

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

Project ID: Routine Outfall 006

Report Number: IRL1709

Sampled: 12/15/08

Received: 12/15/08

MCAWW 245.1

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1709-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
Mercury	MCAWW 245.1	8353495	0.027	0.2	ND	1	12/18/08	12/18/08	

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Trupti Mistry For Joseph Doak
Project Manager

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MCAWW 245.1-Diss

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1709-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
Mercury-diss	MCAWW 245.1-Diss	8353517	0.027	0.2	ND	1	12/18/08	12/18/08	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 006 (IRL1709-01) - Water EPA 300.0	2	12/15/2008 09:35	12/15/2008 18:15	12/16/2008 13:00	12/16/2008 14:06

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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: 8L16092 Extracted: 12/16/08											
Blank Analyzed: 12/17/2008 (8L16092-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 12/17/2008 (8L16092-BS1)											
Antimony	83.1	2.0	0.20	ug/l	80.0		104	85-115			
Cadmium	81.2	1.0	0.11	ug/l	80.0		101	85-115			
Copper	78.8	2.0	0.75	ug/l	80.0		99	85-115			
Lead	79.1	1.0	0.30	ug/l	80.0		99	85-115			
Thallium	81.4	1.0	0.20	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 12/17/2008 (8L16092-MS1) Source: IRL1721-01											
Antimony	82.4	2.0	0.20	ug/l	80.0	2.39	100	70-130			
Cadmium	79.8	1.0	0.11	ug/l	80.0	2.50	97	70-130			
Copper	81.9	2.0	0.75	ug/l	80.0	4.87	96	70-130			
Lead	81.9	1.0	0.30	ug/l	80.0	2.16	100	70-130			
Thallium	85.6	1.0	0.20	ug/l	80.0	ND	107	70-130			
Matrix Spike Analyzed: 12/17/2008 (8L16092-MS2) Source: IRL1706-01											
Antimony	84.1	2.0	0.20	ug/l	80.0	0.415	105	70-130			
Cadmium	81.1	1.0	0.11	ug/l	80.0	ND	101	70-130			
Copper	78.8	2.0	0.75	ug/l	80.0	0.930	97	70-130			
Lead	82.0	1.0	0.30	ug/l	80.0	ND	102	70-130			
Thallium	84.1	1.0	0.20	ug/l	80.0	ND	105	70-130			
Matrix Spike Dup Analyzed: 12/17/2008 (8L16092-MSD1) Source: IRL1721-01											
Antimony	86.2	2.0	0.20	ug/l	80.0	2.39	105	70-130	5	20	
Cadmium	82.8	1.0	0.11	ug/l	80.0	2.50	100	70-130	4	20	
Copper	84.2	2.0	0.75	ug/l	80.0	4.87	99	70-130	3	20	
Lead	86.4	1.0	0.30	ug/l	80.0	2.16	105	70-130	5	20	
Thallium	90.1	1.0	0.20	ug/l	80.0	ND	113	70-130	5	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: 8L17121 Extracted: 12/17/08											
Blank Analyzed: 12/18/2008 (8L17121-BLK1)											
Antimony	0.481	2.0	0.20	ug/l							J
Cadmium	ND	1.0	0.11	ug/l							J
Copper	1.97	2.0	0.75	ug/l							J
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 12/18/2008 (8L17121-BS1)											
Antimony	82.2	2.0	0.20	ug/l	80.0		103	85-115			
Cadmium	81.0	1.0	0.11	ug/l	80.0		101	85-115			
Copper	81.1	2.0	0.75	ug/l	80.0		101	85-115			
Lead	85.0	1.0	0.30	ug/l	80.0		106	85-115			
Thallium	89.6	1.0	0.20	ug/l	80.0		112	85-115			
Matrix Spike Analyzed: 12/18/2008 (8L17121-MS1) Source: IRL1362-01											
Antimony	79.1	2.0	0.20	ug/l	80.0	0.572	98	70-130			
Cadmium	74.4	1.0	0.11	ug/l	80.0	ND	93	70-130			
Copper	72.4	2.0	0.75	ug/l	80.0	1.31	89	70-130			
Lead	75.0	1.0	0.30	ug/l	80.0	ND	94	70-130			
Thallium	79.7	1.0	0.20	ug/l	80.0	ND	100	70-130			
Matrix Spike Dup Analyzed: 12/18/2008 (8L17121-MSD1) Source: IRL1362-01											
Antimony	88.0	2.0	0.20	ug/l	80.0	0.572	109	70-130	11	20	
Cadmium	82.4	1.0	0.11	ug/l	80.0	ND	103	70-130	10	20	
Copper	79.1	2.0	0.75	ug/l	80.0	1.31	97	70-130	9	20	
Lead	81.5	1.0	0.30	ug/l	80.0	ND	102	70-130	8	20	
Thallium	88.2	1.0	0.20	ug/l	80.0	ND	110	70-130	10	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: 8L15075 Extracted: 12/15/08											
Blank Analyzed: 12/15/2008 (8L15075-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 12/15/2008 (8L15075-BS1)											
Chloride	4.94	0.50	0.25	mg/l	5.00		99	90-110			
Sulfate	10.1	0.50	0.20	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 12/15/2008 (8L15075-MS1)											
						Source: IRL1621-01					
Chloride	116	20	10	mg/l	50.0	71.2	89	80-120			
Sulfate	845	20	8.0	mg/l	100	757	88	80-120			MHA
Matrix Spike Analyzed: 12/15/2008 (8L15075-MS2)											
						Source: IRL1706-01					
Chloride	5.40	0.50	0.25	mg/l	5.00	0.625	95	80-120			
Sulfate	14.0	0.50	0.20	mg/l	10.0	4.57	95	80-120			
Matrix Spike Dup Analyzed: 12/15/2008 (8L15075-MSD1)											
						Source: IRL1621-01					
Chloride	111	20	10	mg/l	50.0	71.2	80	80-120	4	20	
Sulfate	834	20	8.0	mg/l	100	757	77	80-120	1	20	MHA
Batch: 8L16052 Extracted: 12/16/08											
Blank Analyzed: 12/16/2008 (8L16052-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 12/16/2008 (8L16052-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8L16052 Extracted: 12/16/08											
Duplicate Analyzed: 12/16/2008 (8L16052-DUP1)						Source: IRL1707-01					
Total Dissolved Solids	569	10	10	mg/l		577			1	10	
Batch: 8L16086 Extracted: 12/16/08											
Blank Analyzed: 12/16/2008 (8L16086-BLK1)											
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Batch: 8L19123 Extracted: 12/19/08											
Blank Analyzed: 12/19/2008 (8L19123-BLK1)											
Hexane Extractable Material (Oil & Grease)	3.50	5.0	1.4	mg/l							J
LCS Analyzed: 12/19/2008 (8L19123-BS1)											
Hexane Extractable Material (Oil & Grease)	21.4	5.0	1.4	mg/l	20.2		106	78-114			MNR1
LCS Dup Analyzed: 12/19/2008 (8L19123-BSD1)											
Hexane Extractable Material (Oil & Grease)	21.9	5.0	1.4	mg/l	20.2		108	78-114	2	11	

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METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 1770 Extracted: 12/17/08											
Blank Analyzed: 12/18/2008 (MB001)						Source:					
2,3,7,8-TCDD	ND	0.0000500	0.0000095	ug/L				50-150		25	
1,2,3,7,8-PeCDD	ND	0.0000250	0.0000025	ug/L				50-150		25	
1,2,3,4,7,8-HxCDD	ND	0.0000250	0.00000182	ug/L				50-150		25	
1,2,3,6,7,8-HxCDD	ND	0.0000250	0.00000171	ug/L				50-150		25	
1,2,3,7,8,9-HxCDD	ND	0.0000250	0.00000164	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDD	ND	0.0000250	0.00000279	ug/L				50-150		25	
OCDD	ND	0.0000500	0.0000043	ug/L				50-150		25	
2,3,7,8-TCDF	ND	0.0000500	0.00000887	ug/L				50-150		25	
1,2,3,7,8-PeCDF	ND	0.0000250	0.00000118	ug/L				50-150		25	
2,3,4,7,8-PeCDF	ND	0.0000250	0.00000107	ug/L				50-150		25	
1,2,3,4,7,8-HxCDF	ND	0.0000250	0.00000051	ug/L				50-150		25	
1,2,3,6,7,8-HxCDF	ND	0.0000250	0.00000059	ug/L				50-150		25	
2,3,4,6,7,8-HxCDF	ND	0.0000250	0.00000069	ug/L				50-150		25	
1,2,3,7,8,9-HxCDF	ND	0.0000250	0.00000105	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDF	ND	0.0000250	0.00000153	ug/L				50-150		25	
1,2,3,4,7,8,9-HpCDF	ND	0.0000250	0.00000182	ug/L				50-150		25	
OCDF	ND	0.0000500	0.00000159	ug/L				50-150		25	
Total TCDD	ND	0.00000500	0.00000958	ug/L				50-150		25	
Total PeCDD	ND	0.0000250	0.0000025	ug/L				50-150		25	
Total HxCDD	ND	0.0000250	0.00000164	ug/L				50-150		25	
Total HpCDD	ND	0.0000250	0.00000279	ug/L				50-150		25	
Total TCDF	ND	0.00000500	0.00000887	ug/L				50-150		25	
Total PeCDF	ND	0.0000250	0.00000107	ug/L				50-150		25	
Total HxCDF	ND	0.0000250	0.000000512	ug/L				50-150		25	
Total HpCDF	ND	0.0000250	0.00000153	ug/L				50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	0.00188			ug/L	2000		94	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00202			ug/L	2000		101	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00169			ug/L	2000		84	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00191			ug/L	2000		96	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00179			ug/L	2000		90	50-150			
Surrogate: 13C-OCDD	0.00297			ug/L	4000		74	50-150			
Surrogate: 13C-2,3,7,8-TCDF	0.00186			ug/L	2000		93	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00180			ug/L	2000		90	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00194			ug/L	2000		97	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00182			ug/L	2000		91	50-150			

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METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 1770 Extracted: 12/17/08											
Blank Analyzed: 12/18/2008 (MB001)											
Source:											
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00172			ug/L	2000		86	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00174			ug/L	2000		87	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00180			ug/L	2000		90	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00160			ug/L	2000		80	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00166			ug/L	2000		83	50-150			
Surrogate: 13C-OCDF	0.00312			ug/L	4000		78	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	0.000760			ug/L	800		95	50-150			
LCS Analyzed: 12/18/2008 (OPR001)											
Source:											
2,3,7,8-TCDD	8.63	5.00	0.840	ug/L	10		86	50-150		25	
1,2,3,7,8-PeCDD	47.8	25.0	1.59	ug/L	50		96	50-150		25	
1,2,3,4,7,8-HxCDD	46.8	25.0	1.18	ug/L	50		94	50-150		25	
1,2,3,6,7,8-HxCDD	46.3	25.0	1.69	ug/L	50		93	50-150		25	
1,2,3,7,8,9-HxCDD	45.7	25.0	1.18	ug/L	50		91	50-150		25	
1,2,3,4,6,7,8-HpCDD	46.3	25.0	2.01	ug/L	50		93	50-150		25	
OCDD	95.6	50.0	2.45	ug/L	100		96	50-150		25	
2,3,7,8-TCDF	8.58	5.00	0.970	ug/L	10		86	50-150		25	
1,2,3,7,8-PeCDF	46.7	25.0	1.09	ug/L	50		93	50-150		25	
2,3,4,7,8-PeCDF	48.7	25.0	1.48	ug/L	50		97	50-150		25	
1,2,3,4,7,8-HxCDF	45.2	25.0	1.06	ug/L	50		90	50-150		25	
1,2,3,6,7,8-HxCDF	47.5	25.0	0.730	ug/L	50		95	50-150		25	
2,3,4,6,7,8-HxCDF	45.7	25.0	1.26	ug/L	50		91	50-150		25	
1,2,3,7,8,9-HxCDF	46.6	25.0	0.940	ug/L	50		93	50-150		25	
1,2,3,4,6,7,8-HpCDF	45.0	25.0	1.70	ug/L	50		90	50-150		25	
1,2,3,4,7,8,9-HpCDF	44.9	25.0	0.960	ug/L	50		90	50-150		25	
OCDF	89.5	50.0	3.66	ug/L	100		90	50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	89.2			ug/L	100		89	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	96.7			ug/L	100		97	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	77.1			ug/L	100		77	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	91.1			ug/L	100		91	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	84.0			ug/L	100		84	50-150			
Surrogate: 13C-OCDD	136			ug/L	200		68	50-150			
Surrogate: 13C-2,3,7,8-TCDF	88.6			ug/L	100		89	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	88.4			ug/L	100		88	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	91.1			ug/L	100		91	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	88.6			ug/L	100		89	50-150			

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METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1770 Extracted: 12/17/08											
LCS Analyzed: 12/18/2008 (OPR001)											
Surrogate: 13C-1,2,3,6,7,8-HxCDF	81.1			ug/L	100		81	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	81.0			ug/L	100		81	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	83.5			ug/L	100		84	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	74.7			ug/L	100		75	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	79.5			ug/L	100		80	50-150			
Surrogate: 13C-OCDF	146			ug/L	200		73	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	33.6			ug/L	40		84	50-150			

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MCAWW 245.1

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8353495 Extracted: 12/18/08											
Matrix Spike Dup Analyzed: 12/18/2008 (D8L170200001D)						Source: D8L170200001					
Mercury	4.64	0.2	0.027	ug/L	5	ND	93	90-110	9	10	
Matrix Spike Analyzed: 12/18/2008 (D8L170200001S)						Source: D8L170200001					
Mercury	4.24	0.2	0.027	ug/L	5	ND	85	90-110	9	10	N
Blank Analyzed: 12/18/2008 (D8L180000495B)						Source:					
Mercury	ND	0.2	0.027	ug/L				-			
LCS Analyzed: 12/18/2008 (D8L180000495C)						Source:					
Mercury	4.59	0.2	0.027	ug/L	5		92	90-110			

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Trupti Mistry For Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 006

Report Number: IRL1709

Sampled: 12/15/08

Received: 12/15/08

METHOD BLANK/QC DATA

MCAWW 245.1-Diss

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8353517 Extracted: 12/18/08											
Matrix Spike Dup Analyzed: 12/18/2008 (D8L170200001D)						Source: D8L170200001					
Mercury-diss	4.37	0.2	0.027	ug/L	5	ND	87	90-110	9	10	N
Matrix Spike Analyzed: 12/18/2008 (D8L170200001S)						Source: D8L170200001					
Mercury-diss	4.8	0.2	0.027	ug/L	5	ND	96	90-110	9	10	
Blank Analyzed: 12/18/2008 (D8L180000517B)						Source:					
Mercury-diss	ND	0.2	0.027	ug/L				-			
LCS Analyzed: 12/18/2008 (D8L180000517C)						Source:					
Mercury-diss	4.63	0.2	0.027	ug/L	5		93	90-110			

TestAmerica Irvine

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Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
IRL1709-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	3.88	4.9	15
IRL1709-01	Antimony-200.8	Antimony	ug/l	0.39	2.0	6
IRL1709-01	Cadmium-200.8	Cadmium	ug/l	0.11	1.0	4
IRL1709-01	Chloride - 300.0	Chloride	mg/l	23	0.50	150
IRL1709-01	Copper-200.8	Copper	ug/l	1.95	2.0	14
IRL1709-01	Lead-200.8	Lead	ug/l	1.11	1.0	5.2
IRL1709-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	6.43	0.26	10
IRL1709-01	Sulfate-300.0	Sulfate	mg/l	18	0.50	250
IRL1709-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	165	10	850
IRL1709-01	Thallium-200.8	Thallium	ug/l	0.021	1.0	2

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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.
- Ja** The amount detected is below the Lower Calibration Limit of the instrument
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- N** Spike sample recovery is outside control limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Sampled: 12/15/08
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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 1664A	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
SM2540C	Water	X	

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

Subcontracted Laboratories

Alta Analytical Perspectives

2714 Exchange Drive - Wilmington, NC 28405

Method Performed: 1613-Dioxin-HR Alta
Samples: IRL1709-01

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chnric
Samples: IRL1709-01

TestAmerica Denver

4955 Yarrow Street - Arvada, CO 80002

Method Performed: MCAWW 245.1
Samples: IRL1709-01

Method Performed: MCAWW 245.1-Diss
Samples: IRL1709-01

TestAmerica Irvine

Trupti Mistry For Joseph Doak
Project Manager

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

Project ID: Routine Outfall 006

Report Number: IRL1709

Sampled: 12/15/08
Received: 12/15/08

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Analysis Performed: Gamma Spec
Samples: IRL1709-01

Analysis Performed: Gross Alpha
Samples: IRL1709-01

Analysis Performed: Gross Beta
Samples: IRL1709-01

Analysis Performed: Radium, Combined
Samples: IRL1709-01

Analysis Performed: Strontium 90
Samples: IRL1709-01

Analysis Performed: Tritium
Samples: IRL1709-01

Analysis Performed: Uranium, Combined
Samples: IRL1709-01

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta
Samples: IRL1709-01

TestAmerica Irvine

Trupti Mistry For Joseph Doak
Project Manager

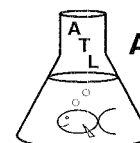
IRL1709

CHAIN OF CUSTODY FORM

Test America Version 12/20/07

Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak		Project: Boeing-SSFL NPDES Routine Outfall 006 Stormwater at FSDF-2		ANALYSIS REQUIRED Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl TCDD (and all congeners) Oil & Grease (1664-HEM) Cr, SO ₄ , NO ₃ +NO ₂ -N TDS Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1) Chronic Toxicity Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl								Field readings: Temp = 51.7°F pH = 6.48 Time of readings = 09:35	Comments
Project Manager: Bronwyn Kelly Sampler: MARISCAL	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515	Sampling Date/Time 12-15-08 09:35	Preservative HNO ₃ HNO ₃ None HCl None None None None None None	Bottle # 1A 1B 2A, 2B 3A, 3B 4A, 4B 5 6A 6B 7 8	Sample Matrix W W W W W W W W W W	Container Type 1L Poly 1L Poly 1L Amber 1L Amber 500 ml Poly 500 ml Poly 2.5 Gal Cube 500 ml Amber 1 Gal Poly 1L Poly	# of Cont. 1 1 2 2 2 1 1 1 1	Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl TCDD (and all congeners) Oil & Grease (1664-HEM) Cr, SO ₄ , NO ₃ +NO ₂ -N TDS Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1) Chronic Toxicity Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl	Unfiltered and unpreserved analysis Test first and second rain event of the season Filter w/in 24hrs of receipt at lab	Turn around Time: (check) 24 Hours 48 Hours 72 Hours Sample Integrity: (check) Intact Data Requirements: (check) No Level IV All Level IV NPDES Level IV			
Relinquished By: <i>[Signature]</i> Date/Time: 12/15/08 13:30	Received By: <i>[Signature]</i> Date/Time: 12/15/08 13:30	Relinquished By: <i>[Signature]</i> Date/Time: 12/15/08 18:15	Received By: <i>[Signature]</i> Date/Time: 12/15/08 18:15	<i>[Handwritten Signature]</i>									

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

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

Date: December 24, 2008

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

Laboratory No.: A-08121608
Sample I.D.: IRL1709-01 (Outfall 006)

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

Date Sampled: 12/15/08
Date Received: 12/16/08
Temp. Received: 0.5°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 12/16/08 to 12/23/08

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

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

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

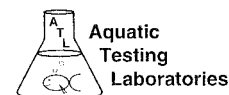
Result Summary:

	<u>NOEC</u>	<u>TUc</u>
<i>Ceriodaphnia</i> Survival:	100 %	1.0
<i>Ceriodaphnia</i> Reproduction:	100 %	1.0

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

**CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0**



Lab No.: A-08121608-001
Client/ID: Test America – Outfall 006

Date Tested: 12/16/08 to 12/23/08

TEST SUMMARY

Test type: Daily static-renewal.
Species: *Ceriodaphnia dubia*.
Age: < 24 hrs; all released within 8 hrs.
Test vessel size: 30 ml.
Number of test organisms per vessel: 1.
Temperature: 25 +/- 1°C.
Dilution water: Mod. hard reconstituted (MHRW).
QA/QC Batch No.: RT-081204.

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

RESULTS SUMMARY

Sample Concentration	Percent Survival	Mean Number of Young Per Female
Control	100%	23.1
100% Sample	100%	23.5

* Sample not statistically significantly less than Control.

CHRONIC TOXICITY

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

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% survival)
≥15 young per surviving control female	Pass (23.1 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD <47% for reproduction; if >47% and no toxicity at IWC, the test must be repeated	Pass (PMSD = 6.7%)
Statistically significantly different concentrations relative difference > 13%	Pass (no concentration significantly different)
Concentration response relationship acceptable	Pass (no significant response at concentration tested)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

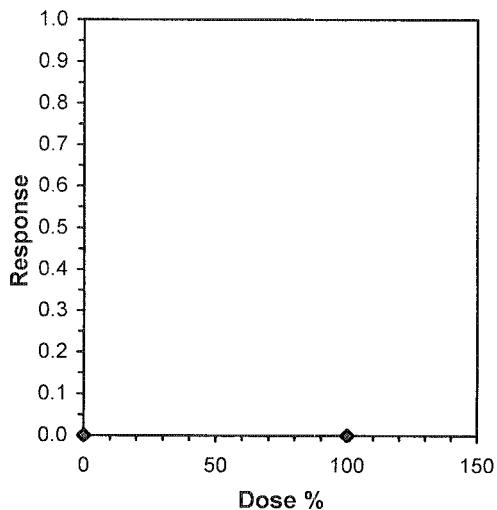
Start Date: 12/16/2008 14:00 Test ID: 8121608c Sample ID: IRL1709-01 Outfall 006
 End Date: 12/23/2008 15:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 12/15/2008 09:35 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia
 Comments:

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

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

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

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



Ceriodaphnia Survival and Reproduction Test-Reproduction

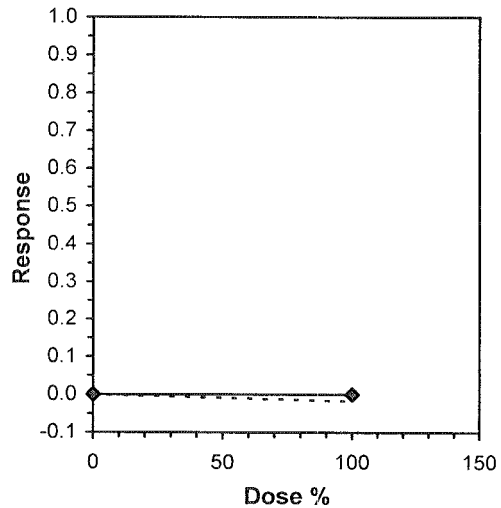
Start Date: 12/16/2008 14:00 Test ID: 8121608c Sample ID: IRL1709-01 Outfall 006
 End Date: 12/23/2008 15:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 12/15/2008 09:35 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia
 Comments:

Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	23.000	24.000	21.000	22.000	25.000	24.000	21.000	22.000	23.000	26.000
100	26.000	25.000	21.000	22.000	25.000	26.000	21.000	20.000	25.000	24.000

Conc-%	Mean	N-Mean	Transform: Untransformed					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
D-Control	23.100	1.0000	23.100	21.000	26.000	7.201	10				23.300	1.0000	
100	23.500	1.0173	23.500	20.000	26.000	9.672	10	-0.449	1.734	1.545	23.300	1.0000	

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.94521	0.905	-0.1965	-1.2192		
F-Test indicates equal variances (p = 0.37)	1.86747	6.54109				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences Treatments vs D-Control	1.54452	0.06686	0.8	3.96667	0.65873	1, 18

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



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
EPA METHOD 1002.0 Raw Data Sheet



Lab No.: A-08121608-001

Client ID: TestAmerica - IRL1709-01 Outfall 006

Start Date: 12/16/2008

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7		
	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	
Analyst Initials:	Ru	Ru	Ru	Ru	Ru	Ru	Ru	Ru	Ru	Jr	Jr	Jr	Ru	Ru	
Time of Readings:	1400	1400	1400	1400	1400	1400	1400	1300	1300	1400	1400	1400	1400	1400	
Control	DO	10.2	9.5	8.7	9.0	8.6	8.9	9.0	9.2	9.6	8.8	7.9	8.0	8.8	8.4
	pH	7.7	8.0	7.7	7.7	7.7	7.9	7.8	7.8	7.7	7.7	7.7	7.7	7.6	7.7
	Temp	25.9	24.2	25.2	24.6	25.5	24.2	25.0	24.0	24.8	24.2	24.4	24.1	25.2	24.7
100%	DO	10.5	9.2	10.7	9.7	11.8	7.7	9.4	9.2	10.6	8.9	8.6	8.0	8.6	8.5
	pH	5.6	7.2	6.0	7.3	6.2	7.4	6.8	7.2	6.3	7.2	6.7	7.5	7.0	7.4
	Temp	25.7	24.4	24.8	24.4	25.6	24.3	24.5	24.2	24.3	24.2	25.0	24.4	25.5	24.9

Additional Parameters	Control	100% Sample
Conductivity (umohms)	305	194
Alkalinity (mg/l CaCO ₃)	63	12
Hardness (mg/l CaCO ₃)	93	22
Ammonia (mg/l NH ₃ -N)	<0.1	0.4

Source of Neonates											
Replicate:	A	B	C	D	E	F	G	H	I	J	
Brood ID:	A2	B3	C1	D3	E2	F3	G1	H3	I2	J1	

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	Ru
	2	0	0	0	0	0	0	0	0	0	0	0	10	Ru
	3	0	4	4	4	4	0	0	4	0	0	20	10	Ru
	4	3	0	0	0	0	4	3	0	4	3	17	10	Ru
	5	0	8	7	6	7	0	8	8	7	0	43	10	Ru
	6	6	0	0	12	14	6	8	0	0	7	53	10	Ru
	7	14	12	10	0	15	14	10	10	12	16	98	10	Ru
	Total	23	24	21	22	25	24	21	22	23	26	231	10	Ru
100%	1	0	0	0	0	0	0	0	0	0	0	0	10	Ru
	2	0	0	0	0	0	0	0	0	0	0	0	10	Ru
	3	0	0	0	0	0	0	0	0	0	4	4	10	Ru
	4	3	4	3	2	3	4	4	3	3	0	29	10	Ru
	5	0	7	6	6	7	0	0	0	7	6	39	10	Ru
	6	6	14	12	0	15	6	7	7	0	14	81	10	Ru
	7	17	0	0	14	0	16	10	10	15	0	82	10	Ru
	Total	26	25	21	22	25	26	21	20	25	24	235	10	Ru

Circled fourth brood not used in statistical analysis.

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

SUBCONTRACT ORDER

TestAmerica Irvine

IRL1709

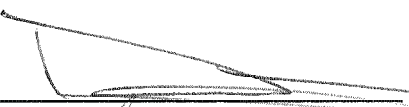
SENDING LABORATORY:



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

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756
Project Location: CA - CALIFORNIA
Receipt Temperature: 5 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRL1709-01	Water		Sampled: 12/15/08 09:35	
Bioassay-7 dy Chrnrc	N/A	12/22/08	12/16/08 21:35	Cerio, EPA/821-R02-013, Sub to Aquatic testing
<i>Containers Supplied:</i> 1 gal Poly (L)				


Released By _____ Date/Time _____
12/16/08 1140
Released By _____ Date/Time _____


Received By _____ Date/Time _____
12-16-08 1140

Received By _____ Date/Time _____

***REFERENCE
TOXICANT
DATA***

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-081204

Date Tested: 12/04/08 to 12/11/08

TEST SUMMARY

Test type: Daily static-renewal.

Species: *Ceriodaphnia dubia*.

Age: < 24 hrs; all released within 8 hrs.

Test vessel size: 30 ml.

Number of test organisms per vessel: 1.

Temperature: 25 +/- 1°C.

Dilution water: Mod. hard reconstituted (MHRW).

Reference Toxicant: Sodium chloride (NaCl).

Endpoints: Survival and Reproduction.

Source: In-laboratory culture.

Food: .1 ml YTC, algae per day.

Test solution volume: 20 ml.

Number of replicates: 10.

Photoperiod: 16/8 hrs. light/dark cycle.

Test duration: 7 days.

Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival		Mean Number of Young Per Female	
Control	100%		24.3	
0.25 g/l	100%		23.5	
0.5 g/l	100%		24.5	
1.0 g/l	100%		14.5	*
2.0 g/l	80%		4.3	*
4.0 g/l	0%	*	0	**

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

CHRONIC TOXICITY

Survival LC50	2.5 g/l
Reproduction IC25	0.80 g/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% Survival)
≥ 15 young per surviving control female	Pass (24.3 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD < 47% for reproduction	Pass (PMSD = 11.7%)
Stat. sig. diff. conc. relative difference > 13%	Pass (Stat. sig. diff. conc. relative difference = 40.3%)
Concentration response relationship acceptable	Pass (Response curve normal)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

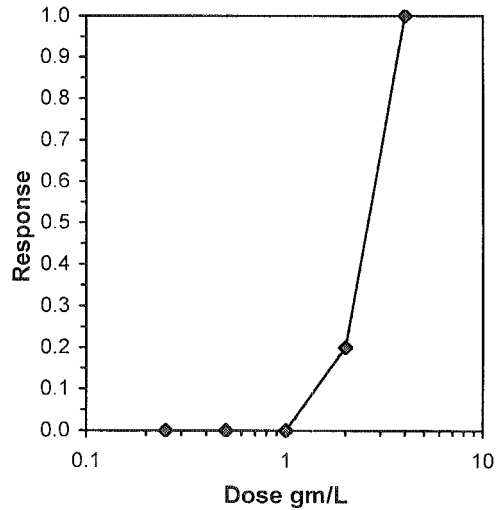
Start Date: 12/4/2008 13:30 Test ID: RT-081204c Sample ID: REF-Ref Toxicant
 End Date: 12/11/2008 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 12/4/2008 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia
 Comments:

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

Conc-gm/L	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Number Resp	Total Number
D-Control	1.0000	1.0000	0	10	10	10			0	10
0.25	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
0.5	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
1	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
2	0.8000	0.8000	2	8	10	10	0.2368	0.0500	2	10
4	0.0000	0.0000	10	0	10	10			10	10

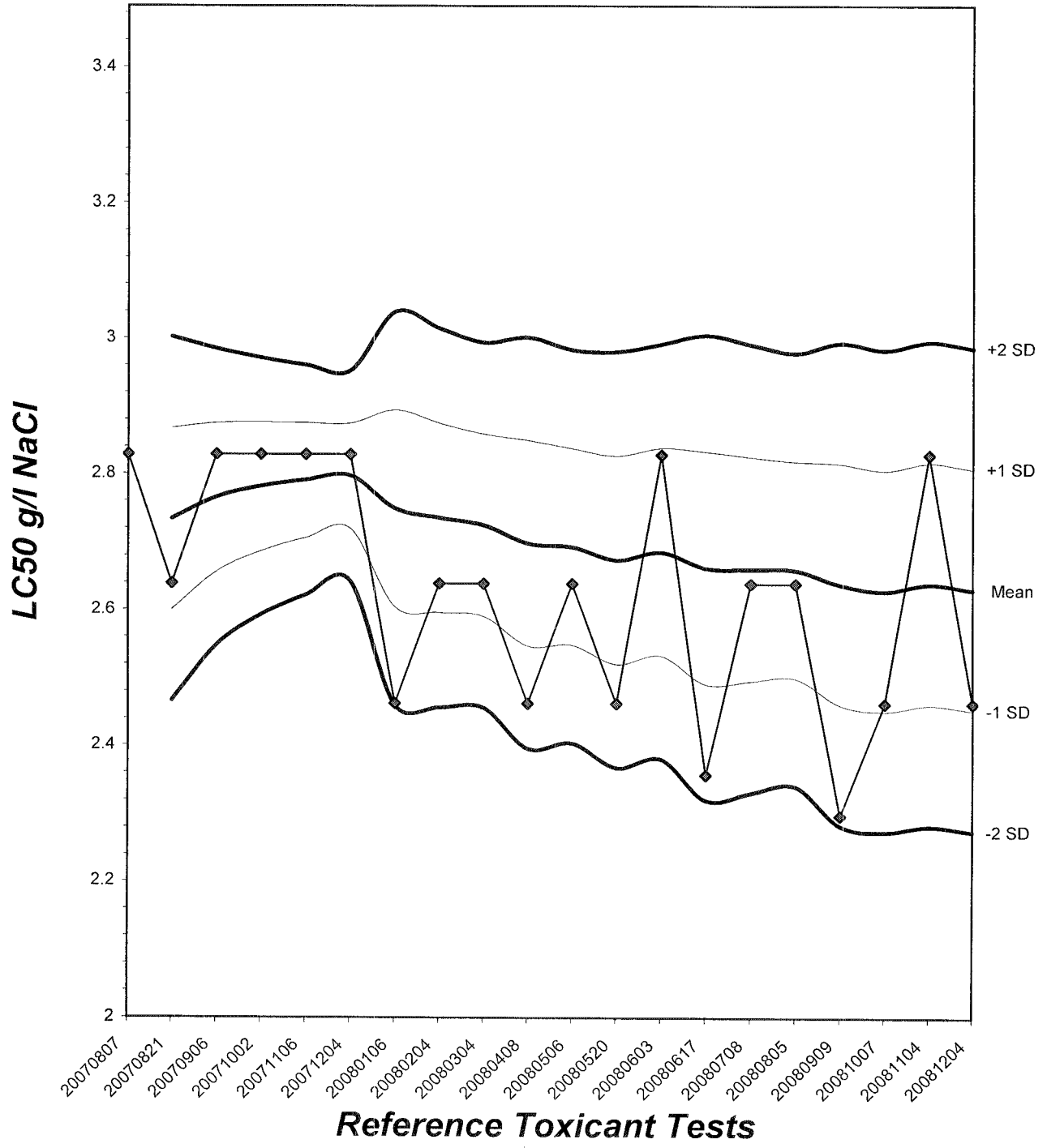
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Fisher's Exact Test	2	4	2.82843	
Treatments vs D-Control				

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



Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 6.77



Ceriodaphnia Survival and Reproduction Test-Reproduction

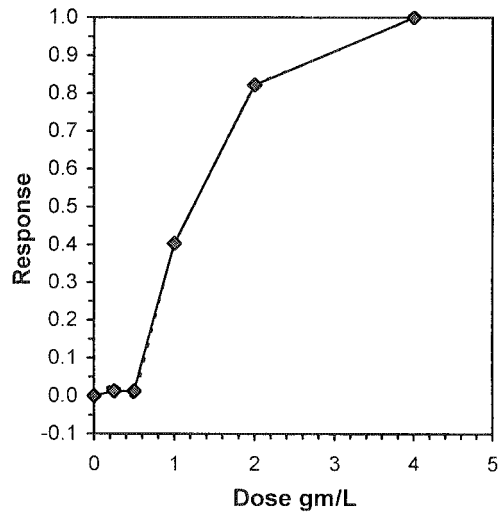
Start Date: 12/4/2008 13:30 Test ID: RT-081204c Sample ID: REF-Ref Toxicant
 End Date: 12/11/2008 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 12/4/2008 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia
 Comments:

Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	22.000	26.000	24.000	25.000	21.000	29.000	24.000	26.000	25.000	21.000
0.25	16.000	25.000	26.000	21.000	25.000	24.000	26.000	22.000	26.000	24.000
0.5	22.000	27.000	25.000	27.000	22.000	24.000	25.000	24.000	25.000	24.000
1	18.000	17.000	9.000	18.000	11.000	16.000	16.000	12.000	19.000	9.000
2	5.000	5.000	0.000	2.000	6.000	6.000	7.000	0.000	6.000	6.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Conc-gm/L	Transform: Untransformed							Rank Sum	1-Tailed Critical	Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N			Mean	N-Mean
D-Control	24.300	1.0000	24.300	21.000	29.000	10.274	10			24.300	1.0000
0.25	23.500	0.9671	23.500	16.000	26.000	13.344	10	102.50	76.00	24.000	0.9877
0.5	24.500	1.0082	24.500	22.000	27.000	7.004	10	108.00	76.00	24.000	0.9877
*1	14.500	0.5967	14.500	9.000	19.000	26.661	10	55.00	76.00	14.500	0.5967
*2	4.300	0.1770	4.300	0.000	7.000	61.088	10	55.00	76.00	4.300	0.1770
4	0.000	0.0000	0.000	0.000	0.000	0.000	10			0.000	0.0000

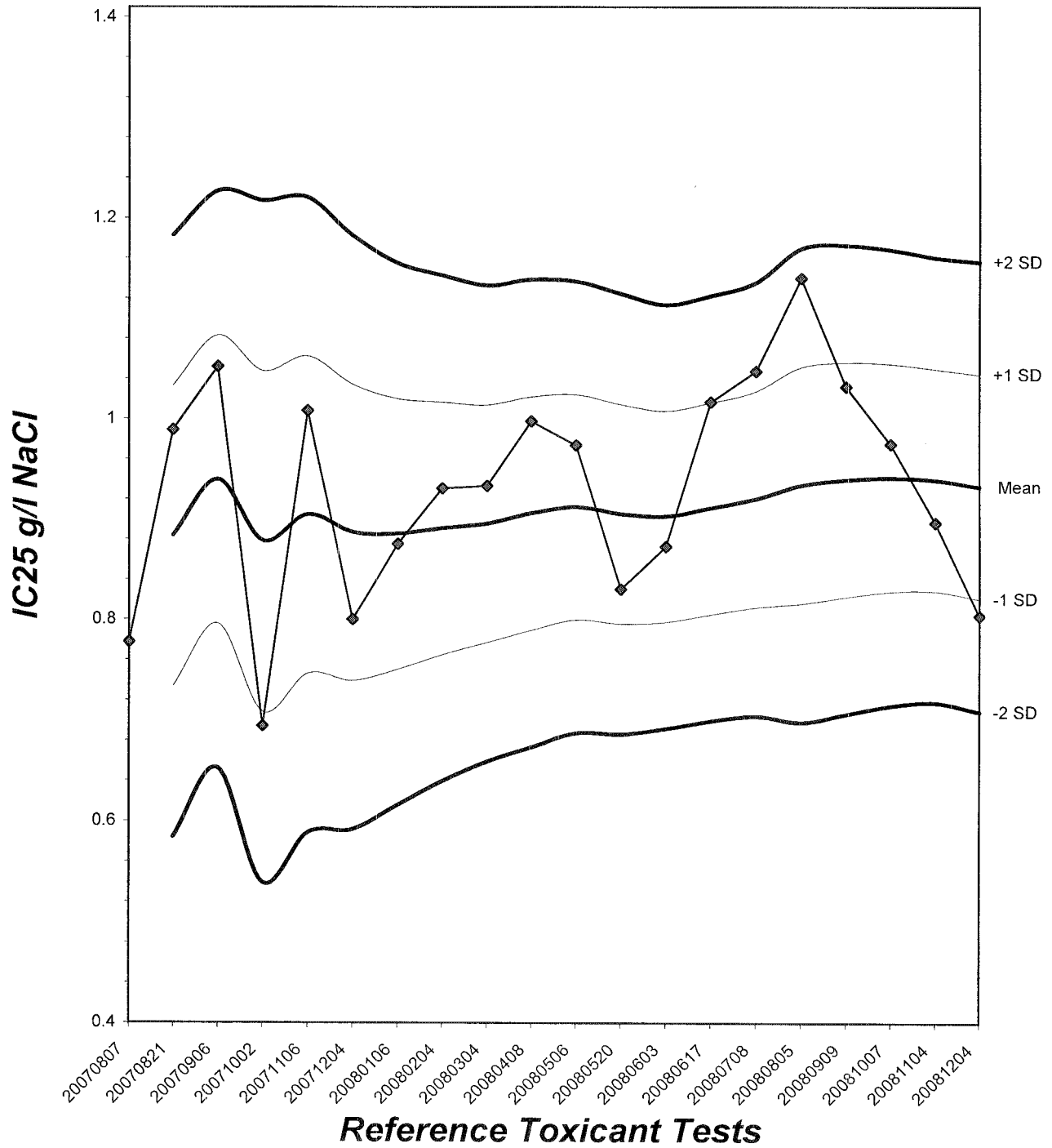
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05)	0.94067	0.947	-0.7031	0.01881
Bartlett's Test indicates equal variances (p = 0.22)	5.7868	13.2767		
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	0.5	1	0.70711	
Treatments vs D-Control				

Point	Linear Interpolation (200 Resamples)				
	gm/L	SD	95% CL	Skew	
IC05	0.5482	0.1404	0.1438	0.5754	-1.6078
IC10	0.6121	0.0484	0.5162	0.6509	-4.0272
IC15	0.6761	0.0355	0.5782	0.7263	-0.3203
IC20	0.7400	0.0382	0.6442	0.8017	-0.0538
IC25	0.8039	0.0422	0.7039	0.8772	0.1260
IC40	0.9958	0.0696	0.8810	1.1397	0.5233
IC50	1.2304	0.0941	0.9932	1.3494	-0.3779



Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 12



CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-081204

Start Date: 12/04/2008

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	Rm
	2	0	0	0	0	0	0	0	0	0	0	0	10	Rm
	3	0	3	4	0	0	0	4	4	0	0	15	10	Rm
	4	4	0	0	3	3	4	0	0	4	3	21	10	Rm
	5	0	7	6	0	0	10	7	9	7	6	52	10	Rm
	6	8	0	14	12	8	15	0	0	0	12	69	10	Rm
	7	10	16	12	10	10	0	13	13	14	0	86	10	Rm
	Total	22	26	24	28	21	29	24	26	25	21	243	10	Rm
0.25 g/l	1	0	0	0	0	0	0	0	0	0	0	10	Rm	
	2	0	0	0	0	0	0	0	0	0	0	10	Rm	
	3	0	0	4	4	0	0	0	3	0	4	15	10	Rm
	4	4	3	0	0	3	4	4	0	3	0	21	10	Rm
	5	0	0	6	7	8	0	0	7	0	6	34	10	Rm
	6	12	7	0	0	14	8	7	12	10	14	84	10	Rm
	7	0	15	16	10	0	12	15	0	13	0	81	10	Rm
	Total	14	25	26	21	25	24	26	22	26	24	235	10	Rm
0.5 g/l	1	0	0	0	0	0	0	0	0	0	0	10	Rm	
	2	0	0	0	0	0	0	0	0	0	0	10	Rm	
	3	4	0	3	4	0	0	0	4	0	0	15	10	Rm
	4	0	4	0	0	4	3	3	0	4	4	22	10	Rm
	5	6	0	10	8	6	7	0	7	0	0	44	10	Rm
	6	12	8	0	0	0	14	7	0	7	8	56	10	Rm
	7	0	15	12	15	12	0	15	13	14	12	108	10	Rm
	Total	22	27	25	27	22	24	25	24	25	24	245	10	Rm

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

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



QA/QC No.: RT-081204

Start Date: 12/04/2008

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
1.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	RL
	2	0	0	0	0	0	0	0	0	0	0	0	10	RL
	3	0	2	0	0	0	3	0	0	3	0	8	10	RL
	4	4	0	3	4	4	0	3	2	0	3	23	10	RL
	5	0	5	0	6	0	7	6	0	8	0	32	10	RL
	6	6	0	6	8	0	0	0	10	0	6	36	10	RL
	7	8	10	0	0	7	6	7	0	8	0	46	10	RL
	Total	18	17	9	18	11	16	16	12	19	9	145	10	RL
2.0 g/l	1	0	0	0	0	0	0	0	0	0	0	10	RL	
	2	0	0	0	0	0	0	0	0	0	0	10	RL	
	3	0	0	X	0	0	0	0	0	0	0	9	RL	
	4	0	2	-	0	0	2	0	X	2	0	6	8	RL
	5	3	0	-	2	3	0	3	-	2	3	16	8	RL
	6	0	3	-	0	0	4	0	-	0	0	7	8	RL
	7	2	0	-	0	3	0	4	-	2	3	14	8	RL
	Total	5	5	0	2	6	6	7	0	6	6	43	8	RL
4.0 g/l	1	X	X	X	X	X	X	X	X	X	0	0	RL	
	2	-	-	-	-	-	-	-	-	-	0	0	RL	
	3	-	-	-	-	-	-	-	-	-	0	0	RL	
	4	-	-	-	-	-	-	-	-	-	0	0	RL	
	5	-	-	-	-	-	-	-	-	-	0	0	RL	
	6	-	-	-	-	-	-	-	-	-	0	0	RL	
	7	-	-	-	-	-	-	-	-	-	0	0	RL	
	Total	0	0	0	0	0	0	0	0	0	0	0	0	RL

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

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl Water Chemistries Raw Data Sheet



QA/QC No.: RT-081204

Start Date: 12/04/2008

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Analyst Initials:		Rm	Rm	Rm	Rm	Rm	Rm	Rm	Rm	Rm	Rm	Rm	Rm	Rm	Rm
Time of Readings:		1330	1400	1400	1500	1500	134	1300	1400	1400	1600	1600	1430	1430	1400
Control	DO	8.0	9.3	8.3	8.9	8.1	8.3	9.1	8.6	8.8	8.7	8.4	8.4	8.1	8.2
	pH	8.2	8.1	7.8	8.1	7.8	7.8	7.6	7.7	7.8	7.9	7.8	7.9	8.0	8.3
	Temp	24.7	24.2	26.0	24.9	24.1	25.4	25.3	25.1	24.3	24.3	24.4	24.5	24.7	24.2
0.25 g/l	DO	8.1	9.4	8.3	9.0	8.1	8.4	8.8	8.7	8.7	8.8	8.4	8.4	8.1	8.3
	pH	8.2	8.1	7.8	8.1	7.8	7.7	7.6	7.7	7.9	7.9	7.9	7.9	8.1	8.3
	Temp	24.7	24.4	26.0	25.0	24.1	25.3	25.4	25.2	24.4	24.3	24.4	24.5	24.7	24.3
0.5 g/l	DO	8.1	9.5	8.3	9.2	8.1	8.2	8.8	8.6	8.4	8.8	8.5	8.3	8.1	8.2
	pH	8.2	8.1	7.8	8.1	7.8	7.7	7.7	7.7	7.9	8.0	7.9	7.9	8.1	8.4
	Temp	24.6	24.5	26.0	25.2	24.1	25.2	25.6	25.0	24.3	24.2	24.3	24.4	24.6	24.1
1.0 g/l	DO	8.1	9.4	8.3	8.9	8.1	8.8	8.8	8.7	8.7	8.9	8.5	8.2	8.1	8.3
	pH	8.2	8.1	7.8	8.1	7.8	7.7	7.7	7.7	7.9	8.0	8.0	7.9	8.1	8.2
	Temp	24.5	24.7	26.0	24.9	24.1	24.4	25.4	24.8	24.3	24.2	24.3	24.3	24.5	24.2
2.0 g/l	DO	8.2	9.3	8.3	9.0	8.1	8.7	8.8	8.8	8.7	9.0	8.5	8.4	8.1	8.1
	pH	8.2	8.2	7.9	8.1	7.9	7.8	7.9	7.8	7.9	8.1	8.0	7.9	8.2	8.3
	Temp	24.4	24.6	25.9	24.7	24.2	24.2	25.4	25.5	24.2	24.1	24.2	24.3	24.3	24.3
4.0 g/l	DO	8.3	9.6	8.2	-	-	-	-	-	-	-	-	-	-	-
	pH	8.1	8.2	7.9	-	-	-	-	-	-	-	-	-	-	-
	Temp	24.2	24.7	25.8	-	-	-	-	-	-	-	-	-	-	-

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

Additional Parameters	Control			High Concentration		
	Day 1	Day 3	Day 5	Day 1	Day 3	Day 5
	Conductivity (µS)	320	310	305	6240	3440
Alkalinity (mg/l CaCO ₃)	67	65	63	66	66	64
Hardness (mg/l CaCO ₃)	97	96	96	95	96	96

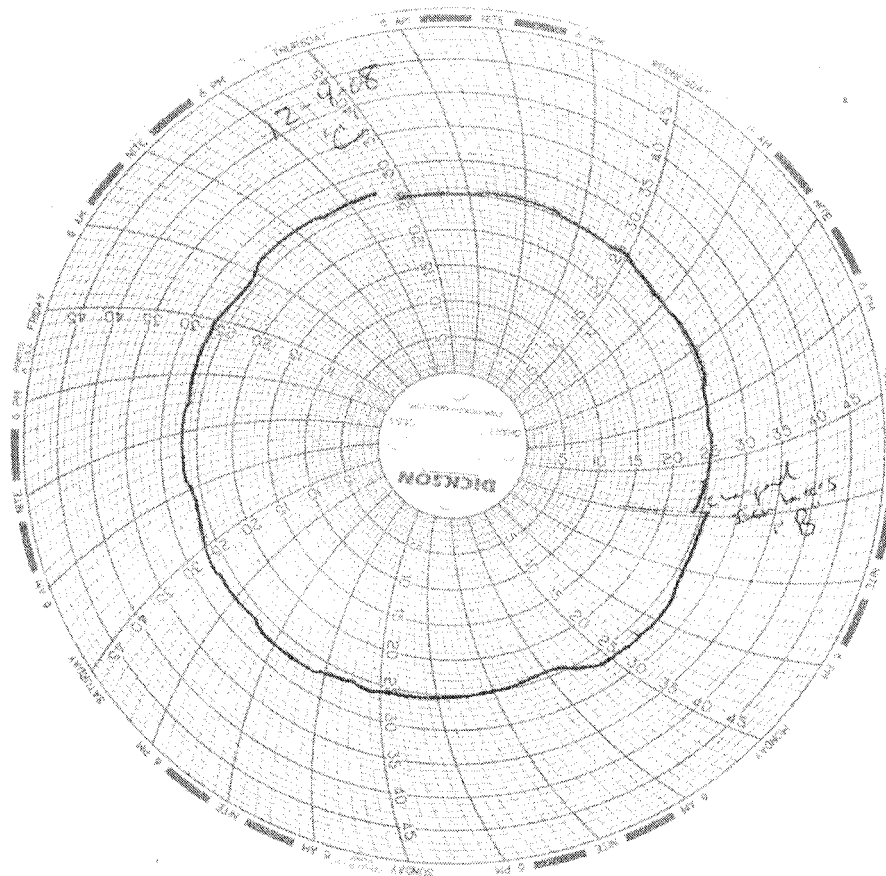
Source of Neonates										
Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	A2	B2	C3	D1	F2	F3	G2	H3	I3	J3

Test Temperature Chart

Test No: RT-081204

Date Tested: 12/04/08 to 12/11/08

Acceptable Range: 25 \pm 1 $^{\circ}$ C



ANALYTICAL REPORT

MWH-Pasadena / Boeing

Lot D8L170218

Project IRL1709

Joseph Doak
17461 Derian Avenue
Suite 100
Irvine, CA 92614

TestAmerica Laboratories, Inc.



Danielle Fougere
Project Manager

December 22, 2008

Case Narrative

Enclosed is the report for one sample received at TestAmerica Laboratories, Inc. – Denver laboratory on December 17, 2008. The results included in this report relate only to the samples in this report and have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

This report may include reporting limits (RLs) less than the Denver laboratory's standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Laboratories, Inc. utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

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

Quality Control Summary for Lot D8L170218

Sample Receiving

The cooler temperature for the sample received on December 17, 2008 at the Denver laboratory was 2.6°C. All sample containers were received in acceptable condition.

Total Mercury –Method 245.1

Matrix spike analyses for QC batch 8353495 were performed on a sample from another client and/or lot, and were outside control limits.

No other anomalies were observed.

Dissolved Mercury –Method 245.1

Matrix spike analyses for QC batch 8353517 were performed on a sample from another client and/or lot, and were outside control limits.

No other anomalies were observed.

Quality Control Definitions of Qualifiers

Qualifier	Definition
U	Result is less than the method detection limit (MDL).
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentrations exceed the calibration range.
p	Relative Percent Difference (RPD) is outside control limits.
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
DIL	The concentration is estimated or not reported due to dilution.
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
CHI	More than 40% difference between the primary and confirmation detector results. The higher of the two results is reported.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
a	Spiked analyte recovery is outside stated control limits.
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
MSB	The recovery and/or RPD were not calculated because the sample amount was greater than four times the spike amount.

IR21
12/17/8
2.6

SUBCONTRACT ORDER

TestAmerica Irvine

IRL1709

SENDING LABORATORY:

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

RECEIVING LABORATORY:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone : (303) 736-0100
Fax: (303) 431-7171
Project Location: CA - CALIFORNIA
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: IRL1709-01 Water Sampled: 12/15/08 09:35						
Level 4 + EDD-OUT	N/A	12/22/08	01/12/09 09:35	\$0.00	25%	Sub to Denver, transfer file EDD
Mercury - 245.1, Diss -OUT	ug/l	12/22/08	01/12/09 09:35	\$36.00	25%	Denver, Boeing, J flags
Mercury - 245.1-OUT	ug/l	12/22/08	01/12/09 09:35	\$36.00	25%	Denver, Boeing, permit, J flags,
<i>Containers Supplied:</i> 1 L Poly w/HNO3 (B) 125 mL Poly (N)						

~~Released By~~ _____ ~~Date/Time~~ 12/16/08 17:00

Received By Fedex _____ Date/Time 12/16/08 17:00
437

Released By _____ Date/Time _____

Received By _____ Date/Time 12/17/08 09:45
Page 1 of 1

TestAmerica Denver
Sample Receiving Checklist

Lot #: D8217028 Date/Time Received: 12/26/09 8:09 AM

Company Name & Sampling Site: TAC Irvine

PM to Complete This Section: Yes No
Residual chlorine check required: Quarantined:

Quote #: 72743

Special Instructions:

Time Zone:
• EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking Checks:

Cooler #(s): 1

Temperatures (°C): 2.6

N/A Yes No

- 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.
- 2. Coolers scanned for radiation. Is the reading \leq to background levels? Yes: No:
- 3. Chain of custody present? If no, document on CUR.
- 4. Bottles broken and/or are leaking? If yes, document on CUR.
- 5. Multiphasic samples obvious? If yes, document on CUR.
- 6. Proper container & preservatives used? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR.
- 7. pH of all samples checked and meet requirements? If no, document on CUR.
- 8. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 9. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- 10. Were VOA samples without headspace? If no, document on CUR.
- 11. Were VOA vials preserved? Preservative HCl 4 \pm 2°C Sodium Thiosulfate Ascorbic Acid
- 12. Did samples require preservation with sodium thiosulfate?
- 13. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- 14. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- 15. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 16. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- 17. Are analyses with short holding times requested?
- 18. Was a quick Turn Around (TAT) requested?

Initials
[Signature]


TestAmerica Denver
Sample Receiving Checklist

Lot # D82170218

Login Checks:

N/A Yes No

Initials



- 19. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 20. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 21. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?
- 22. Were special log in instructions read and followed?
- 23. Were AFCEE metals logged for refrigerated storage?
- 24. Were tests logged checked against the COC? Which samples were confirmed? /
- 25. Was a Rush form completed for quick TAT?
- 26. Was a Short Hold form completed for any short holds?
- 27. Were special archiving instructions indicated in the General Comments? If so, what were they?

Labeling and Storage Checks:

Initials



- 28. Was the subcontract COC signed and sent with samples to bottle prep?
- 29. Were sample labels double-checked by a second person?
- 30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?
- 31. Did the sample ID, Date, and Time from label match what was logged?
- 32. Were stickers for special archiving instructions affixed to each box? See #27
- 33. Were AFCEE metals stored refrigerated?

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

EXECUTIVE SUMMARY - Detection Highlights

D8L170218

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
NO DETECTABLE PARAMETERS				

METHODS SUMMARY

D8L170218

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Dissolved Mercury (CVAA)	MCAWW 245.1	MCAWW 245.1
Mercury (Manual Cold Vapor Technique)	MCAWW 245.1	MCAWW 245.1

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

METHOD / ANALYST SUMMARY

D8L170218

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 245.1	Christopher Grisdale	9582

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

D8L170218

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
K4V1A	001	IRL1709-01	12/15/08	09:35

NOTE (S) :

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

QC DATA ASSOCIATION SUMMARY

D8L170218

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 245.1		8353495	8353297
	WATER	MCAWW 245.1		8353517	8353310

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Total Metals

Lot ID: D8L170218

Client: TestAmerica Irvine

Method: 245.1

Associated Samples: 001

Batch: 8353495

TOTAL Metals
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: TestAmerica Irvine

SDG No.: D8L170218

Lab Code: _____ Case No.: _____

SAS No.: _____

SOW No.: _____

Sample ID.

Lab Sample No.

IRL1709-01

D8L170218-001

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before application of background corrections?

Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: *Yongming Ding*

Name: Yongming Ding

Date: 12/20/2008

Title: Analyst V 446

TestAmerica Irvine

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D8L170218
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 8353495
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID: IRL1709-01
Lab Sample ID: D8L170218-001
Lab WorkOrder: K4V1A
Date/Time Collected: 12/15/08 09:35
Date/Time Received: 12/17/08 09:45
Date Leached:
Date/Time Extracted: 12/18/08 16:30
Date/Time Analyzed: 12/18/08 21:38
Instrument ID: 023

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

TOTAL Metals

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170218

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	7.000	6.732	96.2	5.000	5.033	100.7	4.765	95.3	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL Metals

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170218

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury				5.000	5.070	101.4			CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL Metals
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: TestAmerica Irvine
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D8L170218
 AA CRDL Standard Source: Ultra Scientific
 ICP CRDL Standard Source: _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
				True	Found	%R	Found	%R
Mercury	0.200	0.16800	84.0					

Comments: