

ATTACHMENT 3

**FILTER DRUM INFLUENT AND EFFLUENT DATA
08/03/06 and 08/10/06**

FILTER DRUM INFLUENT AND EFFLUENT DATA

08/03/06 and 08/10/06

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/16/06 13:06

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH0402-01

CLIENT ID

PT-INF2

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0402

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0402-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08068	0.015	0.040	1.2	1	08/08/06	08/08/06	
Sample ID: IPH0402-01 (PT-INF2 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.54	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08068	4.4	5.0	4.6	1	08/08/06	08/08/06	J
Beryllium	EPA 200.7	6H08068	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	0.026	1	08/08/06	08/08/06	J
Chromium	EPA 200.7	6H08068	2.0	5.0	2.1	1	08/08/06	08/08/06	J
Copper	EPA 200.8	6H08073	0.25	2.0	3.6	1	08/08/06	08/08/06	
Lead	EPA 200.8	6H08073	0.040	1.0	1.3	1	08/08/06	08/08/06	
Manganese	EPA 200.7	6H08068	7.0	20	99	1	08/08/06	08/08/06	
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08068	2.0	10	3.9	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.38	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	0.076	1	08/08/06	08/08/06	J
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08068	15	20	31	1	08/08/06	08/08/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0402-01 (PT-INF2 - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0402-01 (PT-INF2 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.51	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/05/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.75	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.36	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0402-01 (PT-INF2 - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0402-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	37	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H11117	0.43	0.50	1.7	1	08/11/06	08/11/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	170	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	1.1	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08068	1.0	1.0	220	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.90	4.8	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04043	2.2	2.5	88	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H07068	10	10	360	1	08/07/06	08/07/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	11	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	37	1	08/09/06	08/09/06	

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Sample ID: IPH0402-01 (PT-INF2 - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04094	0.040	1.0	17	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0402-01 (PT-INF2 - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.32	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0402-01 (PT-INF2 - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H07070	1.0	1.0	610	1	08/07/06	08/07/06	

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SHORT HOLD TIME DETAIL REPORT

Sample ID: PT-INF2 (IPH0402-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/03/2006 09:45	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 09:45	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 10:15
EPA 300.0	2	08/03/2006 09:45	08/03/2006 19:00	08/04/2006 06:30	08/04/2006 13:15

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08068 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08068-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	0.0852	0.10	0.040	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	7.58	20	7.0	ug/l							J
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08068-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	503	2.0	0.90	ug/l	500		101	85-115			
Chromium	491	5.0	2.0	ug/l	500		98	85-115			
Iron	0.487	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	512	20	7.0	ug/l	500		102	85-115			
Nickel	475	10	2.0	ug/l	500		95	85-115			
Zinc	504	20	15	ug/l	500		101	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08068 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08068-MS1)						Source: IPH0424-02					
Arsenic	518	5.0	4.4	ug/l	500	ND	104	70-130			
Beryllium	507	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	491	5.0	2.0	ug/l	500	2.3	98	70-130			
Iron	0.621	0.040	0.015	mg/l	0.500	0.14	96	70-130			
Manganese	575	20	7.0	ug/l	500	80	99	70-130			
Nickel	471	10	2.0	ug/l	500	4.8	93	70-130			
Zinc	516	20	15	ug/l	500	ND	103	70-130			

Matrix Spike Dup Analyzed: 08/08/2006 (6H08068-MSD1)						Source: IPH0424-02					
Arsenic	502	5.0	4.4	ug/l	500	ND	100	70-130	3	20	
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130	1	20	
Chromium	481	5.0	2.0	ug/l	500	2.3	96	70-130	2	20	
Iron	0.605	0.040	0.015	mg/l	0.500	0.14	93	70-130	3	20	
Manganese	567	20	7.0	ug/l	500	80	97	70-130	1	20	
Nickel	460	10	2.0	ug/l	500	4.8	91	70-130	2	20	
Zinc	509	20	15	ug/l	500	ND	102	70-130	1	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0402

Sampled: 08/03/06
 Received: 08/03/06

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: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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 Report Number: IPH0402

Sampled: 08/03/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04043 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04043-BS1)											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13		106	90-110			
Nitrite-N	1.57	0.15	0.080	mg/l	1.52		103	90-110			
Sulfate	10.0	0.50	0.45	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04043-MS1) Source: IPH0398-01											
Nitrate-N	1.22	0.75	0.40	mg/l	1.13	ND	108	80-120			
Nitrite-N	1.69	0.75	0.40	mg/l	1.52	0.17	100	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	89	90	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04043-MSD1) Source: IPH0398-01											
Nitrate-N	1.14	0.75	0.40	mg/l	1.13	ND	101	80-120	7	20	
Nitrite-N	1.59	0.75	0.40	mg/l	1.52	0.17	93	80-120	6	20	
Sulfate	97.5	2.5	2.2	mg/l	10.0	89	85	80-120	1	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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 R-2A Pond Pilot Test
 Report Number: IPH0402

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 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04070 Extracted: 08/04/06											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
Batch: 6H04094 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04094-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04094-DUP1)											
Turbidity	2.14	1.0	0.040	NTU		Source: IPH0398-01 2.0			7	20	
Batch: 6H04098 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	0.00	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	0.00	pH Units		Source: IPH0396-02 7.97			0	5	
Batch: 6H07068 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07068-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/07/2006 (6H07068-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPH0402

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07068-DUP1)						Source: IPH0436-04					
Total Dissolved Solids	3850	10	10	mg/l		3800			1	10	
<u>Batch: 6H07070 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07070-DUP1)						Source: IPH0436-04					
Specific Conductance	5100	1.0	1.0	umhos/cm		5100			0	5	
<u>Batch: 6H08068 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08068-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6H08075 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)						Source: IPH0391-01					
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)						Source: IPH0391-01					
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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 Report Number: IPH0402

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

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 Report Number: IPH0402

Sampled: 08/03/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H11080 Extracted: 08/11/06</u>											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
<u>Batch: 6H11117 Extracted: 08/11/06</u>											
Blank Analyzed: 08/11/2006 (6H11117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/11/2006 (6H11117-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/11/2006 (6H11117-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 08/11/2006 (6H11117-MS1)						Source: IPH0402-01					
Total Kjeldahl Nitrogen	12.3	0.50	0.43	mg/l	10.0	1.7	106	85-120			
Matrix Spike Dup Analyzed: 08/11/2006 (6H11117-MSD1)						Source: IPH0402-01					
Total Kjeldahl Nitrogen	12.0	0.50	0.43	mg/l	10.0	1.7	103	85-120	2	15	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0402

Sampled: 08/03/06
Received: 08/03/06

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.
- M-NR1** 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, CA
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 R-2A Pond Pilot Test
 Report Number: IPH0402

Sampled: 08/03/06
 Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

Del Mar Analytical CHAIN OF CUSTODY FORM

Version 04/28/06

Client Name/Address:			Project:			ANALYSIS REQUIRED												Field readings																	
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Project Manager: Bronwyn Kelly Sampler: C. Smith			Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test Phone Number: (626) 568-6691 Fax Number: (626) 568-6515			Total Recoverable Metals:	Zn Hardness	Total Dissolved Solids, PH	Alkalinity, Suspended	Sediments Concentration	(ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413 1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-	N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS,	Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals:	Hg Ni, Mn, Sb Se, Ti Fe*	Zn	Comments												
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	As Ag, Be, Cd Cr Cu Pb	Zn Hardness	Total Dissolved Solids, PH	Alkalinity, Suspended	Sediments Concentration	Total Organic Carbon	Oil & Grease (EPA 413 1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-	N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS,	Conductivity	Ammonia-N (NH3-N)	As Ag, Be, Cd Cr Cu Pb	Hg Ni, Mn, Sb Se, Ti Fe*	Zn	Comments												
PT-INF2	W	Poly-1L	1	8-3-06 8:45	HNO3	1	X																												
PT-INF2	W	Poly-1L	1		None	2		X																											
PT-INF2	W	VOAs	2		HCl	3A, 3B				X																									
PT-INF2	W	1L Amber	2		HCl	4A, 4B					X																								
PT-INF2	W	Poly-500 ml	1		H2SO4	5						X																							
PT-INF2	W	Poly-500 ml	1		None	6							X																						
PT-INF2	W	Poly-500 ml	2		None	7A, 7B								X																					
PT-INF2	W	Poly-500 ml	1		H2SO4	8															X														
PT-INF2	W	Poly-1L	1	8-3-06 8:45	None	9																X													
Relinquished By: [Signature]			Date/Time: 8-3-06 1520			Received By: [Signature]			Date/Time: 8/3/06 1520			Turn around Time: (check)			24 Hours			48 Hours			72 Hours			Perchlorate Only 72 Hours			Metals Only 72 Hours			Sample Integrity: (Check) Intact			On Ice: 5		
Relinquished By: [Signature]			Date/Time: 8/3/06 1900			Received By: [Signature]			Date/Time: 8/3/06 1900			Turn around Time: (check)			24 Hours			48 Hours			72 Hours			Perchlorate Only 72 Hours			Metals Only 72 Hours			Sample Integrity: (Check) Intact			On Ice: 5		

1110002

PN2400

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/15/06 11:41

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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
IPH0391-01

CLIENT ID
V-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0391

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0391-01 (V-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08067	0.015	0.040	1.0	1	08/08/06	08/08/06	
Sample ID: IPH0391-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.57	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08067	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08067	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08067	2.0	5.0	2.0	1	08/08/06	08/08/06	J
Copper	EPA 200.8	6H08073	0.25	2.0	3.0	1	08/08/06	08/08/06	
Lead	EPA 200.8	6H08073	0.040	1.0	0.97	1	08/08/06	08/08/06	J
Manganese	EPA 200.7	6H08067	7.0	20	90	1	08/08/06	08/08/06	
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08067	2.0	10	4.8	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.49	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	0.068	1	08/08/06	08/08/06	J
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08067	15	20	19	1	08/08/06	08/08/06	J

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0391

Sampled: 08/03/06
 Received: 08/03/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0391-01 (V-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0391-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.51	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	4.6	1	08/04/06	08/05/06	J
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.78	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	0.44	1	08/08/06	08/08/06	J
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.37	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0391

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 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0391-01 (V-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	0.99	1	08/09/06	08/09/06	
Sample ID: IPH0391-01 (V-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	24	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	11	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	140	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	2.0	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08067	1.0	1.0	220	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04041	2.2	2.5	88	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H04103	10	10	350	1	08/04/06	08/04/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	11	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	24	1	08/09/06	08/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0391-01 (V-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04093	0.040	1.0	13	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0391-01 (V-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.18	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0391-01 (V-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H04102	N/A	1.0	630	1	08/04/06	08/04/06	

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Sampled: 08/03/06
Received: 08/03/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: V-EFF (IPH0391-01) - Water					
EPA 150.1	1	08/03/2006 09:05	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 09:05	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:20
EPA 300.0	2	08/03/2006 09:05	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:29

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 R-2A Pond Pilot Test
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Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006-08/09/2006 (6H08067-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08067-BS1)											
Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Beryllium	500	2.0	0.90	ug/l	500		100	85-115			
Chromium	492	5.0	2.0	ug/l	500		98	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	483	10	2.0	ug/l	500		97	85-115			
Zinc	479	20	15	ug/l	500		96	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08067 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08067-MS1)						Source: IPH0140-05					
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	489	2.0	0.90	ug/l	500	ND	98	70-130			
Chromium	499	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130			
Manganese	926	20	7.0	ug/l	500	450	95	70-130			
Nickel	478	10	2.0	ug/l	500	5.0	95	70-130			
Zinc	494	20	15	ug/l	500	18	95	70-130			
Matrix Spike Analyzed: 08/09/2006 (6H08067-MS2)						Source: IPH0207-04					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	501	5.0	2.0	ug/l	500	2.3	100	70-130			
Iron	0.543	0.040	0.015	mg/l	0.500	0.047	99	70-130			
Manganese	547	20	7.0	ug/l	500	32	103	70-130			
Nickel	492	10	2.0	ug/l	500	3.3	98	70-130			
Zinc	535	20	15	ug/l	500	30	101	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08067-MSD1)						Source: IPH0140-05					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130	2	20	
Beryllium	500	2.0	0.90	ug/l	500	ND	100	70-130	2	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	2	20	
Iron	0.486	0.040	0.015	mg/l	0.500	ND	97	70-130	5	20	
Manganese	949	20	7.0	ug/l	500	450	100	70-130	2	20	
Nickel	467	10	2.0	ug/l	500	5.0	92	70-130	2	20	
Zinc	506	20	15	ug/l	500	18	98	70-130	2	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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Sampled: 08/03/06
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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0391

Sampled: 08/03/06
 Received: 08/03/06

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: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0391

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04041 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04041-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04041-BS1)											
Nitrate-N	1.15	0.15	0.080	mg/l	1.13		102	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Sulfate	10.3	0.50	0.45	mg/l	10.0		103	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04041-MS1) Source: IPH0391-01											
Nitrate-N	1.20	0.75	0.40	mg/l	1.13	ND	106	80-120			
Nitrite-N	1.70	0.75	0.40	mg/l	1.52	ND	112	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	88	100	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04041-MSD1) Source: IPH0391-01											
Nitrate-N	1.19	0.75	0.40	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.76	0.75	0.40	mg/l	1.52	ND	116	80-120	3	20	
Sulfate	100	2.5	2.2	mg/l	10.0	88	120	80-120	2	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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 R-2A Pond Pilot Test
 Report Number: IPH0391

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H04070 Extracted: 08/04/06</u>											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
<u>Batch: 6H04093 Extracted: 08/04/06</u>											
Blank Analyzed: 08/04/2006 (6H04093-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04093-DUP1)											
Turbidity	6.58	1.0	0.040	NTU		Source: IPH0377-38 6.7			2	20	
Duplicate Analyzed: 08/04/2006 (6H04093-DUP2)											
Turbidity	16.8	1.0	0.040	NTU		Source: IPH0377-45 16			5	20	
<u>Batch: 6H04098 Extracted: 08/04/06</u>											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	N/A	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	N/A	pH Units		Source: IPH0396-02 7.97			0	5	
<u>Batch: 6H04102 Extracted: 08/04/06</u>											
Duplicate Analyzed: 08/04/2006 (6H04102-DUP1)											
Specific Conductance	623	1.0	N/A	umhos/cm		Source: IPH0391-01 630			1	5	

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 R-2A Pond Pilot Test
 Report Number: IPH0391

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04103 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04103-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/04/2006 (6H04103-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/04/2006 (6H04103-DUP1)											
						Source: IPH0391-01					
Total Dissolved Solids	355	10	10	mg/l		350			1	10	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08067-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6H08075 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)											
						Source: IPH0391-01					
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)											
						Source: IPH0391-01					
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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 R-2A Pond Pilot Test
 Report Number: IPH0391

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

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 Report Number: IPH0391

Sampled: 08/03/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)											
						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0391

Sampled: 08/03/06
Received: 08/03/06

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.
- M-NR1** 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

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 R-2A Pond Pilot Test
 Report Number: IPH0391

Sampled: 08/03/06
 Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

CHAIN OF CUSTODY FORM

Version 04/28/06

Client Name/Address Del Mar Analytical 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Field readings: Temp = 75.9 pH = 7.2	
Client Name/Address MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project Manager: Bronwyn Kelly		Sampler: R. Burroso		Comments	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	ANALYSIS REQUIRED
V-EFF	W	Poly-1L	1	8/31/06 0905	HNO3	1	Total Recoverable Metals As, Ag, Be, Cd, Cr, Cu, Pb Hg, Ni, Mn, Sb, Se, Ti, Fe* Zn, Hardness
V-EFF	W	Poly-1L	1	8/31/06 0905	None	2	Total Dissolved Solids, pH Alkalinity, Suspended Sediments Concentration (ASTM Method)
V-EFF	W	VOAs	2		HCl	3A, 3B 4A, 4B	Total Organic Carbon Oil & Grease (EPA 413 1) Total Kjeldahl Nitrogen SO4, NO3+NO2-N, Nitrate- N, Nitrite-N (NO3 + NO2-N) Turbidity, TSS, Conductivity Ammonia-N (NH3-N)
V-EFF	W	1L Amber	2	8/31/06 0905	HCl	5	Total Dissolved Metals As, Ag, Be, Cd, Cr, Cu, Pb Hg, Ni, Mn, Sb, Se, Ti, Fe* Zn
V-EFF	W	Poly-500 ml	1		H2SO4	6	Total Organic Carbon Oil & Grease (EPA 413 1) Total Kjeldahl Nitrogen SO4, NO3+NO2-N, Nitrate- N, Nitrite-N (NO3 + NO2-N) Turbidity, TSS, Conductivity Ammonia-N (NH3-N)
V-EFF	W	Poly-500 ml	1	8/31/06 0905	None	7A, 7B	Total Organic Carbon Oil & Grease (EPA 413 1) Total Kjeldahl Nitrogen SO4, NO3+NO2-N, Nitrate- N, Nitrite-N (NO3 + NO2-N) Turbidity, TSS, Conductivity Ammonia-N (NH3-N)
V-EFF	W	Poly-500 ml	2		None	8	Total Organic Carbon Oil & Grease (EPA 413 1) Total Kjeldahl Nitrogen SO4, NO3+NO2-N, Nitrate- N, Nitrite-N (NO3 + NO2-N) Turbidity, TSS, Conductivity Ammonia-N (NH3-N)
V-EFF	W	Poly-500 ml	1	8/31/06 0905	H2SO4	9	Total Organic Carbon Oil & Grease (EPA 413 1) Total Kjeldahl Nitrogen SO4, NO3+NO2-N, Nitrate- N, Nitrite-N (NO3 + NO2-N) Turbidity, TSS, Conductivity Ammonia-N (NH3-N)
V-EFF	W	Poly-1L	1		None	9	Total Organic Carbon Oil & Grease (EPA 413 1) Total Kjeldahl Nitrogen SO4, NO3+NO2-N, Nitrate- N, Nitrite-N (NO3 + NO2-N) Turbidity, TSS, Conductivity Ammonia-N (NH3-N)
Relinquished By R. Burroso		Date/Time: 8/31/06 1520		Received By B.D. Aearh		Date/Time: 8/31/06 1520	
Relinquished By B.D. Aearh		Date/Time: 8/31/06 1900		Received By B.D. Aearh		Date/Time: 8/31/06 1900	
Relinquished By B.D. Aearh		Date/Time: 8/31/06 1900		Received By B.D. Aearh		Date/Time: 8/31/06 1900	

DN 2400

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

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/16/06 10:11

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH0392-01

CLIENT ID

V-DUP-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0392

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0392-01 (V-DUP-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08067	0.015	0.040	0.89	1	08/08/06	08/08/06	
Sample ID: IPH0392-01 (V-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.54	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08067	4.4	5.0	5.2	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08067	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08067	2.0	5.0	2.0	1	08/08/06	08/08/06	J
Copper	EPA 200.8	6H08073	0.25	2.0	2.7	1	08/08/06	08/08/06	
Lead	EPA 200.8	6H08073	0.040	1.0	0.99	1	08/08/06	08/08/06	J
Manganese	EPA 200.7	6H08067	7.0	20	89	1	08/08/06	08/08/06	
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08067	2.0	10	5.2	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.31	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	0.048	1	08/08/06	08/08/06	J
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08067	15	20	19	1	08/08/06	08/08/06	J

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0392

Sampled: 08/03/06
 Received: 08/03/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0392-01 (V-DUP-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0392-01 (V-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.48	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/05/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.78	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.36	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0392

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0392-01 (V-DUP-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0392-01 (V-DUP-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	24	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	1.1	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	150	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	0.84	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08067	1.0	1.0	210	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04041	0.90	1.0	88	2	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H04103	10	10	320	1	08/04/06	08/04/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	11	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	24	1	08/09/06	08/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0392-01 (V-DUP-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04093	0.040	1.0	12	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0392-01 (V-DUP-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.19	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0392-01 (V-DUP-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H04102	1.0	1.0	620	1	08/04/06	08/04/06	

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 Received: 08/03/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: V-DUP-EFF (IPH0392-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/03/2006 09:13	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 09:13	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:20
EPA 300.0	2	08/03/2006 09:13	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:43

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006-08/09/2006 (6H08067-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	0.0808	0.10	0.040	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08067-BS1)											
Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Beryllium	500	2.0	0.90	ug/l	500		100	85-115			
Chromium	492	5.0	2.0	ug/l	500		98	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	483	10	2.0	ug/l	500		97	85-115			
Zinc	479	20	15	ug/l	500		96	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08067 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08067-MS1)						Source: IPH0140-05					
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	489	2.0	0.90	ug/l	500	ND	98	70-130			
Chromium	499	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130			
Manganese	926	20	7.0	ug/l	500	450	95	70-130			
Nickel	478	10	2.0	ug/l	500	5.0	95	70-130			
Zinc	494	20	15	ug/l	500	18	95	70-130			
Matrix Spike Analyzed: 08/09/2006 (6H08067-MS2)						Source: IPH0207-04					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	501	5.0	2.0	ug/l	500	2.3	100	70-130			
Iron	0.543	0.040	0.015	mg/l	0.500	0.047	99	70-130			
Manganese	547	20	7.0	ug/l	500	32	103	70-130			
Nickel	492	10	2.0	ug/l	500	3.3	98	70-130			
Zinc	535	20	15	ug/l	500	30	101	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08067-MSD1)						Source: IPH0140-05					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130	2	20	
Beryllium	500	2.0	0.90	ug/l	500	ND	100	70-130	2	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	2	20	
Iron	0.486	0.040	0.015	mg/l	0.500	ND	97	70-130	5	20	
Manganese	949	20	7.0	ug/l	500	450	100	70-130	2	20	
Nickel	467	10	2.0	ug/l	500	5.0	92	70-130	2	20	
Zinc	506	20	15	ug/l	500	18	98	70-130	2	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0392

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04041 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04041-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04041-BS1)											
Nitrate-N	1.15	0.15	0.080	mg/l	1.13		102	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Sulfate	10.3	0.50	0.45	mg/l	10.0		103	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04041-MS1) Source: IPH0391-01											
Nitrate-N	1.20	0.75	0.40	mg/l	1.13	ND	106	80-120			
Nitrite-N	1.70	0.75	0.40	mg/l	1.52	ND	112	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	88	100	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04041-MSD1) Source: IPH0391-01											
Nitrate-N	1.19	0.75	0.40	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.76	0.75	0.40	mg/l	1.52	ND	116	80-120	3	20	
Sulfate	100	2.5	2.2	mg/l	10.0	88	120	80-120	2	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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 Lisa Reightley For Michele Chamberlin
 Project Manager

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 Report Number: IPH0392

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04070 Extracted: 08/04/06											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
Batch: 6H04093 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04093-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04093-DUP1)											
Turbidity	6.58	1.0	0.040	NTU		Source: IPH0377-38 6.7			2	20	
Duplicate Analyzed: 08/04/2006 (6H04093-DUP2)											
Turbidity	16.8	1.0	0.040	NTU		Source: IPH0377-45 16			5	20	
Batch: 6H04098 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	0.00	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	0.00	pH Units		Source: IPH0396-02 7.97			0	5	
Batch: 6H04102 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04102-DUP1)											
Specific Conductance	623	1.0	1.0	umhos/cm		Source: IPH0391-01 630			1	5	

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Sampled: 08/03/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04103 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04103-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/04/2006 (6H04103-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/04/2006 (6H04103-DUP1)											
Total Dissolved Solids	355	10	10	mg/l		350			1	10	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08067-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6H08075 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)											
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)											
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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 R-2A Pond Pilot Test
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

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 R-2A Pond Pilot Test
 Report Number: IPH0392

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)											
						Source: IPH0179-02					
Alkalinity as CaCO ₃	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO ₃	228	2.0	2.0	mg/l	231		99	90-110			

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R-2A Pond Pilot Test
Report Number: IPH0392

Sampled: 08/03/06
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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.
- M-NR1** 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, CA
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 R-2A Pond Pilot Test
 Report Number: IPH0392

Sampled: 08/03/06
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

IIH0372

Del Mar Analytical

Version 04/28/06

Client Name/Address:
 MWH-Pasadena
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project:
 Boeing-SSFL BMP/NPDES
 R-2A Pond Filtration Pilot Test

Project Manager: Bronwyn Kelly
 Phone Number: (626) 568-6691
 Fax Number: (626) 568-6515

Sampler: K. Barroso

Sample Description	Same Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #
V-DUP-EFF	W	Poly-1L	1	8/30/06 0913	HNO3	1
V-DUP-EFF	W	Poly-1L	1		None	2
V-DUP-EFF	W	VOAs	2		HCl	3A, 3B
V-DUP-EFF	W	1L Amber	2		HCl	4A, 4B
V-DUP-EFF	W	Poly-500 ml	1		H2SO4	5
V-DUP-EFF	W	Poly-500 ml	1		None	6
V-DUP-EFF	W	Poly-500 ml	2		None	7A, 7B
V-DUP-EFF	W	Poly-500 ml	1	8/30/06 0913	H2SO4	8
V-DUP-EFF	W	Poly-1L	1		None	9

ANALYSIS REQUIRED		Field readings	Comments
Total Recoverable Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness	X	Temp = 76° pH = 7.2	
Total Dissolved Solids, pH	X		
Alkalinity, Suspended Sediments Concentration (ASTM Method)	X		
Total Organic Carbon	X		
Oil & Grease (EPA 413 1)	X		
Total Kjeldahl Nitrogen	X		
SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	X		
Turbidity, TSS	X		
Ammonia-N (NH3-N)	X		
Total Dissolved Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn	X		

Relinquished By: M. Barroso
 Date/Time: 8/30/06 1520

Received By: B. Barroso
 Date/Time: 8/30/06 1520

Relinquished By: B. Barroso
 Date/Time: 8/30/06 1900

Received By: E. Barroso
 Date/Time: 9/3/06 1900

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

Perchlorate Only 72 Hours _____

Metals Only 72 Hours _____

Sample Integrity: (Check)
 Intact On Ice: _____

017400

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/16/06 10:29

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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
IPH0393-01

CLIENT ID
P-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0393-01 (P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08067	0.015	0.040	0.69	1	08/08/06	08/08/06	
Sample ID: IPH0393-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.54	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08067	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08067	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08067	2.0	5.0	ND	1	08/08/06	08/08/06	
Copper	EPA 200.8	6H08073	0.25	2.0	2.8	1	08/08/06	08/08/06	
Lead	EPA 200.8	6H08073	0.040	1.0	0.77	1	08/08/06	08/08/06	J
Manganese	EPA 200.7	6H08067	7.0	20	59	1	08/08/06	08/08/06	
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08067	2.0	10	3.9	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.43	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	0.041	1	08/08/06	08/08/06	J
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08067	15	20	21	1	08/08/06	08/08/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0393-01 (P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0393-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.49	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/05/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.82	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.34	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0393-01 (P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0393-01 (P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	18	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	1.1	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	160	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	0.84	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08067	1.0	1.0	210	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04041	2.2	2.5	85	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H04103	10	10	360	1	08/04/06	08/04/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	12	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	18	1	08/09/06	08/09/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0393-01 (P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04093	0.040	1.0	9.3	1	08/04/06	08/04/06	

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0393-01 (P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.15	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0393-01 (P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H04102	1.0	1.0	620	1	08/04/06	08/04/06	

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SHORT HOLD TIME DETAIL REPORT

Sample ID: P-EFF (IPH0393-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/03/2006 08:40	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 08:40	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:20
EPA 300.0	2	08/03/2006 08:40	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:57

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006-08/09/2006 (6H08067-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	0.0808	0.10	0.040	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08067-BS1)											
Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Beryllium	500	2.0	0.90	ug/l	500		100	85-115			
Chromium	492	5.0	2.0	ug/l	500		98	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	483	10	2.0	ug/l	500		97	85-115			
Zinc	479	20	15	ug/l	500		96	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08067 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08067-MS1)						Source: IPH0140-05					
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	489	2.0	0.90	ug/l	500	ND	98	70-130			
Chromium	499	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130			
Manganese	926	20	7.0	ug/l	500	450	95	70-130			
Nickel	478	10	2.0	ug/l	500	5.0	95	70-130			
Zinc	494	20	15	ug/l	500	18	95	70-130			
Matrix Spike Analyzed: 08/09/2006 (6H08067-MS2)						Source: IPH0207-04					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	501	5.0	2.0	ug/l	500	2.3	100	70-130			
Iron	0.543	0.040	0.015	mg/l	0.500	0.047	99	70-130			
Manganese	547	20	7.0	ug/l	500	32	103	70-130			
Nickel	492	10	2.0	ug/l	500	3.3	98	70-130			
Zinc	535	20	15	ug/l	500	30	101	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08067-MSD1)						Source: IPH0140-05					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130	2	20	
Beryllium	500	2.0	0.90	ug/l	500	ND	100	70-130	2	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	2	20	
Iron	0.486	0.040	0.015	mg/l	0.500	ND	97	70-130	5	20	
Manganese	949	20	7.0	ug/l	500	450	100	70-130	2	20	
Nickel	467	10	2.0	ug/l	500	5.0	92	70-130	2	20	
Zinc	506	20	15	ug/l	500	18	98	70-130	2	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04041 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04041-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04041-BS1)											
Nitrate-N	1.15	0.15	0.080	mg/l	1.13		102	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Sulfate	10.3	0.50	0.45	mg/l	10.0		103	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04041-MS1) Source: IPH0391-01											
Nitrate-N	1.20	0.75	0.40	mg/l	1.13	ND	106	80-120			
Nitrite-N	1.70	0.75	0.40	mg/l	1.52	ND	112	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	88	100	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04041-MSD1) Source: IPH0391-01											
Nitrate-N	1.19	0.75	0.40	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.76	0.75	0.40	mg/l	1.52	ND	116	80-120	3	20	
Sulfate	100	2.5	2.2	mg/l	10.0	88	120	80-120	2	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04070 Extracted: 08/04/06											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
Batch: 6H04093 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04093-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04093-DUP1)											
Turbidity	6.58	1.0	0.040	NTU		Source: IPH0377-38 6.7			2	20	
Duplicate Analyzed: 08/04/2006 (6H04093-DUP2)											
Turbidity	16.8	1.0	0.040	NTU		Source: IPH0377-45 16			5	20	
Batch: 6H04098 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	0.00	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	0.00	pH Units		Source: IPH0396-02 7.97			0	5	
Batch: 6H04102 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04102-DUP1)											
Specific Conductance	623	1.0	1.0	umhos/cm		Source: IPH0391-01 630			1	5	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04103 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04103-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/04/2006 (6H04103-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/04/2006 (6H04103-DUP1)											
Total Dissolved Solids	355	10	10	mg/l		350			1	10	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08067-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6H08075 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)											
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)											
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

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 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)											
						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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R-2A Pond Pilot Test
Report Number: IPH0393

Sampled: 08/03/06
Received: 08/03/06

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.
- M-NR1** 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, CA
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 R-2A Pond Pilot Test
 Report Number: IPH0393

Sampled: 08/03/06
 Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

LP10393

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFLL BMP/NPDES R-2A Pond Filtration Pilot Test		Project: Boeing-SSFLL BMP/NPDES R-2A Pond Filtration Pilot Test		Field readings: Temp = 76° pH = 7.1	
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		ANALYSIS REQUIRED		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn Hardness	
Sampler: R. Barroso		Fax Number: (626) 568-6515		Total Dissolved Solids, pH Alkalinity, Suspended Sediments Concentration (ASTM Method)		Ammonia-N (NH3-N) Conductivity	
Sample Description		Sample Matrix		Container Type		# of Cont.	
P-EFF		W		Poly-1L		1	
P-EFF		W		Poly-1L		2	
P-EFF		W		VOAs		3A, 3B	
P-EFF		W		1L Amber		4A, 4B	
P-EFF		W		Poly-500 ml		5	
P-EFF		W		Poly-500 ml		6	
P-EFF		W		Poly-500 ml		7A, 7B	
P-EFF		W		Poly-500 ml		8	
P-EFF		W		Poly-1L		9	
Relinquished By R. Barroso		Date/Time: 9/3/06 1520		Received By B.D. Boehm		Date/Time: 8/3/06 1520	
Relinquished By B.D. Boehm		Date/Time: 8/3/06 1400		Received By		Date/Time:	
Relinquished By		Date/Time:		Received By		Date/Time:	
Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact _____ On Ice: _____		Total Organic Carbon Oil & Grease (EPA 413 1) Total Kjeldahl Nitrogen SC4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) Turbidity, TSS, Conductivity		Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn	
						Comments DNZ400	

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/16/06 10:40

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH0394-01

CLIENT ID

PM-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0394

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0394-01 (PM-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08067	0.015	0.040	0.20	1	08/08/06	08/08/06	
Sample ID: IPH0394-01 (PM-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.49	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08067	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08067	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08067	2.0	5.0	ND	1	08/08/06	08/08/06	
Copper	EPA 200.8	6H08073	0.25	2.0	0.91	1	08/08/06	08/08/06	J
Lead	EPA 200.8	6H08073	0.040	1.0	0.19	1	08/08/06	08/08/06	J
Manganese	EPA 200.7	6H08067	7.0	20	44	1	08/08/06	08/08/06	
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08067	2.0	10	2.8	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.33	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08067	15	20	ND	1	08/08/06	08/08/06	

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPH0394

Sampled: 08/03/06
 Received: 08/03/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0394-01 (PM-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0394-01 (PM-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.46	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/05/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.67	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.36	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

TestAmerica - Irvine, CA
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Sampled: 08/03/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0394-01 (PM-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0394-01 (PM-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	ND	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	0.84	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	160	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	0.84	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08067	1.0	1.0	210	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04041	2.2	2.5	90	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H04103	10	10	340	1	08/04/06	08/04/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	12	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	ND	1	08/09/06	08/09/06	

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Report Number: IPH0394

Sampled: 08/03/06
Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0394-01 (PM-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04093	0.040	1.0	4.5	1	08/04/06	08/04/06	

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Report Number: IPH0394

Sampled: 08/03/06
Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0394-01 (PM-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	7.73	1	08/04/06	08/04/06	

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 Report Number: IPH0394

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0394-01 (PM-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H04102	1.0	1.0	610	1	08/04/06	08/04/06	

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R-2A Pond Pilot Test
Report Number: IPH0394

Sampled: 08/03/06
Received: 08/03/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PM-EFF (IPH0394-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/03/2006 09:50	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 09:50	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:20
EPA 300.0	2	08/03/2006 09:50	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 10:11

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Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006-08/09/2006 (6H08067-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	0.0808	0.10	0.040	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08067-BS1)											
Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Beryllium	500	2.0	0.90	ug/l	500		100	85-115			
Chromium	492	5.0	2.0	ug/l	500		98	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	483	10	2.0	ug/l	500		97	85-115			
Zinc	479	20	15	ug/l	500		96	85-115			

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R-2A Pond Pilot Test
Report Number: IPH0394

Sampled: 08/03/06
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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08067 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08067-MS1)						Source: IPH0140-05					
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	489	2.0	0.90	ug/l	500	ND	98	70-130			
Chromium	499	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130			
Manganese	926	20	7.0	ug/l	500	450	95	70-130			
Nickel	478	10	2.0	ug/l	500	5.0	95	70-130			
Zinc	494	20	15	ug/l	500	18	95	70-130			
Matrix Spike Analyzed: 08/09/2006 (6H08067-MS2)						Source: IPH0207-04					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	501	5.0	2.0	ug/l	500	2.3	100	70-130			
Iron	0.543	0.040	0.015	mg/l	0.500	0.047	99	70-130			
Manganese	547	20	7.0	ug/l	500	32	103	70-130			
Nickel	492	10	2.0	ug/l	500	3.3	98	70-130			
Zinc	535	20	15	ug/l	500	30	101	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08067-MSD1)						Source: IPH0140-05					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130	2	20	
Beryllium	500	2.0	0.90	ug/l	500	ND	100	70-130	2	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	2	20	
Iron	0.486	0.040	0.015	mg/l	0.500	ND	97	70-130	5	20	
Manganese	949	20	7.0	ug/l	500	450	100	70-130	2	20	
Nickel	467	10	2.0	ug/l	500	5.0	92	70-130	2	20	
Zinc	506	20	15	ug/l	500	18	98	70-130	2	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)

Antimony	ND	2.0	0.050	ug/l
Cadmium	ND	1.0	0.025	ug/l
Copper	ND	2.0	0.25	ug/l
Lead	ND	1.0	0.040	ug/l
Selenium	ND	2.0	0.30	ug/l
Silver	ND	1.0	0.025	ug/l
Thallium	ND	1.0	0.15	ug/l

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04041 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04041-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04041-BS1)											
Nitrate-N	1.15	0.15	0.080	mg/l	1.13		102	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Sulfate	10.3	0.50	0.45	mg/l	10.0		103	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04041-MS1) Source: IPH0391-01											
Nitrate-N	1.20	0.75	0.40	mg/l	1.13	ND	106	80-120			
Nitrite-N	1.70	0.75	0.40	mg/l	1.52	ND	112	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	88	100	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04041-MSD1) Source: IPH0391-01											
Nitrate-N	1.19	0.75	0.40	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.76	0.75	0.40	mg/l	1.52	ND	116	80-120	3	20	
Sulfate	100	2.5	2.2	mg/l	10.0	88	120	80-120	2	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04070 Extracted: 08/04/06											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
Batch: 6H04093 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04093-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04093-DUP1)											
Turbidity	6.58	1.0	0.040	NTU		Source: IPH0377-38 6.7			2	20	
Duplicate Analyzed: 08/04/2006 (6H04093-DUP2)											
Turbidity	16.8	1.0	0.040	NTU		Source: IPH0377-45 16			5	20	
Batch: 6H04098 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	0.00	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	0.00	pH Units		Source: IPH0396-02 7.97			0	5	
Batch: 6H04102 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04102-DUP1)											
Specific Conductance	623	1.0	1.0	umhos/cm		Source: IPH0391-01 630			1	5	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04103 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04103-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/04/2006 (6H04103-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/04/2006 (6H04103-DUP1)											
Total Dissolved Solids	355	10	10	mg/l		350			1	10	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08067-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6H08075 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)											
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)											
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0394

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)											
						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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R-2A Pond Pilot Test
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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.
- M-NR1** 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

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 R-2A Pond Pilot Test
 Report Number: IPH0394

Sampled: 08/03/06
 Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

IFH0394

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address:		Project:		ANALYSIS REQUIRED										Field readings				
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Te, Zn Hardness	Total Dissolved Solids, pH	Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413 1)	Total Kjeldahl Nitrogen	SC4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS	Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Te, Zn	Temp = 74° pH = 6.9			
Sample Description	Sample Matrix	Container Type	# of Cont.	Preservative	Bottle #	Sampling Date/Time											Comments	
PM-EFF	W	Poly-1L	1	HNO3	1	8/3/06 0950	X											
PM-EFF	W	Poly-1L	1	None	2		X											
PM-EFF	W	VOAs	2	HCl	3A, 3B			X										
PM-EFF	W	1L Amber	2	HCl	4A, 4B				X									
PM-EFF	W	Poly-500 ml	1	H2SO4	5				X									
PM-EFF	W	Poly-500 ml	1	None	6					X								
PM-EFF	W	Poly-500 ml	2	None	7A, 7B						X							
PM-EFF	W	Poly-500 ml	1	H2SO4	8								X					
PM-EFF	W	Poly-1L	1	None	9									X				
Relinquished By <i>R. Barraso</i>				Date/Time: 8/3/06 1520	Received By <i>BD A. Seebach</i>		Date/Time: 8/3/06 1520	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____										Comments <i>M2401</i>
Relinquished By <i>BD A. Seebach</i>				Date/Time: 8/3/06 0950	Received By		Date/Time:	Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____										
Relinquished By				Date/Time:	Received By <i>Edman</i>		Date/Time: 8/3/06 1400	Sample Integrity: (Check) Intact _____ On Ice: _____										

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/16/06 10:52

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH0395-01

CLIENT ID

LC-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0395

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0395-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08067	0.015	0.040	0.047	1	08/08/06	08/08/06	
Sample ID: IPH0395-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.56	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08067	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08067	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08067	2.0	5.0	ND	1	08/08/06	08/08/06	
Copper	EPA 200.8	6H08073	0.25	2.0	1.3	1	08/08/06	08/08/06	J
Lead	EPA 200.8	6H08073	0.040	1.0	0.20	1	08/08/06	08/08/06	J
Manganese	EPA 200.7	6H08067	7.0	20	9.1	1	08/08/06	08/08/06	J
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08067	2.0	10	2.6	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.36	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08067	15	20	ND	1	08/08/06	08/08/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0395

Sampled: 08/03/06
 Received: 08/03/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0395-01 (LC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0395-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.53	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/05/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	1.2	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.38	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0395

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0395-01 (LC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0395-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	ND	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	4.2	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	160	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	1.1	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08067	1.0	1.0	210	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04041	2.2	2.5	88	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H07068	10	10	360	1	08/07/06	08/07/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	12	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	ND	1	08/09/06	08/09/06	

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Sampled: 08/03/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0395-01 (LC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04093	0.040	1.0	2.0	1	08/04/06	08/04/06	

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Report Number: IPH0395

Sampled: 08/03/06
Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0395-01 (LC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.04	1	08/04/06	08/04/06	

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Sampled: 08/03/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0395-01 (LC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H07070	1.0	1.0	620	1	08/07/06	08/07/06	

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R-2A Pond Pilot Test
Report Number: IPH0395

Sampled: 08/03/06
Received: 08/03/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: LC-EFF (IPH0395-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/03/2006 09:30	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 09:30	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:20
EPA 300.0	2	08/03/2006 09:30	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 10:25

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 R-2A Pond Pilot Test
 Report Number: IPH0395

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006-08/09/2006 (6H08067-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	0.0808	0.10	0.040	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08067-BS1)											
Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Beryllium	500	2.0	0.90	ug/l	500		100	85-115			
Chromium	492	5.0	2.0	ug/l	500		98	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	483	10	2.0	ug/l	500		97	85-115			
Zinc	479	20	15	ug/l	500		96	85-115			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0395

Sampled: 08/03/06
Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08067 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08067-MS1)						Source: IPH0140-05					
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	489	2.0	0.90	ug/l	500	ND	98	70-130			
Chromium	499	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130			
Manganese	926	20	7.0	ug/l	500	450	95	70-130			
Nickel	478	10	2.0	ug/l	500	5.0	95	70-130			
Zinc	494	20	15	ug/l	500	18	95	70-130			
Matrix Spike Analyzed: 08/09/2006 (6H08067-MS2)						Source: IPH0207-04					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	501	5.0	2.0	ug/l	500	2.3	100	70-130			
Iron	0.543	0.040	0.015	mg/l	0.500	0.047	99	70-130			
Manganese	547	20	7.0	ug/l	500	32	103	70-130			
Nickel	492	10	2.0	ug/l	500	3.3	98	70-130			
Zinc	535	20	15	ug/l	500	30	101	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08067-MSD1)						Source: IPH0140-05					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130	2	20	
Beryllium	500	2.0	0.90	ug/l	500	ND	100	70-130	2	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	2	20	
Iron	0.486	0.040	0.015	mg/l	0.500	ND	97	70-130	5	20	
Manganese	949	20	7.0	ug/l	500	450	100	70-130	2	20	
Nickel	467	10	2.0	ug/l	500	5.0	92	70-130	2	20	
Zinc	506	20	15	ug/l	500	18	98	70-130	2	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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 R-2A Pond Pilot Test
 Report Number: IPH0395

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04041 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04041-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04041-BS1)											
Nitrate-N	1.15	0.15	0.080	mg/l	1.13		102	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Sulfate	10.3	0.50	0.45	mg/l	10.0		103	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04041-MS1) Source: IPH0391-01											
Nitrate-N	1.20	0.75	0.40	mg/l	1.13	ND	106	80-120			
Nitrite-N	1.70	0.75	0.40	mg/l	1.52	ND	112	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	88	100	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04041-MSD1) Source: IPH0391-01											
Nitrate-N	1.19	0.75	0.40	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.76	0.75	0.40	mg/l	1.52	ND	116	80-120	3	20	
Sulfate	100	2.5	2.2	mg/l	10.0	88	120	80-120	2	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H04070 Extracted: 08/04/06</u>											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
<u>Batch: 6H04093 Extracted: 08/04/06</u>											
Blank Analyzed: 08/04/2006 (6H04093-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04093-DUP1)											
Turbidity	6.58	1.0	0.040	NTU		Source: IPH0377-38 6.7			2	20	
Duplicate Analyzed: 08/04/2006 (6H04093-DUP2)											
Turbidity	16.8	1.0	0.040	NTU		Source: IPH0377-45 16			5	20	
<u>Batch: 6H04098 Extracted: 08/04/06</u>											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	0.00	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	0.00	pH Units		Source: IPH0396-02 7.97			0	5	
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
Blank Analyzed: 08/07/2006 (6H07068-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
LCS Analyzed: 08/07/2006 (6H07068-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 08/07/2006 (6H07068-DUP1)											
Total Dissolved Solids	3850	10	10	mg/l		3800			1	10	
<u>Batch: 6H07070 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07070-DUP1)											
Specific Conductance	5100	1.0	1.0	umhos/cm		5100			0	5	
<u>Batch: 6H08067 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08067-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6H08075 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)											
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08075 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)						Source: IPH0391-01					
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0395

Sampled: 08/03/06
Received: 08/03/06

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.
- M-NR1** 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, CA
Lisa Reightley For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0395

Sampled: 08/03/06
 Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

1140306

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address:		Project:		ANALYSIS REQUIRED		Field readings								
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Project Manager: Bronwyn Kelly Sampler: <i>R. Barroso</i>		Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Total Recoverable Metals: As Ag, Be, Cd Cr, Cu, Pb Hg, Ni, Mn, Sb, Se, Ti, Te* Zn Hardness		Total Dissolved Solids PH Alkalinity, Suspended Sediments Concentration (ASTM Method)		Temp = <i>76°</i> pH = <i>7.1</i>						
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Organic Carbon	Oil & Grease (EPA 413 1)	Total Kjeldahl Nitrogen	SC4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As Ag, Be, Cd Cr, Cu, Pb Hg, Ni, Mn, Sb, Se, Ti, Te*	Comments
LC-EFF	W	Poly-1L	1	<i>8/31/06 0830</i>	HNO3	1	X							
LC-EFF	W	Poly-1L	1		None	2	X							
LC-EFF	W	VOCs	2		HCl	3A, 3B	X							
LC-EFF	W	1L Amber	2		HCl	4A, 4B		X						
LC-EFF	W	Poly-500 ml	1		H2SO4	5			X					
LC-EFF	W	Poly-500 ml	1		None	6				X				
LC-EFF	W	Poly-500 ml	2		None	7A, 7B					X			
LC-EFF	W	Poly-500 ml	1		H2SO4	8						X		
LC-EFF	W	Poly-1L	1	<i>8/31/06 0930</i>	None	9							X	
<i>9027500</i>														

Relinquished By <i>R. Barroso</i>	Date/Time: <i>8/31/06 1520</i>	Received By <i>BD Speck</i>	Date/Time: <i>8/30/06 1520</i>
Relinquished By <i>BD Speck</i>	Date/Time: <i>8/30/06 0900</i>	Received By	Date/Time:
Relinquished By	Date/Time:	Received By	Date/Time:

Turn around Time: (check) 24 Hours _____ 5 Days _____	48 Hours _____ 10 Days _____	72 Hours _____ Normal _____	X
Perchlorate Only 72 Hours _____	Metals Only 72 Hours _____	Sample Integrity: (Check) Intact _____	On Ice: <i>5</i>

Edward N. 4/3/06 1900

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/16/06 11:05

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH0397-01

CLIENT ID

PT-INF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0397

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0397-01 (PT-INF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08067	0.015	0.040	1.3	1	08/08/06	08/08/06	
Sample ID: IPH0397-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.51	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08067	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08067	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08067	2.0	5.0	2.3	1	08/08/06	08/08/06	J
Copper	EPA 200.8	6H08073	0.25	2.0	3.6	1	08/08/06	08/08/06	
Lead	EPA 200.8	6H08073	0.040	1.0	1.3	1	08/08/06	08/08/06	
Manganese	EPA 200.7	6H08067	7.0	20	98	1	08/08/06	08/08/06	
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08067	2.0	10	5.6	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.43	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	0.054	1	08/08/06	08/08/06	J
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08067	15	20	27	1	08/08/06	08/08/06	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0397

Sampled: 08/03/06
 Received: 08/03/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0397-01 (PT-INF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0397-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.51	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	4.6	1	08/04/06	08/05/06	J
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.77	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.39	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0397

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0397-01 (PT-INF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0397-01 (PT-INF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	76	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	2.5	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	170	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	1.1	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08067	1.0	1.0	220	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04041	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04041	2.2	2.5	87	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H07068	10	10	360	1	08/07/06	08/07/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	11	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	76	1	08/09/06	08/09/06	

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R-2A Pond Pilot Test
Report Number: IPH0397

Sampled: 08/03/06
Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0397-01 (PT-INF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04093	0.040	1.0	16	1	08/04/06	08/04/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0397

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0397-01 (PT-INF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.28	1	08/04/06	08/04/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0397

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0397-01 (PT-INF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H07070	1.0	1.0	610	1	08/07/06	08/07/06	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0397

Sampled: 08/03/06
Received: 08/03/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PT-INF (IPH0397-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/03/2006 10:00	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 10:00	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 09:20
EPA 300.0	2	08/03/2006 10:00	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 10:39

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 R-2A Pond Pilot Test
 Report Number: IPH0397

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006-08/09/2006 (6H08067-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	0.0808	0.10	0.040	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08067-BS1)											
Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Beryllium	500	2.0	0.90	ug/l	500		100	85-115			
Chromium	492	5.0	2.0	ug/l	500		98	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	483	10	2.0	ug/l	500		97	85-115			
Zinc	479	20	15	ug/l	500		96	85-115			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0397

Sampled: 08/03/06
Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08067 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08067-MS1)						Source: IPH0140-05					
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	489	2.0	0.90	ug/l	500	ND	98	70-130			
Chromium	499	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130			
Manganese	926	20	7.0	ug/l	500	450	95	70-130			
Nickel	478	10	2.0	ug/l	500	5.0	95	70-130			
Zinc	494	20	15	ug/l	500	18	95	70-130			
Matrix Spike Analyzed: 08/09/2006 (6H08067-MS2)						Source: IPH0207-04					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	501	5.0	2.0	ug/l	500	2.3	100	70-130			
Iron	0.543	0.040	0.015	mg/l	0.500	0.047	99	70-130			
Manganese	547	20	7.0	ug/l	500	32	103	70-130			
Nickel	492	10	2.0	ug/l	500	3.3	98	70-130			
Zinc	535	20	15	ug/l	500	30	101	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08067-MSD1)						Source: IPH0140-05					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130	2	20	
Beryllium	500	2.0	0.90	ug/l	500	ND	100	70-130	2	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	2	20	
Iron	0.486	0.040	0.015	mg/l	0.500	ND	97	70-130	5	20	
Manganese	949	20	7.0	ug/l	500	450	100	70-130	2	20	
Nickel	467	10	2.0	ug/l	500	5.0	92	70-130	2	20	
Zinc	506	20	15	ug/l	500	18	98	70-130	2	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0397

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0397

Sampled: 08/03/06
Received: 08/03/06

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: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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 Report Number: IPH0397

Sampled: 08/03/06
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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04041 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04041-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04041-BS1)											
Nitrate-N	1.15	0.15	0.080	mg/l	1.13		102	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Sulfate	10.3	0.50	0.45	mg/l	10.0		103	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04041-MS1) Source: IPH0391-01											
Nitrate-N	1.20	0.75	0.40	mg/l	1.13	ND	106	80-120			
Nitrite-N	1.70	0.75	0.40	mg/l	1.52	ND	112	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	88	100	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04041-MSD1) Source: IPH0391-01											
Nitrate-N	1.19	0.75	0.40	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.76	0.75	0.40	mg/l	1.52	ND	116	80-120	3	20	
Sulfate	100	2.5	2.2	mg/l	10.0	88	120	80-120	2	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04070 Extracted: 08/04/06											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
Batch: 6H04093 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04093-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04093-DUP1)											
Turbidity	6.58	1.0	0.040	NTU		Source: IPH0377-38 6.7			2	20	
Duplicate Analyzed: 08/04/2006 (6H04093-DUP2)											
Turbidity	16.8	1.0	0.040	NTU		Source: IPH0377-45 16			5	20	
Batch: 6H04098 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	0.00	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	0.00	pH Units		Source: IPH0396-02 7.97			0	5	
Batch: 6H07068 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07068-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
LCS Analyzed: 08/07/2006 (6H07068-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 08/07/2006 (6H07068-DUP1)											
Total Dissolved Solids	3850	10	10	mg/l		3800			1	10	
<u>Batch: 6H07070 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07070-DUP1)											
Specific Conductance	5100	1.0	1.0	umhos/cm		5100			0	5	
<u>Batch: 6H08067 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08067-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6H08075 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)											
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08075 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)						Source: IPH0391-01					
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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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.
- M-NR1** 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

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
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Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: **MWH-Pasadena**
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Project: **Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Bronwyn Kelly**

Sampler: *R. Barona*

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

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	As Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe ³⁺	Zn Hardness	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe ³⁺	Total Dissolved Solids, pH	Alkalinity, Suspended Solids Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS	Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe ³⁺	Field readings	Comments
PT-INF	W	Poly-1L	1	8-3-06 8:30	HNO3	1	X													Temp = 75°	
PT-INF	W	Poly-1L	1		None	2					X									pH = 7.4	
PT-INF	W	VOAs	2		HCl	3A, 3B						X									
PT-INF	W	1L Amber	2		HCl	4A, 4B							X								
PT-INF	W	Poly-500 ml	1		H2SO4	5								X							
PT-INF	W	Poly-500 ml	1		None	6									X						
PT-INF	W	Poly-500 ml	2		None	7A, 7B										X					
PT-INF	W	Poly-500 ml	1	8-3-06 8:30	H2SO4	8												X			
PT-INF	W	Poly-1L	1		None	9													X		

Relinquished By: *Lin King* Date/Time: 8-3-06 1520
 Received By: *BD Ake* Date/Time: 8/3/06 1520

Relinquished By: *BD Ake* Date/Time: 8/3/06 1400
 Received By: *Sulagna R* Date/Time: 8/3/06 1400

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

BD Ake

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/16/06 11:25

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH0398-01

CLIENT ID

S-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0398

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0398-01 (S-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08067	0.015	0.040	0.071	1	08/08/06	08/08/06	
Sample ID: IPH0398-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.57	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08067	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08067	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08067	2.0	5.0	ND	1	08/08/06	08/08/06	
Copper	EPA 200.8	6H08073	0.25	2.0	1.0	1	08/08/06	08/08/06	J
Lead	EPA 200.8	6H08073	0.040	1.0	0.15	1	08/08/06	08/08/06	J
Manganese	EPA 200.7	6H08067	7.0	20	73	1	08/08/06	08/08/06	
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08067	2.0	10	3.3	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.33	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08067	15	20	ND	1	08/08/06	08/08/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0398

Sampled: 08/03/06
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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0398-01 (S-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0398-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.55	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/05/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	1.1	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.47	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0398

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0398-01 (S-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	0.99	1	08/09/06	08/09/06	
Sample ID: IPH0398-01 (S-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	ND	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	2.0	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	180	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	1.4	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08067	1.0	1.0	210	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04043	0.080	0.15	0.17	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04043	0.080	0.15	0.18	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04043	2.2	2.5	89	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H07068	10	10	400	1	08/07/06	08/07/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	12	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	ND	1	08/09/06	08/09/06	

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Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0398-01 (S-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04094	0.040	1.0	2.0	1	08/04/06	08/04/06	

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Report Number: IPH0398

Sampled: 08/03/06
Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0398-01 (S-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	7.90	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0398-01 (S-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H07070	1.0	1.0	630	1	08/07/06	08/07/06	

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Report Number: IPH0398

Sampled: 08/03/06
Received: 08/03/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: S-EFF (IPH0398-01) - Water					
EPA 150.1	1	08/03/2006 13:07	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 13:07	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 10:15
EPA 300.0	2	08/03/2006 13:07	08/03/2006 19:00	08/04/2006 06:30	08/04/2006 11:54

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 R-2A Pond Pilot Test
 Report Number: IPH0398

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006-08/09/2006 (6H08067-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	0.0808	0.10	0.040	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08067-BS1)											
Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Beryllium	500	2.0	0.90	ug/l	500		100	85-115			
Chromium	492	5.0	2.0	ug/l	500		98	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	483	10	2.0	ug/l	500		97	85-115			
Zinc	479	20	15	ug/l	500		96	85-115			

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Sampled: 08/03/06
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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08067 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08067-MS1)						Source: IPH0140-05					
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	489	2.0	0.90	ug/l	500	ND	98	70-130			
Chromium	499	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130			
Manganese	926	20	7.0	ug/l	500	450	95	70-130			
Nickel	478	10	2.0	ug/l	500	5.0	95	70-130			
Zinc	494	20	15	ug/l	500	18	95	70-130			
Matrix Spike Analyzed: 08/09/2006 (6H08067-MS2)						Source: IPH0207-04					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	501	5.0	2.0	ug/l	500	2.3	100	70-130			
Iron	0.543	0.040	0.015	mg/l	0.500	0.047	99	70-130			
Manganese	547	20	7.0	ug/l	500	32	103	70-130			
Nickel	492	10	2.0	ug/l	500	3.3	98	70-130			
Zinc	535	20	15	ug/l	500	30	101	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08067-MSD1)						Source: IPH0140-05					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130	2	20	
Beryllium	500	2.0	0.90	ug/l	500	ND	100	70-130	2	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	2	20	
Iron	0.486	0.040	0.015	mg/l	0.500	ND	97	70-130	5	20	
Manganese	949	20	7.0	ug/l	500	450	100	70-130	2	20	
Nickel	467	10	2.0	ug/l	500	5.0	92	70-130	2	20	
Zinc	506	20	15	ug/l	500	18	98	70-130	2	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

TestAmerica - Irvine, CA
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 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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 R-2A Pond Pilot Test
 Report Number: IPH0398

Sampled: 08/03/06
 Received: 08/03/06

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: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0398

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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 Report Number: IPH0398

Sampled: 08/03/06
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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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 R-2A Pond Pilot Test
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Sampled: 08/03/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04043 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04043-BS1)											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13		106	90-110			
Nitrite-N	1.57	0.15	0.080	mg/l	1.52		103	90-110			
Sulfate	10.0	0.50	0.45	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04043-MS1) Source: IPH0398-01											
Nitrate-N	1.22	0.75	0.40	mg/l	1.13	ND	108	80-120			
Nitrite-N	1.69	0.75	0.40	mg/l	1.52	0.17	100	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	89	90	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04043-MSD1) Source: IPH0398-01											
Nitrate-N	1.14	0.75	0.40	mg/l	1.13	ND	101	80-120	7	20	
Nitrite-N	1.59	0.75	0.40	mg/l	1.52	0.17	93	80-120	6	20	
Sulfate	97.5	2.5	2.2	mg/l	10.0	89	85	80-120	1	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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 Report Number: IPH0398

Sampled: 08/03/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04070 Extracted: 08/04/06											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
Batch: 6H04094 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04094-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04094-DUP1)											
Turbidity	2.14	1.0	0.040	NTU		Source: IPH0398-01 2.0			7	20	
Batch: 6H04098 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	0.00	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	0.00	pH Units		Source: IPH0396-02 7.97			0	5	
Batch: 6H07068 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07068-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/07/2006 (6H07068-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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 R-2A Pond Pilot Test
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07068-DUP1)						Source: IPH0436-04					
Total Dissolved Solids	3850	10	10	mg/l		3800			1	10	
<u>Batch: 6H07070 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07070-DUP1)						Source: IPH0436-04					
Specific Conductance	5100	1.0	1.0	umhos/cm		5100			0	5	
<u>Batch: 6H08067 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08067-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6H08075 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)						Source: IPH0391-01					
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)						Source: IPH0391-01					
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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 R-2A Pond Pilot Test
 Report Number: IPH0398

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

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 Report Number: IPH0398

Sampled: 08/03/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)											
						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
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Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0398

Sampled: 08/03/06
Received: 08/03/06

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.
- M-NR1** 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, CA
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MWH-Pasadena/Boeing
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 R-2A Pond Pilot Test
 Report Number: IPH0398

Sampled: 08/03/06
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

IPHO392

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test														
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691														
Sampler: <i>R. Barro</i>		Fax Number: (626) 568-6515														
Sample Description	Sample Matrix	Container Type	# of Cont.	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te*, Zn, Hardness	Total Dissolved Solids, PH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate- N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te*, Zn	Field readings: Temp = 77° pH = 7.1	Comments
S-EFF	W	Poly-1L	1	HNO3	1	X	X									
S-EFF	W	Poly-1L	1	None	2		X									
S-EFF	W	VOAs	2	HCl	3A, 3B			X								
S-EFF	W	1L Amber	2	HCl	4A, 4B				X							
S-EFF	W	Poly-500 ml	1	H2SO4	5				X							
S-EFF	W	Poly-500 ml	1	None	6					X						
S-EFF	W	Poly-500 ml	2	None	7A, 7B						X					
S-EFF	W	Poly-500 ml	1	H2SO4	8							X				
S-EFF	W	Poly-1L	1	None	9								X			
Relinquished By <i>R. Barro</i>						Date/Time: 8/3/06 1520		Received By <i>BD A. Acosta</i>		Date/Time: 8/3/06 1520		Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>				
Relinquished By <i>BD A. Acosta</i>						Date/Time: 8/3/06 1400		Received By <i>Edmond N</i>		Date/Time: 8/3/06 1400		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact _____ On Ice: <input checked="" type="checkbox"/>				

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LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/16/06 11:36

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH0399-01

CLIENT ID

Z-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0399-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08067	0.015	0.040	0.095	1	08/08/06	08/08/06	
Sample ID: IPH0399-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.51	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08067	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08067	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08067	2.0	5.0	ND	1	08/08/06	08/08/06	
Copper	EPA 200.8	6H08073	0.25	2.0	0.99	1	08/08/06	08/08/06	J
Lead	EPA 200.8	6H08073	0.040	1.0	0.16	1	08/08/06	08/08/06	J
Manganese	EPA 200.7	6H08067	7.0	20	16	1	08/08/06	08/08/06	J
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08067	2.0	10	3.9	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.37	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08067	15	20	ND	1	08/08/06	08/08/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0399-01 (Z-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0399-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.52	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/05/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.81	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.41	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0399-01 (Z-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0399-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	ND	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	1.1	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	180	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	0.56	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08067	1.0	1.0	210	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.90	4.8	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04043	2.2	2.5	88	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H07068	10	10	370	1	08/07/06	08/07/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	11	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	ND	1	08/09/06	08/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0399-01 (Z-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04094	0.040	1.0	3.0	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0399-01 (Z-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.02	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0399-01 (Z-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H07070	1.0	1.0	630	1	08/07/06	08/07/06	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Z-EFF (IPH0399-01) - Water					
EPA 150.1	1	08/03/2006 10:11	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 10:11	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 10:15
EPA 300.0	2	08/03/2006 10:11	08/03/2006 19:00	08/04/2006 06:30	08/04/2006 12:14

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08067 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006-08/09/2006 (6H08067-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	0.0808	0.10	0.040	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08067-BS1)											
Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Beryllium	500	2.0	0.90	ug/l	500		100	85-115			
Chromium	492	5.0	2.0	ug/l	500		98	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	483	10	2.0	ug/l	500		97	85-115			
Zinc	479	20	15	ug/l	500		96	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08067 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08067-MS1)						Source: IPH0140-05					
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	489	2.0	0.90	ug/l	500	ND	98	70-130			
Chromium	499	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130			
Manganese	926	20	7.0	ug/l	500	450	95	70-130			
Nickel	478	10	2.0	ug/l	500	5.0	95	70-130			
Zinc	494	20	15	ug/l	500	18	95	70-130			
Matrix Spike Analyzed: 08/09/2006 (6H08067-MS2)						Source: IPH0207-04					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	501	5.0	2.0	ug/l	500	2.3	100	70-130			
Iron	0.543	0.040	0.015	mg/l	0.500	0.047	99	70-130			
Manganese	547	20	7.0	ug/l	500	32	103	70-130			
Nickel	492	10	2.0	ug/l	500	3.3	98	70-130			
Zinc	535	20	15	ug/l	500	30	101	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08067-MSD1)						Source: IPH0140-05					
Arsenic	514	5.0	4.4	ug/l	500	ND	103	70-130	2	20	
Beryllium	500	2.0	0.90	ug/l	500	ND	100	70-130	2	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	2	20	
Iron	0.486	0.040	0.015	mg/l	0.500	ND	97	70-130	5	20	
Manganese	949	20	7.0	ug/l	500	450	100	70-130	2	20	
Nickel	467	10	2.0	ug/l	500	5.0	92	70-130	2	20	
Zinc	506	20	15	ug/l	500	18	98	70-130	2	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
 Received: 08/03/06

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: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04043 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04043-BS1)											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13		106	90-110			
Nitrite-N	1.57	0.15	0.080	mg/l	1.52		103	90-110			
Sulfate	10.0	0.50	0.45	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04043-MS1) Source: IPH0398-01											
Nitrate-N	1.22	0.75	0.40	mg/l	1.13	ND	108	80-120			
Nitrite-N	1.69	0.75	0.40	mg/l	1.52	0.17	100	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	89	90	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04043-MSD1) Source: IPH0398-01											
Nitrate-N	1.14	0.75	0.40	mg/l	1.13	ND	101	80-120	7	20	
Nitrite-N	1.59	0.75	0.40	mg/l	1.52	0.17	93	80-120	6	20	
Sulfate	97.5	2.5	2.2	mg/l	10.0	89	85	80-120	1	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H04070 Extracted: 08/04/06</u>											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
<u>Batch: 6H04094 Extracted: 08/04/06</u>											
Blank Analyzed: 08/04/2006 (6H04094-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04094-DUP1)											
Turbidity	2.14	1.0	0.040	NTU		Source: IPH0398-01 2.0			7	20	
<u>Batch: 6H04098 Extracted: 08/04/06</u>											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	0.00	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	0.00	pH Units		Source: IPH0396-02 7.97			0	5	
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
Blank Analyzed: 08/07/2006 (6H07068-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/07/2006 (6H07068-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07068-DUP1)						Source: IPH0436-04					
Total Dissolved Solids	3850	10	10	mg/l		3800			1	10	
<u>Batch: 6H07070 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07070-DUP1)						Source: IPH0436-04					
Specific Conductance	5100	1.0	1.0	umhos/cm		5100			0	5	
<u>Batch: 6H08067 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08067-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6H08075 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)						Source: IPH0391-01					
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)						Source: IPH0391-01					
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)											
						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH0399

Sampled: 08/03/06
Received: 08/03/06

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.
- M-NR1** 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, CA
Lisa Reightley For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0399

Sampled: 08/03/06
 Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

1970369

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address:
 MWH-Pasadena
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
Project Manager: Bronwyn Kelly
Sampler: [Signature]

Project:
 Boeing-SSFL BMP/NPDES
 R-2A Pond Filtration Pilot Test

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: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn	Total Dissolved Solids, pH Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon Oil & Grease (EPA 413 1)	Total Kjeldahl Nitrogen SO4, NO3+NO2-N, Nitrate- N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te	Field readings Temp = 75° pH = 7.3	Comments
Z-EFF	W	Poly-1L	1	8-3-06	HNO3	1	X	X							
Z-EFF	W	Poly-1L	1	8-3-06	None	2		X							
Z-EFF	W	VOAs	2		HCl	3A, 3B			X						
Z-EFF	W	1L Amber	2		HCl	4A, 4B			X						
Z-EFF	W	Poly-500 ml	1		H2SO4	5			X						
Z-EFF	W	Poly-500 ml	1		None	6				X					
Z-EFF	W	Poly-500 ml	2		None	7A, 7B					X				
Z-EFF	W	Poly-500 ml	1	8-3-06	H2SO4	8						X			
Z-EFF	W	Poly-1L	1	10-11	None	9							X		

Relinquished By: [Signature] **Date/Time:** 8-3-06 1520
Received By: [Signature] **Date/Time:** 8/3/06 1520

Relinquished By: [Signature] **Date/Time:** 8-3-06 10:11
Received By: [Signature] **Date/Time:** 8/3/06 1900

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

1970369

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/24/06 19:21

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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
IPH0400-01

CLIENT ID
AC-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0400

Sampled: 08/03/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0400-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08068	0.015	0.040	0.12	1	08/08/06	08/08/06	
Sample ID: IPH0400-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.54	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08068	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08068	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08068	2.0	5.0	ND	1	08/08/06	08/08/06	
Copper	EPA 200.8	6H08073	0.25	2.0	0.57	1	08/08/06	08/08/06	J
Lead	EPA 200.8	6H08073	0.040	1.0	0.21	1	08/08/06	08/08/06	J
Manganese	EPA 200.7	6H08068	7.0	20	23	1	08/08/06	08/08/06	B
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08068	2.0	10	2.0	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.31	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08068	15	20	ND	1	08/08/06	08/08/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0400

Sampled: 08/03/06
 Received: 08/03/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0400-01 (AC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0400-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.46	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/23/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.48	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	ND	1	08/08/06	08/08/06	
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0400

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0400-01 (AC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	0.99	1	08/09/06	08/09/06	
Sample ID: IPH0400-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	ND	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	2.2	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	180	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	0.84	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08068	1.0	1.0	220	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04043	2.2	2.5	88	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H07068	10	10	360	1	08/07/06	08/07/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	6.4	1	08/08/06	08/08/06	B
Total Suspended Solids	EPA 160.2	6H09125	10	10	ND	1	08/09/06	08/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0400-01 (AC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04094	0.040	1.0	3.5	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0400-01 (AC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.38	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0400-01 (AC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H07070	N/A	1.0	620	1	08/07/06	08/07/06	

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SHORT HOLD TIME DETAIL REPORT

Sample ID: AC-EFF (IPH0400-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/03/2006 10:15	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 10:15	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 10:15
EPA 300.0	2	08/03/2006 10:15	08/03/2006 19:00	08/04/2006 06:30	08/04/2006 12:34

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08068 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08068-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	7.58	20	7.0	ug/l							J
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08068-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	503	2.0	0.90	ug/l	500		101	85-115			
Chromium	491	5.0	2.0	ug/l	500		98	85-115			
Iron	0.487	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	512	20	7.0	ug/l	500		102	85-115			
Nickel	475	10	2.0	ug/l	500		95	85-115			
Zinc	504	20	15	ug/l	500		101	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08068 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08068-MS1)						Source: IPH0424-02					
Arsenic	518	5.0	4.4	ug/l	500	ND	104	70-130			
Beryllium	507	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	491	5.0	2.0	ug/l	500	2.3	98	70-130			
Iron	0.621	0.040	0.015	mg/l	0.500	0.14	96	70-130			
Manganese	575	20	7.0	ug/l	500	80	99	70-130			
Nickel	471	10	2.0	ug/l	500	4.8	93	70-130			
Zinc	516	20	15	ug/l	500	ND	103	70-130			

Matrix Spike Dup Analyzed: 08/08/2006 (6H08068-MSD1)						Source: IPH0424-02					
Arsenic	502	5.0	4.4	ug/l	500	ND	100	70-130	3	20	
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130	1	20	
Chromium	481	5.0	2.0	ug/l	500	2.3	96	70-130	2	20	
Iron	0.605	0.040	0.015	mg/l	0.500	0.14	93	70-130	3	20	
Manganese	567	20	7.0	ug/l	500	80	97	70-130	1	20	
Nickel	460	10	2.0	ug/l	500	4.8	91	70-130	2	20	
Zinc	509	20	15	ug/l	500	ND	102	70-130	1	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0400

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04043 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04043-BS1)											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13		106	90-110			
Nitrite-N	1.57	0.15	0.080	mg/l	1.52		103	90-110			
Sulfate	10.0	0.50	0.45	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04043-MS1) Source: IPH0398-01											
Nitrate-N	1.22	0.75	0.40	mg/l	1.13	ND	108	80-120			
Nitrite-N	1.69	0.75	0.40	mg/l	1.52	0.17	100	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	89	90	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04043-MSD1) Source: IPH0398-01											
Nitrate-N	1.14	0.75	0.40	mg/l	1.13	ND	101	80-120	7	20	
Nitrite-N	1.59	0.75	0.40	mg/l	1.52	0.17	93	80-120	6	20	
Sulfate	97.5	2.5	2.2	mg/l	10.0	89	85	80-120	1	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H04070 Extracted: 08/04/06											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
Batch: 6H04094 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04094-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04094-DUP1)											
Turbidity	2.14	1.0	0.040	NTU		Source: IPH0398-01 2.0			7	20	
Batch: 6H04098 Extracted: 08/04/06											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	N/A	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	N/A	pH Units		Source: IPH0396-02 7.97			0	5	
Batch: 6H07068 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07068-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/07/2006 (6H07068-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07068-DUP1)						Source: IPH0436-04					
Total Dissolved Solids	3850	10	10	mg/l		3800			1	10	
<u>Batch: 6H07070 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07070-DUP1)						Source: IPH0436-04					
Specific Conductance	5100	1.0	N/A	umhos/cm		5100			0	5	
<u>Batch: 6H08068 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08068-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6H08075 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)						Source: IPH0391-01					
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)						Source: IPH0391-01					
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)											
						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-NR1** 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

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Michele Chamberlin
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IPHOX400

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address:		Project:		ANALYSIS REQUIRED										Field readings							
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Project Manager: Bronwyn Kelly		Boeing-SSFL BMP/IPDES R-2A Pond Filtration Pilot Test		Sample Description	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn Hardness	Total Dissolved Solids, pH	Alkalinity, Suspended Sediments Concentration	Total Organic Carbon (ASTM Method)	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS	Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn	Comments
AC-EFF	W	Poly-1L	1	8/3/06 10:5	HNO3	1	X														Temp = 76° pH = 7.9
AC-EFF	W	Poly-1L	1		None	2					X										
AC-EFF	W	VOAs	2		HCl	3A, 3B 4A, 4B							X								
AC-EFF	W	1L Amber	2		HCl									X							
AC-EFF	W	Poly-500 ml	1		H2SO4	5								X							
AC-EFF	W	Poly-500 ml	1		None	6								X							
AC-EFF	W	Poly-500 ml	2		None	7A, 7B								X							
AC-EFF	W	Poly-500 ml	1		H2SO4	8								X							
AC-EFF	W	Poly-1L	1	8/3/06 10:5	None	9														X	
Relinquished By <i>R. Barron</i>		Date/Time: 8/3/06 1520		Received By <i>BD Spear</i>		Date/Time: 8/3/06 1520		Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____		Perchlorate Only 72 Hours _____		Metals Only 72 Hours _____		Sample Integrity: (Check) Intact _____ On Ice: _____							
Relinquished By <i>BD Spear</i>		Date/Time: 8/3/06 1900		Received By <i>Elaine N</i>		Date/Time: 8/3/06 1900															

DN 2400

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/03/06
Received: 08/03/06
Issued: 08/24/06 19:23

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH0401-01

CLIENT ID

BST-EFF

MATRIX

Water

Reviewed By:



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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0401

Sampled: 08/03/06
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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0401-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H08068	0.015	0.040	0.66	1	08/08/06	08/08/06	
Sample ID: IPH0401-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H08073	0.050	2.0	0.50	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7	6H08068	4.4	5.0	ND	1	08/08/06	08/08/06	
Beryllium	EPA 200.7	6H08068	0.90	2.0	ND	1	08/08/06	08/08/06	
Cadmium	EPA 200.8	6H08073	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7	6H08068	2.0	5.0	ND	1	08/08/06	08/08/06	
Copper	EPA 200.8	6H08073	0.25	2.0	3.0	1	08/08/06	08/08/06	
Lead	EPA 200.8	6H08073	0.040	1.0	1.4	1	08/08/06	08/08/06	
Manganese	EPA 200.7	6H08068	7.0	20	90	1	08/08/06	08/08/06	
Mercury	EPA 245.1	6H07077	0.15	0.20	ND	1	08/07/06	08/07/06	
Nickel	EPA 200.7	6H08068	2.0	10	7.0	1	08/08/06	08/08/06	J
Selenium	EPA 200.8	6H08073	0.30	2.0	0.40	1	08/08/06	08/08/06	J
Silver	EPA 200.8	6H08073	0.025	1.0	0.039	1	08/08/06	08/08/06	J
Thallium	EPA 200.8	6H08073	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7	6H08068	15	20	20	1	08/08/06	08/08/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0401-01 (BST-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H04148	0.015	0.040	ND	1	08/04/06	08/05/06	
Sample ID: IPH0401-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H08074	0.050	2.0	0.47	1	08/08/06	08/08/06	J
Arsenic	EPA 200.7-Diss	6H04148	4.4	5.0	ND	1	08/04/06	08/23/06	
Beryllium	EPA 200.7-Diss	6H04148	0.90	2.0	ND	1	08/04/06	08/05/06	
Cadmium	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Chromium	EPA 200.7-Diss	6H04148	2.0	5.0	ND	1	08/04/06	08/05/06	
Copper	EPA 200.8-Diss	6H08074	0.25	2.0	0.65	1	08/08/06	08/08/06	J
Lead	EPA 200.8-Diss	6H08074	0.040	1.0	ND	1	08/08/06	08/08/06	
Manganese	EPA 200.7-Diss	6H04148	7.0	20	ND	1	08/04/06	08/05/06	
Mercury	EPA 245.1-Diss	6H08094	0.15	0.20	ND	1	08/08/06	08/08/06	
Nickel	EPA 200.7-Diss	6H04148	2.0	10	ND	1	08/04/06	08/05/06	
Selenium	EPA 200.8-Diss	6H08074	0.30	2.0	0.35	1	08/08/06	08/08/06	J
Silver	EPA 200.8-Diss	6H08074	0.025	1.0	ND	1	08/08/06	08/08/06	
Thallium	EPA 200.8-Diss	6H08074	0.15	1.0	ND	1	08/08/06	08/08/06	
Zinc	EPA 200.7-Diss	6H04148	15	20	ND	1	08/04/06	08/05/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0401-01 (BST-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0401-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H11065	10	10	22	1	08/11/06	08/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H10124	0.43	0.50	2.0	1	08/10/06	08/10/06	
Alkalinity as CaCO3	EPA 310.1	6H11080	2.0	2.0	160	1	08/11/06	08/11/06	
Ammonia-N (Distilled)	EPA 350.2	6H08123	0.30	0.50	0.56	1	08/08/06	08/08/06	
Hardness (as CaCO3)	SM2340B	6H08068	1.0	1.0	220	1	08/08/06	08/08/06	
Nitrate-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrite-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Nitrate/Nitrite-N	EPA 300.0	6H04043	0.080	0.15	ND	1	08/04/06	08/04/06	
Oil & Grease	EPA 413.1	6H04070	0.89	4.7	ND	1	08/04/06	08/04/06	
Sulfate	EPA 300.0	6H04043	2.2	2.5	87	5	08/04/06	08/04/06	
Total Dissolved Solids	SM2540C	6H07068	10	10	360	1	08/07/06	08/07/06	
Total Organic Carbon	EPA 415.1	6H08075	0.50	1.0	12	1	08/08/06	08/08/06	
Total Suspended Solids	EPA 160.2	6H09125	10	10	22	1	08/09/06	08/09/06	

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 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0401-01 (BST-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H04094	0.040	1.0	10	1	08/04/06	08/04/06	

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 R-2A Pond Pilot Test
 Report Number: IPH0401

Sampled: 08/03/06
 Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0401-01 (BST-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H04098	N/A	NA	8.04	1	08/04/06	08/04/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0401-01 (BST-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H07070	N/A	1.0	620	1	08/07/06	08/07/06	

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SHORT HOLD TIME DETAIL REPORT

Sample ID: BST-EFF (IPH0401-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/03/2006 10:05	08/03/2006 19:00	08/04/2006 06:10	08/04/2006 07:20
EPA 180.1	2	08/03/2006 10:05	08/03/2006 19:00	08/04/2006 07:00	08/04/2006 10:15
EPA 300.0	2	08/03/2006 10:05	08/03/2006 19:00	08/04/2006 06:30	08/04/2006 12:55

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07077 Extracted: 08/07/06											
Blank Analyzed: 08/07/2006 (6H07077-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/07/2006 (6H07077-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/07/2006 (6H07077-MS1)											
						Source: IPH0210-21					
Mercury	7.07	0.20	0.15	ug/l	8.00	ND	88	70-130			
Matrix Spike Dup Analyzed: 08/07/2006 (6H07077-MSD1)											
						Source: IPH0210-21					
Mercury	7.06	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6H08068 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08068-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	7.58	20	7.0	ug/l							J
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/08/2006 (6H08068-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	503	2.0	0.90	ug/l	500		101	85-115			
Chromium	491	5.0	2.0	ug/l	500		98	85-115			
Iron	0.487	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	512	20	7.0	ug/l	500		102	85-115			
Nickel	475	10	2.0	ug/l	500		95	85-115			
Zinc	504	20	15	ug/l	500		101	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08068 Extracted: 08/08/06											
Matrix Spike Analyzed: 08/08/2006 (6H08068-MS1)						Source: IPH0424-02					
Arsenic	518	5.0	4.4	ug/l	500	ND	104	70-130			
Beryllium	507	2.0	0.90	ug/l	500	ND	101	70-130			
Chromium	491	5.0	2.0	ug/l	500	2.3	98	70-130			
Iron	0.621	0.040	0.015	mg/l	0.500	0.14	96	70-130			
Manganese	575	20	7.0	ug/l	500	80	99	70-130			
Nickel	471	10	2.0	ug/l	500	4.8	93	70-130			
Zinc	516	20	15	ug/l	500	ND	103	70-130			

Matrix Spike Dup Analyzed: 08/08/2006 (6H08068-MSD1)						Source: IPH0424-02					
Arsenic	502	5.0	4.4	ug/l	500	ND	100	70-130	3	20	
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130	1	20	
Chromium	481	5.0	2.0	ug/l	500	2.3	96	70-130	2	20	
Iron	0.605	0.040	0.015	mg/l	0.500	0.14	93	70-130	3	20	
Manganese	567	20	7.0	ug/l	500	80	97	70-130	1	20	
Nickel	460	10	2.0	ug/l	500	4.8	91	70-130	2	20	
Zinc	509	20	15	ug/l	500	ND	102	70-130	1	20	

Batch: 6H08073 Extracted: 08/08/06

Blank Analyzed: 08/08/2006 (6H08073-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08073 Extracted: 08/08/06											
LCS Analyzed: 08/08/2006 (6H08073-BS1)											
Antimony	83.5	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	85.0	1.0	0.025	ug/l	80.0		106	85-115			
Copper	77.6	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	84.1	2.0	0.30	ug/l	80.0		105	85-115			
Silver	80.7	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS1) Source: IPH0400-01											
Antimony	91.2	2.0	0.050	ug/l	80.0	0.54	113	70-130			
Cadmium	87.9	1.0	0.025	ug/l	80.0	ND	110	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	0.57	92	70-130			
Lead	77.0	1.0	0.040	ug/l	80.0	0.21	96	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.31	102	70-130			
Silver	83.1	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08073-MS2) Source: IPH0398-01											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.57	105	70-130			
Cadmium	86.5	1.0	0.025	ug/l	80.0	ND	108	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	1.0	92	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.15	94	70-130			
Selenium	78.1	2.0	0.30	ug/l	80.0	0.33	97	70-130			
Silver	83.0	1.0	0.025	ug/l	80.0	ND	104	70-130			
Thallium	69.7	1.0	0.15	ug/l	80.0	ND	87	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08073-MSD1) Source: IPH0400-01											
Antimony	85.0	2.0	0.050	ug/l	80.0	0.54	106	70-130	7	20	
Cadmium	86.9	1.0	0.025	ug/l	80.0	ND	109	70-130	1	20	
Copper	73.8	2.0	0.25	ug/l	80.0	0.57	92	70-130	0	20	
Lead	75.9	1.0	0.040	ug/l	80.0	0.21	95	70-130	1	20	
Selenium	81.5	2.0	0.30	ug/l	80.0	0.31	101	70-130	1	20	
Silver	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130	0	20	
Thallium	69.6	1.0	0.15	ug/l	80.0	ND	87	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04148 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04148-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/05/2006 (6H04148-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	965	2.0	0.90	ug/l	1000		96	85-115			
Chromium	958	5.0	2.0	ug/l	1000		96	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	965	20	7.0	ug/l	1000		96	85-115			
Nickel	974	10	2.0	ug/l	1000		97	85-115			
Zinc	980	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 08/05/2006 (6H04148-MS1) Source: IPH0391-01											
Arsenic	1030	5.0	4.4	ug/l	1000	4.6	103	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	975	5.0	2.0	ug/l	1000	ND	98	70-130			
Iron	0.973	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	955	20	7.0	ug/l	1000	ND	96	70-130			
Nickel	969	10	2.0	ug/l	1000	ND	97	70-130			
Zinc	1000	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Dup Analyzed: 08/05/2006 (6H04148-MSD1) Source: IPH0391-01											
Arsenic	1020	5.0	4.4	ug/l	1000	4.6	102	70-130	1	20	
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130	1	20	
Chromium	972	5.0	2.0	ug/l	1000	ND	97	70-130	0	20	
Iron	0.972	0.040	0.015	mg/l	1.00	ND	97	70-130	0	20	
Manganese	963	20	7.0	ug/l	1000	ND	96	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08074-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08074-BS1)											
Antimony	72.8	2.0	0.050	ug/l	80.0		91	85-115			
Cadmium	75.1	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	69.3	1.0	0.025	ug/l	80.0		87	85-115			
Thallium	75.7	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS1) Source: IPH0400-01											
Antimony	78.1	2.0	0.050	ug/l	80.0	0.46	97	70-130			
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130			
Copper	73.0	2.0	0.25	ug/l	80.0	0.48	91	70-130			
Lead	77.9	1.0	0.040	ug/l	80.0	ND	97	70-130			
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	70.3	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	70.3	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Analyzed: 08/08/2006 (6H08074-MS2) Source: IPH0398-01											
Antimony	84.9	2.0	0.050	ug/l	80.0	0.55	105	70-130			
Cadmium	82.9	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.9	2.0	0.25	ug/l	80.0	1.1	94	70-130			
Lead	78.4	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	79.6	2.0	0.30	ug/l	80.0	0.47	99	70-130			
Silver	76.4	1.0	0.025	ug/l	80.0	ND	96	70-130			
Thallium	71.2	1.0	0.15	ug/l	80.0	ND	89	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08074 Extracted: 08/08/06											
Matrix Spike Dup Analyzed: 08/08/2006 (6H08074-MSD1)						Source: IPH0400-01					
Antimony	81.0	2.0	0.050	ug/l	80.0	0.46	101	70-130	4	20	
Cadmium	80.1	1.0	0.025	ug/l	80.0	ND	100	70-130	3	20	
Copper	75.3	2.0	0.25	ug/l	80.0	0.48	94	70-130	3	20	
Lead	79.8	1.0	0.040	ug/l	80.0	ND	100	70-130	2	20	
Selenium	79.9	2.0	0.30	ug/l	80.0	ND	100	70-130	4	20	
Silver	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130	4	20	
Thallium	72.8	1.0	0.15	ug/l	80.0	ND	91	70-130	3	20	
Batch: 6H08094 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/08/2006 (6H08094-BS1)											
Mercury	8.16	0.20	0.15	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 08/08/2006 (6H08094-MS1)						Source: IPH0670-01					
Mercury	7.29	0.20	0.15	ug/l	8.00	ND	91	70-130			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08094-MSD1)						Source: IPH0670-01					
Mercury	7.27	0.20	0.15	ug/l	8.00	ND	91	70-130	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H04043 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/04/2006 (6H04043-BS1)											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13		106	90-110			
Nitrite-N	1.57	0.15	0.080	mg/l	1.52		103	90-110			
Sulfate	10.0	0.50	0.45	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 08/04/2006 (6H04043-MS1) Source: IPH0398-01											
Nitrate-N	1.22	0.75	0.40	mg/l	1.13	ND	108	80-120			
Nitrite-N	1.69	0.75	0.40	mg/l	1.52	0.17	100	80-120			
Sulfate	98.0	2.5	2.2	mg/l	10.0	89	90	80-120			
Matrix Spike Dup Analyzed: 08/04/2006 (6H04043-MSD1) Source: IPH0398-01											
Nitrate-N	1.14	0.75	0.40	mg/l	1.13	ND	101	80-120	7	20	
Nitrite-N	1.59	0.75	0.40	mg/l	1.52	0.17	93	80-120	6	20	
Sulfate	97.5	2.5	2.2	mg/l	10.0	89	85	80-120	1	20	
Batch: 6H04070 Extracted: 08/04/06											
Blank Analyzed: 08/04/2006 (6H04070-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/04/2006 (6H04070-BS1) M-NR1											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H04070 Extracted: 08/04/06</u>											
LCS Dup Analyzed: 08/04/2006 (6H04070-BSD1)											
Oil & Grease	17.8	5.0	0.94	mg/l	20.0		89	65-120	1	20	
<u>Batch: 6H04094 Extracted: 08/04/06</u>											
Blank Analyzed: 08/04/2006 (6H04094-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/04/2006 (6H04094-DUP1)											
Turbidity	2.14	1.0	0.040	NTU		Source: IPH0398-01 2.0			7	20	
<u>Batch: 6H04098 Extracted: 08/04/06</u>											
Duplicate Analyzed: 08/04/2006 (6H04098-DUP1)											
pH	7.88	NA	N/A	pH Units		Source: IPH0370-01 7.87			0	5	
Duplicate Analyzed: 08/04/2006 (6H04098-DUP2)											
pH	7.99	NA	N/A	pH Units		Source: IPH0396-02 7.97			0	5	
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
Blank Analyzed: 08/07/2006 (6H07068-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/07/2006 (6H07068-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH0401

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H07068 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07068-DUP1)						Source: IPH0436-04					
Total Dissolved Solids	3850	10	10	mg/l		3800			1	10	
<u>Batch: 6H07070 Extracted: 08/07/06</u>											
Duplicate Analyzed: 08/07/2006 (6H07070-DUP1)						Source: IPH0436-04					
Specific Conductance	5100	1.0	N/A	umhos/cm		5100			0	5	
<u>Batch: 6H08068 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08068-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6H08075 Extracted: 08/08/06</u>											
Blank Analyzed: 08/08/2006 (6H08075-BLK1)											
Total Organic Carbon	0.700	1.0	0.25	mg/l							J
LCS Analyzed: 08/08/2006 (6H08075-BS1)											
Total Organic Carbon	10.8	1.0	0.25	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 08/08/2006 (6H08075-MS1)						Source: IPH0391-01					
Total Organic Carbon	16.5	1.0	0.25	mg/l	5.00	11	110	80-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08075-MSD1)						Source: IPH0391-01					
Total Organic Carbon	16.7	1.0	0.25	mg/l	5.00	11	114	80-120	1	20	

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 Report Number: IPH0401

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08123 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08123-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/08/2006 (6H08123-BS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0		112	80-115			
Matrix Spike Analyzed: 08/08/2006 (6H08123-MS1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 08/08/2006 (6H08123-MSD1)											
						Source: IPH0348-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120	0	15	
Batch: 6H09125 Extracted: 08/09/06											
Blank Analyzed: 08/09/2006 (6H09125-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/09/2006 (6H09125-BS1)											
Total Suspended Solids	983	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 08/09/2006 (6H09125-DUP1)											
						Source: IPH0374-01					
Total Suspended Solids	296	10	10	mg/l		300			1	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
						Source: IPH0391-01					
Density	0.995	NA	N/A	g/cc		0.99			1	20	

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 Report Number: IPH0401

Sampled: 08/03/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10124 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10124-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/10/2006 (6H10124-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/10/2006 (6H10124-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 08/10/2006 (6H10124-MS1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10124-MSD1)											
						Source: IPH0334-02					
Total Kjeldahl Nitrogen	10.4	0.50	0.43	mg/l	10.0	0.84	96	85-120	2	15	
Batch: 6H11080 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11080-DUP1)											
						Source: IPH0179-02					
Alkalinity as CaCO3	768	2.0	2.0	mg/l		770			0	20	
Reference Analyzed: 08/11/2006 (6H11080-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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Sampled: 08/03/06
Received: 08/03/06

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.
- M-NR1** 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

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 R-2A Pond Pilot Test
 Report Number: IPH0401

Sampled: 08/03/06
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

IP1040

Del Mar Analytical CHAIN OF CUSTODY FORM

Version 04/28/06

Client Name/Address:		Project:		ANALYSIS REQUIRED										Field readings						
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Project Manager: Bronwyn Kelly Sampler: <i>R. Barroso</i>		Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test 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: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn	Total Dissolved Solids pH, Alkalinity, Suspended Solids Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413 1)	Total Kjeldahl Nitrogen	SC4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn	Comments
BST-EFF	W	Poly-1L	1	8/20/06 1005	HNO3	1	X													
BST-EFF	W	Poly-1L	1		None	2	X													
BST-EFF	W	VOAs	2		HCl	3A, 3B		X												
BST-EFF	W	1L Amber	2		HCl	4A, 4B			X											
BST-EFF	W	Poly-500 ml	1		H2SO4	5				X										
BST-EFF	W	Poly-500 ml	1		None	6							X							
BST-EFF	W	Poly-500 ml	2		None	7A, 7B														
BST-EFF	W	Poly-500 ml	1	8/30/06 1005	H2SO4	8										X				
BST-EFF	W	Poly-1L	1		None	9											X			
Relinquished By <i>R. Barroso</i>		Date/Time: 8/20/06 1520		Received By <i>B. Barroso</i>		Date/Time: 8/30/06 1520												Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____		
Relinquished By <i>B. Barroso</i>		Date/Time: 8/30/06 1900		Received By <i>E. Barroso</i>		Date/Time: 8/30/06 1900												Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact _____ On Ice: _____		

DN-2400

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 17:58

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1138-01

CLIENT ID

P-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1138

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1138-01 (P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H19052	0.015	0.040	0.68	1	08/19/06	08/20/06	
Sample ID: IPH1138-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H16063	0.050	2.0	0.50	1	08/16/06	08/20/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H16063	0.025	1.0	0.027	1	08/16/06	08/20/06	J
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H16063	0.25	2.0	2.6	1	08/16/06	08/20/06	
Lead	EPA 200.8	6H16063	0.040	1.0	0.72	1	08/16/06	08/20/06	J
Manganese	EPA 200.7	6H19052	7.0	20	72	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	3.9	1	08/19/06	08/20/06	J
Selenium	EPA 200.8	6H16063	0.30	2.0	0.37	1	08/16/06	08/20/06	J
Silver	EPA 200.8	6H16063	0.025	1.0	0.082	1	08/16/06	08/20/06	J
Thallium	EPA 200.8	6H16063	0.15	1.0	ND	1	08/16/06	08/20/06	
Zinc	EPA 200.7	6H19052	15	20	ND	1	08/19/06	08/20/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1138

Sampled: 08/10/06
 Received: 08/10/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1138-01 (P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1138-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.53	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/21/06	
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	0.89	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	ND	1	08/17/06	08/17/06	
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H15097	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	ND	1	08/11/06	08/18/06	
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	0.41	1	08/17/06	08/17/06	J
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/17/06	
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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Sampled: 08/10/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1138-01 (P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H14091	N/A	NA	1.0	1	08/14/06	08/14/06	
Sample ID: IPH1138-01 (P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H14118	10	10	19	1	08/14/06	08/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	0.84	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	180	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	0.56	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	220	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.89	4.7	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	4.5	5.0	90	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	360	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H18119	0.50	1.0	11	1	08/18/06	08/18/06	
Total Suspended Solids	EPA 160.2	6H11121	10	10	19	1	08/11/06	08/11/06	

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Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1138-01 (P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	14	1	08/11/06	08/11/06	

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R-2A Pond Pilot Test
Report Number: IPH1138

Sampled: 08/10/06
Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1138-01 (P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	8.18	1	08/11/06	08/11/06	

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 Report Number: IPH1138

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1138-01 (P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	620	1	08/17/06	08/17/06	

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R-2A Pond Pilot Test
Report Number: IPH1138

Sampled: 08/10/06
Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: P-EFF (IPH1138-01) - Water					
EPA 150.1	1	08/10/2006 09:15	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 09:15	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 09:15	08/10/2006 19:50	08/10/2006 22:00	08/11/2006 06:42

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 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H16063 Extracted: 08/16/06											
Blank Analyzed: 08/17/2006 (6H16063-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.667	2.0	0.25	ug/l							J
Lead	0.0840	1.0	0.040	ug/l							J
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/17/2006 (6H16063-BS1)											
Antimony	75.3	2.0	0.050	ug/l	80.0		94	85-115			
Cadmium	75.4	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.3	2.0	0.25	ug/l	80.0		97	85-115			
Lead	75.4	1.0	0.040	ug/l	80.0		94	85-115			
Selenium	73.4	2.0	0.30	ug/l	80.0		92	85-115			
Silver	77.2	1.0	0.025	ug/l	80.0		96	85-115			
Thallium	70.6	1.0	0.15	ug/l	80.0		88	85-115			

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 Report Number: IPH1138

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H16063 Extracted: 08/16/06											
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS1)						Source: IPH117-01					
Antimony	73.0	4.0	0.10	ug/l	80.0	0.31	91	70-130			
Cadmium	70.0	2.0	0.050	ug/l	80.0	0.094	87	70-130			
Copper	72.7	4.0	0.50	ug/l	80.0	4.0	86	70-130			
Lead	68.5	2.0	0.080	ug/l	80.0	0.28	85	70-130			
Selenium	84.8	4.0	0.60	ug/l	80.0	14	88	70-130			
Silver	69.2	2.0	0.050	ug/l	80.0	ND	86	70-130			
Thallium	58.7	2.0	0.30	ug/l	80.0	ND	73	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS2)						Source: IPH1319-03					
Antimony	68.2	2.0	0.050	ug/l	80.0	1.4	84	70-130			
Cadmium	61.3	1.0	0.025	ug/l	80.0	0.031	77	70-130			
Copper	195	2.0	0.25	ug/l	80.0	140	69	70-130			M2
Lead	67.2	1.0	0.040	ug/l	80.0	0.72	83	70-130			
Selenium	68.0	2.0	0.30	ug/l	80.0	2.4	82	70-130			
Silver	66.4	1.0	0.025	ug/l	80.0	ND	83	70-130			
Thallium	59.4	1.0	0.15	ug/l	80.0	ND	74	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H16063-MSD1)						Source: IPH117-01					
Antimony	74.6	4.0	0.10	ug/l	80.0	0.31	93	70-130	2	20	
Cadmium	72.0	2.0	0.050	ug/l	80.0	0.094	90	70-130	3	20	
Copper	74.1	4.0	0.50	ug/l	80.0	4.0	88	70-130	2	20	
Lead	71.5	2.0	0.080	ug/l	80.0	0.28	89	70-130	4	20	
Selenium	87.7	4.0	0.60	ug/l	80.0	14	92	70-130	3	20	
Silver	70.5	2.0	0.050	ug/l	80.0	ND	88	70-130	2	20	
Thallium	61.6	2.0	0.30	ug/l	80.0	ND	77	70-130	5	20	

Batch: 6H19052 Extracted: 08/19/06

Blank Analyzed: 08/20/2006 (6H19052-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	0.040	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1) Source: IPH1125-01											
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2) Source: IPH1129-01											
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1) Source: IPH1125-01											
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2) Source: IPH1126-01											
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H15097 Extracted: 08/15/06

Blank Analyzed: 08/15/2006 (6H15097-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/15/2006 (6H15097-BS1)

Mercury	7.93	0.20	0.15	ug/l	8.00		99	85-115			
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Matrix Spike Analyzed: 08/15/2006 (6H15097-MS1)

Source: IPH1426-01

Mercury	7.82	0.20	0.15	ug/l	8.00	ND	98	70-130			
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Matrix Spike Dup Analyzed: 08/15/2006 (6H15097-MSD1)

Source: IPH1426-01

Mercury	7.87	0.20	0.15	ug/l	8.00	ND	98	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1)											
						Source: IPH1127-01					
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1)											
						Source: IPH1127-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1)											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			M-NR1
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11095 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
Batch: 6H11120 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
Batch: 6H11121 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11121-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/11/2006 (6H11121-BS1)											
Total Suspended Solids	967	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 08/11/2006 (6H11121-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		ND				10	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1138

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H14091 Extracted: 08/14/06											
Duplicate Analyzed: 08/14/2006 (6H14091-DUP1)						Source: IPH1138-01					
Density	0.998	NA	N/A	g/cc		1.0			0	20	
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)						Source: IPH1131-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)						Source: IPH1131-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)						Source: IPH1754-01					
Total Dissolved Solids	208	10	10	mg/l		210			1	10	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1138

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H17092 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)						Source: IPH1126-01					
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
Batch: 6H18115 Extracted: 08/18/06											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPH1138

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H18119 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18119-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 08/18/2006 (6H18119-BS1)											
Total Organic Carbon	10.4	1.0	0.25	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 08/18/2006 (6H18119-MS1)											
						Source: IPH1110-02					
Total Organic Carbon	12.4	1.0	0.25	mg/l	5.00	7.0	108	80-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18119-MSD1)											
						Source: IPH1110-02					
Total Organic Carbon	12.6	1.0	0.25	mg/l	5.00	7.0	112	80-120	2	20	
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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R-2A Pond Pilot Test
Report Number: IPH1138

Sampled: 08/10/06
Received: 08/10/06

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.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1138

Sampled: 08/10/06
 Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

191138

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test		Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Sampler: <i>Kevin King</i>		Field readings: Temp = 78 pH = 7.29		Comments: 48 hr turnaround								
ANALYSIS REQUIRED		Zn, Hg, Ni, Mn, Sb, Se, Tl, Fe, Pb, As, Ag, Be, Cd, Cr, Cu, Pb, Total Recoverable Metals: <input type="checkbox"/> Zn, Hardness Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) <input type="checkbox"/> X Total Organic Carbon <input type="checkbox"/> X Oil & Grease (EPA 413.1) <input type="checkbox"/> X Total Kjeldahl Nitrogen <input type="checkbox"/> X SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) <input type="checkbox"/> X Turbidity, TSS, Conductivity <input type="checkbox"/> X Ammonia-N (NH3-N) <input type="checkbox"/> X Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn <input type="checkbox"/> X																
Sample Description		Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness <input type="checkbox"/> X	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) <input type="checkbox"/> X	Total Organic Carbon <input type="checkbox"/> X	Oil & Grease (EPA 413.1) <input type="checkbox"/> X	Total Kjeldahl Nitrogen <input type="checkbox"/> X	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) <input type="checkbox"/> X	Turbidity, TSS, Conductivity <input type="checkbox"/> X	Ammonia-N (NH3-N) <input type="checkbox"/> X	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn <input type="checkbox"/> X	Field readings: Temp = 78, pH = 7.29	Comments: 48 hr turnaround
Relinquished By <i>Kevin King</i>		Date/Time: 8-10-06 1550	Received By <i>[Signature]</i>	Date/Time: 8-10-06 1550	Turn around Time: (check) 5 Days <input type="checkbox"/> 10 Days <input checked="" type="checkbox"/> Normal <input type="checkbox"/>	Perchlorate Only 72 Hours <input type="checkbox"/>	Metals Only 72 Hours <input type="checkbox"/>	Sample Integrity: (Check) Intact <input checked="" type="checkbox"/>	On Ice: <input type="checkbox"/>	3								
Relinquished By <i>[Signature]</i>		Date/Time: 8-10-06 1950	Received By <i>[Signature]</i>	Date/Time: 8/10/06 1950	Relinquished By <i>[Signature]</i>	Date/Time: 8-10-06 1950	Received By <i>[Signature]</i>	Date/Time: 8/10/06 1950	HE	8-10-06	2226							

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 15:44

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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
IPH1125-01

CLIENT ID
S-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1125-01 (S-EFF - Water)									
Reporting Units: mg/l									
Calcium	EPA 200.7	6H19052	0.040	0.10	58	1	08/19/06	08/20/06	
Iron	EPA 200.7	6H19052	0.015	0.040	0.022	1	08/19/06	08/20/06	J
Magnesium	EPA 200.7	6H19052	0.0070	0.020	15	1	08/19/06	08/20/06	
Sample ID: IPH1125-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H14134	0.050	2.0	0.58	1	08/14/06	08/15/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H14134	0.025	1.0	ND	1	08/14/06	08/15/06	
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H14134	0.25	2.0	1.1	1	08/14/06	08/15/06	J
Lead	EPA 200.8	6H14134	0.040	1.0	0.14	1	08/14/06	08/15/06	J
Manganese	EPA 200.7	6H19052	7.0	20	ND	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	ND	1	08/19/06	08/20/06	
Selenium	EPA 200.8	6H14134	0.30	2.0	0.32	1	08/14/06	08/15/06	J
Silver	EPA 200.8	6H14134	0.025	1.0	0.026	1	08/14/06	08/15/06	J
Thallium	EPA 200.8	6H14134	0.15	1.0	0.17	1	08/14/06	08/15/06	J
Zinc	EPA 200.7	6H19052	15	20	ND	1	08/19/06	08/20/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1125-01 (S-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1125-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.56	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	0.92	1	08/11/06	08/18/06	J
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	0.041	1	08/17/06	08/17/06	J
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	1.1	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	0.054	1	08/17/06	08/17/06	J
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H14094	0.15	0.20	ND	1	08/14/06	08/14/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	3.2	1	08/11/06	08/18/06	J
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	ND	1	08/17/06	08/17/06	
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	0.034	1	08/17/06	08/17/06	J
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1125-01 (S-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	1.0	1	08/17/06	08/17/06	
Sample ID: IPH1125-01 (S-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	ND	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	21	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	180	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	21	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	210	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10042	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10042	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10042	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.89	4.7	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10042	4.5	5.0	93	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H16107	10	10	340	1	08/16/06	08/16/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	9.9	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	ND	1	08/15/06	08/15/06	

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 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1125-01 (S-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	1.9	1	08/11/06	08/11/06	

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R-2A Pond Pilot Test
Report Number: IPH1125

Sampled: 08/10/06
Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1125-01 (S-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	8.00	1	08/11/06	08/11/06	

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R-2A Pond Pilot Test
Report Number: IPH1125

Sampled: 08/10/06
Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1125-01 (S-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H16109	1.0	1.0	640	1	08/16/06	08/16/06	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH1125

Sampled: 08/10/06
Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: S-EFF (IPH1125-01) - Water					
EPA 150.1	1	08/10/2006 09:05	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 09:05	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 09:05	08/10/2006 19:50	08/10/2006 23:30	08/11/2006 07:46

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H14134 Extracted: 08/14/06											
Blank Analyzed: 08/15/2006 (6H14134-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H14134-BS1)											
Antimony	80.9	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Copper	82.3	2.0	0.25	ug/l	80.0		103	85-115			
Lead	83.0	1.0	0.040	ug/l	80.0		104	85-115			
Selenium	80.2	2.0	0.30	ug/l	80.0		100	85-115			
Silver	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H14134-MS1) Source: IPH1125-01											
Antimony	84.0	2.0	0.050	ug/l	80.0	0.58	104	70-130			
Cadmium	82.0	1.0	0.025	ug/l	80.0	ND	102	70-130			
Copper	78.9	2.0	0.25	ug/l	80.0	1.1	97	70-130			
Lead	79.6	1.0	0.040	ug/l	80.0	0.14	99	70-130			
Selenium	77.3	2.0	0.30	ug/l	80.0	0.32	96	70-130			
Silver	79.7	1.0	0.025	ug/l	80.0	0.026	100	70-130			
Thallium	81.6	1.0	0.15	ug/l	80.0	0.17	102	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H14134-MSD1) Source: IPH1125-01											
Antimony	83.0	2.0	0.050	ug/l	80.0	0.58	103	70-130	1	20	
Cadmium	81.6	1.0	0.025	ug/l	80.0	ND	102	70-130	1	20	
Copper	78.5	2.0	0.25	ug/l	80.0	1.1	97	70-130	1	20	
Lead	79.5	1.0	0.040	ug/l	80.0	0.14	99	70-130	0	20	
Selenium	78.8	2.0	0.30	ug/l	80.0	0.32	98	70-130	2	20	
Silver	79.8	1.0	0.025	ug/l	80.0	0.026	100	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	0.17	101	70-130	0	20	

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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	0.040	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1)						Source: IPH1125-01					
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2)						Source: IPH1129-01					
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1) Source: IPH1125-01											
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2) Source: IPH1126-01											
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H14094 Extracted: 08/14/06

Blank Analyzed: 08/14/2006 (6H14094-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/14/2006 (6H14094-BS1)

Mercury	8.22	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 08/14/2006 (6H14094-MS1)

Source: IPH1161-03

Mercury	8.16	0.20	0.15	ug/l	8.00	ND	102	70-130			
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Matrix Spike Dup Analyzed: 08/14/2006 (6H14094-MSD1)

Source: IPH1161-03

Mercury	8.05	0.20	0.15	ug/l	8.00	ND	101	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10042 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10042-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10042-BS1)											
Nitrate-N	1.21	0.15	0.080	mg/l	1.13		107	90-110			
Nitrite-N	1.55	0.15	0.080	mg/l	1.52		102	90-110			
Sulfate	10.5	0.50	0.45	mg/l	10.0		105	90-110			
Matrix Spike Analyzed: 08/10/2006 (6H10042-MS1) Source: IPH0924-04											
Nitrate-N	19.3	0.75	0.40	mg/l	1.13	19	27	80-120			M-HA
Nitrite-N	7.31	0.75	0.40	mg/l	1.52	6.1	80	80-120			
Sulfate	65.6	2.5	2.2	mg/l	10.0	57	86	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10042-MSD1) Source: IPH0924-04											
Nitrate-N	20.0	0.75	0.40	mg/l	1.13	19	88	80-120	4	20	
Nitrite-N	7.68	0.75	0.40	mg/l	1.52	6.1	104	80-120	5	20	
Sulfate	68.8	2.5	2.2	mg/l	10.0	57	118	80-120	5	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H11068 Extracted: 08/11/06</u>											
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	
<u>Batch: 6H11095 Extracted: 08/11/06</u>											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		Source: IPH1125-01 8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		Source: IPH1136-01 8.17			0	5	
<u>Batch: 6H11120 Extracted: 08/11/06</u>											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		Source: IPH1125-01 1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		Source: IPH1136-01 16			2	20	
<u>Batch: 6H15148 Extracted: 08/15/06</u>											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H15148 Extracted: 08/15/06</u>											
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	
<u>Batch: 6H15162 Extracted: 08/15/06</u>											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
<u>Batch: 6H16107 Extracted: 08/16/06</u>											
Blank Analyzed: 08/16/2006 (6H16107-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/16/2006 (6H16107-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H16107 Extracted: 08/16/06</u>											
Duplicate Analyzed: 08/16/2006 (6H16107-DUP1)						Source: IPH1087-01					
Total Dissolved Solids	1910	10	10	mg/l		1900			1	10	
<u>Batch: 6H16109 Extracted: 08/16/06</u>											
Duplicate Analyzed: 08/16/2006 (6H16109-DUP1)						Source: IPH1017-01					
Specific Conductance	626	1.0	1.0	umhos/cm		630			1	5	
<u>Batch: 6H17080 Extracted: 08/17/06</u>											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)						Source: IPH1125-01					
Density	1.01	NA	N/A	g/cc		1.0			1	20	
<u>Batch: 6H17119 Extracted: 08/17/06</u>											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)						Source: IPH1115-01					
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)						Source: IPH1115-01					
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	

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 R-2A Pond Pilot Test
 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)											
						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)											
						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
Batch: 6H18115 Extracted: 08/18/06											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)											
						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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R-2A Pond Pilot Test
Report Number: IPH1125

Sampled: 08/10/06
Received: 08/10/06

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.
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** 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, CA
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 R-2A Pond Pilot Test
 Report Number: IPH1125

Sampled: 08/10/06
 Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

IPH1125

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project: **Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Bronwyn Kelly**
 Phone Number: (626) 568-6691
 Fax Number: (626) 568-6515

Sampler: **Rick Siskin**

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Field readings: Temp = 79 pH = 7.31	Comments
S-EFF	W	Poly-1L	1	8-20-06 09:05	HNO3	1	X											
S-EFF	W	Poly-1L	1		None	2		X										
S-EFF	W	VOAs	2		HCl	3A, 3B				X								
S-EFF	W	1L Amber	2		HCl	4A, 4B					X							
S-EFF	W	Poly-500 ml	1		H2SO4	5						X						
S-EFF	W	Poly-500 ml	1		None	6							X					
S-EFF	W	Poly-500 ml	2		None	7A, 7B								X				
S-EFF	W	Poly-500 ml	1	8-19-06 09:05	H2SO4	8									X			
S-EFF	W	Poly-1L	1		None	9										X		

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

Relinquished By: *[Signature]* Date/Time: 8-10-06 1550
 Received By: *[Signature]*

Relinquished By: *[Signature]* Date/Time: 8-10-06 1950
 Received By: *[Signature]*

Relinquished By: *[Signature]* Date/Time: 8-10-06 1950
 Received By: *[Signature]*

HE 8-10-06 2220

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 15:54

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1126-01

CLIENT ID

PM-P-DUP-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1126

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water)									
Reporting Units: mg/l									
Calcium	EPA 200.7	6H19052	0.040	0.10	60	1	08/19/06	08/20/06	
Iron	EPA 200.7	6H19052	0.015	0.040	0.039	1	08/19/06	08/20/06	J
Magnesium	EPA 200.7	6H19052	0.0070	0.020	16	1	08/19/06	08/20/06	
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H14134	0.050	2.0	0.54	1	08/14/06	08/15/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H14134	0.025	1.0	0.025	1	08/14/06	08/15/06	J
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H14134	0.25	2.0	0.84	1	08/14/06	08/15/06	J
Lead	EPA 200.8	6H14134	0.040	1.0	0.20	1	08/14/06	08/15/06	J
Manganese	EPA 200.7	6H19052	7.0	20	50	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	ND	1	08/19/06	08/20/06	
Selenium	EPA 200.8	6H14134	0.30	2.0	0.34	1	08/14/06	08/15/06	J
Silver	EPA 200.8	6H14134	0.025	1.0	0.027	1	08/14/06	08/15/06	J
Thallium	EPA 200.8	6H14134	0.15	1.0	ND	1	08/14/06	08/15/06	
Zinc	EPA 200.7	6H19052	15	20	ND	1	08/19/06	08/20/06	

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1126

Sampled: 08/10/06
 Received: 08/10/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.52	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	1.3	1	08/11/06	08/18/06	J
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	0.040	1	08/17/06	08/17/06	J
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	0.92	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	ND	1	08/17/06	08/17/06	
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H14094	0.15	0.20	ND	1	08/14/06	08/14/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	2.9	1	08/11/06	08/18/06	J
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	ND	1	08/17/06	08/17/06	
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/17/06	
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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 R-2A Pond Pilot Test
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Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.94	1	08/17/06	08/17/06	
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	ND	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	3.1	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	190	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	2.8	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	220	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10042	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10042	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10042	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.89	4.7	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10042	4.5	5.0	92	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	360	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	12	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	ND	1	08/15/06	08/15/06	

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Sampled: 08/10/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	2.1	1	08/11/06	08/11/06	

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Sampled: 08/10/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	7.89	1	08/11/06	08/11/06	

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Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1126-01 (PM-P-DUP-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	630	1	08/17/06	08/17/06	

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Report Number: IPH1126

Sampled: 08/10/06
Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: PM-P-DUP-EFF (IPH1126-01) - Water					
EPA 150.1	1	08/10/2006 08:55	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 08:55	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 08:55	08/10/2006 19:50	08/10/2006 23:30	08/11/2006 08:12

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H14134 Extracted: 08/14/06											
Blank Analyzed: 08/15/2006 (6H14134-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H14134-BS1)											
Antimony	80.9	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Copper	82.3	2.0	0.25	ug/l	80.0		103	85-115			
Lead	83.0	1.0	0.040	ug/l	80.0		104	85-115			
Selenium	80.2	2.0	0.30	ug/l	80.0		100	85-115			
Silver	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H14134-MS1) Source: IPH1125-01											
Antimony	84.0	2.0	0.050	ug/l	80.0	0.58	104	70-130			
Cadmium	82.0	1.0	0.025	ug/l	80.0	ND	102	70-130			
Copper	78.9	2.0	0.25	ug/l	80.0	1.1	97	70-130			
Lead	79.6	1.0	0.040	ug/l	80.0	0.14	99	70-130			
Selenium	77.3	2.0	0.30	ug/l	80.0	0.32	96	70-130			
Silver	79.7	1.0	0.025	ug/l	80.0	0.026	100	70-130			
Thallium	81.6	1.0	0.15	ug/l	80.0	0.17	102	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H14134-MSD1) Source: IPH1125-01											
Antimony	83.0	2.0	0.050	ug/l	80.0	0.58	103	70-130	1	20	
Cadmium	81.6	1.0	0.025	ug/l	80.0	ND	102	70-130	1	20	
Copper	78.5	2.0	0.25	ug/l	80.0	1.1	97	70-130	1	20	
Lead	79.5	1.0	0.040	ug/l	80.0	0.14	99	70-130	0	20	
Selenium	78.8	2.0	0.30	ug/l	80.0	0.32	98	70-130	2	20	
Silver	79.8	1.0	0.025	ug/l	80.0	0.026	100	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	0.17	101	70-130	0	20	

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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1126

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	0.040	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1)						Source: IPH1125-01					
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2)						Source: IPH1129-01					
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1) Source: IPH1125-01											
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2) Source: IPH1126-01											
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H14094 Extracted: 08/14/06

Blank Analyzed: 08/14/2006 (6H14094-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/14/2006 (6H14094-BS1)

Mercury	8.22	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 08/14/2006 (6H14094-MS1)

Mercury	8.16	0.20	0.15	ug/l	8.00	ND	102	70-130			
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Matrix Spike Dup Analyzed: 08/14/2006 (6H14094-MSD1)

Mercury	8.05	0.20	0.15	ug/l	8.00	ND	101	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10042 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10042-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10042-BS1)											
Nitrate-N	1.21	0.15	0.080	mg/l	1.13		107	90-110			
Nitrite-N	1.55	0.15	0.080	mg/l	1.52		102	90-110			
Sulfate	10.5	0.50	0.45	mg/l	10.0		105	90-110			
Matrix Spike Analyzed: 08/10/2006 (6H10042-MS1) Source: IPH0924-04											
Nitrate-N	19.3	0.75	0.40	mg/l	1.13	19	27	80-120			M-HA
Nitrite-N	7.31	0.75	0.40	mg/l	1.52	6.1	80	80-120			
Sulfate	65.6	2.5	2.2	mg/l	10.0	57	86	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10042-MSD1) Source: IPH0924-04											
Nitrate-N	20.0	0.75	0.40	mg/l	1.13	19	88	80-120	4	20	
Nitrite-N	7.68	0.75	0.40	mg/l	1.52	6.1	104	80-120	5	20	
Sulfate	68.8	2.5	2.2	mg/l	10.0	57	118	80-120	5	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H11068 Extracted: 08/11/06</u>											
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	
<u>Batch: 6H11095 Extracted: 08/11/06</u>											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
<u>Batch: 6H11120 Extracted: 08/11/06</u>											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
<u>Batch: 6H15148 Extracted: 08/15/06</u>											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15148 Extracted: 08/15/06											
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
						Source: IPH1109-02					
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
						Source: IPH1131-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
						Source: IPH1131-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
						Source: IPH1125-01					
Density	1.01	NA	N/A	g/cc		1.0			1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H17087 Extracted: 08/17/06</u>											
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
Total Dissolved Solids	208	10	10	mg/l		210			1	10	
<u>Batch: 6H17092 Extracted: 08/17/06</u>											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)											
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
<u>Batch: 6H17119 Extracted: 08/17/06</u>											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)											
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)											
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1126

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)											
						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)											
						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
<u>Batch: 6H18115 Extracted: 08/18/06</u>											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)											
						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
<u>Batch: 6H19052 Extracted: 08/19/06</u>											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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R-2A Pond Pilot Test
Report Number: IPH1126

Sampled: 08/10/06
Received: 08/10/06

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.
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** 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, CA
Lisa Reightley For Michele Chamberlin
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MWH-Pasadena/Boeing
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 R-2A Pond Pilot Test
 Report Number: IPH1126

Sampled: 08/10/06
 Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

IRH126

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM** Page 1 of 1

Client Name/Address:
MWH-Pasadena
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project:
 Boeing-SSFL BMP/NPDES
 R-2A Pond Filtration Pilot Test

Project Manager: Bronwyn Kelly
Phone Number: (626) 568-6691
Fax Number: (626) 568-6515

Sampler: *K. Paris*

Field readings:
 Temp = 72
 pH = 7.23

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	ANALYSIS REQUIRED										Comment				
							Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn						
PM-P-DUP-EFF	W	Poly-1L	1	8-10-06 8:55	HNO3	1	X														
PM-P-DUP-EFF	W	Poly-1L	1		None	2		X													
PM-P-DUP-EFF	W	VOAs	2		HCl	3A, 3B															
PM-P-DUP-EFF	W	1L Amber	2		HCl	4A, 4B			X												
PM-P-DUP-EFF	W	Poly-500 ml	1		H2SO4	5			X												
PM-P-DUP-EFF	W	Poly-500 ml	1		None	6				X											
PM-P-DUP-EFF	W	Poly-500 ml	2		None	7A, 7B					X										
PM-P-DUP-EFF	W	Poly-500 ml	1	8-10-06 5:55	H2SO4	8						X									
PM-P-DUP-EFF	W	Poly-1L	1		None	9															X

Relinquished By: *K. Paris* Date/Time: 8-10-06 1550
 Received By: *Ch...* Date/Time: 8-10-06 1550

Relinquished By: *Ch...* Date/Time: 8-10-06 1950
 Received By: *Ch...* Date/Time: 8-10-06 1950

Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

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

Edmund N. 8/10/06 1950
 HE 8-10-06
 2220

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 16:03

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1127-01

CLIENT ID

PM-P-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1127-01 (PM-P-EFF - Water)									
Reporting Units: mg/l									
Calcium	EPA 200.7	6H19052	0.040	0.10	61	1	08/19/06	08/20/06	
Iron	EPA 200.7	6H19052	0.015	0.040	0.048	1	08/19/06	08/20/06	
Magnesium	EPA 200.7	6H19052	0.0070	0.020	16	1	08/19/06	08/20/06	
Sample ID: IPH1127-01 (PM-P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H14134	0.050	2.0	0.52	1	08/14/06	08/15/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H14134	0.025	1.0	ND	1	08/14/06	08/15/06	
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H14134	0.25	2.0	0.88	1	08/14/06	08/15/06	J
Lead	EPA 200.8	6H14134	0.040	1.0	0.27	1	08/14/06	08/15/06	J
Manganese	EPA 200.7	6H19052	7.0	20	57	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	ND	1	08/19/06	08/20/06	
Selenium	EPA 200.8	6H14134	0.30	2.0	ND	1	08/14/06	08/15/06	
Silver	EPA 200.8	6H14134	0.025	1.0	ND	1	08/14/06	08/15/06	
Thallium	EPA 200.8	6H14134	0.15	1.0	ND	1	08/14/06	08/15/06	
Zinc	EPA 200.7	6H19052	15	20	ND	1	08/19/06	08/20/06	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1127-01 (PM-P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1127-01 (PM-P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.52	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	0.032	1	08/17/06	08/17/06	J
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	0.91	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	0.042	1	08/17/06	08/17/06	J
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H14094	0.15	0.20	ND	1	08/14/06	08/14/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	ND	1	08/11/06	08/18/06	
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	0.35	1	08/17/06	08/17/06	J
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/17/06	
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1127-01 (PM-P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.98	1	08/17/06	08/17/06	
Sample ID: IPH1127-01 (PM-P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	ND	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	1.1	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	190	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	1.1	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	220	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/10/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/10/06	
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/10/06	
Oil & Grease	EPA 413.1	6H11068	0.89	4.7	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	0.90	1.0	92	2	08/10/06	08/11/06	M-3
Total Dissolved Solids	SM2540C	6H17087	10	10	370	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	12	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	ND	1	08/15/06	08/15/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1127-01 (PM-P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	1.3	1	08/11/06	08/11/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1127-01 (PM-P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	7.89	1	08/11/06	08/11/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1127-01 (PM-P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	640	1	08/17/06	08/17/06	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PM-P-EFF (IPH1127-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/10/2006 08:55	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 08:55	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 08:55	08/10/2006 19:50	08/10/2006 22:00	08/10/2006 22:54

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

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 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H14134 Extracted: 08/14/06											
Blank Analyzed: 08/15/2006 (6H14134-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H14134-BS1)											
Antimony	80.9	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Copper	82.3	2.0	0.25	ug/l	80.0		103	85-115			
Lead	83.0	1.0	0.040	ug/l	80.0		104	85-115			
Selenium	80.2	2.0	0.30	ug/l	80.0		100	85-115			
Silver	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H14134-MS1) Source: IPH1125-01											
Antimony	84.0	2.0	0.050	ug/l	80.0	0.58	104	70-130			
Cadmium	82.0	1.0	0.025	ug/l	80.0	ND	102	70-130			
Copper	78.9	2.0	0.25	ug/l	80.0	1.1	97	70-130			
Lead	79.6	1.0	0.040	ug/l	80.0	0.14	99	70-130			
Selenium	77.3	2.0	0.30	ug/l	80.0	0.32	96	70-130			
Silver	79.7	1.0	0.025	ug/l	80.0	0.026	100	70-130			
Thallium	81.6	1.0	0.15	ug/l	80.0	0.17	102	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H14134-MSD1) Source: IPH1125-01											
Antimony	83.0	2.0	0.050	ug/l	80.0	0.58	103	70-130	1	20	
Cadmium	81.6	1.0	0.025	ug/l	80.0	ND	102	70-130	1	20	
Copper	78.5	2.0	0.25	ug/l	80.0	1.1	97	70-130	1	20	
Lead	79.5	1.0	0.040	ug/l	80.0	0.14	99	70-130	0	20	
Selenium	78.8	2.0	0.30	ug/l	80.0	0.32	98	70-130	2	20	
Silver	79.8	1.0	0.025	ug/l	80.0	0.026	100	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	0.17	101	70-130	0	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	0.040	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			

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 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1)						Source: IPH1125-01					
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2)						Source: IPH1129-01					
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2)						Source: IPH1126-01					
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H14094 Extracted: 08/14/06

Blank Analyzed: 08/14/2006 (6H14094-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/14/2006 (6H14094-BS1)

Mercury	8.22	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 08/14/2006 (6H14094-MS1)

Source: IPH1161-03

Mercury	8.16	0.20	0.15	ug/l	8.00	ND	102	70-130			
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Matrix Spike Dup Analyzed: 08/14/2006 (6H14094-MSD1)

Source: IPH1161-03

Mercury	8.05	0.20	0.15	ug/l	8.00	ND	101	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1) Source: IPH1127-01											
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1) Source: IPH1127-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11095 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
Batch: 6H11120 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
Batch: 6H15148 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
Density	1.01	NA	N/A	g/cc		1.0			1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
Total Dissolved Solids	208	10	10	mg/l		210			1	10	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17092 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)						Source: IPH1126-01					
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
Batch: 6H17119 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)						Source: IPH1115-01					
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)						Source: IPH1115-01					
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
<u>Batch: 6H18115 Extracted: 08/18/06</u>											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
<u>Batch: 6H19052 Extracted: 08/19/06</u>											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH1127

Sampled: 08/10/06
Received: 08/10/06

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.
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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, CA
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 R-2A Pond Pilot Test
 Report Number: IPH1127

Sampled: 08/10/06
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

IPH102

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project: **Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Bronwyn Kelly**

Sampler: *R. C. E. Spitzer*

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: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Field readings: Temp = 79.5 pH = 7.14	Comments
PM-P-EFF	W	Poly-1L	1	8-10-06 08:55	HNO3	1	X		X									
PM-P-EFF	W	Poly-1L	1		None	2			X									
PM-P-EFF	W	VOAs	2		HCl	3A, 3B				X								
PM-P-EFF	W	1L Amber	2		HCl	4A, 4B				X								
PM-P-EFF	W	Poly-500 ml	1		H2SO4	5					X							
PM-P-EFF	W	Poly-500 ml	1		None	6						X						
PM-P-EFF	W	Poly-500 ml	2		None	7A, 7B							X					
PM-P-EFF	W	Poly-500 ml	1		H2SO4	8										X		
PM-P-EFF	W	Poly-1L	1	8-10-06 08:55	None	9												

Relinquished By: *[Signature]* Date/Time: 8-10-06 15:50
 Received By: *[Signature]* Date/Time: 8-10-06 15:50

Relinquished By: *[Signature]* Date/Time: 8-10-06 19:50
 Received By: *[Signature]* Date/Time: 8-10-06 19:50

Relinquished By: *[Signature]* Date/Time: 8-10-06 19:50
 Received By: *[Signature]* Date/Time: 8-10-06 19:50

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

Edward P. Spitzer 8/10/06 19:50
 HE 8-10-06 22:20

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 16:21

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1128-01

CLIENT ID

Z-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1128-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Calcium	EPA 200.7	6H19052	0.040	0.10	74	1	08/19/06	08/20/06	
Iron	EPA 200.7	6H19052	0.015	0.040	0.45	1	08/19/06	08/20/06	
Magnesium	EPA 200.7	6H19052	0.0070	0.020	20	1	08/19/06	08/20/06	
Sample ID: IPH1128-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H14134	0.050	2.0	1.1	1	08/14/06	08/15/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	13	1	08/19/06	08/21/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H14134	0.025	1.0	0.055	1	08/14/06	08/15/06	J
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H14134	0.25	2.0	3.3	1	08/14/06	08/15/06	
Lead	EPA 200.8	6H14134	0.040	1.0	1.3	1	08/14/06	08/15/06	
Manganese	EPA 200.7	6H19052	7.0	20	450	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	2.5	1	08/19/06	08/20/06	J
Selenium	EPA 200.8	6H14134	0.30	2.0	0.68	1	08/14/06	08/15/06	J
Silver	EPA 200.8	6H14134	0.025	1.0	0.047	1	08/14/06	08/15/06	J
Thallium	EPA 200.8	6H14134	0.15	1.0	ND	1	08/14/06	08/15/06	
Zinc	EPA 200.7	6H19052	15	20	ND	1	08/19/06	08/20/06	

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1128-01 (Z-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	0.29	1	08/11/06	08/18/06	
Sample ID: IPH1128-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	1.1	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	12	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	0.050	1	08/17/06	08/17/06	J
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	0.72	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	0.13	1	08/17/06	08/17/06	J
Manganese	EPA 200.7-Diss	6H17114	7.0	20	400	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H14094	0.15	0.20	ND	1	08/14/06	08/14/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	2.9	1	08/11/06	08/18/06	J
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	0.46	1	08/17/06	08/17/06	J
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/17/06	
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1128-01 (Z-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.96	1	08/17/06	08/17/06	
Sample ID: IPH1128-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	ND	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	2.0	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	260	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	2.0	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	270	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.89	4.7	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	4.5	5.0	67	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	440	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	28	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	ND	1	08/15/06	08/15/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1128-01 (Z-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	14	1	08/11/06	08/11/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1128-01 (Z-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	7.73	1	08/11/06	08/11/06	

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 R-2A Pond Pilot Test
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Sampled: 08/10/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1128-01 (Z-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	700	1	08/17/06	08/17/06	

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R-2A Pond Pilot Test
Report Number: IPH1128

Sampled: 08/10/06
Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Z-EFF (IPH1128-01) - Water					
EPA 150.1	1	08/10/2006 08:40	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 08:40	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 08:40	08/10/2006 19:50	08/10/2006 22:00	08/11/2006 01:17

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 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H14134 Extracted: 08/14/06											
Blank Analyzed: 08/15/2006 (6H14134-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H14134-BS1)											
Antimony	80.9	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Copper	82.3	2.0	0.25	ug/l	80.0		103	85-115			
Lead	83.0	1.0	0.040	ug/l	80.0		104	85-115			
Selenium	80.2	2.0	0.30	ug/l	80.0		100	85-115			
Silver	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H14134-MS1) Source: IPH1125-01											
Antimony	84.0	2.0	0.050	ug/l	80.0	0.58	104	70-130			
Cadmium	82.0	1.0	0.025	ug/l	80.0	ND	102	70-130			
Copper	78.9	2.0	0.25	ug/l	80.0	1.1	97	70-130			
Lead	79.6	1.0	0.040	ug/l	80.0	0.14	99	70-130			
Selenium	77.3	2.0	0.30	ug/l	80.0	0.32	96	70-130			
Silver	79.7	1.0	0.025	ug/l	80.0	0.026	100	70-130			
Thallium	81.6	1.0	0.15	ug/l	80.0	0.17	102	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H14134-MSD1) Source: IPH1125-01											
Antimony	83.0	2.0	0.050	ug/l	80.0	0.58	103	70-130	1	20	
Cadmium	81.6	1.0	0.025	ug/l	80.0	ND	102	70-130	1	20	
Copper	78.5	2.0	0.25	ug/l	80.0	1.1	97	70-130	1	20	
Lead	79.5	1.0	0.040	ug/l	80.0	0.14	99	70-130	0	20	
Selenium	78.8	2.0	0.30	ug/l	80.0	0.32	98	70-130	2	20	
Silver	79.8	1.0	0.025	ug/l	80.0	0.026	100	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	0.17	101	70-130	0	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	0.040	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			

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 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1)						Source: IPH1125-01					
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2)						Source: IPH1129-01					
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2)						Source: IPH1126-01					
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H14094 Extracted: 08/14/06

Blank Analyzed: 08/14/2006 (6H14094-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/14/2006 (6H14094-BS1)

Mercury	8.22	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 08/14/2006 (6H14094-MS1)

Mercury	8.16	0.20	0.15	ug/l	8.00	ND	102	70-130			
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Matrix Spike Dup Analyzed: 08/14/2006 (6H14094-MSD1)

Mercury	8.05	0.20	0.15	ug/l	8.00	ND	101	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1) Source: IPH1127-01											
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1) Source: IPH1127-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11095 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
Batch: 6H11120 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
Batch: 6H15148 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
Density	1.01	NA	N/A	g/cc		1.0			1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
Total Dissolved Solids	208	10	10	mg/l		210			1	10	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17092 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)						Source: IPH1126-01					
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
Batch: 6H17119 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)						Source: IPH1115-01					
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)						Source: IPH1115-01					
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
<u>Batch: 6H18115 Extracted: 08/18/06</u>											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
<u>Batch: 6H19052 Extracted: 08/19/06</u>											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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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.
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1128

Sampled: 08/10/06
 Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

IPH1028

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Field readings: Temp = 79.3 pH = 7.03											
Project Manager: Bronwyn Kelly Sampler: Rick Barak		ANALYSIS REQUIRED		Comments		Field readings: Temp = 79.3 pH = 7.03											
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn	Field readings:	
Z-EFF	W	Poly-1L	1	8-10-06 08:40	HNO3	1	X	X									
Z-EFF	W	Poly-1L	1		None	2		X									
Z-EFF	W	VOAs	2		HCl	3A, 3B			X								
Z-EFF	W	1L Amber	2		HCl	4A, 4B				X							
Z-EFF	W	Poly-500 ml	1		H2SO4	5					X						
Z-EFF	W	Poly-500 ml	1		None	6						X					
Z-EFF	W	Poly-500 ml	2		None	7A, 7B							X				
Z-EFF	W	Poly-500 ml	1		H2SO4	8								X			
Z-EFF	W	Poly-1L	1	8-10-06 08:40	None	9									X		
Relinquished By: [Signature]		8-10-06		Date/Time: 1950		Received By: [Signature]		8-10-06		Date/Time: 1550		Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>					
Relinquished By: [Signature]		8-10-06		Date/Time: 1950		Received By: [Signature]		8-10-06		Date/Time: 1950		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>					

Edward Ni 8/10/06 1950
 HE 8-10-06
 2220

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/25/06 18:20

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1129-01

CLIENT ID

AC-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1129-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H19052	0.015	0.040	ND	1	08/19/06	08/20/06	
Sample ID: IPH1129-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H14134	0.050	2.0	0.50	1	08/14/06	08/15/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H14134	0.025	1.0	ND	1	08/14/06	08/15/06	
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H14134	0.25	2.0	ND	1	08/14/06	08/25/06	
Lead	EPA 200.8	6H14134	0.040	1.0	0.31	1	08/14/06	08/15/06	J
Manganese	EPA 200.7	6H19052	7.0	20	28	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	ND	1	08/19/06	08/20/06	
Selenium	EPA 200.8	6H14134	0.30	2.0	ND	1	08/14/06	08/15/06	
Silver	EPA 200.8	6H14134	0.025	1.0	ND	1	08/14/06	08/15/06	
Thallium	EPA 200.8	6H14134	0.15	1.0	ND	1	08/14/06	08/15/06	
Zinc	EPA 200.7	6H19052	15	20	ND	1	08/19/06	08/20/06	

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1129-01 (AC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1129-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.56	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/21/06	
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	1.7	1	08/17/06	08/25/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	0.041	1	08/17/06	08/17/06	J
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H14094	0.15	0.20	ND	1	08/14/06	08/14/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	ND	1	08/11/06	08/18/06	
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	0.31	1	08/17/06	08/17/06	J
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/17/06	
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1129-01 (AC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.99	1	08/17/06	08/17/06	
Sample ID: IPH1129-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	ND	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	1.1	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	180	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	1.1	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	210	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.89	4.7	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	4.5	5.0	91	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	350	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	8.0	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	ND	1	08/15/06	08/15/06	

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R-2A Pond Pilot Test
Report Number: IPH1129

Sampled: 08/10/06
Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1129-01 (AC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	2.6	1	08/11/06	08/11/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1129-01 (AC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	7.89	1	08/11/06	08/11/06	

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 R-2A Pond Pilot Test
 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1129-01 (AC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	N/A	1.0	600	1	08/17/06	08/17/06	

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R-2A Pond Pilot Test
Report Number: IPH1129

Sampled: 08/10/06
Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: AC-EFF (IPH1129-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/10/2006 08:15	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 08:15	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 08:15	08/10/2006 19:50	08/10/2006 22:00	08/11/2006 01:57

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 R-2A Pond Pilot Test
 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H14134 Extracted: 08/14/06											
Blank Analyzed: 08/15/2006 (6H14134-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H14134-BS1)											
Antimony	80.9	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Copper	82.3	2.0	0.25	ug/l	80.0		103	85-115			
Lead	83.0	1.0	0.040	ug/l	80.0		104	85-115			
Selenium	80.2	2.0	0.30	ug/l	80.0		100	85-115			
Silver	82.1	1.0	0.025	ug/l	80.0		103	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H14134-MS1) Source: IPH1125-01											
Antimony	84.0	2.0	0.050	ug/l	80.0	0.58	104	70-130			
Cadmium	82.0	1.0	0.025	ug/l	80.0	ND	102	70-130			
Copper	78.9	2.0	0.25	ug/l	80.0	1.1	97	70-130			
Lead	79.6	1.0	0.040	ug/l	80.0	0.14	99	70-130			
Selenium	77.3	2.0	0.30	ug/l	80.0	0.32	96	70-130			
Silver	79.7	1.0	0.025	ug/l	80.0	0.026	100	70-130			
Thallium	81.6	1.0	0.15	ug/l	80.0	0.17	102	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H14134-MSD1) Source: IPH1125-01											
Antimony	83.0	2.0	0.050	ug/l	80.0	0.58	103	70-130	1	20	
Cadmium	81.6	1.0	0.025	ug/l	80.0	ND	102	70-130	1	20	
Copper	78.5	2.0	0.25	ug/l	80.0	1.1	97	70-130	1	20	
Lead	79.5	1.0	0.040	ug/l	80.0	0.14	99	70-130	0	20	
Selenium	78.8	2.0	0.30	ug/l	80.0	0.32	98	70-130	2	20	
Silver	79.8	1.0	0.025	ug/l	80.0	0.026	100	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	0.17	101	70-130	0	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1)						Source: IPH1125-01					
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2)						Source: IPH1129-01					
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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 Project Manager

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 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1) Source: IPH1125-01											
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2) Source: IPH1126-01											
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1129

Sampled: 08/10/06
 Received: 08/10/06

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: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H14094 Extracted: 08/14/06

Blank Analyzed: 08/14/2006 (6H14094-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/14/2006 (6H14094-BS1)

Mercury	8.22	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 08/14/2006 (6H14094-MS1)

Source: IPH1161-03

Mercury	8.16	0.20	0.15	ug/l	8.00	ND	102	70-130			
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Matrix Spike Dup Analyzed: 08/14/2006 (6H14094-MSD1)

Source: IPH1161-03

Mercury	8.05	0.20	0.15	ug/l	8.00	ND	101	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

J

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 Received: 08/10/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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 Received: 08/10/06

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: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1) Source: IPH1127-01											
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1) Source: IPH1127-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H11095 Extracted: 08/11/06</u>											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	N/A	pH Units		8.17			0	5	
<u>Batch: 6H11120 Extracted: 08/11/06</u>											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
<u>Batch: 6H15148 Extracted: 08/15/06</u>											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
Density	1.01	NA	N/A	g/cc		1.0			1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
Total Dissolved Solids	208	10	10	mg/l		210			1	10	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17092 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)						Source: IPH1126-01					
Specific Conductance	636	1.0	N/A	umhos/cm		630			1	5	
Batch: 6H17119 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)						Source: IPH1115-01					
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)						Source: IPH1115-01					
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
<u>Batch: 6H18115 Extracted: 08/18/06</u>											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
<u>Batch: 6H19052 Extracted: 08/19/06</u>											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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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.
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Michele Chamberlin
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IPH1129

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		ANALYSIS REQUIRED		Field readings: Temp = 78.3 pH = 7.10						
Project Manager: Bronwyn Kelly Sampler: Rick - BANACB		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*		Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*						
Sample Description	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Organic Carbon (ASTM Method)	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Comments
AC-EFF	Poly-1L	1	8-10-06 08:15	HNO3	1	X						
AC-EFF	Poly-1L	1		None	2	X						
AC-EFF	VOAs	2		HCl	3A, 3B		X					
AC-EFF	1L Amber	2		HCl	4A, 4B		X					
AC-EFF	Poly-500 ml	1		H2SO4	5			X				
AC-EFF	Poly-500 ml	1		None	6				X			
AC-EFF	Poly-500 ml	2		None	7A, 7B					X		
AC-EFF	Poly-500 ml	1		H2SO4	8						X	
AC-EFF	Poly-1L	1	8-10-06 08:15	None	9							
Relinquished By	8-10-06		Date/Time	1950		Date/Time	8-10-06		1550		Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>	
Relinquished By	8-10-06		Date/Time	1950		Date/Time	8-10-06		1950		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact _____ On Ice: <input checked="" type="checkbox"/>	
Relinquished By			Date/Time			Date/Time					HE 8-10-06 2220	

Edward Pi 8/10/06 1950

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 16:55

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1131-01

CLIENT ID

BST-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1131

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1131-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Calcium	EPA 200.7	6H19052	0.040	0.10	61	1	08/19/06	08/20/06	
Iron	EPA 200.7	6H19052	0.015	0.040	0.39	1	08/19/06	08/20/06	
Magnesium	EPA 200.7	6H19052	0.0070	0.020	16	1	08/19/06	08/20/06	
Sample ID: IPH1131-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H16063	0.050	2.0	0.50	1	08/16/06	08/20/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H16063	0.025	1.0	ND	1	08/16/06	08/20/06	
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H16063	0.25	2.0	2.7	1	08/16/06	08/20/06	
Lead	EPA 200.8	6H16063	0.040	1.0	0.59	1	08/16/06	08/20/06	J
Manganese	EPA 200.7	6H19052	7.0	20	52	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	ND	1	08/19/06	08/20/06	
Selenium	EPA 200.8	6H16063	0.30	2.0	ND	1	08/16/06	08/20/06	
Silver	EPA 200.8	6H16063	0.025	1.0	ND	1	08/16/06	08/20/06	
Thallium	EPA 200.8	6H16063	0.15	1.0	ND	1	08/16/06	08/20/06	
Zinc	EPA 200.7	6H19052	15	20	ND	1	08/19/06	08/20/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1131-01 (BST-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1131-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.55	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/21/06	
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	0.89	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	0.042	1	08/17/06	08/17/06	J
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H14094	0.15	0.20	ND	1	08/14/06	08/14/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	2.0	1	08/11/06	08/18/06	J
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	0.38	1	08/17/06	08/17/06	J
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/17/06	
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1131-01 (BST-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.99	1	08/17/06	08/17/06	
Sample ID: IPH1131-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	10	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	1.1	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	220	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	0.84	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	220	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.89	4.7	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	4.5	5.0	89	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	350	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	12	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	10	1	08/15/06	08/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1131-01 (BST-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	9.4	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1131-01 (BST-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	8.14	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1131-01 (BST-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	610	1	08/17/06	08/17/06	

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Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: BST-EFF (IPH1131-01) - Water					
EPA 150.1	1	08/10/2006 08:30	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 08:30	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 08:30	08/10/2006 19:50	08/10/2006 22:00	08/11/2006 02:38

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H16063 Extracted: 08/16/06											
Blank Analyzed: 08/17/2006 (6H16063-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.667	2.0	0.25	ug/l							J
Lead	0.0840	1.0	0.040	ug/l							J
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/17/2006 (6H16063-BS1)											
Antimony	75.3	2.0	0.050	ug/l	80.0		94	85-115			
Cadmium	75.4	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.3	2.0	0.25	ug/l	80.0		97	85-115			
Lead	75.4	1.0	0.040	ug/l	80.0		94	85-115			
Selenium	73.4	2.0	0.30	ug/l	80.0		92	85-115			
Silver	77.2	1.0	0.025	ug/l	80.0		96	85-115			
Thallium	70.6	1.0	0.15	ug/l	80.0		88	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H16063 Extracted: 08/16/06											
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS1)						Source: IPH1117-01					
Antimony	73.0	4.0	0.10	ug/l	80.0	0.31	91	70-130			
Cadmium	70.0	2.0	0.050	ug/l	80.0	0.094	87	70-130			
Copper	72.7	4.0	0.50	ug/l	80.0	4.0	86	70-130			
Lead	68.5	2.0	0.080	ug/l	80.0	0.28	85	70-130			
Selenium	84.8	4.0	0.60	ug/l	80.0	14	88	70-130			
Silver	69.2	2.0	0.050	ug/l	80.0	ND	86	70-130			
Thallium	58.7	2.0	0.30	ug/l	80.0	ND	73	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS2)						Source: IPH1319-03					
Antimony	68.2	2.0	0.050	ug/l	80.0	1.4	84	70-130			
Cadmium	61.3	1.0	0.025	ug/l	80.0	0.031	77	70-130			
Copper	195	2.0	0.25	ug/l	80.0	140	69	70-130			M2
Lead	67.2	1.0	0.040	ug/l	80.0	0.72	83	70-130			
Selenium	68.0	2.0	0.30	ug/l	80.0	2.4	82	70-130			
Silver	66.4	1.0	0.025	ug/l	80.0	ND	83	70-130			
Thallium	59.4	1.0	0.15	ug/l	80.0	ND	74	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H16063-MSD1)						Source: IPH1117-01					
Antimony	74.6	4.0	0.10	ug/l	80.0	0.31	93	70-130	2	20	
Cadmium	72.0	2.0	0.050	ug/l	80.0	0.094	90	70-130	3	20	
Copper	74.1	4.0	0.50	ug/l	80.0	4.0	88	70-130	2	20	
Lead	71.5	2.0	0.080	ug/l	80.0	0.28	89	70-130	4	20	
Selenium	87.7	4.0	0.60	ug/l	80.0	14	92	70-130	3	20	
Silver	70.5	2.0	0.050	ug/l	80.0	ND	88	70-130	2	20	
Thallium	61.6	2.0	0.30	ug/l	80.0	ND	77	70-130	5	20	

Batch: 6H19052 Extracted: 08/19/06

Blank Analyzed: 08/20/2006 (6H19052-BLK1)

Arsenic	ND	5.0	4.4	ug/l
Beryllium	ND	2.0	0.90	ug/l
Calcium	ND	0.10	0.040	mg/l
Chromium	ND	5.0	2.0	ug/l
Iron	ND	0.040	0.015	mg/l
Magnesium	ND	0.020	0.0070	mg/l
Manganese	ND	20	7.0	ug/l

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1) Source: IPH1125-01											
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2) Source: IPH1129-01											
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1) Source: IPH1125-01											
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2) Source: IPH1126-01											
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1131

Sampled: 08/10/06
 Received: 08/10/06

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: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H14094 Extracted: 08/14/06

Blank Analyzed: 08/14/2006 (6H14094-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/14/2006 (6H14094-BS1)

Mercury	8.22	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 08/14/2006 (6H14094-MS1)

Mercury	8.16	0.20	0.15	ug/l	8.00	ND	102	70-130			
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Matrix Spike Dup Analyzed: 08/14/2006 (6H14094-MSD1)

Mercury	8.05	0.20	0.15	ug/l	8.00	ND	101	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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 R-2A Pond Pilot Test
 Report Number: IPH1131

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 Received: 08/10/06

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: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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 R-2A Pond Pilot Test
 Report Number: IPH1131

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 Received: 08/10/06

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: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1) Source: IPH1127-01											
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1) Source: IPH1127-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11095 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
Batch: 6H11120 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
Batch: 6H15148 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	

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 Report Number: IPH1131

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
						Source: IPH1131-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
						Source: IPH1131-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
						Source: IPH1125-01					
Density	1.01	NA	N/A	g/cc		1.0			1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
						Source: IPH1754-01					
Total Dissolved Solids	208	10	10	mg/l		210			1	10	

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 Report Number: IPH1131

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17092 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)						Source: IPH1126-01					
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
Batch: 6H17119 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)						Source: IPH1115-01					
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)						Source: IPH1115-01					
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
<u>Batch: 6H18115 Extracted: 08/18/06</u>											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
<u>Batch: 6H19052 Extracted: 08/19/06</u>											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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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.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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, CA
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 R-2A Pond Pilot Test
 Report Number: IPH1131

Sampled: 08/10/06
 Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

IPHUB

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project: **Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Bronwyn Kelly**
 Phone Number: (626) 568-6691
 Fax Number: (626) 568-6515

Sampler: **Pick Barton**

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon (EPA 413.1)	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn	Field readings: Temp = 79.3 pH = 7.24	Comments
BST-EFF	W	Poly-1L	1	8-10-06 08:30	HNO3	1	X										
BST-EFF	W	Poly-1L	1		None	2		X									
BST-EFF	W	VOAs	2		HCl	3A, 3B			X								
BST-EFF	W	1L Amber	2		HCl	4A, 4B				X							
BST-EFF	W	Poly-500 ml	1		H2SO4	5					X						
BST-EFF	W	Poly-500 ml	1		None	6						X					
BST-EFF	W	Poly-500 ml	2		None	7A, 7B							X				
BST-EFF	W	Poly-500 ml	1		H2SO4	8									X		
BST-EFF	W	Poly-1L	1	8-10-06 08:30	None	9										X	

Relinquished By: *[Signature]* Date/Time: 8-10-06 1950
 Received By: *[Signature]* Date/Time: 8-10-06 1550

Relinquished By: *[Signature]* Date/Time: 8-10-06 1950
 Received By: *[Signature]* Date/Time: 8-10-06 1950

Relinquished By: _____ Date/Time: _____
 Received By: *[Signature]* Date/Time: 8-10-06 1950

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

Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) Intact On Ice: 3

HE 8-10-06
 2220

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 17:03

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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
IPH1133-01

CLIENT ID
PT-INF2

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
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 Report Number: IPH1133

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1133-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H19052	0.015	0.040	4.9	1	08/19/06	08/20/06	
Sample ID: IPH1133-01 (PT-INF2 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H16063	0.050	2.0	1.2	1	08/16/06	08/20/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H16063	0.025	1.0	0.15	1	08/16/06	08/20/06	J
Chromium	EPA 200.7	6H19052	2.0	5.0	5.4	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H16063	0.25	2.0	6.3	1	08/16/06	08/20/06	
Lead	EPA 200.8	6H16063	0.040	1.0	4.4	1	08/16/06	08/20/06	
Manganese	EPA 200.7	6H19052	7.0	20	220	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	6.2	1	08/19/06	08/20/06	J
Selenium	EPA 200.8	6H16063	0.30	2.0	0.48	1	08/16/06	08/20/06	J
Silver	EPA 200.8	6H16063	0.025	1.0	0.26	1	08/16/06	08/20/06	J
Thallium	EPA 200.8	6H16063	0.15	1.0	ND	1	08/16/06	08/20/06	
Zinc	EPA 200.7	6H19052	15	20	42	1	08/19/06	08/20/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1133-01 (PT-INF2 - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1133-01 (PT-INF2 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.54	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	0.038	1	08/17/06	08/17/06	J
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	0.91	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	0.046	1	08/17/06	08/17/06	J
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H15097	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	ND	1	08/11/06	08/18/06	
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	ND	1	08/17/06	08/17/06	
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	0.030	1	08/17/06	08/17/06	J
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1133-01 (PT-INF2 - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.97	1	08/17/06	08/17/06	
Sample ID: IPH1133-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	40	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	0.84	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	180	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	0.56	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	230	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.90	4.8	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	4.5	5.0	89	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	350	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	11	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	39	1	08/15/06	08/15/06	

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Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1133-01 (PT-INF2 - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	23	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1133-01 (PT-INF2 - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	8.26	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1133-01 (PT-INF2 - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	610	1	08/17/06	08/17/06	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: PT-INF2 (IPH1133-01) - Water					
EPA 150.1	1	08/10/2006 07:35	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 07:35	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 07:35	08/10/2006 19:50	08/10/2006 22:00	08/11/2006 03:19

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H16063 Extracted: 08/16/06											
Blank Analyzed: 08/17/2006 (6H16063-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.667	2.0	0.25	ug/l							J
Lead	0.0840	1.0	0.040	ug/l							J
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/17/2006 (6H16063-BS1)											
Antimony	75.3	2.0	0.050	ug/l	80.0		94	85-115			
Cadmium	75.4	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.3	2.0	0.25	ug/l	80.0		97	85-115			
Lead	75.4	1.0	0.040	ug/l	80.0		94	85-115			
Selenium	73.4	2.0	0.30	ug/l	80.0		92	85-115			
Silver	77.2	1.0	0.025	ug/l	80.0		96	85-115			
Thallium	70.6	1.0	0.15	ug/l	80.0		88	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H16063 Extracted: 08/16/06											
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS1)						Source: IPH1117-01					
Antimony	73.0	4.0	0.10	ug/l	80.0	0.31	91	70-130			
Cadmium	70.0	2.0	0.050	ug/l	80.0	0.094	87	70-130			
Copper	72.7	4.0	0.50	ug/l	80.0	4.0	86	70-130			
Lead	68.5	2.0	0.080	ug/l	80.0	0.28	85	70-130			
Selenium	84.8	4.0	0.60	ug/l	80.0	14	88	70-130			
Silver	69.2	2.0	0.050	ug/l	80.0	ND	86	70-130			
Thallium	58.7	2.0	0.30	ug/l	80.0	ND	73	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS2)						Source: IPH1319-03					
Antimony	68.2	2.0	0.050	ug/l	80.0	1.4	84	70-130			
Cadmium	61.3	1.0	0.025	ug/l	80.0	0.031	77	70-130			
Copper	195	2.0	0.25	ug/l	80.0	140	69	70-130			M2
Lead	67.2	1.0	0.040	ug/l	80.0	0.72	83	70-130			
Selenium	68.0	2.0	0.30	ug/l	80.0	2.4	82	70-130			
Silver	66.4	1.0	0.025	ug/l	80.0	ND	83	70-130			
Thallium	59.4	1.0	0.15	ug/l	80.0	ND	74	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H16063-MSD1)						Source: IPH1117-01					
Antimony	74.6	4.0	0.10	ug/l	80.0	0.31	93	70-130	2	20	
Cadmium	72.0	2.0	0.050	ug/l	80.0	0.094	90	70-130	3	20	
Copper	74.1	4.0	0.50	ug/l	80.0	4.0	88	70-130	2	20	
Lead	71.5	2.0	0.080	ug/l	80.0	0.28	89	70-130	4	20	
Selenium	87.7	4.0	0.60	ug/l	80.0	14	92	70-130	3	20	
Silver	70.5	2.0	0.050	ug/l	80.0	ND	88	70-130	2	20	
Thallium	61.6	2.0	0.30	ug/l	80.0	ND	77	70-130	5	20	

Batch: 6H19052 Extracted: 08/19/06

Blank Analyzed: 08/20/2006 (6H19052-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	0.040	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06										
Blank Analyzed: 08/20/2006 (6H19052-BLK1)										
Nickel	ND	10	2.0	ug/l						
Zinc	ND	20	15	ug/l						
LCS Analyzed: 08/20/2006 (6H19052-BS1)										
Arsenic	481	5.0	4.4	ug/l	500		96		85-115	
Beryllium	494	2.0	0.90	ug/l	500		99		85-115	
Chromium	476	5.0	2.0	ug/l	500		95		85-115	
Iron	0.496	0.040	0.015	mg/l	0.500		99		85-115	
Manganese	468	20	7.0	ug/l	500		94		85-115	
Nickel	492	10	2.0	ug/l	500		98		85-115	
Zinc	459	20	15	ug/l	500		92		85-115	
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1) Source: IPH1125-01										
Arsenic	484	5.0	4.4	ug/l	500	ND	97		70-130	
Beryllium	497	2.0	0.90	ug/l	500	ND	99		70-130	
Chromium	471	5.0	2.0	ug/l	500	ND	94		70-130	
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97		70-130	
Manganese	465	20	7.0	ug/l	500	ND	93		70-130	
Nickel	483	10	2.0	ug/l	500	ND	97		70-130	
Zinc	463	20	15	ug/l	500	ND	93		70-130	
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2) Source: IPH1129-01										
Arsenic	496	5.0	4.4	ug/l	500	ND	99		70-130	
Beryllium	499	2.0	0.90	ug/l	500	ND	100		70-130	
Chromium	483	5.0	2.0	ug/l	500	ND	97		70-130	
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105		70-130	
Manganese	510	20	7.0	ug/l	500	28	96		70-130	
Nickel	491	10	2.0	ug/l	500	ND	98		70-130	
Zinc	476	20	15	ug/l	500	ND	95		70-130	

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2)						Source: IPH1126-01					
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1133

Sampled: 08/10/06
 Received: 08/10/06

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: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H15097 Extracted: 08/15/06

Blank Analyzed: 08/15/2006 (6H15097-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/15/2006 (6H15097-BS1)

Mercury	7.93	0.20	0.15	ug/l	8.00		99	85-115			
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Matrix Spike Analyzed: 08/15/2006 (6H15097-MS1)

Source: IPH1426-01

Mercury	7.82	0.20	0.15	ug/l	8.00	ND	98	70-130			
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Matrix Spike Dup Analyzed: 08/15/2006 (6H15097-MSD1)

Source: IPH1426-01

Mercury	7.87	0.20	0.15	ug/l	8.00	ND	98	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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 Received: 08/10/06

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: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1) Source: IPH1127-01											
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1) Source: IPH1127-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H11095 Extracted: 08/11/06</u>											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
<u>Batch: 6H11120 Extracted: 08/11/06</u>											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
<u>Batch: 6H15148 Extracted: 08/15/06</u>											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
Density	1.01	NA	N/A	g/cc		1.0			1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
Total Dissolved Solids	208	10	10	mg/l		210			1	10	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17092 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)						Source: IPH1126-01					
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
Batch: 6H17119 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)						Source: IPH1115-01					
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)						Source: IPH1115-01					
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	

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 Report Number: IPH1133

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
<u>Batch: 6H18115 Extracted: 08/18/06</u>											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
<u>Batch: 6H19052 Extracted: 08/19/06</u>											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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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.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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, CA
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

1741133

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Project Manager: Bronwyn Kelly Sampler: <i>Jin B. Garcia</i>		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		ANALYSIS REQUIRED Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) Total Organic Carbon Oil & Grease (EPA 413.1) Total Kjeldahl Nitrogen SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) Turbidity, TSS, Conductivity Ammonia-N (NH3-N) Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn Field readings: Temp = 78.3 pH = 7.37 Comments													
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals	Total Dissolved Solids, pH	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals	Field readings	
PT-INF2	W	Poly-1L	1	8-10-06 09:35	HNO3	1	X	X									
PT-INF2	W	Poly-1L	1		None	2			X								
PT-INF2	W	VOAs	2		HCl	3A, 3B											
PT-INF2	W	1L Amber	2		HCl	4A, 4B				X							
PT-INF2	W	Poly-500 ml	1		H2SO4	5				X							
PT-INF2	W	Poly-500 ml	1		None	6					X						
PT-INF2	W	Poly-500 ml	2		None	7A, 7B							X				
PT-INF2	W	Poly-500 ml	1		H2SO4	8								X			
PT-INF2	W	Poly-1L	1	8-10-06 09:35	None	9									X		
Relinquished By: <i>[Signature]</i>				8-10-06	Date/Time: 1950	Received By: <i>[Signature]</i>	8-10-06	Date/Time: 1550	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) On Ice: <input checked="" type="checkbox"/>								
Relinquished By: <i>[Signature]</i>				8-10-06	Date/Time: 1950	Received By: <i>[Signature]</i>	Edward Jr 8/10/06 1950										
Relinquished By: <i>[Signature]</i>					Date/Time:	Received By:	HE 8-10-06 2220										

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 17:15

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1134-01

CLIENT ID

PT-INF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1134

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1134-01 (PT-INF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H19052	0.015	0.040	1.0	1	08/19/06	08/20/06	
Sample ID: IPH1134-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H16063	0.050	2.0	2.9	1	08/16/06	08/20/06	
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H16063	0.025	1.0	0.033	1	08/16/06	08/20/06	J
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H16063	0.25	2.0	2.9	1	08/16/06	08/20/06	
Lead	EPA 200.8	6H16063	0.040	1.0	1.0	1	08/16/06	08/20/06	
Manganese	EPA 200.7	6H19052	7.0	20	84	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	3.5	1	08/19/06	08/20/06	J
Selenium	EPA 200.8	6H16063	0.30	2.0	0.41	1	08/16/06	08/20/06	J
Silver	EPA 200.8	6H16063	0.025	1.0	0.052	1	08/16/06	08/20/06	J
Thallium	EPA 200.8	6H16063	0.15	1.0	ND	1	08/16/06	08/20/06	
Zinc	EPA 200.7	6H19052	15	20	180	1	08/19/06	08/20/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1134-01 (PT-INF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1134-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.61	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	0.046	1	08/17/06	08/17/06	J
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	0.99	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	0.044	1	08/17/06	08/17/06	J
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H15097	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	2.1	1	08/11/06	08/18/06	J
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	0.41	1	08/17/06	08/17/06	J
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	0.034	1	08/17/06	08/17/06	J
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	0.15	1	08/17/06	08/17/06	J
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1134-01 (PT-INF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.98	1	08/17/06	08/17/06	
Sample ID: IPH1134-01 (PT-INF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	42	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	1.1	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	190	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	0.84	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	220	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.90	4.8	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	4.5	5.0	89	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	370	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	11	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	41	1	08/15/06	08/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1134-01 (PT-INF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	12	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1134-01 (PT-INF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	8.26	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1134-01 (PT-INF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	590	1	08/17/06	08/17/06	

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Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PT-INF (IPH1134-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/10/2006 07:55	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 07:55	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 07:55	08/10/2006 19:50	08/10/2006 22:00	08/11/2006 04:00

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H16063 Extracted: 08/16/06											
Blank Analyzed: 08/17/2006 (6H16063-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.667	2.0	0.25	ug/l							J
Lead	0.0840	1.0	0.040	ug/l							J
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/17/2006 (6H16063-BS1)											
Antimony	75.3	2.0	0.050	ug/l	80.0		94	85-115			
Cadmium	75.4	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.3	2.0	0.25	ug/l	80.0		97	85-115			
Lead	75.4	1.0	0.040	ug/l	80.0		94	85-115			
Selenium	73.4	2.0	0.30	ug/l	80.0		92	85-115			
Silver	77.2	1.0	0.025	ug/l	80.0		96	85-115			
Thallium	70.6	1.0	0.15	ug/l	80.0		88	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H16063 Extracted: 08/16/06											
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS1)						Source: IPH1117-01					
Antimony	73.0	4.0	0.10	ug/l	80.0	0.31	91	70-130			
Cadmium	70.0	2.0	0.050	ug/l	80.0	0.094	87	70-130			
Copper	72.7	4.0	0.50	ug/l	80.0	4.0	86	70-130			
Lead	68.5	2.0	0.080	ug/l	80.0	0.28	85	70-130			
Selenium	84.8	4.0	0.60	ug/l	80.0	14	88	70-130			
Silver	69.2	2.0	0.050	ug/l	80.0	ND	86	70-130			
Thallium	58.7	2.0	0.30	ug/l	80.0	ND	73	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS2)						Source: IPH1319-03					
Antimony	68.2	2.0	0.050	ug/l	80.0	1.4	84	70-130			
Cadmium	61.3	1.0	0.025	ug/l	80.0	0.031	77	70-130			
Copper	195	2.0	0.25	ug/l	80.0	140	69	70-130			M2
Lead	67.2	1.0	0.040	ug/l	80.0	0.72	83	70-130			
Selenium	68.0	2.0	0.30	ug/l	80.0	2.4	82	70-130			
Silver	66.4	1.0	0.025	ug/l	80.0	ND	83	70-130			
Thallium	59.4	1.0	0.15	ug/l	80.0	ND	74	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H16063-MSD1)						Source: IPH1117-01					
Antimony	74.6	4.0	0.10	ug/l	80.0	0.31	93	70-130	2	20	
Cadmium	72.0	2.0	0.050	ug/l	80.0	0.094	90	70-130	3	20	
Copper	74.1	4.0	0.50	ug/l	80.0	4.0	88	70-130	2	20	
Lead	71.5	2.0	0.080	ug/l	80.0	0.28	89	70-130	4	20	
Selenium	87.7	4.0	0.60	ug/l	80.0	14	92	70-130	3	20	
Silver	70.5	2.0	0.050	ug/l	80.0	ND	88	70-130	2	20	
Thallium	61.6	2.0	0.30	ug/l	80.0	ND	77	70-130	5	20	

Batch: 6H19052 Extracted: 08/19/06

Blank Analyzed: 08/20/2006 (6H19052-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	0.040	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1) Source: IPH1125-01											
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2) Source: IPH1129-01											
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1) Source: IPH1125-01											
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2) Source: IPH1126-01											
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1134

Sampled: 08/10/06
 Received: 08/10/06

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: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H15097 Extracted: 08/15/06

Blank Analyzed: 08/15/2006 (6H15097-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/15/2006 (6H15097-BS1)

Mercury	7.93	0.20	0.15	ug/l	8.00		99	85-115			
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Matrix Spike Analyzed: 08/15/2006 (6H15097-MS1)

Source: IPH1426-01

Mercury	7.82	0.20	0.15	ug/l	8.00	ND	98	70-130			
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Matrix Spike Dup Analyzed: 08/15/2006 (6H15097-MSD1)

Source: IPH1426-01

Mercury	7.87	0.20	0.15	ug/l	8.00	ND	98	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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 Received: 08/10/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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Sampled: 08/10/06
 Received: 08/10/06

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: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1) Source: IPH1127-01											
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1) Source: IPH1127-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11095 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
Batch: 6H11120 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
Batch: 6H15148 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	

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 R-2A Pond Pilot Test
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
						Source: IPH1131-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
						Source: IPH1131-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
						Source: IPH1125-01					
Density	1.01	NA	N/A	g/cc		1.0			1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
						Source: IPH1754-01					
Total Dissolved Solids	208	10	10	mg/l		210			1	10	

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 Report Number: IPH1134

Sampled: 08/10/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17092 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)						Source: IPH1126-01					
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
Batch: 6H17119 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)						Source: IPH1115-01					
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)						Source: IPH1115-01					
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	

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 Report Number: IPH1134

Sampled: 08/10/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
<u>Batch: 6H18115 Extracted: 08/18/06</u>											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			
<u>Batch: 6H19052 Extracted: 08/19/06</u>											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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Report Number: IPH1134

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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.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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, CA
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 R-2A Pond Pilot Test
 Report Number: IPH1134

Sampled: 08/10/06
 Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

CHAIN OF CUSTODY FORM

Version 04/28/06

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test																			
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515																			
Sampler: Rick Bricard																					
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon (EPA 413.1)	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn	Field readings: Temp = 80.1 pH = 7.40	Comments				
PT-INF	W	Poly-1L	1	8-10-06 07:55	HNO3	1	X	X													
PT-INF	W	Poly-1L	1		None	2		X	X												
PT-INF	W	VOAs	2		HCl	3A, 3B															
PT-INF	W	1L Amber	2		HCl	4A, 4B			X												
PT-INF	W	Poly-500 ml	1		H2SO4	5				X											
PT-INF	W	Poly-500 ml	1		None	6					X										
PT-INF	W	Poly-500 ml	2		None	7A, 7B							X								
PT-INF	W	Poly-500 ml	1		H2SO4	8								X							
PT-INF	W	Poly-1L	1	8-10-06 07:55	None	9									X						
Relinquished By	Rick Bricard		8-10-06	1550	Received By		Date/Time: 8-10-06 1550														
Relinquished By	Rick Bricard		8-10-06	1550	Received By		Date/Time: 8-10-06 1550														
Relinquished By	Rick Bricard		8-10-06	1550	Received By		Date/Time: 8-10-06 1550														
										Turn around Time: (check)		24 Hours		48 Hours		72 Hours		Perchlorate Only 72 Hours		Metals Only 72 Hours	
										Sample Integrity: (Check)		Intact		Metals Only 72 Hours		Normal		Sample Integrity: (Check)		On Ice: 3	

Received By: *Eileen N. Sprock* 8/10/06 1750
 HE 8-10-06
 7220

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 17:28

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1135-01

CLIENT ID

LC-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1135

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1135-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H16072	0.015	0.040	0.095	1	08/16/06	08/19/06	
Sample ID: IPH1135-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H16063	0.050	2.0	0.86	1	08/16/06	08/20/06	J
Arsenic	EPA 200.7	6H16072	4.4	5.0	ND	1	08/16/06	08/19/06	
Beryllium	EPA 200.7	6H16072	0.90	2.0	ND	1	08/16/06	08/19/06	
Cadmium	EPA 200.8	6H16063	0.025	1.0	0.025	1	08/16/06	08/20/06	J
Chromium	EPA 200.7	6H16072	2.0	5.0	ND	1	08/16/06	08/19/06	
Copper	EPA 200.8	6H16063	0.25	2.0	3.2	1	08/16/06	08/20/06	
Lead	EPA 200.8	6H16063	0.040	1.0	1.2	1	08/16/06	08/20/06	
Manganese	EPA 200.7	6H16072	7.0	20	38	1	08/16/06	08/19/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H16072	2.0	10	2.0	1	08/16/06	08/19/06	J
Selenium	EPA 200.8	6H16063	0.30	2.0	ND	1	08/16/06	08/20/06	
Silver	EPA 200.8	6H16063	0.025	1.0	ND	1	08/16/06	08/20/06	
Thallium	EPA 200.8	6H16063	0.15	1.0	ND	1	08/16/06	08/20/06	
Zinc	EPA 200.7	6H16072	15	20	ND	1	08/16/06	08/19/06	

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Sampled: 08/10/06
 Received: 08/10/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1135-01 (LC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	0.017	1	08/11/06	08/18/06	J
Sample ID: IPH1135-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.82	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	0.032	1	08/17/06	08/21/06	J
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	3.5	1	08/17/06	08/17/06	
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	0.053	1	08/17/06	08/17/06	J
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H15097	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	2.1	1	08/11/06	08/18/06	J
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	ND	1	08/17/06	08/17/06	
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/17/06	
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1135-01 (LC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.98	1	08/17/06	08/17/06	
Sample ID: IPH1135-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	ND	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	1.4	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	170	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	1.1	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H16072	1.0	1.0	200	1	08/16/06	08/19/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	0.097	1	08/10/06	08/11/06	J
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	0.098	1	08/10/06	08/11/06	J
Oil & Grease	EPA 413.1	6H11068	0.89	4.7	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	4.5	5.0	90	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	360	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H17119	0.50	1.0	14	1	08/17/06	08/17/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	ND	1	08/15/06	08/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1135-01 (LC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	3.8	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1135-01 (LC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	7.93	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1135-01 (LC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	610	1	08/17/06	08/17/06	

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Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: LC-EFF (IPH1135-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/10/2006 09:50	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 09:50	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 09:50	08/10/2006 19:50	08/10/2006 22:00	08/11/2006 05:21

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H16063 Extracted: 08/16/06											
Blank Analyzed: 08/17/2006 (6H16063-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.667	2.0	0.25	ug/l							J
Lead	0.0840	1.0	0.040	ug/l							J
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/17/2006 (6H16063-BS1)											
Antimony	75.3	2.0	0.050	ug/l	80.0		94	85-115			
Cadmium	75.4	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.3	2.0	0.25	ug/l	80.0		97	85-115			
Lead	75.4	1.0	0.040	ug/l	80.0		94	85-115			
Selenium	73.4	2.0	0.30	ug/l	80.0		92	85-115			
Silver	77.2	1.0	0.025	ug/l	80.0		96	85-115			
Thallium	70.6	1.0	0.15	ug/l	80.0		88	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H16063 Extracted: 08/16/06											
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS1)						Source: IPH1117-01					
Antimony	73.0	4.0	0.10	ug/l	80.0	0.31	91	70-130			
Cadmium	70.0	2.0	0.050	ug/l	80.0	0.094	87	70-130			
Copper	72.7	4.0	0.50	ug/l	80.0	4.0	86	70-130			
Lead	68.5	2.0	0.080	ug/l	80.0	0.28	85	70-130			
Selenium	84.8	4.0	0.60	ug/l	80.0	14	88	70-130			
Silver	69.2	2.0	0.050	ug/l	80.0	ND	86	70-130			
Thallium	58.7	2.0	0.30	ug/l	80.0	ND	73	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS2)						Source: IPH1319-03					
Antimony	68.2	2.0	0.050	ug/l	80.0	1.4	84	70-130			
Cadmium	61.3	1.0	0.025	ug/l	80.0	0.031	77	70-130			
Copper	195	2.0	0.25	ug/l	80.0	140	69	70-130			M2
Lead	67.2	1.0	0.040	ug/l	80.0	0.72	83	70-130			
Selenium	68.0	2.0	0.30	ug/l	80.0	2.4	82	70-130			
Silver	66.4	1.0	0.025	ug/l	80.0	ND	83	70-130			
Thallium	59.4	1.0	0.15	ug/l	80.0	ND	74	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H16063-MSD1)						Source: IPH1117-01					
Antimony	74.6	4.0	0.10	ug/l	80.0	0.31	93	70-130	2	20	
Cadmium	72.0	2.0	0.050	ug/l	80.0	0.094	90	70-130	3	20	
Copper	74.1	4.0	0.50	ug/l	80.0	4.0	88	70-130	2	20	
Lead	71.5	2.0	0.080	ug/l	80.0	0.28	89	70-130	4	20	
Selenium	87.7	4.0	0.60	ug/l	80.0	14	92	70-130	3	20	
Silver	70.5	2.0	0.050	ug/l	80.0	ND	88	70-130	2	20	
Thallium	61.6	2.0	0.30	ug/l	80.0	ND	77	70-130	5	20	

Batch: 6H16072 Extracted: 08/16/06

Blank Analyzed: 08/19/2006 (6H16072-BLK1)

Arsenic	ND	5.0	4.4	ug/l
Beryllium	ND	2.0	0.90	ug/l
Calcium	ND	0.10	0.040	mg/l
Chromium	ND	5.0	2.0	ug/l
Iron	ND	0.040	0.015	mg/l
Magnesium	ND	0.020	0.0070	mg/l
Manganese	ND	20	7.0	ug/l

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H16072 Extracted: 08/16/06											
Blank Analyzed: 08/19/2006 (6H16072-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/19/2006 (6H16072-BS1)											
Arsenic	490	5.0	4.4	ug/l	500		98	85-115			
Beryllium	495	2.0	0.90	ug/l	500		99	85-115			
Chromium	490	5.0	2.0	ug/l	500		98	85-115			
Iron	0.512	0.040	0.015	mg/l	0.500		102	85-115			
Manganese	482	20	7.0	ug/l	500		96	85-115			
Nickel	490	10	2.0	ug/l	500		98	85-115			
Zinc	463	20	15	ug/l	500		93	85-115			
Matrix Spike Analyzed: 08/19/2006 (6H16072-MS1) Source: IPH1319-06											
Arsenic	503	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	500	5.0	2.0	ug/l	500	3.1	99	70-130			
Iron	0.542	0.040	0.015	mg/l	0.500	ND	108	70-130			
Manganese	508	20	7.0	ug/l	500	7.1	100	70-130			
Nickel	498	10	2.0	ug/l	500	8.0	98	70-130			
Zinc	596	20	15	ug/l	500	110	97	70-130			
Matrix Spike Analyzed: 08/19/2006 (6H16072-MS2) Source: IPH1319-05											
Arsenic	503	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	501	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	487	5.0	2.0	ug/l	500	3.4	97	70-130			
Iron	0.529	0.040	0.015	mg/l	0.500	ND	106	70-130			
Manganese	490	20	7.0	ug/l	500	ND	98	70-130			
Nickel	475	10	2.0	ug/l	500	3.6	94	70-130			
Zinc	498	20	15	ug/l	500	18	96	70-130			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H16072 Extracted: 08/16/06											
Matrix Spike Dup Analyzed: 08/19/2006 (6H16072-MSD1)						Source: IPH1319-06					
Arsenic	482	5.0	4.4	ug/l	500	ND	96	70-130	4	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	480	5.0	2.0	ug/l	500	3.1	95	70-130	4	20	
Iron	0.511	0.040	0.015	mg/l	0.500	ND	102	70-130	6	20	
Manganese	474	20	7.0	ug/l	500	7.1	93	70-130	7	20	
Nickel	482	10	2.0	ug/l	500	8.0	95	70-130	3	20	
Zinc	556	20	15	ug/l	500	110	89	70-130	7	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2)						Source: IPH1126-01					
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H15097 Extracted: 08/15/06

Blank Analyzed: 08/15/2006 (6H15097-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/15/2006 (6H15097-BS1)

Mercury	7.93	0.20	0.15	ug/l	8.00		99	85-115			
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Matrix Spike Analyzed: 08/15/2006 (6H15097-MS1)

Mercury	7.82	0.20	0.15	ug/l	8.00	ND	98	70-130			
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Matrix Spike Dup Analyzed: 08/15/2006 (6H15097-MSD1)

Mercury	7.87	0.20	0.15	ug/l	8.00	ND	98	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

J

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1135

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1135

Sampled: 08/10/06
 Received: 08/10/06

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: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1) Source: IPH1127-01											
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1) Source: IPH1127-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11095 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
Batch: 6H11120 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
Batch: 6H15148 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	

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 R-2A Pond Pilot Test
 Report Number: IPH1135

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 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H16072 Extracted: 08/16/06											
Blank Analyzed: 08/19/2006 (6H16072-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
Density	1.01	NA	N/A	g/cc					1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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 R-2A Pond Pilot Test
 Report Number: IPH1135

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6H17087 Extracted: 08/17/06</u>											
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
Total Dissolved Solids	208	10	10	mg/l		210			1	10	
<u>Batch: 6H17092 Extracted: 08/17/06</u>											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)											
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
<u>Batch: 6H17119 Extracted: 08/17/06</u>											
Blank Analyzed: 08/17/2006 (6H17119-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 08/17/2006 (6H17119-BS1)											
Total Organic Carbon	10.7	1.0	0.50	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 08/17/2006 (6H17119-MS1)											
Total Organic Carbon	5.80	1.0	0.50	mg/l	5.00	ND	116	80-120			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17119-MSD1)											
Total Organic Carbon	5.81	1.0	0.50	mg/l	5.00	ND	116	80-120	0	20	
<u>Batch: 6H18109 Extracted: 08/18/06</u>											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							

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MWH-Pasadena/Boeing
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 R-2A Pond Pilot Test
 Report Number: IPH1135

Sampled: 08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H18109 Extracted: 08/18/06											
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)											
						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)											
						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
Batch: 6H18115 Extracted: 08/18/06											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)											
						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
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Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH1135

Sampled: 08/10/06
Received: 08/10/06

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.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1135

Sampled: 08/10/06
 Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

THURS

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address:
 MWH-Pasadena
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project:
 Boeing-SSFL BMP/INPDES
 R-2A Pond Filtration Pilot Test

Project Manager: Bronwyn Kelly
Phone Number: (626) 568-6691
Fax Number: (626) 568-6515

Sampler: BANBP

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Field readings: Temp = 78.4 pH = 7.14	Comments
LC-EFF	W	Poly-1L	1	8-10-06 09:50	HNO3	1	X		X									
LC-EFF	W	Poly-1L	1		None	2				X								
LC-EFF	W	VOAs	2		HCl	3A, 3B					X							
LC-EFF	W	1L Amber	2		HCl	4A, 4B					X							
LC-EFF	W	Poly-500 ml	1		H2SO4	5						X						
LC-EFF	W	Poly-500 ml	1		None	6							X					
LC-EFF	W	Poly-500 ml	2		None	7A, 7B								X				
LC-EFF	W	Poly-500 ml	1	8-10-06 09:50	H2SO4	8										X		
LC-EFF	W	Poly-1L	1		None	9												
Relinquished By			8-10-06	Date/Time: 1550	Received By													
Relinquished By				Date/Time: 8-10-06 1950	Received By													
Relinquished By				Date/Time: 8-10-06 1950	Received By													

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

Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) Intact X On Ice: 3

HE 8-10-06
2220

8/10/06 1950

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/10/06
Received: 08/10/06
Issued: 08/23/06 17:42

NELAP #01108CA California ELAP#1197 CSDLAC #10117

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

IPH1136-01

CLIENT ID

V-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1136

Sampled: 08/10/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1136-01 (V-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6H19052	0.015	0.040	0.77	1	08/19/06	08/20/06	
Sample ID: IPH1136-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6H16063	0.050	2.0	0.47	1	08/16/06	08/20/06	J
Arsenic	EPA 200.7	6H19052	4.4	5.0	ND	1	08/19/06	08/20/06	
Beryllium	EPA 200.7	6H19052	0.90	2.0	ND	1	08/19/06	08/20/06	
Cadmium	EPA 200.8	6H16063	0.025	1.0	ND	1	08/16/06	08/20/06	
Chromium	EPA 200.7	6H19052	2.0	5.0	ND	1	08/19/06	08/20/06	
Copper	EPA 200.8	6H16063	0.25	2.0	2.3	1	08/16/06	08/20/06	
Lead	EPA 200.8	6H16063	0.040	1.0	0.84	1	08/16/06	08/20/06	J
Manganese	EPA 200.7	6H19052	7.0	20	81	1	08/19/06	08/20/06	
Mercury	EPA 245.1	6H15096	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7	6H19052	2.0	10	3.4	1	08/19/06	08/20/06	J
Selenium	EPA 200.8	6H16063	0.30	2.0	ND	1	08/16/06	08/20/06	
Silver	EPA 200.8	6H16063	0.025	1.0	0.039	1	08/16/06	08/20/06	J
Thallium	EPA 200.8	6H16063	0.15	1.0	ND	1	08/16/06	08/20/06	
Zinc	EPA 200.7	6H19052	15	20	ND	1	08/19/06	08/20/06	

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1136

Sampled: 08/10/06
 Received: 08/10/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1136-01 (V-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6H11138	0.015	0.040	ND	1	08/11/06	08/18/06	
Sample ID: IPH1136-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6H17100	0.050	2.0	0.53	1	08/17/06	08/17/06	J
Arsenic	EPA 200.7-Diss	6H11138	4.4	5.0	ND	1	08/11/06	08/18/06	
Beryllium	EPA 200.7-Diss	6H11138	0.90	2.0	ND	1	08/11/06	08/18/06	
Cadmium	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/21/06	
Chromium	EPA 200.7-Diss	6H11138	2.0	5.0	ND	1	08/11/06	08/18/06	
Copper	EPA 200.8-Diss	6H17100	0.25	2.0	0.88	1	08/17/06	08/17/06	J
Lead	EPA 200.8-Diss	6H17100	0.040	1.0	ND	1	08/17/06	08/17/06	
Manganese	EPA 200.7-Diss	6H17114	7.0	20	ND	1	08/17/06	08/18/06	
Mercury	EPA 245.1-Diss	6H15097	0.15	0.20	ND	1	08/15/06	08/15/06	
Nickel	EPA 200.7-Diss	6H11138	2.0	10	ND	1	08/11/06	08/18/06	
Selenium	EPA 200.8-Diss	6H17100	0.30	2.0	0.41	1	08/17/06	08/17/06	J
Silver	EPA 200.8-Diss	6H17100	0.025	1.0	ND	1	08/17/06	08/17/06	
Thallium	EPA 200.8-Diss	6H17100	0.15	1.0	ND	1	08/17/06	08/17/06	
Zinc	EPA 200.7-Diss	6H11138	15	20	ND	1	08/11/06	08/18/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1136-01 (V-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6H17080	N/A	NA	0.98	1	08/17/06	08/17/06	
Sample ID: IPH1136-01 (V-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H17102	10	10	15	1	08/17/06	08/17/06	
Total Kjeldahl Nitrogen	EPA 351.3	6H18109	0.43	0.50	1.7	1	08/18/06	08/18/06	
Alkalinity as CaCO3	EPA 310.1	6H18115	2.0	2.0	180	1	08/18/06	08/18/06	
Ammonia-N (Distilled)	EPA 350.2	6H15162	0.30	0.50	0.84	1	08/15/06	08/15/06	
Hardness (as CaCO3)	SM2340B	6H19052	1.0	1.0	220	1	08/19/06	08/20/06	
Nitrate-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Nitrate/Nitrite-N	EPA 300.0	6H10158	0.080	0.15	ND	1	08/10/06	08/11/06	
Oil & Grease	EPA 413.1	6H11068	0.94	5.0	ND	1	08/11/06	08/11/06	
Sulfate	EPA 300.0	6H10158	4.5	5.0	90	10	08/10/06	08/11/06	
Total Dissolved Solids	SM2540C	6H17087	10	10	360	1	08/17/06	08/17/06	
Total Organic Carbon	EPA 415.1	6H18119	0.50	1.0	11	1	08/18/06	08/18/06	
Total Suspended Solids	EPA 160.2	6H15148	10	10	15	1	08/15/06	08/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1136-01 (V-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6H11120	0.040	1.0	16	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1136-01 (V-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6H11095	N/A	NA	8.17	1	08/11/06	08/11/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1136-01 (V-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6H17092	1.0	1.0	610	1	08/17/06	08/17/06	

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Sampled: 08/10/06
Received: 08/10/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: V-EFF (IPH1136-01) - Water					
EPA 150.1	1	08/10/2006 09:30	08/10/2006 19:50	08/11/2006 11:00	08/11/2006 11:40
EPA 180.1	2	08/10/2006 09:30	08/10/2006 19:50	08/11/2006 14:45	08/11/2006 16:00
EPA 300.0	2	08/10/2006 09:30	08/10/2006 19:50	08/10/2006 22:00	08/11/2006 06:02

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Sampled: 08/10/06
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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15096 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15096-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 08/15/2006 (6H15096-BS1)											
Mercury	7.97	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 08/15/2006 (6H15096-MS1)											
						Source: IPH1308-20					
Mercury	8.10	0.20	0.15	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15096-MSD1)											
						Source: IPH1308-20					
Mercury	7.99	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	
Batch: 6H16063 Extracted: 08/16/06											
Blank Analyzed: 08/17/2006 (6H16063-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.667	2.0	0.25	ug/l							J
Lead	0.0840	1.0	0.040	ug/l							J
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 08/17/2006 (6H16063-BS1)											
Antimony	75.3	2.0	0.050	ug/l	80.0		94	85-115			
Cadmium	75.4	1.0	0.025	ug/l	80.0		94	85-115			
Copper	77.3	2.0	0.25	ug/l	80.0		97	85-115			
Lead	75.4	1.0	0.040	ug/l	80.0		94	85-115			
Selenium	73.4	2.0	0.30	ug/l	80.0		92	85-115			
Silver	77.2	1.0	0.025	ug/l	80.0		96	85-115			
Thallium	70.6	1.0	0.15	ug/l	80.0		88	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H16063 Extracted: 08/16/06											
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS1)						Source: IPH1117-01					
Antimony	73.0	4.0	0.10	ug/l	80.0	0.31	91	70-130			
Cadmium	70.0	2.0	0.050	ug/l	80.0	0.094	87	70-130			
Copper	72.7	4.0	0.50	ug/l	80.0	4.0	86	70-130			
Lead	68.5	2.0	0.080	ug/l	80.0	0.28	85	70-130			
Selenium	84.8	4.0	0.60	ug/l	80.0	14	88	70-130			
Silver	69.2	2.0	0.050	ug/l	80.0	ND	86	70-130			
Thallium	58.7	2.0	0.30	ug/l	80.0	ND	73	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H16063-MS2)						Source: IPH1319-03					
Antimony	68.2	2.0	0.050	ug/l	80.0	1.4	84	70-130			
Cadmium	61.3	1.0	0.025	ug/l	80.0	0.031	77	70-130			
Copper	195	2.0	0.25	ug/l	80.0	140	69	70-130			M2
Lead	67.2	1.0	0.040	ug/l	80.0	0.72	83	70-130			
Selenium	68.0	2.0	0.30	ug/l	80.0	2.4	82	70-130			
Silver	66.4	1.0	0.025	ug/l	80.0	ND	83	70-130			
Thallium	59.4	1.0	0.15	ug/l	80.0	ND	74	70-130			
Matrix Spike Dup Analyzed: 08/20/2006 (6H16063-MSD1)						Source: IPH1117-01					
Antimony	74.6	4.0	0.10	ug/l	80.0	0.31	93	70-130	2	20	
Cadmium	72.0	2.0	0.050	ug/l	80.0	0.094	90	70-130	3	20	
Copper	74.1	4.0	0.50	ug/l	80.0	4.0	88	70-130	2	20	
Lead	71.5	2.0	0.080	ug/l	80.0	0.28	89	70-130	4	20	
Selenium	87.7	4.0	0.60	ug/l	80.0	14	92	70-130	3	20	
Silver	70.5	2.0	0.050	ug/l	80.0	ND	88	70-130	2	20	
Thallium	61.6	2.0	0.30	ug/l	80.0	ND	77	70-130	5	20	

Batch: 6H19052 Extracted: 08/19/06

Blank Analyzed: 08/20/2006 (6H19052-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	0.040	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0070	mg/l							
Manganese	ND	20	7.0	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/20/2006 (6H19052-BS1)											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Beryllium	494	2.0	0.90	ug/l	500		99	85-115			
Chromium	476	5.0	2.0	ug/l	500		95	85-115			
Iron	0.496	0.040	0.015	mg/l	0.500		99	85-115			
Manganese	468	20	7.0	ug/l	500		94	85-115			
Nickel	492	10	2.0	ug/l	500		98	85-115			
Zinc	459	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS1)											
						Source: IPH1125-01					
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.505	0.040	0.015	mg/l	0.500	0.022	97	70-130			
Manganese	465	20	7.0	ug/l	500	ND	93	70-130			
Nickel	483	10	2.0	ug/l	500	ND	97	70-130			
Zinc	463	20	15	ug/l	500	ND	93	70-130			
Matrix Spike Analyzed: 08/20/2006 (6H19052-MS2)											
						Source: IPH1129-01					
Arsenic	496	5.0	4.4	ug/l	500	ND	99	70-130			
Beryllium	499	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	0.525	0.040	0.015	mg/l	0.500	ND	105	70-130			
Manganese	510	20	7.0	ug/l	500	28	96	70-130			
Nickel	491	10	2.0	ug/l	500	ND	98	70-130			
Zinc	476	20	15	ug/l	500	ND	95	70-130			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H19052 Extracted: 08/19/06											
Matrix Spike Dup Analyzed: 08/20/2006 (6H19052-MSD1)						Source: IPH1125-01					
Arsenic	476	5.0	4.4	ug/l	500	ND	95	70-130	2	20	
Beryllium	492	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Chromium	469	5.0	2.0	ug/l	500	ND	94	70-130	0	20	
Iron	0.512	0.040	0.015	mg/l	0.500	0.022	98	70-130	1	20	
Manganese	466	20	7.0	ug/l	500	ND	93	70-130	0	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	1	20	
Zinc	455	20	15	ug/l	500	ND	91	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Blank Analyzed: 08/18/2006 (6H11138-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 08/18/2006 (6H11138-BS1)											
Arsenic	952	5.0	4.4	ug/l	1000		95	85-115			
Beryllium	954	2.0	0.90	ug/l	1000		95	85-115			
Chromium	952	5.0	2.0	ug/l	1000		95	85-115			
Iron	1.01	0.040	0.015	mg/l	1.00		101	85-115			
Nickel	958	10	2.0	ug/l	1000		96	85-115			
Zinc	923	20	15	ug/l	1000		92	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	0.92	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	1.09	0.040	0.015	mg/l	1.00	ND	109	70-130			
Nickel	1020	10	2.0	ug/l	1000	3.2	102	70-130			
Zinc	995	20	15	ug/l	1000	ND	100	70-130			
Matrix Spike Analyzed: 08/18/2006 (6H11138-MS2)						Source: IPH1126-01					
Arsenic	981	5.0	4.4	ug/l	1000	ND	98	70-130			
Beryllium	976	2.0	0.90	ug/l	1000	1.3	97	70-130			
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	1.03	0.040	0.015	mg/l	1.00	ND	103	70-130			
Nickel	964	10	2.0	ug/l	1000	2.9	96	70-130			
Zinc	943	20	15	ug/l	1000	ND	94	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11138 Extracted: 08/11/06											
Matrix Spike Dup Analyzed: 08/18/2006 (6H11138-MSD1)						Source: IPH1125-01					
Arsenic	1010	5.0	4.4	ug/l	1000	ND	101	70-130	0	20	
Beryllium	998	2.0	0.90	ug/l	1000	0.92	100	70-130	1	20	
Chromium	986	5.0	2.0	ug/l	1000	ND	99	70-130	0	20	
Iron	1.05	0.040	0.015	mg/l	1.00	ND	105	70-130	4	20	
Nickel	999	10	2.0	ug/l	1000	3.2	100	70-130	2	20	
Zinc	989	20	15	ug/l	1000	ND	99	70-130	1	20	

Batch: 6H15097 Extracted: 08/15/06

Blank Analyzed: 08/15/2006 (6H15097-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 08/15/2006 (6H15097-BS1)

Mercury	7.93	0.20	0.15	ug/l	8.00		99	85-115			
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Matrix Spike Analyzed: 08/15/2006 (6H15097-MS1)

Mercury	7.82	0.20	0.15	ug/l	8.00	ND	98	70-130			
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Matrix Spike Dup Analyzed: 08/15/2006 (6H15097-MSD1)

Mercury	7.87	0.20	0.15	ug/l	8.00	ND	98	70-130	1	20	
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Batch: 6H17100 Extracted: 08/17/06

Blank Analyzed: 08/17/2006 (6H17100-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.0355	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

J

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH1136

Sampled: 08/10/06
 Received: 08/10/06

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: 6H17100 Extracted: 08/17/06											
LCS Analyzed: 08/17/2006 (6H17100-BS1)											
Antimony	77.3	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	77.4	1.0	0.040	ug/l	80.0		97	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	78.7	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS1) Source: IPH1134-01											
Antimony	79.3	2.0	0.050	ug/l	80.0	0.61	98	70-130			
Cadmium	76.4	1.0	0.025	ug/l	80.0	0.046	95	70-130			
Copper	78.3	2.0	0.25	ug/l	80.0	0.99	97	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.044	94	70-130			
Selenium	75.5	2.0	0.30	ug/l	80.0	0.41	94	70-130			
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130			
Thallium	77.8	1.0	0.15	ug/l	80.0	0.15	97	70-130			
Matrix Spike Analyzed: 08/17/2006 (6H17100-MS2) Source: IPH1133-01											
Antimony	77.0	2.0	0.050	ug/l	80.0	0.54	96	70-130			
Cadmium	73.7	1.0	0.025	ug/l	80.0	0.038	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.91	94	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.046	92	70-130			
Selenium	72.7	2.0	0.30	ug/l	80.0	ND	91	70-130			
Silver	73.6	1.0	0.025	ug/l	80.0	0.030	92	70-130			
Thallium	76.2	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 08/17/2006 (6H17100-MSD1) Source: IPH1134-01											
Antimony	79.6	2.0	0.050	ug/l	80.0	0.61	99	70-130	0	20	
Cadmium	75.7	1.0	0.025	ug/l	80.0	0.046	95	70-130	1	20	
Copper	79.2	2.0	0.25	ug/l	80.0	0.99	98	70-130	1	20	
Lead	76.1	1.0	0.040	ug/l	80.0	0.044	95	70-130	1	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.41	95	70-130	1	20	
Silver	76.1	1.0	0.025	ug/l	80.0	0.034	95	70-130	0	20	
Thallium	77.6	1.0	0.15	ug/l	80.0	0.15	97	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17114 Extracted: 08/17/06											
Blank Analyzed: 08/18/2006 (6H17114-BLK1)											
Manganese	ND	20	7.0	ug/l							
LCS Analyzed: 08/18/2006 (6H17114-BS1)											
Manganese	993	20	7.0	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 08/18/2006 (6H17114-MS1)											
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 08/18/2006 (6H17114-MSD1)											
Manganese	965	20	7.0	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H10158 Extracted: 08/10/06											
Blank Analyzed: 08/10/2006 (6H10158-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/10/2006 (6H10158-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.90	0.50	0.45	mg/l	10.0		99	90-110			M-3
Matrix Spike Analyzed: 08/10/2006 (6H10158-MS1) Source: IPH1127-01											
Nitrate-N	1.18	0.15	0.080	mg/l	1.13	ND	104	80-120			
Nitrite-N	1.69	0.15	0.080	mg/l	1.52	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/10/2006 (6H10158-MSD1) Source: IPH1127-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	ND	105	80-120	1	20	
Nitrite-N	1.67	0.15	0.080	mg/l	1.52	ND	110	80-120	1	20	
Batch: 6H11068 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11068-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 08/11/2006 (6H11068-BS1) M-NR1											
Oil & Grease	19.1	5.0	0.94	mg/l	20.0		96	65-120			
LCS Dup Analyzed: 08/11/2006 (6H11068-BSD1)											
Oil & Grease	18.9	5.0	0.94	mg/l	20.0		94	65-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H11095 Extracted: 08/11/06											
Duplicate Analyzed: 08/11/2006 (6H11095-DUP1)											
pH	8.02	NA	0.00	pH Units		8.00			0	5	
Duplicate Analyzed: 08/11/2006 (6H11095-DUP2)											
pH	8.20	NA	0.00	pH Units		8.17			0	5	
Batch: 6H11120 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H11120-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 08/11/2006 (6H11120-DUP1)											
Turbidity	2.00	1.0	0.040	NTU		1.9			5	20	
Duplicate Analyzed: 08/11/2006 (6H11120-DUP2)											
Turbidity	16.4	1.0	0.040	NTU		16			2	20	
Batch: 6H15148 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/15/2006 (6H15148-BS1)											
Total Suspended Solids	922	10	10	mg/l	1000		92	85-115			
Duplicate Analyzed: 08/15/2006 (6H15148-DUP1)											
Total Suspended Solids	2370	10	10	mg/l		2300			3	10	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H15162 Extracted: 08/15/06											
Blank Analyzed: 08/15/2006 (6H15162-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 08/15/2006 (6H15162-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 08/15/2006 (6H15162-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 08/15/2006 (6H15162-MSD1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.84	101	70-120	3	15	
Batch: 6H17080 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17080-DUP1)											
Density	1.01	NA	N/A	g/cc		1.0			1	20	
Batch: 6H17087 Extracted: 08/17/06											
Blank Analyzed: 08/17/2006 (6H17087-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 08/17/2006 (6H17087-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 08/17/2006 (6H17087-DUP1)											
Total Dissolved Solids	208	10	10	mg/l		210			1	10	

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 Report Number: IPH1136

Sampled: 08/10/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17092 Extracted: 08/17/06											
Duplicate Analyzed: 08/17/2006 (6H17092-DUP1)						Source: IPH1126-01					
Specific Conductance	636	1.0	1.0	umhos/cm		630			1	5	
Batch: 6H18109 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18109-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 08/18/2006 (6H18109-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 08/18/2006 (6H18109-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 08/18/2006 (6H18109-MS1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	1.1	98	85-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18109-MSD1)						Source: IPH1127-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120	3	15	
Batch: 6H18115 Extracted: 08/18/06											
Duplicate Analyzed: 08/18/2006 (6H18115-DUP1)						Source: IPH1066-06					
Alkalinity as CaCO3	320	2.0	2.0	mg/l		320			0	20	
Reference Analyzed: 08/18/2006 (6H18115-SRM1)											
Alkalinity as CaCO3	228	2.0	2.0	mg/l	231		99	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H18119 Extracted: 08/18/06											
Blank Analyzed: 08/18/2006 (6H18119-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 08/18/2006 (6H18119-BS1)											
Total Organic Carbon	10.4	1.0	0.25	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 08/18/2006 (6H18119-MS1)											
						Source: IPH1110-02					
Total Organic Carbon	12.4	1.0	0.25	mg/l	5.00	7.0	108	80-120			
Matrix Spike Dup Analyzed: 08/18/2006 (6H18119-MSD1)											
						Source: IPH1110-02					
Total Organic Carbon	12.6	1.0	0.25	mg/l	5.00	7.0	112	80-120	2	20	
Batch: 6H19052 Extracted: 08/19/06											
Blank Analyzed: 08/20/2006 (6H19052-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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R-2A Pond Pilot Test
Report Number: IPH1136

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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.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** 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, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 R-2A Pond Pilot Test
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

1941136

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project: **Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Bronwyn Kelly**

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

Sampler: *S. Anderson*

Sample Description	Sample Matrix	Container Type	# of Cont.	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon Oil & Grease (EPA 413.1)	Total Kjeldhal Nitrogen SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn	Field readings: Temp = 78.6 pH = 7.35	Comments
V-EFF	W	Poly-1L	1	HNO3	1	X	X							
V-EFF	W	Poly-1L	1	None	2									
V-EFF	W	VOAs	2	HCl	3A, 3B									
V-EFF	W	1L Amber	2	HCl	4A, 4B									
V-EFF	W	Poly-500 ml	1	H2SO4	5			X						
V-EFF	W	Poly-500 ml	1	None	6				X					
V-EFF	W	Poly-500 ml	2	None	7A, 7B					X				
V-EFF	W	Poly-500 ml	1	H2SO4	8						X			
V-EFF	W	Poly-1L	1	None	9							X		

Relinquished By: *[Signature]* Date/Time: 8-10-06 1550
 Received By: *[Signature]* Date/Time: 8-10-06 1550

Relinquished By: *[Signature]* Date/Time: 8-10-06 1950
 Received By: *[Signature]* Date/Time: 8-10-06 1950

Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

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

Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) _____
 Intact On Ice: 3

Eduard Pi 8/10/06 1950
 HE 8-10-06
 2220