	ND	0.00000148				13C-1,2,3,7,8-PeCDF	59.9	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000192				13C-2,3,4,7,8-PeCDF	59.0	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000197				13C-1,2,3,4,7,8-HxCDF	61.6	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000974				13C-1,2,3,6,7,8-HxCDF	67.3	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000877				13C-2,3,4,6,7,8-HxCDF	65.9	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000105				13C-1,2,3,7,8,9-HxCDF	58.2	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000151				13C-1,2,3,4,6,7,8-HpCDF	45.6	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000380				13C-1,2,3,4,7,8,9-HpCDF	27.3	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000685				13C-OCDF	19.7	17 - 157	
OCDF	ND	0.0000107			CRS	37Cl-2,3,7,8-TCDD	84.0	35 - 197	

Totals				Footnotes
Total TCDD	ND	0.00000130		a. Sample specific estimated detection limit.
Total PeCDD	ND	0.00000165		b. Estimated maximum possible concentration.
Total HxCDD	ND	0.00000352		c. Method detection limit.
Total HpCDD	0.0000416			d. Lower control limit - upper control limit.
Total TCDF	ND	0.00000148		
Total PeCDF	ND	0.00000194		
Total HxCDF	ND	0.00000107		
Total HpCDF	ND		0.00000168	

Analyst: DMS Lower IV

Approved By: William J. Luksemburg 27-Dec-2007 13:18

NPDES - 197

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METALS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2128-01 (Outfall 009 - Water)									
Reporting Units: ug/l									
Antimony J/DNQ	EPA 200.8	7L20116	0.20	2.0	**0.40**	1	12/20/07	12/20/07	J
Cadmium U	EPA 200.8	7L20116	0.11	1.0	ND	1	12/20/07	12/20/07	
Copper	EPA 200.8	7L20116	0.75	2.0	**2.4**	1	12/20/07	12/20/07	
Lead J/DNQ	EPA 200.8	7L20116	0.10	1.0	**0.47**	1	12/20/07	12/20/07	J
Thallium U	EPA 200.8	7L20116	0.15	1.0	ND	1	12/20/07	12/20/07	

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

DISSOLVED METALS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2128-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Antimony J/DNQ	EPA 200.8-Diss	7L20140	0.20	2.0	**0.39**	1	12/20/07	12/20/07	J
Cadmium U	EPA 200.8-Diss	7L20140	0.11	1.0	ND	1	12/20/07	12/20/07	
Copper	EPA 200.8-Diss	7L20140	0.75	2.0	**2.0**	1	12/20/07	12/20/07	
Lead J/DNQ	EPA 200.8-Diss	7L20140	0.10	1.0	**0.20**	1	12/20/07	12/20/07	J
Thallium U	EPA 200.8-Diss	7L20140	0.15	1.0	ND	1	12/20/07	12/20/07	

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

Metals by EPA 200 Series Methods

Analyte		Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2128-01 (Outfall 009 - Water) - cont.										
Reporting Units: ug/l										
Mercury, Dissolved	U	EPA 245.1	W7L0889	0.050	0.20	ND	1	12/26/07	12/27/07	
Mercury, Total	U	EPA 245.1	W7L0889	0.050	0.20	ND	1	12/26/07	12/27/07	

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

APPENDIX G

Section 9

Outfall 009, December 19, 2007

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 009

Sampled: 12/19/07
Received: 12/19/07
Issued: 12/31/07 09:28

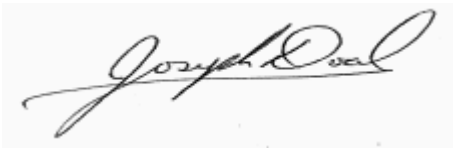
NELAP #01108CA California ELAP#1197 CSDLAC #10256

SAMPLE CROSS REFERENCE

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

LABORATORY ID	CLIENT ID	MATRIX
IQL2128-01	Outfall 009	Water

Reviewed By:



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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2128-01 (Outfall 009 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	7L20116	0.20	2.0	**0.40**	1	12/20/07	12/20/07	J
Cadmium	EPA 200.8	7L20116	0.11	1.0	ND	1	12/20/07	12/20/07	
Copper	EPA 200.8	7L20116	0.75	2.0	**2.4**	1	12/20/07	12/20/07	
Lead	EPA 200.8	7L20116	0.10	1.0	**0.47**	1	12/20/07	12/20/07	J
Thallium	EPA 200.8	7L20116	0.15	1.0	ND	1	12/20/07	12/20/07	

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2128-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7L20140	0.20	2.0	**0.39**	1	12/20/07	12/20/07	J
Cadmium	EPA 200.8-Diss	7L20140	0.11	1.0	ND	1	12/20/07	12/20/07	
Copper	EPA 200.8-Diss	7L20140	0.75	2.0	**2.0**	1	12/20/07	12/20/07	
Lead	EPA 200.8-Diss	7L20140	0.10	1.0	**0.20**	1	12/20/07	12/20/07	J
Thallium	EPA 200.8-Diss	7L20140	0.15	1.0	ND	1	12/20/07	12/20/07	

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2128-01 (Outfall 009 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7L19047	0.25	0.50	**5.9**	1	12/19/07	12/20/07	
Nitrate/Nitrite-N	EPA 300.0	7L19047	0.15	0.26	**0.81**	1	12/19/07	12/20/07	
Oil & Grease	EPA 413.1	7L21125	1.1	4.7	ND	1	12/22/07	12/26/07	
Sulfate	EPA 300.0	7L19047	0.20	0.50	**16**	1	12/19/07	12/20/07	
Total Dissolved Solids	SM2540C	7L21099	10	10	**120**	1	12/21/07	12/21/07	
Total Suspended Solids	EPA 160.2	7L20129	10	10	ND	1	12/20/07	12/20/07	

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

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: IQL2128-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W7L0889	0.050	0.20	ND	1	12/26/07	12/27/07	
Mercury, Total	EPA 245.1	W7L0889	0.050	0.20	ND	1	12/26/07	12/27/07	

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2128-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/L									
2,3,7,8-TCDD	1613-Dioxin-HR Alta	9806	N/A	4.98	ND	1	12/23/07	12/27/07	
1,2,3,7,8-PeCDD	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,4,7,8-HxCDD	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,6,7,8-HxCDD	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,7,8,9-HxCDD	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,4,6,7,8-HpCDD	1613-Dioxin-HR Alta	9806	N/A	24.9	**0.0000163**	1	12/23/07	12/27/07	J
OCDD	1613-Dioxin-HR Alta	9806	N/A	49.8	**0.000187**	1	12/23/07	12/27/07	
2,3,7,8-TCDF	1613-Dioxin-HR Alta	9806	N/A	4.98	ND	1	12/23/07	12/27/07	
1,2,3,7,8-PeCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
2,3,4,7,8-PeCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,4,7,8-HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,6,7,8-HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
2,3,4,6,7,8-HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,7,8,9-HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,4,6,7,8-HpCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
1,2,3,4,7,8,9-HpCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
OCDF	1613-Dioxin-HR Alta	9806	N/A	49.8	ND	1	12/23/07	12/27/07	
Total TCDD	1613-Dioxin-HR Alta	9806	N/A	4.98	ND	1	12/23/07	12/27/07	
Total PeCDD	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
Total HxCDD	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
Total HpCDD	1613-Dioxin-HR Alta	9806	N/A	24.9	**0.0000416**	1	12/23/07	12/27/07	
Total TCDF	1613-Dioxin-HR Alta	9806	N/A	4.98	ND	1	12/23/07	12/27/07	
Total PeCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
Total HxCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
Total HpCDF	1613-Dioxin-HR Alta	9806	N/A	24.9	ND	1	12/23/07	12/27/07	
Surrogate: 13C-2,3,7,8-TCDD (25-164%)					*75.7 %*				
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)					*58.8 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)					*72.2 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)					*68 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)					*44.7 %*				
Surrogate: 13C-OCDD (17-157%)					*30.1 %*				
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					*75.1 %*				
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)					*59.9 %*				
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)					*59 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)					*61.6 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)					*67.3 %*				
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)					*65.9 %*				
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)					*58.2 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)					*45.6 %*				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)					*27.3 %*				
Surrogate: 13C-OCDF (17-157%)					*19.7 %*				

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2128-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/L									
Surrogate: 37Cl-2,3,7,8-TCDD (35-197%)					*84 %*				

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 009 (IQL2128-01) - Water					
EPA 300.0	2	12/19/2007 08:00	12/19/2007 19:05	12/19/2007 20:00	12/20/2007 04:14

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L20116 Extracted: 12/20/07											
Blank Analyzed: 12/20/2007 (7L20116-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 12/20/2007 (7L20116-BS1)											
Antimony	84.5	2.0	0.20	ug/l	80.0		106	85-115			
Cadmium	84.5	1.0	0.11	ug/l	80.0		106	85-115			
Copper	85.1	2.0	0.75	ug/l	80.0		106	85-115			
Lead	84.6	1.0	0.10	ug/l	80.0		106	85-115			
Thallium	86.6	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 12/20/2007 (7L20116-MS1)						**Source: IQL2190-01**					
Antimony	80.0	2.0	0.20	ug/l	80.0	0.268	100	70-130			
Cadmium	78.8	1.0	0.11	ug/l	80.0	0.576	98	70-130			
Copper	102	2.0	0.75	ug/l	80.0	21.3	101	70-130			
Lead	103	1.0	0.10	ug/l	80.0	23.3	100	70-130			
Thallium	82.8	1.0	0.15	ug/l	80.0	ND	103	70-130			
Matrix Spike Analyzed: 12/20/2007 (7L20116-MS2)						**Source: IQL2059-01**					
Antimony	82.3	2.0	0.20	ug/l	80.0	1.68	101	70-130			
Cadmium	78.8	1.0	0.11	ug/l	80.0	0.396	98	70-130			
Copper	101	2.0	0.75	ug/l	80.0	19.1	102	70-130			
Lead	85.1	1.0	0.10	ug/l	80.0	3.19	102	70-130			
Thallium	82.3	1.0	0.15	ug/l	80.0	ND	103	70-130			
Matrix Spike Dup Analyzed: 12/20/2007 (7L20116-MSD1)						**Source: IQL2190-01**					
Antimony	79.3	2.0	0.20	ug/l	80.0	0.268	99	70-130	1	20	
Cadmium	78.6	1.0	0.11	ug/l	80.0	0.576	98	70-130	0	20	
Copper	101	2.0	0.75	ug/l	80.0	21.3	100	70-130	1	20	
Lead	104	1.0	0.10	ug/l	80.0	23.3	101	70-130	1	20	
Thallium	83.5	1.0	0.15	ug/l	80.0	ND	104	70-130	1	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

Project ID: Routine Outfall 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L20140 Extracted: 12/20/07											
Blank Analyzed: 12/20/2007 (7L20140-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 12/20/2007 (7L20140-BS1)											
Antimony	80.2	2.0	0.20	ug/l	80.0		100	85-115			
Cadmium	78.5	1.0	0.11	ug/l	80.0		98	85-115			
Copper	75.0	2.0	0.75	ug/l	80.0		94	85-115			
Lead	79.6	1.0	0.10	ug/l	80.0		100	85-115			
Thallium	81.8	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 12/20/2007 (7L20140-MS1)						**Source: IQL2118-01**					
Antimony	81.3	2.0	0.20	ug/l	80.0	0.742	101	70-130			
Cadmium	75.0	1.0	0.11	ug/l	80.0	ND	94	70-130			
Copper	73.9	2.0	0.75	ug/l	80.0	2.16	90	70-130			
Lead	76.2	1.0	0.10	ug/l	80.0	0.118	95	70-130			
Thallium	78.3	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Dup Analyzed: 12/20/2007 (7L20140-MSD1)						**Source: IQL2118-01**					
Antimony	81.5	2.0	0.20	ug/l	80.0	0.742	101	70-130	0	20	
Cadmium	75.2	1.0	0.11	ug/l	80.0	ND	94	70-130	0	20	
Copper	73.8	2.0	0.75	ug/l	80.0	2.16	90	70-130	0	20	
Lead	76.0	1.0	0.10	ug/l	80.0	0.118	95	70-130	0	20	
Thallium	78.3	1.0	0.15	ug/l	80.0	ND	98	70-130	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

Project ID: Routine Outfall 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L19047 Extracted: 12/19/07											
Blank Analyzed: 12/19/2007 (7L19047-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 12/19/2007 (7L19047-BS1)											
Chloride	5.10	0.50	0.25	mg/l	5.00		102	90-110			
Sulfate	9.75	0.50	0.20	mg/l	10.0		98	90-110			
Matrix Spike Analyzed: 12/19/2007 (7L19047-MS1)						**Source: IQL2030-01**					
Chloride	5.70	0.50	0.25	mg/l	5.00	0.848	97	80-120			
Sulfate	11.3	0.50	0.20	mg/l	10.0	1.85	94	80-120			
Matrix Spike Dup Analyzed: 12/19/2007 (7L19047-MSD1)						**Source: IQL2030-01**					
Chloride	5.70	0.50	0.25	mg/l	5.00	0.848	97	80-120	0	20	
Sulfate	11.3	0.50	0.20	mg/l	10.0	1.85	94	80-120	0	20	
Batch: 7L20129 Extracted: 12/20/07											
Blank Analyzed: 12/20/2007 (7L20129-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 12/20/2007 (7L20129-BS1)											
Total Suspended Solids	927	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 12/20/2007 (7L20129-DUP1)						**Source: IQL2122-01**					
Total Suspended Solids	71.0	10	10	mg/l		73.0			3	10	

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7L21099 Extracted: 12/21/07											
Blank Analyzed: 12/21/2007 (7L21099-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 12/21/2007 (7L21099-BS1)											
Total Dissolved Solids	992	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 12/21/2007 (7L21099-DUP1)						**Source: IQL2115-04**					
Total Dissolved Solids	492	10	10	mg/l		496			1	10	
Batch: 7L21125 Extracted: 12/22/07											
Blank Analyzed: 12/26/2007 (7L21125-BLK1)											
Oil & Grease	ND	5.0	1.2	mg/l							
LCS Analyzed: 12/26/2007 (7L21125-BS1)											**MNR1**
Oil & Grease	18.8	5.0	1.2	mg/l	20.0		94	65-120			
LCS Dup Analyzed: 12/26/2007 (7L21125-BSD1)											
Oil & Grease	18.7	5.0	1.2	mg/l	20.0		94	65-120	1	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

Project ID: Routine Outfall 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

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: W7L0889 Extracted: 12/26/07											
Blank Analyzed: 12/27/2007 (W7L0889-BLK1)											
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
LCS Analyzed: 12/27/2007 (W7L0889-BS1)											
Mercury, Dissolved	1.00	0.20	0.050	ug/l	1.00		100	85-115			
Mercury, Total	1.00	0.20	0.050	ug/l	1.00		100	85-115			
Matrix Spike Analyzed: 12/27/2007 (W7L0889-MS1)						**Source: 7121925-01**					
Mercury, Dissolved	0.882	0.20	0.050	ug/l	1.00	ND	88	70-130			
Mercury, Total	0.882	0.20	0.050	ug/l	1.00	ND	88	70-130			
Matrix Spike Analyzed: 12/27/2007 (W7L0889-MS2)						**Source: 7121925-03**					
Mercury, Dissolved	0.882	0.20	0.050	ug/l	1.00	ND	88	70-130			
Mercury, Total	0.882	0.20	0.050	ug/l	1.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 12/27/2007 (W7L0889-MSD1)						**Source: 7121925-01**					
Mercury, Dissolved	0.909	0.20	0.050	ug/l	1.00	ND	91	70-130	3	20	
Mercury, Total	0.909	0.20	0.050	ug/l	1.00	ND	91	70-130	3	20	
Matrix Spike Dup Analyzed: 12/27/2007 (W7L0889-MSD2)						**Source: 7121925-03**					
Mercury, Dissolved	0.907	0.20	0.050	ug/l	1.00	ND	91	70-130	3	20	
Mercury, Total	0.907	0.20	0.050	ug/l	1.00	ND	91	70-130	3	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

Project ID: Routine Outfall 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9806 Extracted: 12/23/07											
Blank Analyzed: 12/25/2007 (MB001)						**Source:**					
2,3,7,8-TCDD	ND	5.00	N/A	ug/L				50-150		25	
1,2,3,7,8-PeCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,6,7,8-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,7,8,9-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDD	ND	25.0	N/A	ug/L				50-150		25	
OCDD	ND	50.0	N/A	ug/L				50-150		25	
2,3,7,8-TCDF	ND	5.00	N/A	ug/L				50-150		25	
1,2,3,7,8-PeCDF	ND	25.0	N/A	ug/L				50-150		25	
2,3,4,7,8-PeCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,6,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
2,3,4,6,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,7,8,9-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8,9-HpCDF	ND	25.0	N/A	ug/L				50-150		25	
OCDF	ND	50.0	N/A	ug/L				50-150		25	
Total TCDD	ND	5.00	N/A	ug/L				50-150		25	
Total PeCDD	ND	25.0	N/A	ug/L				50-150		25	
Total HxCDD	ND	25.0	N/A	ug/L				50-150		25	
Total HpCDD	ND	25.0	N/A	ug/L				50-150		25	
Total TCDF	0.00000139	5.00	N/A	ug/L				50-150		25	
Total PeCDF	ND	25.0	N/A	ug/L				50-150		25	
Total HxCDF	ND	25.0	N/A	ug/L				50-150		25	
Total HpCDF	ND	25.0	N/A	ug/L				50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	*0.00156*			*ug/L*	*2000*		*78*	*50-150*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.00193*			*ug/L*	*2000*		*96*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.00139*			*ug/L*	*2000*		*70*	*50-150*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.00124*			*ug/L*	*2000*		*62*	*50-150*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.00128*			*ug/L*	*2000*		*64*	*50-150*			
Surrogate: 13C-OCDD	*0.00237*			*ug/L*	*4000*		*59*	*50-150*			
Surrogate: 13C-2,3,7,8-TCDF	*0.00158*			*ug/L*	*2000*		*79*	*50-150*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.00197*			*ug/L*	*2000*		*99*	*50-150*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.00208*			*ug/L*	*2000*		*104*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.00139*			*ug/L*	*2000*		*70*	*50-150*			

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9806 Extracted: 12/23/07											
Blank Analyzed: 12/25/2007 (MB001)						**Source:**					
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.00113*			*ug/L*	*2000*		*57*	*50-150*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.00129*			*ug/L*	*2000*		*64*	*50-150*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.00128*			*ug/L*	*2000*		*64*	*50-150*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.00112*			*ug/L*	*2000*		*56*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.00112*			*ug/L*	*2000*		*56*	*50-150*			
Surrogate: 13C-OCDF	*0.00203*			*ug/L*	*4000*		*51*	*50-150*			
Surrogate: 37Cl-2,3,7,8-TCDD	*0.000755*			*ug/L*	*800*		*94*	*50-150*			
LCS Analyzed: 12/24/2007 (OPR001)						**Source:**					
2,3,7,8-TCDD	10.3	5.00	N/A	ug/L	10		103	50-150		25	
1,2,3,7,8-PeCDD	51.0	25.0	N/A	ug/L	50		102	50-150		25	
1,2,3,4,7,8-HxCDD	50.5	25.0	N/A	ug/L	50		101	50-150		25	
1,2,3,6,7,8-HxCDD	53.0	25.0	N/A	ug/L	50		106	50-150		25	
1,2,3,7,8,9-HxCDD	51.8	25.0	N/A	ug/L	50		104	50-150		25	
1,2,3,4,6,7,8-HpCDD	50.8	25.0	N/A	ug/L	50		102	50-150		25	
OCDD	100	50.0	N/A	ug/L	100		100	50-150		25	
2,3,7,8-TCDF	10.5	5.00	N/A	ug/L	10		105	50-150		25	
1,2,3,7,8-PeCDF	51.3	25.0	N/A	ug/L	50		103	50-150		25	
2,3,4,7,8-PeCDF	52.4	25.0	N/A	ug/L	50		105	50-150		25	
1,2,3,4,7,8-HxCDF	50.2	25.0	N/A	ug/L	50		100	50-150		25	
1,2,3,6,7,8-HxCDF	54.1	25.0	N/A	ug/L	50		108	50-150		25	
2,3,4,6,7,8-HxCDF	53.7	25.0	N/A	ug/L	50		107	50-150		25	
1,2,3,7,8,9-HxCDF	52.4	25.0	N/A	ug/L	50		105	50-150		25	
1,2,3,4,6,7,8-HpCDF	50.4	25.0	N/A	ug/L	50		101	50-150		25	
1,2,3,4,7,8,9-HpCDF	51.8	25.0	N/A	ug/L	50		104	50-150		25	
OCDF	104	50.0	N/A	ug/L	100		104	50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	*84.4*			*ug/L*	*100*		*84*	*50-150*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*83.4*			*ug/L*	*100*		*83*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*81.1*			*ug/L*	*100*		*81*	*50-150*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*68.0*			*ug/L*	*100*		*68*	*50-150*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*75.4*			*ug/L*	*100*		*75*	*50-150*			
Surrogate: 13C-OCDD	*126*			*ug/L*	*200*		*63*	*50-150*			
Surrogate: 13C-2,3,7,8-TCDF	*79.7*			*ug/L*	*100*		*80*	*50-150*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*91.9*			*ug/L*	*100*		*92*	*50-150*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*88.6*			*ug/L*	*100*		*89*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*79.3*			*ug/L*	*100*		*79*	*50-150*			

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9806 Extracted: 12/23/07											
LCS Analyzed: 12/24/2007 (OPR001)						**Source:**					
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*65.5*			*ug/L*	*100*		*66*	*50-150*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*68.9*			*ug/L*	*100*		*69*	*50-150*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*68.6*			*ug/L*	*100*		*69*	*50-150*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*65.2*			*ug/L*	*100*		*65*	*50-150*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*62.5*			*ug/L*	*100*		*63*	*50-150*			
Surrogate: 13C-OCDF	*108*			*ug/L*	*200*		*54*	*50-150*			
Surrogate: 37Cl-2,3,7,8-TCDD	*39.6*			*ug/L*	*40*		*99*	*50-150*			

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

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
IQL2128-01	413.1 Oil and Grease	Oil & Grease	mg/l	0.38	4.7	15
IQL2128-01	Antimony-200.8	Antimony	ug/l	0.40	2.0	6.00
IQL2128-01	Antimony-200.8, Diss	Antimony	ug/l	0.39	2.0	6.00
IQL2128-01	Cadmium-200.8	Cadmium	ug/l	0.023	1.0	4.00
IQL2128-01	Cadmium-200.8, Diss	Cadmium	ug/l	0.017	1.0	4.00
IQL2128-01	Chloride - 300.0	Chloride	mg/l	5.89	0.50	150
IQL2128-01	Copper-200.8	Copper	ug/l	2.43	2.0	14
IQL2128-01	Copper-200.8, Diss	Copper	ug/l	2.03	2.0	14
IQL2128-01	Lead-200.8	Lead	ug/l	0.47	1.0	5.20
IQL2128-01	Lead-200.8, Diss	Lead	ug/l	0.20	1.0	5.20
IQL2128-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.81	0.26	10.00
IQL2128-01	Sulfate-300.0	Sulfate	mg/l	16	0.50	250
IQL2128-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	124	10	850
IQL2128-01	Thallium-200.8	Thallium	ug/l	0.0064	1.0	2.00
IQL2128-01	Thallium-200.8, Diss	Thallium	ug/l	0	1.0	2.00

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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

DATA QUALIFIERS AND DEFINITIONS

J	The amount detected is below the Lower CalibrationLimit of the instrument
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 009
Report Number: IQL2128

Sampled: 12/19/07
Received: 12/19/07

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 413.1	Water	X	X
SM2540C	Water	X	

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

Subcontracted Laboratories

Alta Analytical Perspectives
2714 Exchange Drive - Wilmington, NC 28405
Method Performed: 1613-Dioxin-HR Alta
Samples: IQL2128-01

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: IQL2128-01

Weck Laboratories, Inc
14859 E. Clark Avenue - City of Industry, CA 91745
Method Performed: EPA 245.1
Samples: IQL2128-01

TestAmerica Irvine

Joseph Doak
Project Manager

Test America Version 04/28/06

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 009** Stormwater at WS-13
Project Manager: Bronwyn Kelly Sampler: J. Marshall R. Barrios	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl	TCDD (and all congeners)	Oil & Grease (EPA 413.1)	Cl^-, SO_4, NO_3+NO_2-N	TDS, TSS	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl				Comments
							ANALYSIS REQUIRED									Field readings: Temp = 51.3° pH= 6.76 Sample Collection Time = 0800
Outfall 009	W	1L Poly	1	12-19-07 0800	HNO_3	1A	X									
Outfall 009 Dup	W	1L Poly	1		HNO_3	1B	X									
Outfall 009	W	1L Amber	2		None	2A, 2B		X								
Outfall 009	W	1L Amber	2		HCl	3A, 3B			X							
Outfall 009	W	500 ml Poly	2		None	4A,4B				X						
Outfall 009	W	500 ml Poly	2		None	5A, 5B					X					
Outfall 009	W	1L Poly	1	12-19-07 0800	None	6						X				Filter w/in 24hr of receipt at lab

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	12-19-07 1620	[signature]	12/19/07 1620
[signature]	12/19/07 1905	[signature]	12/19/07 1905

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

Sample Integrity: (Check)
Intact ✓ On Ice: ✓
2.6°/1.6°C

NPDES - 221

Vista
Analytical Laboratory

December 27, 2007

Vista Project I.D.: 30104

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 December 21, 2007 under your Project Name "IQL2128". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A rush 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 M. Maier
Laboratory Director

ACCREDITED IN ACCORDANCE WITH

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: **12/21/2007**

Vista Lab. ID	Client Sample ID
30104-001	IQL2128-01

SECTION II

Method Blank **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9806	Lab Sample:	0-MB001
Sample Size:	1.00 L	Date Extracted:	23-Dec-07	Date Analyzed DB-5:	25-Dec-07
				Date Analyzed DB-225:	NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000817		
1,2,3,7,8-PeCDD	ND	0.000000965		
1,2,3,4,7,8-HxCDD	ND	0.00000174		
1,2,3,6,7,8-HxCDD	ND	0.00000175		
1,2,3,7,8,9-HxCDD	ND	0.00000174		
1,2,3,4,6,7,8-HpCDD	ND	0.00000246		
OCDD	ND	0.00000423		
2,3,7,8-TCDF	ND	0.00000140		
1,2,3,7,8-PeCDF	ND	0.00000129		
2,3,4,7,8-PeCDF	ND	0.00000126		
1,2,3,4,7,8-HxCDF	ND	0.000000846		
1,2,3,6,7,8-HxCDF	ND	0.000000904		
2,3,4,6,7,8-HxCDF	ND	0.000000973		
1,2,3,7,8,9-HxCDF	ND	0.00000140		
1,2,3,4,6,7,8-HpCDF	ND	0.00000100		
1,2,3,4,7,8,9-HpCDF	ND	0.00000138		
OCDF	ND	0.00000156		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	78.1	25 - 164	
	13C-1,2,3,7,8-PeCDD	96.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	69.7	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	62.0	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	63.9	23 - 140	
	13C-OCDD	59.3	17 - 157	
	13C-2,3,7,8-TCDF	79.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	98.6	24 - 185	
	13C-2,3,4,7,8-PeCDF	104	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	69.6	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	56.7	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	64.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	63.8	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	55.9	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	55.8	26 - 138	
	13C-OCDF	50.8	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	94.4	35 - 197	

Totals

Total TCDD	ND	0.000000817
Total PeCDD	ND	0.000000965
Total HxCDD	ND	0.00000175
Total HpCDD	ND	0.00000246
Total TCDF	0.00000139	
Total PeCDF	ND	0.00000128
Total HxCDF	ND	0.00000101
Total HpCDF	ND	0.00000117

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH

Approved By: William J. Luksemburg 27-Dec-2007 13:18

NPDES - 225

OPR Results **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9806	Lab Sample:	0-OPR001
Sample Size:	1.00 L	Date Extracted:	23-Dec-07	Date Analyzed DB-5:	24-Dec-07
				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	10.3	6.7 - 15.8	IS	13C-2,3,7,8-TCDD	84.4	25 - 164	
1,2,3,7,8-PeCDD	50.0	51.0	35 - 71		13C-1,2,3,7,8-PeCDD	83.4	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	50.5	35 - 82		13C-1,2,3,4,7,8-HxCDD	81.1	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	53.0	38 - 67		13C-1,2,3,6,7,8-HxCDD	68.0	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	51.8	32 - 81		13C-1,2,3,4,6,7,8-HpCDD	75.4	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	50.8	35 - 70		13C-OCDD	63.2	17 - 157	
OCDD	100	100	78 - 144		13C-2,3,7,8-TCDF	79.7	24 - 169	
2,3,7,8-TCDF	10.0	10.5	7.5 - 15.8		13C-1,2,3,7,8-PeCDF	91.9	24 - 185	
1,2,3,7,8-PeCDF	50.0	51.3	40 - 67		13C-2,3,4,7,8-PeCDF	88.6	21 - 178	
2,3,4,7,8-PeCDF	50.0	52.4	34 - 80		13C-1,2,3,4,7,8-HxCDF	79.3	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	50.2	36 - 67		13C-1,2,3,6,7,8-HxCDF	65.5	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	54.1	42 - 65		13C-2,3,4,6,7,8-HxCDF	68.9	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	53.7	35 - 78		13C-1,2,3,7,8,9-HxCDF	68.6	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	52.4	39 - 65		13C-1,2,3,4,6,7,8-HpCDF	65.2	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	50.4	41 - 61		13C-1,2,3,4,7,8,9-HpCDF	62.5	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	51.8	39 - 69		13C-OCDF	54.0	17 - 157	
OCDF	100	104	63 - 170	CRS	37Cl-2,3,7,8-TCDD	99.1	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 27-Dec-2007 13:12

Sample ID: **IQL2128-01** **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30104-001	Date Received:	21-Dec-07
Project:	IQL2128	Sample Size:	1.00 L	QC Batch No.:	9806	Date Extracted:	23-Dec-07
Date Collected:	19-Dec-07			Date Analyzed DB-5:	27-Dec-07	Date Analyzed DB-225:	NA
Time Collected:	0800						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.00000130		
1,2,3,7,8-PeCDD	ND	0.00000165		
1,2,3,4,7,8-HxCDD	ND	0.00000344		
1,2,3,6,7,8-HxCDD	ND	0.00000364		
1,2,3,7,8,9-HxCDD	ND	0.00000345		
1,2,3,4,6,7,8-HpCDD	0.0000163			J
OCDD	0.000187			
2,3,7,8-TCDF	ND	0.00000148		
1,2,3,7,8-PeCDF	ND	0.00000192		
2,3,4,7,8-PeCDF	ND	0.00000197		
1,2,3,4,7,8-HxCDF	ND	0.000000974		
1,2,3,6,7,8-HxCDF	ND	0.000000877		
2,3,4,6,7,8-HxCDF	ND	0.00000105		
1,2,3,7,8,9-HxCDF	ND	0.00000151		
1,2,3,4,6,7,8-HpCDF	ND	0.00000380		
1,2,3,4,7,8,9-HpCDF	ND	0.00000685		
OCDF	ND	0.0000107		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	75.7	25 - 164	
	13C-1,2,3,7,8-PeCDD	58.8	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	72.2	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	68.0	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	44.7	23 - 140	
	13C-OCDD	30.1	17 - 157	
	13C-2,3,7,8-TCDF	75.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	59.9	24 - 185	
	13C-2,3,4,7,8-PeCDF	59.0	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	61.6	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	67.3	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	65.9	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	58.2	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	45.6	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	27.3	26 - 138	
	13C-OCDF	19.7	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	84.0	35 - 197	

Totals

Total TCDD	ND	0.00000130	
Total PeCDD	ND	0.00000165	
Total HxCDD	ND	0.00000352	
Total HpCDD	0.0000416		
Total TCDF	ND	0.00000148	
Total PeCDF	ND	0.00000194	
Total HxCDF	ND	0.00000107	
Total HpCDF	ND	0.00000168	

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: DMS

Approved By: William J. Luksemburg 27-Dec-2007 13:18

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank.**
D	**Dilution**
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 Lower Calibration Limit of the instrument.**
*****	**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

IQL2128 30104

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: 0.3°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: IQL2128-01	**Water**		Sampled: **12/19/07 08:00**	
1613-Dioxin-HR-Alta	ug/l	12/28/07	12/26/07 08:00	J flags,17 congeners,no TEQ,ug/L,sub=Vista
EDD + Level 4	N/A	12/28/07	01/16/08 08:00	Excel EDD email to pm,Include Std logs for Lvl IV

Containers Supplied:

1 L Amber (C) 1 L Amber (D)

[signature]	12/20/07 1700	FedEx	12/20/07 1700
Released By	Date/Time	Received By	Date/Time
		Bethina Benedict	12/21/07 1028
Released By	Date/Time	Received By	Date/Time

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 30104 TAT 7

Samples Arrival:	**Date/Time** 12/21/07 0947	**Initials:** MBB	**Location:** WR-2 **Shelf/Rack:** N/A
Logged In:	**Date/Time** 12/21/07 1124	**Initials:** MBB	**Location:** WR2 **Shelf/Rack:** C-4

Delivered By:	(FedEx)	UPS	Cal	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice		Dry Ice		None
Temp °C 0.3	**Time:** 0952			**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 # 7909 0204 7014	✓		
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:

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: 12/28/07 15:27
Received Date: 12/20/07 10:00
Turn Around: 5 days

Work Order #: 7122006

Client Project: IQL2128

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 12/20/07 10:00 with the Chain of Custody document. The samples were received in good condition. The samples were received at 4.5 °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: 7122006
Project ID: IQL2128

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQL2128-01	Client		7122006-01	Water	12/19/07 08:00

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: 7122006
Project ID: IQL2128

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:27

IQL2128-01 7122006-01 (Water) Date Sampled: 12/19/07 08:00

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	W7L0889	12/26/07	12/27/07	jlp	
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W7L0889	12/26/07	12/27/07	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: 7122006
Project ID: IQL2128

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:27

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
Irvine CA, 92614

Report ID: 7122006
Project ID: IQL2128

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:27

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 W7L0889 - EPA 245.1										
Blank (W7L0889-BLK1)				Analyzed: 12/27/07						
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
LCS (W7L0889-BS1)				Analyzed: 12/27/07						
Mercury, Dissolved	1.00	0.20	ug/l	1.00		100	85-115			
Mercury, Total	1.00	0.20	ug/l	1.00		100	85-115			
Matrix Spike (W7L0889-MS1)	**Source: 7121925-01**			Analyzed: 12/27/07						
Mercury, Dissolved	0.882	0.20	ug/l	1.00	ND	88	70-130			
Mercury, Total	0.882	0.20	ug/l	1.00	ND	88	70-130			
Matrix Spike (W7L0889-MS2)	**Source: 7121925-03**			Analyzed: 12/27/07						
Mercury, Dissolved	0.882	0.20	ug/l	1.00	ND	88	70-130			
Mercury, Total	0.882	0.20	ug/l	1.00	ND	88	70-130			
Matrix Spike Dup (W7L0889-MSD1)	**Source: 7121925-01**			Analyzed: 12/27/07						
Mercury, Dissolved	0.909	0.20	ug/l	1.00	ND	91	70-130	3	20	
Mercury, Total	0.909	0.20	ug/l	1.00	ND	91	70-130	3	20	
Matrix Spike Dup (W7L0889-MSD2)	**Source: 7121925-03**			Analyzed: 12/27/07						
Mercury, Dissolved	0.907	0.20	ug/l	1.00	ND	91	70-130	3	20	
Mercury, Total	0.907	0.20	ug/l	1.00	ND	91	70-130	3	20	

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: 7122006
Project ID: IQL2128

Date Received: 12/20/07 10:00
Date Reported: 12/28/07 15:27

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.

SUBCONTRACT ORDER

TestAmerica Irvine 7122006

IQL2128

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-SUB
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: IQL2128-01	**Water**		Sampled: **12/19/07 08:00**	
Mercury - 245.1, Diss -OUT	mg/l	12/28/07	01/16/08 08:00	
Mercury - 245.1-OUT	mg/l	12/28/07	01/16/08 08:00	
Containers Supplied:				
125 mL Poly w/HNO3 (L)	125 mL Poly (M)			

Released By 12/20/07 0700 Date/Time
Received By 12/20/07 0700 4.5 Date/Time
Released By 12/20/07 Date/Time
Received By 12/20/07 10:01 Date/Time