APPENDIX G

Section 10

Outfall 002 - February 20, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: Routine Outfall 002

Sampled: 02/20/10
Received: 02/20/10
Issued: 04/09/10 18:25

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

SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: Complete final report with corrected 624 analyte list.

LABORATORY ID	CLIENT ID	MATRIX
ITB2185-01	OUTFALL 002 (GRAB)	Water
ITB2185-02	TRIP BLANKS	Water
ITB2185-03	OUTFALL 002 (COMPOSITE)	Water

Reviewed By:

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-01 (OUTFALL 002 (GRAB) - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	10B3034	0.28	0.50	ND	1	02/25/10	02/25/10	
Carbon tetrachloride	EPA 624	10B3034	0.28	0.50	ND	1	02/25/10	02/25/10	
Chloroform	EPA 624	10B3034	0.33	0.50	ND	1	02/25/10	02/25/10	
1,1-Dichloroethane	EPA 624	10B3034	0.40	0.50	ND	1	02/25/10	02/25/10	
1,2-Dichloroethane	EPA 624	10B3034	0.28	0.50	ND	1	02/25/10	02/25/10	
1,1-Dichloroethene	EPA 624	10B3034	0.42	0.50	ND	1	02/25/10	02/25/10	
Ethylbenzene	EPA 624	10B3034	0.25	0.50	ND	1	02/25/10	02/25/10	
Tetrachloroethene	EPA 624	10B3034	0.32	0.50	ND	1	02/25/10	02/25/10	
Toluene	EPA 624	10B3034	0.36	0.50	ND	1	02/25/10	02/25/10	
1,1,1-Trichloroethane	EPA 624	10B3034	0.30	0.50	ND	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	EPA 624	10B3034	0.30	0.50	ND	1	02/25/10	02/25/10	
Trichloroethene	EPA 624	10B3034	0.26	0.50	ND	1	02/25/10	02/25/10	
Trichlorofluoromethane	EPA 624	10B3034	0.34	0.50	ND	1	02/25/10	02/25/10	
Vinyl chloride	EPA 624	10B3034	0.40	0.50	ND	1	02/25/10	02/25/10	
Xylenes, Total	EPA 624	10B3034	0.90	1.5	ND	1	02/25/10	02/25/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				
Sample ID: ITB2185-02 (TRIP BLANKS - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	10B3030	0.28	0.50	ND	1	02/25/10	02/25/10	
Carbon tetrachloride	EPA 624	10B3030	0.28	0.50	ND	1	02/25/10	02/25/10	
Chloroform	EPA 624	10B3030	0.33	0.50	ND	1	02/25/10	02/25/10	
1,1-Dichloroethane	EPA 624	10B3030	0.40	0.50	ND	1	02/25/10	02/25/10	
1,2-Dichloroethane	EPA 624	10B3030	0.28	0.50	ND	1	02/25/10	02/25/10	
1,1-Dichloroethene	EPA 624	10B3030	0.42	0.50	ND	1	02/25/10	02/25/10	
Ethylbenzene	EPA 624	10B3030	0.25	0.50	ND	1	02/25/10	02/25/10	
Tetrachloroethene	EPA 624	10B3030	0.32	0.50	ND	1	02/25/10	02/25/10	
Toluene	EPA 624	10B3030	0.36	0.50	ND	1	02/25/10	02/25/10	
1,1,1-Trichloroethane	EPA 624	10B3030	0.30	0.50	ND	1	02/25/10	02/25/10	
1,1,2-Trichloroethane	EPA 624	10B3030	0.30	0.50	ND	1	02/25/10	02/25/10	
Trichloroethene	EPA 624	10B3030	0.26	0.50	ND	1	02/25/10	02/25/10	
Trichlorofluoromethane	EPA 624	10B3030	0.34	0.50	ND	1	02/25/10	02/25/10	
Vinyl chloride	EPA 624	10B3030	0.40	0.50	ND	1	02/25/10	02/25/10	
Xylenes, Total	EPA 624	10B3030	0.90	1.5	ND	1	02/25/10	02/25/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*96 %*				
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*105 %*				

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
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ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: ug/l									
Bis(2-ethylhexyl)phthalate	EPA 625	10B2756	1.6	4.8	ND	0.952	02/23/10	02/26/10	
2,4-Dinitrotoluene	EPA 625	10B2756	0.19	8.6	ND	0.952	02/23/10	02/26/10	
N-Nitrosodimethylamine	EPA 625	10B2756	0.095	7.6	ND	0.952	02/23/10	02/26/10	
Pentachlorophenol	EPA 625	10B2756	0.095	7.6	ND	0.952	02/23/10	02/26/10	
2,4,6-Trichlorophenol	EPA 625	10B2756	0.095	5.7	ND	0.952	02/23/10	02/26/10	
Surrogate: 2,4,6-Tribromophenol (40-120%)					*82 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*73 %*				
Surrogate: 2-Fluorophenol (30-120%)					*64 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*80 %*				
Surrogate: Phenol-d6 (35-120%)					*69 %*				
Surrogate: Terphenyl-d14 (50-125%)					*89 %*				

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ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: ug/l									
alpha-BHC	EPA 608	10B2866	0.0024	0.0094	ND	0.943	02/24/10	02/25/10	
Surrogate: Decachlorobiphenyl (45-120%)					*79 %*				
Surrogate: Tetrachloro-m-xylene (35-115%)					*60 %*				

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HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-01 (OUTFALL 002 (GRAB) - Water)									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	10C0035	1.4	4.9	ND	1	03/01/10	03/01/10	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	10B2851	0.0060	0.010	**0.037**	1	02/23/10	02/25/10	
Iron	EPA 200.7	10B2851	0.015	0.040	**0.027**	1	02/23/10	02/25/10	J
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: ug/l									
Mercury	EPA 245.1	10B3105	0.10	0.20	ND	1	02/25/10	02/25/10	
Arsenic	EPA 200.8	10B2838	0.90	1.0	ND	1	02/23/10	02/26/10	
Beryllium	EPA 200.8	10B2838	0.10	0.50	ND	1	02/23/10	02/26/10	
Cadmium	EPA 200.8	10B2838	0.10	1.0	ND	1	02/23/10	02/26/10	
Zinc	EPA 200.7	10B2851	6.0	20	ND	1	02/23/10	02/25/10	
Chromium	EPA 200.8	10B2838	0.90	2.0	ND	1	02/23/10	02/26/10	
Copper	EPA 200.8	10B2838	0.50	2.0	**1.5**	1	02/23/10	02/26/10	J
Lead	EPA 200.8	10B2838	0.20	1.0	ND	1	02/23/10	02/26/10	
Manganese	EPA 200.8	10C0098	0.70	1.0	**6.2**	1	03/01/10	03/02/10	
Nickel	EPA 200.8	10B2838	0.50	2.0	**2.0**	1	02/23/10	02/26/10	
Selenium	EPA 200.8	10B2838	0.50	2.0	ND	1	02/23/10	02/26/10	

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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: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	10B2911	0.0060	0.010	**0.036**	1	02/24/10	02/24/10	
Iron	EPA 200.7-Diss	10B2911	0.015	0.040	ND	1	02/24/10	02/24/10	
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10B2963	0.10	0.20	ND	1	02/24/10	02/24/10	
Arsenic	EPA 200.8-Diss	10B2705	0.90	1.0	ND	1	02/22/10	02/25/10	
Beryllium	EPA 200.8-Diss	10B2705	0.10	0.50	ND	1	02/22/10	02/23/10	C
Cadmium	EPA 200.8-Diss	10B2705	0.10	1.0	ND	1	02/22/10	02/23/10	
Zinc	EPA 200.7-Diss	10B2911	6.0	20	ND	1	02/24/10	02/24/10	
Chromium	EPA 200.8-Diss	10B2705	0.90	2.0	ND	1	02/22/10	02/23/10	C
Copper	EPA 200.8-Diss	10B2705	0.50	2.0	ND	1	02/22/10	02/23/10	
Lead	EPA 200.8-Diss	10B2705	0.20	1.0	ND	1	02/22/10	02/23/10	C
Manganese	EPA 200.8-Diss	10B2705	0.70	1.0	**4.8**	1	02/22/10	02/23/10	
Nickel	EPA 200.8-Diss	10B2705	0.50	2.0	**2.0**	1	02/22/10	02/23/10	B
Selenium	EPA 200.8-Diss	10B2705	0.50	2.0	ND	1	02/22/10	02/23/10	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: mg/l									
Ammonia-N (Distilled)	SM4500NH3-C	10C0225	0.50	0.50	ND	1	03/02/10	03/02/10	
Biochemical Oxygen Demand	SM5210B	10B2530	0.50	2.0	ND	1	02/20/10	02/25/10	
Chloride	EPA 300.0	10B2502	0.25	0.50	**16**	1	02/20/10	02/20/10	
Nitrate-N	EPA 300.0	10B2502	0.060	0.11	ND	1	02/20/10	02/20/10	
Nitrite-N	EPA 300.0	10B2502	0.090	0.15	ND	1	02/20/10	02/20/10	
Nitrate/Nitrite-N	EPA 300.0	10B2502	0.15	0.26	ND	1	02/20/10	02/20/10	
Sulfate	EPA 300.0	10B2626	4.0	10	**150**	20	02/22/10	02/22/10	
Surfactants (MBAS)	SM5540-C	10B2585	0.050	0.10	**0.093**	1	02/21/10	02/21/10	J
Total Dissolved Solids	SM2540C	10B2723	1.0	10	**370**	1	02/23/10	02/23/10	
Total Suspended Solids	SM 2540D	10B2996	1.0	10	**4.0**	1	02/24/10	02/24/10	J

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-01 (OUTFALL 002 (GRAB) - Water)									
Reporting Units: ml/l									
Total Settleable Solids	SM2540F	10B2531	0.10	0.10	**0.10**	1	02/20/10	02/20/10	
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: NTU									
Turbidity	EPA 180.1	10B2513	0.040	1.0	**0.75**	1	02/20/10	02/20/10	J
Sample ID: ITB2185-01 (OUTFALL 002 (GRAB) - Water)									
Reporting Units: ug/l									
Total Cyanide	SM4500CN-E	10B2988	2.2	5.0	ND	1	02/24/10	02/24/10	
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: ug/l									
Perchlorate	EPA 314.0	10B2593	0.90	4.0	ND	1	02/22/10	02/22/10	
Sample ID: ITB2185-01 (OUTFALL 002 (GRAB) - Water)									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	10B2589	1.0	1.0	**630**	1	02/22/10	02/22/10	

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ASTM 5174-91

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: pCi/L									
Total Uranium	ASTM 5174-91	67296	0.21	0.693	**0.677**	1	03/10/10	03/12/10	Jb

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EPA 900.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: pCi/L									
Gross Alpha	EPA 900.0 MOD	62110	2	3	-0.12	1	03/03/10	03/07/10	U
Gross Beta	EPA 900.0 MOD	62110	1.3	4	**3.5**	1	03/03/10	03/07/10	Jb

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EPA 901.1 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: pCi/L									
Cesium 137	EPA 901.1 MOD	55101	21	20	-1	1	02/24/10	03/12/10	U
Potassium 40	EPA 901.1 MOD	55101	280	NA	-30	1	02/24/10	03/12/10	U

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EPA 903.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: pCi/L									
Radium (226)	EPA 903.0 MOD	55153	0.048	1	**0.133**	1	02/24/10	03/19/10	Jb

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EPA 904 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: pCi/L									
Radium 228	EPA 904 MOD	55154	0.39	1	-0.07	1	02/24/10	03/12/10	U

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EPA 905 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: pCi/L									
Strontium 90	EPA 905 MOD	55155	0.34	3	-0.03	1	02/24/10	03/05/10	U

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Received: 02/20/10

EPA 906.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: pCi/L									
Tritium	EPA 906.0 MOD	61038	140	500	-79	1	03/02/10	03/03/10	U

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Project Manager

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

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

EPA-5 1613B

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Water)									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	57116	0.0000011	0.000048	**1.5e-006**	0.95	02/26/10	03/01/10	J, Q, Ba
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	57116	0.000001	0.000048	**9.2e-007**	0.95	02/26/10	03/01/10	J, Q, Ba
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	57116	0.0000017	0.000048	ND	0.95	02/26/10	03/01/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	57116	0.00000067	0.000048	**7.3e-007**	0.95	02/26/10	03/01/10	J, Q, Ba
1,2,3,4,7,8-HxCDF	EPA-5 1613B	57116	0.00000028	0.000048	**3.9e-007**	0.95	02/26/10	03/01/10	J, Ba
1,2,3,6,7,8-HxCDD	EPA-5 1613B	57116	0.00000056	0.000048	ND	0.95	02/26/10	03/01/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	57116	0.00000026	0.000048	ND	0.95	02/26/10	03/01/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	57116	0.00000055	0.000048	ND	0.95	02/26/10	03/01/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	57116	0.00000034	0.000048	ND	0.95	02/26/10	03/01/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	57116	0.00000058	0.000048	ND	0.95	02/26/10	03/01/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	57116	0.0000003	0.000048	ND	0.95	02/26/10	03/01/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	57116	0.00000025	0.000048	**4.2e-007**	0.95	02/26/10	03/01/10	J, Q, Ba
2,3,4,7,8-PeCDF	EPA-5 1613B	57116	0.00000037	0.000048	ND	0.95	02/26/10	03/01/10	
2,3,7,8-TCDD	EPA-5 1613B	57116	0.000000030	0.0000095	ND	0.95	02/26/10	03/01/10	
2,3,7,8-TCDF	EPA-5 1613B	57116	0.000000020	0.0000095	ND	0.95	02/26/10	03/01/10	
OCDD	EPA-5 1613B	57116	0.00000093	0.000095	**9.1e-006**	0.95	02/26/10	03/01/10	J, Ba
OCDF	EPA-5 1613B	57116	0.0000011	0.000095	**1.2e-006**	0.95	02/26/10	03/01/10	J, Q, Ba
Total HpCDD	EPA-5 1613B	57116	0.0000011	0.000048	**3.4e-006**	0.95	02/26/10	03/01/10	J, Q, Ba
Total HpCDF	EPA-5 1613B	57116	0.000001	0.000048	**9.2e-007**	0.95	02/26/10	03/01/10	Ba, J, Q
Total HxCDD	EPA-5 1613B	57116	0.00000055	0.000048	**7.3e-007**	0.95	02/26/10	03/01/10	J, Q, Ba
Total HxCDF	EPA-5 1613B	57116	0.00000025	0.000048	**1.1e-006**	0.95	02/26/10	03/01/10	J, Q, Ba
Total PeCDD	EPA-5 1613B	57116	0.00000058	0.000048	ND	0.95	02/26/10	03/01/10	
Total PeCDF	EPA-5 1613B	57116	0.00000003	0.000048	ND	0.95	02/26/10	03/01/10	
Total TCDD	EPA-5 1613B	57116	0.000000030	0.0000095	ND	0.95	02/26/10	03/01/10	
Total TCDF	EPA-5 1613B	57116	0.000000020	0.0000095	ND	0.95	02/26/10	03/01/10	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)					*83 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)					*82 %*				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)					*73 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)					*76 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)					*75 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)					*79 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)					*78 %*				
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)					*77 %*				
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)					*72 %*				
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)					*71 %*				
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)					*81 %*				
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)					*67 %*				
Surrogate: 13C-2,3,7,8-TCDD (25-164%)					*72 %*				
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					*72 %*				
Surrogate: 13C-OCDD (17-157%)					*77 %*				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					*91 %*				

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: OUTFALL 002 (GRAB) (ITB2185-01) - Water					
SM2540F	2	02/20/2010 09:00	02/20/2010 14:38	02/20/2010 15:30	02/20/2010 15:30
Sample ID: OUTFALL 002 (COMPOSITE) (ITB2185-03) - Water					
EPA 180.1	2	02/20/2010 01:49	02/20/2010 14:38	02/20/2010 14:00	02/20/2010 15:30
EPA 300.0	2	02/20/2010 01:49	02/20/2010 14:38	02/20/2010 15:00	02/20/2010 15:18
Filtration	1	02/20/2010 01:49	02/20/2010 14:38	02/20/2010 17:15	02/20/2010 17:15
SM5210B	2	02/20/2010 01:49	02/20/2010 14:38	02/20/2010 16:57	02/25/2010 13:50
SM5540-C	2	02/20/2010 01:49	02/20/2010 14:38	02/21/2010 14:00	02/21/2010 14:32

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B3030 Extracted: 02/25/10											
Blank Analyzed: 02/25/2010 (10B3030-BLK1)											
Benzene	ND	0.50	0.28	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
1,1-Dichloroethane	ND	0.50	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			
LCS Analyzed: 02/25/2010 (10B3030-BS1)											
Benzene	21.1	0.50	0.28	ug/l	25.0		84	70-120			
Carbon tetrachloride	24.1	0.50	0.28	ug/l	25.0		97	65-140			
Chloroform	21.0	0.50	0.33	ug/l	25.0		84	70-130			
1,1-Dichloroethane	20.7	0.50	0.40	ug/l	25.0		83	70-125			
1,2-Dichloroethane	23.1	0.50	0.28	ug/l	25.0		92	60-140			
1,1-Dichloroethene	20.5	0.50	0.42	ug/l	25.0		82	70-125			
Ethylbenzene	22.6	0.50	0.25	ug/l	25.0		90	75-125			
Tetrachloroethene	23.1	0.50	0.32	ug/l	25.0		92	70-125			
Toluene	22.0	0.50	0.36	ug/l	25.0		88	70-120			
1,1,1-Trichloroethane	21.7	0.50	0.30	ug/l	25.0		87	65-135			
1,1,2-Trichloroethane	22.8	0.50	0.30	ug/l	25.0		91	70-125			
Trichloroethene	24.1	0.50	0.26	ug/l	25.0		97	70-125			
Trichlorofluoromethane	23.1	0.50	0.34	ug/l	25.0		92	65-145			
Vinyl chloride	21.6	0.50	0.40	ug/l	25.0		86	55-135			
Xylenes, Total	68.0	1.5	0.90	ug/l	75.0		91	70-125			
Surrogate: 4-Bromofluorobenzene	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B3030 Extracted: 02/25/10											
LCS Analyzed: 02/25/2010 (10B3030-BS1)											
Surrogate: Dibromofluoromethane	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*26.6*			*ug/l*	*25.0*		*106*	*80-120*			
Matrix Spike Analyzed: 02/25/2010 (10B3030-MS1)						**Source: ITB2521-02**					
Benzene	27.1	0.50	0.28	ug/l	25.0	ND	108	65-125			
Carbon tetrachloride	31.8	0.50	0.28	ug/l	25.0	ND	127	65-140			
Chloroform	28.1	0.50	0.33	ug/l	25.0	ND	112	65-135			
1,1-Dichloroethane	27.6	0.50	0.40	ug/l	25.0	ND	110	65-130			
1,2-Dichloroethane	30.1	0.50	0.28	ug/l	25.0	ND	121	60-140			
1,1-Dichloroethene	26.9	0.50	0.42	ug/l	25.0	ND	108	60-130			
Ethylbenzene	28.2	0.50	0.25	ug/l	25.0	ND	113	65-130			
Tetrachloroethene	28.5	0.50	0.32	ug/l	25.0	ND	114	65-130			
Toluene	28.2	0.50	0.36	ug/l	25.0	ND	113	70-125			
1,1,1-Trichloroethane	28.9	0.50	0.30	ug/l	25.0	ND	116	65-140			
1,1,2-Trichloroethane	29.0	0.50	0.30	ug/l	25.0	ND	116	65-130			
Trichloroethene	30.9	0.50	0.26	ug/l	25.0	ND	124	65-125			
Trichlorofluoromethane	31.2	0.50	0.34	ug/l	25.0	ND	125	60-145			
Vinyl chloride	28.7	0.50	0.40	ug/l	25.0	ND	115	45-140			
Xylenes, Total	84.4	1.5	0.90	ug/l	75.0	ND	113	60-130			
Surrogate: 4-Bromofluorobenzene	*25.9*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Matrix Spike Dup Analyzed: 02/25/2010 (10B3030-MSD1)						**Source: ITB2521-02**					
Benzene	27.3	0.50	0.28	ug/l	25.0	ND	109	65-125	0.7	20	
Carbon tetrachloride	31.8	0.50	0.28	ug/l	25.0	ND	127	65-140	0.2	25	
Chloroform	28.4	0.50	0.33	ug/l	25.0	ND	114	65-135	1	20	
1,1-Dichloroethane	27.5	0.50	0.40	ug/l	25.0	ND	110	65-130	0.4	20	
1,2-Dichloroethane	30.0	0.50	0.28	ug/l	25.0	ND	120	60-140	0.5	20	
1,1-Dichloroethene	27.0	0.50	0.42	ug/l	25.0	ND	108	60-130	0.2	20	
Ethylbenzene	28.5	0.50	0.25	ug/l	25.0	ND	114	65-130	1	20	
Tetrachloroethene	29.6	0.50	0.32	ug/l	25.0	ND	118	65-130	4	20	
Toluene	28.3	0.50	0.36	ug/l	25.0	ND	113	70-125	0.4	20	
1,1,1-Trichloroethane	29.4	0.50	0.30	ug/l	25.0	ND	118	65-140	2	20	
1,1,2-Trichloroethane	29.0	0.50	0.30	ug/l	25.0	ND	116	65-130	0.07	25	
Trichloroethene	31.2	0.50	0.26	ug/l	25.0	ND	125	65-125	0.8	20	

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B3030 Extracted: 02/25/10											
Matrix Spike Dup Analyzed: 02/25/2010 (10B3030-MSD1)						**Source: ITB2521-02**					
Trichlorofluoromethane	30.9	0.50	0.34	ug/l	25.0	ND	123	60-145	0.9	25	
Vinyl chloride	29.4	0.50	0.40	ug/l	25.0	ND	117	45-140	2	30	
Xylenes, Total	85.1	1.5	0.90	ug/l	75.0	ND	113	60-130	0.8	20	
Surrogate: 4-Bromofluorobenzene	*26.1*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Dibromofluoromethane	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*26.1*			*ug/l*	*25.0*		*104*	*80-120*			
Batch: 10B3034 Extracted: 02/25/10											
Blank Analyzed: 02/25/2010 (10B3034-BLK1)											
Benzene	ND	0.50	0.28	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
1,1-Dichloroethane	ND	0.50	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Surrogate: 4-Bromofluorobenzene	*24.4*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Dibromofluoromethane	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			

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Report Number: ITB2185

Sampled: 02/20/10
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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B3034 Extracted: 02/25/10											
LCS Analyzed: 02/25/2010 (10B3034-BS1)											
Benzene	21.6	0.50	0.28	ug/l	25.0		86	70-120			
Carbon tetrachloride	22.3	0.50	0.28	ug/l	25.0		89	65-140			
Chloroform	22.8	0.50	0.33	ug/l	25.0		91	70-130			
1,1-Dichloroethane	22.4	0.50	0.40	ug/l	25.0		90	70-125			
1,2-Dichloroethane	22.8	0.50	0.28	ug/l	25.0		91	60-140			
1,1-Dichloroethene	22.4	0.50	0.42	ug/l	25.0		90	70-125			
Ethylbenzene	23.0	0.50	0.25	ug/l	25.0		92	75-125			
Tetrachloroethene	23.0	0.50	0.32	ug/l	25.0		92	70-125			
Toluene	22.9	0.50	0.36	ug/l	25.0		92	70-120			
1,1,1-Trichloroethane	22.4	0.50	0.30	ug/l	25.0		90	65-135			
1,1,2-Trichloroethane	24.3	0.50	0.30	ug/l	25.0		97	70-125			
Trichloroethene	23.2	0.50	0.26	ug/l	25.0		93	70-125			
Trichlorofluoromethane	22.8	0.50	0.34	ug/l	25.0		91	65-145			
Vinyl chloride	18.2	0.50	0.40	ug/l	25.0		73	55-135			
Xylenes, Total	72.8	1.5	0.90	ug/l	75.0		97	70-125			
Surrogate: 4-Bromofluorobenzene	*26.2*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Matrix Spike Analyzed: 02/25/2010 (10B3034-MS1)						**Source: ITB2185-01**					
Benzene	23.4	0.50	0.28	ug/l	25.0	ND	94	65-125			
Carbon tetrachloride	24.1	0.50	0.28	ug/l	25.0	ND	96	65-140			
Chloroform	24.5	0.50	0.33	ug/l	25.0	ND	98	65-135			
1,1-Dichloroethane	24.5	0.50	0.40	ug/l	25.0	ND	98	65-130			
1,2-Dichloroethane	24.7	0.50	0.28	ug/l	25.0	ND	99	60-140			
1,1-Dichloroethene	24.7	0.50	0.42	ug/l	25.0	ND	99	60-130			
Ethylbenzene	24.8	0.50	0.25	ug/l	25.0	ND	99	65-130			
Tetrachloroethene	24.8	0.50	0.32	ug/l	25.0	ND	99	65-130			
Toluene	24.2	0.50	0.36	ug/l	25.0	ND	97	70-125			
1,1,1-Trichloroethane	24.2	0.50	0.30	ug/l	25.0	ND	97	65-140			
1,1,2-Trichloroethane	25.5	0.50	0.30	ug/l	25.0	ND	102	65-130			
Trichloroethene	25.1	0.50	0.26	ug/l	25.0	ND	100	65-125			
Trichlorofluoromethane	25.9	0.50	0.34	ug/l	25.0	ND	103	60-145			
Vinyl chloride	22.2	0.50	0.40	ug/l	25.0	ND	89	45-140			
Xylenes, Total	78.8	1.5	0.90	ug/l	75.0	ND	105	60-130			
Surrogate: 4-Bromofluorobenzene	*25.9*			*ug/l*	*25.0*		*104*	*80-120*			

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Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B3034 Extracted: 02/25/10											
Matrix Spike Analyzed: 02/25/2010 (10B3034-MS1)						**Source: ITB2185-01**					
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.9*			*ug/l*	*25.0*		*108*	*80-120*			
Matrix Spike Dup Analyzed: 02/25/2010 (10B3034-MSD1)						**Source: ITB2185-01**					
Benzene	23.1	0.50	0.28	ug/l	25.0	ND	92	65-125	1	20	
Carbon tetrachloride	24.2	0.50	0.28	ug/l	25.0	ND	97	65-140	0.5	25	
Chloroform	24.3	0.50	0.33	ug/l	25.0	ND	97	65-135	0.6	20	
1,1-Dichloroethane	23.8	0.50	0.40	ug/l	25.0	ND	95	65-130	3	20	
1,2-Dichloroethane	24.5	0.50	0.28	ug/l	25.0	ND	98	60-140	0.7	20	
1,1-Dichloroethene	24.2	0.50	0.42	ug/l	25.0	ND	97	60-130	2	20	
Ethylbenzene	24.3	0.50	0.25	ug/l	25.0	ND	97	65-130	2	20	
Tetrachloroethene	24.5	0.50	0.32	ug/l	25.0	ND	98	65-130	1	20	
Toluene	24.2	0.50	0.36	ug/l	25.0	ND	97	70-125	0.1	20	
1,1,1-Trichloroethane	23.4	0.50	0.30	ug/l	25.0	ND	94	65-140	3	20	
1,1,2-Trichloroethane	25.7	0.50	0.30	ug/l	25.0	ND	103	65-130	0.8	25	
Trichloroethene	24.7	0.50	0.26	ug/l	25.0	ND	99	65-125	2	20	
Trichlorofluoromethane	25.3	0.50	0.34	ug/l	25.0	ND	101	60-145	2	25	
Vinyl chloride	21.6	0.50	0.40	ug/l	25.0	ND	86	45-140	3	30	
Xylenes, Total	76.4	1.5	0.90	ug/l	75.0	ND	102	60-130	3	20	
Surrogate: 4-Bromofluorobenzene	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*26.2*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2756 Extracted: 02/23/10											
Blank Analyzed: 02/26/2010 (10B2756-BLK1)											
Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
2,4-Dinitrotoluene	ND	9.0	0.20	ug/l							
N-Nitrosodimethylamine	ND	8.0	0.10	ug/l							
Pentachlorophenol	ND	8.0	0.10	ug/l							
2,4,6-Trichlorophenol	ND	6.0	0.10	ug/l							
Surrogate: 2,4,6-Tribromophenol	*15.4*			*ug/l*	*20.0*		*77*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*7.70*			*ug/l*	*10.0*		*77*	*50-120*			
Surrogate: 2-Fluorophenol	*14.2*			*ug/l*	*20.0*		*71*	*30-120*			
Surrogate: Nitrobenzene-d5	*8.88*			*ug/l*	*10.0*		*89*	*45-120*			
Surrogate: Phenol-d6	*15.1*			*ug/l*	*20.0*		*76*	*35-120*			
Surrogate: Terphenyl-d14	*10.2*			*ug/l*	*10.0*		*102*	*50-125*			
LCS Analyzed: 02/26/2010 (10B2756-BS1)											**MNR1**
Bis(2-ethylhexyl)phthalate	10.1	5.0	1.7	ug/l	10.0		101	65-130			
2,4-Dinitrotoluene	8.42	9.0	0.20	ug/l	10.0		84	65-120			*J*
N-Nitrosodimethylamine	7.28	8.0	0.10	ug/l	10.0		73	45-120			*J*
Pentachlorophenol	6.88	8.0	0.10	ug/l	10.0		69	50-120			*J*
2,4,6-Trichlorophenol	7.34	6.0	0.10	ug/l	10.0		73	55-120			
Surrogate: 2,4,6-Tribromophenol	*16.5*			*ug/l*	*20.0*		*82*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*7.38*			*ug/l*	*10.0*		*74*	*50-120*			
Surrogate: 2-Fluorophenol	*12.5*			*ug/l*	*20.0*		*63*	*30-120*			
Surrogate: Nitrobenzene-d5	*7.96*			*ug/l*	*10.0*		*80*	*45-120*			
Surrogate: Phenol-d6	*14.1*			*ug/l*	*20.0*		*70*	*35-120*			
Surrogate: Terphenyl-d14	*8.82*			*ug/l*	*10.0*		*88*	*50-125*			
LCS Dup Analyzed: 02/26/2010 (10B2756-BSD1)											
Bis(2-ethylhexyl)phthalate	10.2	5.0	1.7	ug/l	10.0		102	65-130	1	20	
2,4-Dinitrotoluene	8.30	9.0	0.20	ug/l	10.0		83	65-120	1	20	*J*
N-Nitrosodimethylamine	6.80	8.0	0.10	ug/l	10.0		68	45-120	7	20	*J*
Pentachlorophenol	6.64	8.0	0.10	ug/l	10.0		66	50-120	4	25	*J*
2,4,6-Trichlorophenol	6.76	6.0	0.10	ug/l	10.0		68	55-120	8	30	
Surrogate: 2,4,6-Tribromophenol	*16.2*			*ug/l*	*20.0*		*81*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*6.82*			*ug/l*	*10.0*		*68*	*50-120*			
Surrogate: 2-Fluorophenol	*10.8*			*ug/l*	*20.0*		*54*	*30-120*			
Surrogate: Nitrobenzene-d5	*7.52*			*ug/l*	*10.0*		*75*	*45-120*			
Surrogate: Phenol-d6	*12.0*			*ug/l*	*20.0*		*60*	*35-120*			

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Sampled: 02/20/10
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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2756 Extracted: 02/23/10											
LCS Dup Analyzed: 02/26/2010 (10B2756-BSD1)											
Surrogate: Terphenyl-d14	*8.96*			*ug/l*	*10.0*		*90*	*50-125*			

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ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2866 Extracted: 02/24/10											
Blank Analyzed: 02/24/2010 (10B2866-BLK1)											
alpha-BHC	ND	0.010	0.0025	ug/l							
Surrogate: Decachlorobiphenyl	*0.402*			*ug/l*	*0.500*		*80*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.381*			*ug/l*	*0.500*		*76*	*35-115*			
LCS Analyzed: 02/24/2010 (10B2866-BS1)											**MNR1**
alpha-BHC	0.381	0.010	0.0025	ug/l	0.500		76	45-115			
Surrogate: Decachlorobiphenyl	*0.410*			*ug/l*	*0.500*		*82*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.371*			*ug/l*	*0.500*		*74*	*35-115*			
LCS Dup Analyzed: 02/24/2010 (10B2866-BSD1)											
alpha-BHC	0.394	0.010	0.0025	ug/l	0.500		79	45-115	3	30	
Surrogate: Decachlorobiphenyl	*0.388*			*ug/l*	*0.500*		*78*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.383*			*ug/l*	*0.500*		*77*	*35-115*			

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METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C0035 Extracted: 03/01/10											
Blank Analyzed: 03/01/2010 (10C0035-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 03/01/2010 (10C0035-BS1)											**MNR1**
Hexane Extractable Material (Oil & Grease)	20.3	5.0	1.4	mg/l	20.0		102	78-114			
LCS Dup Analyzed: 03/01/2010 (10C0035-BSD1)											
Hexane Extractable Material (Oil & Grease)	20.7	5.0	1.4	mg/l	20.0		104	78-114	2	11	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2838 Extracted: 02/23/10											
Blank Analyzed: 02/25/2010 (10B2838-BLK1)											
Arsenic	ND	1.0	0.90	ug/l							
Beryllium	ND	0.50	0.10	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Chromium	ND	2.0	0.90	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
Nickel	ND	2.0	0.50	ug/l							
Selenium	ND	2.0	0.50	ug/l							
LCS Analyzed: 02/25/2010 (10B2838-BS1)											
Arsenic	82.8	1.0	0.90	ug/l	80.0		104	85-115			
Beryllium	82.8	0.50	0.10	ug/l	80.0		103	85-115			
Cadmium	82.5	1.0	0.10	ug/l	80.0		103	85-115			
Chromium	85.1	2.0	0.90	ug/l	80.0		106	85-115			
Copper	85.9	2.0	0.50	ug/l	80.0		107	85-115			
Lead	82.4	1.0	0.20	ug/l	80.0		103	85-115			
Nickel	87.9	2.0	0.50	ug/l	80.0		110	85-115			
Selenium	84.7	2.0	0.50	ug/l	80.0		106	85-115			
Matrix Spike Analyzed: 02/25/2010 (10B2838-MS1)						**Source: ITB1988-01**					
Arsenic	82.7	1.0	0.90	ug/l	80.0	ND	103	70-130			
Beryllium	89.8	0.50	0.10	ug/l	80.0	ND	112	70-130			
Cadmium	81.9	1.0	0.10	ug/l	80.0	ND	102	70-130			
Chromium	86.2	2.0	0.90	ug/l	80.0	ND	108	70-130			
Copper	97.9	2.0	0.50	ug/l	80.0	9.13	111	70-130			
Lead	78.6	1.0	0.20	ug/l	80.0	1.00	97	70-130			
Nickel	88.3	2.0	0.50	ug/l	80.0	0.712	109	70-130			
Selenium	82.5	2.0	0.50	ug/l	80.0	0.555	102	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: 10B2838 Extracted: 02/23/10											
Matrix Spike Analyzed: 02/25/2010 (10B2838-MS2)						**Source: ITB2030-01**					
Arsenic	85.9	1.0	0.90	ug/l	80.0	1.89	105	70-130			
Beryllium	93.3	0.50	0.10	ug/l	80.0	ND	117	70-130			
Cadmium	81.1	1.0	0.10	ug/l	80.0	ND	101	70-130			
Chromium	88.0	2.0	0.90	ug/l	80.0	ND	110	70-130			
Copper	81.0	2.0	0.50	ug/l	80.0	2.67	98	70-130			
Lead	81.0	1.0	0.20	ug/l	80.0	ND	101	70-130			
Nickel	83.8	2.0	0.50	ug/l	80.0	3.17	101	70-130			
Selenium	88.9	2.0	0.50	ug/l	80.0	4.20	106	70-130			
Matrix Spike Dup Analyzed: 02/25/2010 (10B2838-MSD1)						**Source: ITB1988-01**					
Arsenic	84.6	1.0	0.90	ug/l	80.0	ND	106	70-130	2	20	
Beryllium	92.6	0.50	0.10	ug/l	80.0	ND	116	70-130	3	20	
Cadmium	82.2	1.0	0.10	ug/l	80.0	ND	103	70-130	0.4	20	
Chromium	87.5	2.0	0.90	ug/l	80.0	ND	109	70-130	2	20	
Copper	93.6	2.0	0.50	ug/l	80.0	9.13	106	70-130	4	20	
Lead	81.3	1.0	0.20	ug/l	80.0	1.00	100	70-130	3	20	
Nickel	88.6	2.0	0.50	ug/l	80.0	0.712	110	70-130	0.3	20	
Selenium	84.0	2.0	0.50	ug/l	80.0	0.555	104	70-130	2	20	
Batch: 10B2851 Extracted: 02/23/10											
Blank Analyzed: 02/25/2010 (10B2851-BLK1)											
Barium	ND	0.010	0.0060	mg/l							
Iron	ND	0.040	0.015	mg/l							
Zinc	ND	20	6.0	ug/l							
LCS Analyzed: 02/25/2010 (10B2851-BS1)											
Barium	0.503	0.010	0.0060	mg/l	0.500		101	85-115			
Iron	0.497	0.040	0.015	mg/l	0.500		99	85-115			
Zinc	494	20	6.0	ug/l	500		99	85-115			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2851 Extracted: 02/23/10											
Matrix Spike Analyzed: 02/25/2010 (10B2851-MS1)						**Source: ITB2172-03**					
Barium	0.678	0.010	0.0060	mg/l	0.500	0.173	101	70-130			
Iron	0.511	0.040	0.015	mg/l	0.500	0.0181	99	70-130			
Zinc	521	20	6.0	ug/l	500	14.0	101	70-130			
Matrix Spike Dup Analyzed: 02/25/2010 (10B2851-MSD1)						**Source: ITB2172-03**					
Barium	0.682	0.010	0.0060	mg/l	0.500	0.173	102	70-130	0.5	20	
Iron	0.513	0.040	0.015	mg/l	0.500	0.0181	99	70-130	0.3	20	
Zinc	501	20	6.0	ug/l	500	14.0	97	70-130	4	20	
Batch: 10B3105 Extracted: 02/25/10											
Blank Analyzed: 02/25/2010 (10B3105-BLK1)											
Mercury	ND	0.20	0.10	ug/l							
LCS Analyzed: 02/25/2010 (10B3105-BS1)											
Mercury	7.51	0.20	0.10	ug/l	8.00		94	85-115			
Matrix Spike Analyzed: 02/25/2010 (10B3105-MS1)						**Source: ITB2155-01**					
Mercury	7.44	0.20	0.10	ug/l	8.00	ND	93	70-130			
Matrix Spike Dup Analyzed: 02/25/2010 (10B3105-MSD1)						**Source: ITB2155-01**					
Mercury	7.64	0.20	0.10	ug/l	8.00	ND	96	70-130	3	20	
Batch: 10C0098 Extracted: 03/01/10											
Blank Analyzed: 03/02/2010 (10C0098-BLK1)											
Manganese	ND	1.0	0.70	ug/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C0098 Extracted: 03/01/10											
LCS Analyzed: 03/02/2010 (10C0098-BS1)											
Manganese	85.3	1.0	0.70	ug/l	80.0		107	85-115			
Matrix Spike Analyzed: 03/02/2010 (10C0098-MS1)						**Source: ITB2185-03**					
Manganese	90.6	1.0	0.70	ug/l	80.0	6.20	106	70-130			
Selenium	85.6	2.0	0.50	ug/l	80.0	ND	107	70-130			
Matrix Spike Dup Analyzed: 03/02/2010 (10C0098-MSD1)						**Source: ITB2185-03**					
Manganese	91.9	1.0	0.70	ug/l	80.0	6.20	107	70-130	1	20	
Selenium	85.0	2.0	0.50	ug/l	80.0	ND	106	70-130	0.7	20	

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Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2705 Extracted: 02/22/10											
Blank Analyzed: 02/23/2010-02/24/2010 (10B2705-BLK1)											
Arsenic	ND	1.0	0.90	ug/l							
Beryllium	ND	0.50	0.10	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Chromium	3.66	2.0	0.90	ug/l							*B*
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
Manganese	ND	1.0	0.70	ug/l							
Nickel	1.05	2.0	0.50	ug/l							*J*
Selenium	ND	2.0	0.50	ug/l							
LCS Analyzed: 02/23/2010-02/24/2010 (10B2705-BS1)											
Arsenic	76.8	1.0	0.90	ug/l	80.0		96	85-115			
Beryllium	90.3	0.50	0.10	ug/l	80.0		113	85-115			
Cadmium	75.8	1.0	0.10	ug/l	80.0		95	85-115			
Chromium	84.8	2.0	0.90	ug/l	80.0		106	85-115			
Copper	82.3	2.0	0.50	ug/l	80.0		103	85-115			
Lead	85.6	1.0	0.20	ug/l	80.0		107	85-115			
Manganese	83.4	1.0	0.70	ug/l	80.0		104	85-115			
Nickel	82.0	2.0	0.50	ug/l	80.0		102	85-115			
Selenium	72.0	2.0	0.50	ug/l	80.0		90	85-115			
Matrix Spike Analyzed: 02/23/2010-02/24/2010 (10B2705-MS1)						**Source: ITB1886-01**					
Arsenic	79.9	1.0	0.90	ug/l	80.0	1.10	99	70-130			
Beryllium	86.5	0.50	0.10	ug/l	80.0	ND	108	70-130			
Cadmium	74.3	1.0	0.10	ug/l	80.0	ND	93	70-130			
Chromium	87.6	2.0	0.90	ug/l	80.0	1.40	108	70-130			
Copper	80.3	2.0	0.50	ug/l	80.0	1.28	99	70-130			
Lead	79.4	1.0	0.20	ug/l	80.0	0.445	99	70-130			
Manganese	83.0	1.0	0.70	ug/l	80.0	1.29	102	70-130			
Nickel	83.9	2.0	0.50	ug/l	80.0	3.87	100	70-130			
Selenium	71.9	2.0	0.50	ug/l	80.0	ND	90	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: 10B2705 Extracted: 02/22/10											
Matrix Spike Analyzed: 02/23/2010-02/24/2010 (10B2705-MS2)						**Source: ITB1774-03**					
Arsenic	83.9	1.0	0.90	ug/l	80.0	3.57	100	70-130			
Beryllium	96.5	0.50	0.10	ug/l	80.0	ND	121	70-130			
Cadmium	73.8	1.0	0.10	ug/l	80.0	ND	92	70-130			
Chromium	88.0	2.0	0.90	ug/l	80.0	0.978	109	70-130			
Copper	84.9	2.0	0.50	ug/l	80.0	4.26	101	70-130			
Lead	82.7	1.0	0.20	ug/l	80.0	0.324	103	70-130			
Manganese	84.8	1.0	0.70	ug/l	80.0	ND	106	70-130			
Nickel	85.5	2.0	0.50	ug/l	80.0	2.70	103	70-130			
Selenium	73.7	2.0	0.50	ug/l	80.0	0.955	91	70-130			
Matrix Spike Dup Analyzed: 02/23/2010-02/24/2010 (10B2705-MSD1)						**Source: ITB1886-01**					
Arsenic	80.5	1.0	0.90	ug/l	80.0	1.10	99	70-130	0.7	20	
Beryllium	90.4	0.50	0.10	ug/l	80.0	ND	113	70-130	4	20	
Cadmium	75.0	1.0	0.10	ug/l	80.0	ND	94	70-130	0.9	20	
Chromium	87.5	2.0	0.90	ug/l	80.0	1.40	108	70-130	0.1	20	
Copper	82.6	2.0	0.50	ug/l	80.0	1.28	102	70-130	3	20	
Lead	80.4	1.0	0.20	ug/l	80.0	0.445	100	70-130	1	20	
Manganese	84.5	1.0	0.70	ug/l	80.0	1.29	104	70-130	2	20	
Nickel	86.3	2.0	0.50	ug/l	80.0	3.87	103	70-130	3	20	
Selenium	72.7	2.0	0.50	ug/l	80.0	ND	91	70-130	1	20	
Batch: 10B2911 Extracted: 02/24/10											
Blank Analyzed: 02/24/2010 (10B2911-BLK1)											
Barium	ND	0.010	0.0060	mg/l							
Iron	ND	0.040	0.015	mg/l							
Zinc	ND	20	6.0	ug/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2911 Extracted: 02/24/10											
LCS Analyzed: 02/24/2010 (10B2911-BS1)											
Barium	0.502	0.010	0.0060	mg/l	0.500		100	85-115			
Iron	0.486	0.040	0.015	mg/l	0.500		97	85-115			
Zinc	494	20	6.0	ug/l	500		99	85-115			
Matrix Spike Analyzed: 02/24/2010 (10B2911-MS1)						**Source: ITB2399-01**					
Barium	0.529	0.010	0.0060	mg/l	0.500	0.0321	99	70-130			
Iron	0.540	0.040	0.015	mg/l	0.500	0.0627	95	70-130			
Zinc	497	20	6.0	ug/l	500	8.06	98	70-130			
Matrix Spike Dup Analyzed: 02/24/2010 (10B2911-MSD1)						**Source: ITB2399-01**					
Barium	0.524	0.010	0.0060	mg/l	0.500	0.0321	98	70-130	0.9	20	
Iron	0.533	0.040	0.015	mg/l	0.500	0.0627	94	70-130	1	20	
Zinc	493	20	6.0	ug/l	500	8.06	97	70-130	0.7	20	
Batch: 10B2963 Extracted: 02/24/10											
Blank Analyzed: 02/24/2010 (10B2963-BLK1)											
Mercury	ND	0.20	0.10	ug/l							
LCS Analyzed: 02/24/2010 (10B2963-BS1)											
Mercury	8.36	0.20	0.10	ug/l	8.00		104	85-115			
Matrix Spike Analyzed: 02/24/2010 (10B2963-MS1)						**Source: ITB2365-01**					
Mercury	8.21	0.20	0.10	ug/l	8.00	ND	103	70-130			
Matrix Spike Dup Analyzed: 02/24/2010 (10B2963-MSD1)						**Source: ITB2365-01**					
Mercury	8.21	0.20	0.10	ug/l	8.00	ND	103	70-130	0.02	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: 10B2502 Extracted: 02/20/10											
Blank Analyzed: 02/20/2010 (10B2502-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
LCS Analyzed: 02/20/2010 (10B2502-BS1)											
Chloride	4.74	0.50	0.25	mg/l	5.00		95	90-110			
Nitrate-N	1.11	0.11	0.060	mg/l	1.13		98	90-110			
Nitrite-N	1.46	0.15	0.090	mg/l	1.52		96	90-110			
Matrix Spike Analyzed: 02/20/2010 (10B2502-MS1)						**Source: ITB2033-01**					
Chloride	215	10	5.0	mg/l	50.0	168	95	80-120			
Nitrate-N	11.5	2.2	1.2	mg/l	11.3	ND	102	80-120			
Nitrite-N	15.7	3.0	1.8	mg/l	15.2	ND	103	80-120			
Matrix Spike Dup Analyzed: 02/20/2010 (10B2502-MSD1)						**Source: ITB2033-01**					
Chloride	217	10	5.0	mg/l	50.0	168	98	80-120	0.7	20	
Nitrate-N	11.6	2.2	1.2	mg/l	11.3	ND	103	80-120	0.7	20	
Nitrite-N	15.8	3.0	1.8	mg/l	15.2	ND	104	80-120	0.4	20	
Batch: 10B2513 Extracted: 02/20/10											
Blank Analyzed: 02/20/2010 (10B2513-BLK1)											
Turbidity	0.0900	1.0	0.040	NTU							*J*
Duplicate Analyzed: 02/20/2010 (10B2513-DUP1)						**Source: ITB2133-01**					
Turbidity	0.220	1.0	0.040	NTU		0.240			9	20	*J*

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2530 Extracted: 02/20/10											
Blank Analyzed: 02/25/2010 (10B2530-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.50	mg/l							
LCS Analyzed: 02/25/2010 (10B2530-BS1)											
Biochemical Oxygen Demand	204	100	25	mg/l	198		103	85-115			
LCS Dup Analyzed: 02/25/2010 (10B2530-BSD1)											
Biochemical Oxygen Demand	190	100	25	mg/l	198		96	85-115	7	20	
Batch: 10B2585 Extracted: 02/21/10											
Blank Analyzed: 02/21/2010 (10B2585-BLK1)											
Surfactants (MBAS)	ND	0.10	0.050	mg/l							
LCS Analyzed: 02/21/2010 (10B2585-BS1)											
Surfactants (MBAS)	0.244	0.10	0.050	mg/l	0.250		97	90-110			
Matrix Spike Analyzed: 02/21/2010 (10B2585-MS1)						**Source: ITB2185-03**					
Surfactants (MBAS)	0.351	0.10	0.050	mg/l	0.250	0.0929	103	50-125			
Matrix Spike Dup Analyzed: 02/21/2010 (10B2585-MSD1)						**Source: ITB2185-03**					
Surfactants (MBAS)	0.346	0.10	0.050	mg/l	0.250	0.0929	101	50-125	1	20	
Batch: 10B2589 Extracted: 02/22/10											
Blank Analyzed: 02/22/2010 (10B2589-BLK1)											
Specific Conductance	ND	1.0	1.0	umhos/cm							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2589 Extracted: 02/22/10											
LCS Analyzed: 02/22/2010 (10B2589-BS1)											
Specific Conductance	1420	1.0	1.0	umhos/cm	1410		101	90-110			
Duplicate Analyzed: 02/22/2010 (10B2589-DUP1)						**Source: ITB1908-01**					
Specific Conductance	817	1.0	1.0	umhos/cm		819			0.2	5	
Batch: 10B2593 Extracted: 02/22/10											
Blank Analyzed: 02/22/2010 (10B2593-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 02/22/2010 (10B2593-BS1)											
Perchlorate	23.6	4.0	0.90	ug/l	25.0		94	85-115			
Matrix Spike Analyzed: 02/22/2010 (10B2593-MS1)						**Source: ITB2054-01**					
Perchlorate	26.4	4.0	0.90	ug/l	25.0	2.12	97	80-120			
Matrix Spike Dup Analyzed: 02/22/2010 (10B2593-MSD1)						**Source: ITB2054-01**					
Perchlorate	26.6	4.0	0.90	ug/l	25.0	2.12	98	80-120	0.7	20	
Batch: 10B2626 Extracted: 02/22/10											
Blank Analyzed: 02/22/2010 (10B2626-BLK1)											
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/22/2010 (10B2626-BS1)											
Sulfate	10.1	0.50	0.20	mg/l	10.0		101	90-110			*M-3*

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2626 Extracted: 02/22/10											
Matrix Spike Analyzed: 02/22/2010 (10B2626-MS1)						**Source: ITB2131-01**					
Sulfate	349	10	4.0	mg/l	100	264	86	80-120			
Matrix Spike Dup Analyzed: 02/22/2010 (10B2626-MSD1)						**Source: ITB2131-01**					
Sulfate	348	10	4.0	mg/l	100	264	84	80-120	0.5	20	
Batch: 10B2723 Extracted: 02/23/10											
Blank Analyzed: 02/23/2010 (10B2723-BLK1)											
Total Dissolved Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/23/2010 (10B2723-BS1)											
Total Dissolved Solids	1000	10	1.0	mg/l	1000		100	90-110			
Duplicate Analyzed: 02/23/2010 (10B2723-DUP1)						**Source: ITB2031-02**					
Total Dissolved Solids	315	10	1.0	mg/l		313			0.6	10	
Batch: 10B2988 Extracted: 02/24/10											
Blank Analyzed: 02/24/2010 (10B2988-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 02/24/2010 (10B2988-BS1)											
Total Cyanide	202	5.0	2.2	ug/l	200		101	90-110			
Matrix Spike Analyzed: 02/24/2010 (10B2988-MS1)						**Source: ITB2422-01**					
Total Cyanide	195	5.0	2.2	ug/l	200	2.32	96	70-115			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2988 Extracted: 02/24/10											
Matrix Spike Dup Analyzed: 02/24/2010 (10B2988-MSD1)						**Source: ITB2422-01**					
Total Cyanide	194	5.0	2.2	ug/l	200	2.32	96	70-115	0.5	15	
Batch: 10B2996 Extracted: 02/24/10											
Blank Analyzed: 02/24/2010 (10B2996-BLK1)											
Total Suspended Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/24/2010 (10B2996-BS1)											
Total Suspended Solids	997	10	1.0	mg/l	1000		100	85-115			
Duplicate Analyzed: 02/24/2010 (10B2996-DUP1)						**Source: ITB2465-01**					
Total Suspended Solids	29.0	10	1.0	mg/l		28.0			4	10	
Batch: 10C0225 Extracted: 03/02/10											
Blank Analyzed: 03/02/2010 (10C0225-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.50	mg/l							
LCS Analyzed: 03/02/2010 (10C0225-BS1)											
Ammonia-N (Distilled)	10.4	0.50	0.50	mg/l	10.0		104	80-115			
Matrix Spike Analyzed: 03/02/2010 (10C0225-MS1)						**Source: ITB2713-01**					
Ammonia-N (Distilled)	9.80	0.50	0.50	mg/l	10.0	ND	98	70-120			
Matrix Spike Dup Analyzed: 03/02/2010 (10C0225-MSD1)						**Source: ITB2713-01**					
Ammonia-N (Distilled)	9.80	0.50	0.50	mg/l	10.0	ND	98	70-120	0	15	

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METHOD BLANK/QC DATA

ASTM 5174-91

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 67296 Extracted: 03/10/10											
Matrix Spike Dup Analyzed: 03/12/2010 (F0B230452001D)						**Source: ITB2185-03**					
Total Uranium	26.9	0.7	0.2	pCi/L	27.7	0.677	95	62-150	4	20	
Matrix Spike Analyzed: 03/12/2010 (F0B230452001S)						**Source: ITB2185-03**					
Total Uranium	28.1	0.7	0.2	pCi/L	27.7	0.677	99	62-150			
Blank Analyzed: 03/12/2010 (F0C080000296B)						**Source:**					
Total Uranium	0.315	0.693	0.21	pCi/L				-			*Jb*
LCS Analyzed: 03/12/2010 (F0C080000296C)						**Source:**					
Total Uranium	28.6	0.7	0.2	pCi/L	27.7		103	90-120			

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METHOD BLANK/QC DATA

EPA 900.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 62110 Extracted: 03/03/10											
Matrix Spike Analyzed: 03/07/2010 (F0B230452001S)						**Source: ITB2185-03**					
Gross Alpha	45.6	3	2	pCi/L	52.0	-0.12	88	35-150			
Gross Beta	84.5	4	1.2	pCi/L	71.6	3.5	113	54-150			
Duplicate Analyzed: 03/07/2010 (F0B230452001X)						**Source: ITB2185-03**					
Gross Alpha	0.8	3	2.1	pCi/L		-0.12		-			*U*
Gross Beta	2.12	4	1.2	pCi/L		3.5		-			*Jb*
Blank Analyzed: 03/08/2010 (F0C030000110B)						**Source:**					
Gross Alpha	0.25	2	0.79	pCi/L				-			*U*
Gross Beta	-0.44	4	1.5	pCi/L				-			*U*
LCS Analyzed: 03/08/2010 (F0C030000110C)						**Source:**					
Gross Alpha	49.2	3	0.9	pCi/L	49.4		100	62-134			
Gross Beta	70	4	1.5	pCi/L	68.0		103	58-133			

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METHOD BLANK/QC DATA

EPA 901.1 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 55101 Extracted: 02/24/10											
Duplicate Analyzed: 03/12/2010 (F0B230452001X)						**Source: ITB2185-03**					
Cesium 137	-1.6	20	15	pCi/L		-1		-			*U*
Potassium 40	-20	NA	240	pCi/L		-30		-			*U*
Blank Analyzed: 03/11/2010 (F0B240000101B)						**Source:**					
Cesium 137	-4	20	19	pCi/L				-			*U*
Potassium 40	-10	NA	220	pCi/L				-			*U*
LCS Analyzed: 03/12/2010 (F0B240000101C)						**Source:**					
Americium 241	142000	NA	600	pCi/L	141000		101	87-110			
Cobalt 60	86900	NA	200	pCi/L	87900		99	89-110			
Cesium 137	52800	20	300	pCi/L	53100		99	90-110			

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

METHOD BLANK/QC DATA

EPA 903.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 55153 Extracted: 02/24/10											
Blank Analyzed: 03/19/2010 (F0B240000153B)						**Source:**					
Radium (226)	0.04	1	0.055	pCi/L				-			*U*
LCS Analyzed: 03/19/2010 (F0B240000153C)						**Source:**					
Radium (226)	11.8	1	0.06	pCi/L	11.3		105	68-136			
LCS Dup Analyzed: 03/19/2010 (F0B240000153L)						**Source:**					
Radium (226)	11.4	1	0.06	pCi/L	11.3		102	68-136	3	40	

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METHOD BLANK/QC DATA

EPA 904 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 55154 Extracted: 02/24/10											
Blank Analyzed: 03/12/2010 (F0B240000154B)						**Source:**					
Radium 228	-0.02	1	0.57	pCi/L				-			*U*
LCS Analyzed: 03/12/2010 (F0B240000154C)						**Source:**					
Radium 228	5.73	1	0.54	pCi/L	6.38		90	60-142			
LCS Dup Analyzed: 03/12/2010 (F0B240000154L)						**Source:**					
Radium 228	6.46	1	0.58	pCi/L	6.38		101	60-142	12	40	

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METHOD BLANK/QC DATA

EPA 905 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 55155 Extracted: 02/24/10											
Blank Analyzed: 03/05/2010 (F0B240000155B)						**Source:**					
Strontium 90	-0.03	3	0.46	pCi/L				-			*U*
LCS Analyzed: 03/05/2010 (F0B240000155C)						**Source:**					
Strontium 90	7.04	3	0.47	pCi/L	6.79		104	80-130			
LCS Dup Analyzed: 03/05/2010 (F0B240000155L)						**Source:**					
Strontium 90	7.2	3	0.46	pCi/L	6.79		106	80-130	2	40	

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METHOD BLANK/QC DATA

EPA 906.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 61038 Extracted: 03/02/10											
Duplicate Analyzed: 03/03/2010 (F0B230452001X)						**Source: ITB2185-03**					
Tritium	-46	500	140	pCi/L		-79		-			*U*
Matrix Spike Analyzed: 03/03/2010 (F0B230454001S)						**Source: F0B230454001**					
Tritium	4210	500	140	pCi/L	4520	82	91	62-147			
Blank Analyzed: 03/03/2010 (F0C020000038B)						**Source:**					
Tritium	112	500	140	pCi/L				-			*U*
LCS Analyzed: 03/03/2010 (F0C020000038C)						**Source:**					
Tritium	4270	500	140	pCi/L	4520		94	85-112			

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 57116 Extracted: 02/26/10											
Blank Analyzed: 03/01/2010 (G0B260000116B)						**Source:**					
1,2,3,4,6,7,8-HpCDD	0.0000096	0.00005	0.0000017	ug/L				-			*J*
1,2,3,4,6,7,8-HpCDF	0.0000086	0.00005	0.0000023	ug/L				-			*J, Q*
1,2,3,4,7,8,9-HpCDF	0.0000082	0.00005	0.0000038	ug/L				-			*J*
1,2,3,4,7,8-HxCDD	0.0000049	0.00005	0.0000007	ug/L				-			*J*
1,2,3,4,7,8-HxCDF	0.0000047	0.00005	0.0000011	ug/L				-			*J*
1,2,3,6,7,8-HxCDD	0.0000043	0.00005	0.00000062	ug/L				-			*J*
1,2,3,6,7,8-HxCDF	0.0000044	0.00005	0.00000097	ug/L				-			*J*
1,2,3,7,8,9-HxCDD	0.0000055	0.00005	0.00000059	ug/L				-			*J*
1,2,3,7,8,9-HxCDF	0.0000056	0.00005	0.0000012	ug/L				-			*J*
1,2,3,7,8-PeCDD	0.0000021	0.00005	0.0000006	ug/L				-			*J, Q*
1,2,3,7,8-PeCDF	0.00000091	0.00005	0.00000031	ug/L				-			*J, Q*
2,3,4,6,7,8-HxCDF	0.0000058	0.00005	0.00000097	ug/L				-			*J*
2,3,4,7,8-PeCDF	0.0000033	0.00005	0.00000037	ug/L				-			*J*
2,3,7,8-TCDD	ND	0.00001	0.00000003	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.00000094	ug/L				-			
OCDD	0.000028	0.0001	0.0000015	ug/L				-			*J, Q*
OCDF	0.00002	0.0001	0.0000013	ug/L				-			*J*
Total HpCDD	0.000012	0.00005	0.0000017	ug/L				-			*J, Q*
Total HpCDF	0.000017	0.00005	0.0000023	ug/L				-			*J, Q*
Total HxCDD	0.000015	0.00005	0.00000059	ug/L				-			*J*
Total HxCDF	0.000021	0.00005	0.00000097	ug/L				-			*J*
Total PeCDD	0.0000021	0.00005	0.0000006	ug/L				-			*J, Q*
Total PeCDF	0.0000042	0.00005	0.00000003	ug/L				-			*J, Q*
Total TCDD	ND	0.00001	0.00000003	ug/L				-			
Total TCDF	ND	0.00001	0.00000002	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.0018*			*ug/L*	*0.00200*		*89*	*23-140*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.0018*			*ug/L*	*0.00200*		*88*	*28-143*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.0016*			*ug/L*	*0.00200*		*81*	*26-138*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.0016*			*ug/L*	*0.00200*		*78*	*32-141*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.0017*			*ug/L*	*0.00200*		*83*	*26-152*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.0017*			*ug/L*	*0.00200*		*86*	*28-130*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.0016*			*ug/L*	*0.00200*		*82*	*26-123*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.0017*			*ug/L*	*0.00200*		*83*	*29-147*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.0016*			*ug/L*	*0.00200*		*78*	*25-181*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.0016*			*ug/L*	*0.00200*		*78*	*24-185*			

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Report Number: ITB2185

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 57116 Extracted: 02/26/10											
Blank Analyzed: 03/01/2010 (G0B260000116B)						**Source:**					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.0017*			*ug/L*	*0.00200*		*86*	*28-136*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.0015*			*ug/L*	*0.00200*		*74*	*21-178*			
Surrogate: 13C-2,3,7,8-TCDD	*0.0015*			*ug/L*	*0.00200*		*75*	*25-164*			
Surrogate: 13C-2,3,7,8-TCDF	*0.0015*			*ug/L*	*0.00200*		*74*	*24-169*			
Surrogate: 13C-OCDD	*0.0034*			*ug/L*	*0.00400*		*85*	*17-157*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.00073*			*ug/L*	*0.000800*		*91*	*35-197*			
LCS Analyzed: 03/01/2010 (G0B260000116C)						**Source:**					
1,2,3,4,6,7,8-HpCDD	0.00102	0.00005	0.0000042	ug/L	0.00100		102	70-140			*Ba*
1,2,3,4,6,7,8-HpCDF	0.00105	0.00005	0.0000065	ug/L	0.00100		105	82-122			*Ba*
1,2,3,4,7,8,9-HpCDF	0.00112	0.00005	0.000011	ug/L	0.00100		112	78-138			*Ba*
1,2,3,4,7,8-HxCDD	0.00106	0.00005	0.00000088	ug/L	0.00100		106	70-164			*Ba*
1,2,3,4,7,8-HxCDF	0.0011	0.00005	0.00000088	ug/L	0.00100		110	72-134			*Ba*
1,2,3,6,7,8-HxCDD	0.000966	0.00005	0.00000075	ug/L	0.00100		97	76-134			*Ba*
1,2,3,6,7,8-HxCDF	0.00108	0.00005	0.0000008	ug/L	0.00100		108	84-130			*Ba*
1,2,3,7,8,9-HxCDD	0.00106	0.00005	0.00000072	ug/L	0.00100		106	64-162			*Ba*
1,2,3,7,8,9-HxCDF	0.00104	0.00005	0.00000093	ug/L	0.00100		104	78-130			*Ba*
1,2,3,7,8-PeCDD	0.000998	0.00005	0.000002	ug/L	0.00100		100	70-142			*Ba*
1,2,3,7,8-PeCDF	0.00106	0.00005	0.0000016	ug/L	0.00100		106	80-134			*Ba*
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.00000078	ug/L	0.00100		105	70-156			*Ba*
2,3,4,7,8-PeCDF	0.00113	0.00005	0.0000019	ug/L	0.00100		113	68-160			*Ba*
2,3,7,8-TCDD	0.000194	0.00001	0.00000002	ug/L	0.000200		97	67-158			
2,3,7,8-TCDF	0.000198	0.00001	0.00000034	ug/L	0.000200		99	75-158			
OCDD	0.00203	0.0001	0.000004	ug/L	0.00200		102	78-144			*Ba*
OCDF	0.00196	0.0001	0.0000024	ug/L	0.00200		98	63-170			*Ba*
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.00191*			*ug/L*	*0.00200*		*96*	*26-166*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.00183*			*ug/L*	*0.00200*		*92*	*21-158*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.00174*			*ug/L*	*0.00200*		*87*	*20-186*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.00173*			*ug/L*	*0.00200*		*87*	*21-193*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.00168*			*ug/L*	*0.00200*		*84*	*19-202*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.00167*			*ug/L*	*0.00200*		*84*	*25-163*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.00166*			*ug/L*	*0.00200*		*83*	*21-159*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.0018*			*ug/L*	*0.00200*		*90*	*17-205*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.00175*			*ug/L*	*0.00200*		*87*	*21-227*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.0017*			*ug/L*	*0.00200*		*85*	*21-192*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.00179*			*ug/L*	*0.00200*		*90*	*22-176*			

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 57116 Extracted: 02/26/10											
LCS Analyzed: 03/01/2010 (G0B260000116C)						**Source:**					
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.00161*			*ug/L*	*0.00200*		*80*	*13-328*			
Surrogate: 13C-2,3,7,8-TCDD	*0.00165*			*ug/L*	*0.00200*		*82*	*20-175*			
Surrogate: 13C-2,3,7,8-TCDF	*0.00166*			*ug/L*	*0.00200*		*83*	*22-152*			
Surrogate: 13C-OCDD	*0.0038*			*ug/L*	*0.00400*		*95*	*13-199*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.000771*			*ug/L*	*0.000800*		*96*	*31-191*			

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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
ITB2185-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	0	4.9	15
ITB2185-01	624-Boeing 001/002Q (Fr113+X+Fr	1,1-Dichloroethene	ug/l	0	0.50	6
ITB2185-01	624-Boeing 001/002Q (Fr113+X+Fr	Trichloroethene	ug/l	0.12	0.50	5
ITB2185-01	Cyanide, Total-4500CN-E (5ppb)	Total Cyanide	ug/l	0.18	5.0	8.5
ITB2185-01	Settleable Solids - SM2540F	Total Settleable Solids	ml/l	0.100	0.10	0.3

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
ITB2185-02	624-Boeing 001/002Q (Fr113+X+Fr	1,1-Dichloroethene	ug/l	0	0.50	6
ITB2185-02	624-Boeing 001/002Q (Fr113+X+Fr	Trichloroethene	ug/l	0	0.50	5

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
ITB2185-03	608-Pest Boeing 001/002 Q (LL)	alpha-BHC	ug/l	0	0.0094	0.03
ITB2185-03	625-Boeing 001/002 Q-LL	2,4,6-Trichlorophenol	ug/l	0	5.7	13
ITB2185-03	625-Boeing 001/002 Q-LL	2,4-Dinitrotoluene	ug/l	0	8.6	18
ITB2185-03	625-Boeing 001/002 Q-LL	Bis(2-ethylhexyl)phthalate	ug/l	0.36	4.8	4
ITB2185-03	625-Boeing 001/002 Q-LL	N-Nitrosodimethylamine	ug/l	0	7.6	16
ITB2185-03	625-Boeing 001/002 Q-LL	Pentachlorophenol	ug/l	0	7.6	16
ITB2185-03	Ammonia-N, Titr 4500NH3-C (w/di	Ammonia-N (Distilled)	mg/l	0	0.50	10
ITB2185-03	Arsenic-200.8	Arsenic	ug/l	0	1.0	10
ITB2185-03	Barium-200.7	Barium	mg/l	0.037	0.010	1
ITB2185-03	Beryllium-200.8	Beryllium	ug/l	0.0050	0.50	4
ITB2185-03	BOD - SM5210B	Biochemical Oxygen Demand	mg/l	0.47	2.0	30
ITB2185-03	Cadmium-200.8	Cadmium	ug/l	0.014	1.0	3.1
ITB2185-03	Chloride - 300.0	Chloride	mg/l	16	0.50	150
ITB2185-03	Chromium-200.8	Chromium	ug/l	-1	2.0	16
ITB2185-03	Copper-200.8	Copper	ug/l	1.47	2.0	14

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ITB2185-03	Iron-200.7	Iron	mg/l	0.027	0.040	0.3
ITB2185-03	Lead-200.8	Lead	ug/l	0.048	1.0	5.2
ITB2185-03	Manganese-200.8	Manganese	ug/l	6.20	1.0	50
ITB2185-03	MBAS - SM5540-C	Surfactants (MBAS)	mg/l	0.093	0.10	0.5
ITB2185-03	Nickel-200.8	Nickel	ug/l	1.96	2.0	96
ITB2185-03	Nitrate-N, 300.0	Nitrate-N	mg/l	0.028	0.11	8
ITB2185-03	Nitrite-N, 300.0	Nitrite-N	mg/l	0	0.15	1
ITB2185-03	Nitrogen, NO3+NO2 -N EPA 300.0	Nitrate/Nitrite-N	mg/l	0.028	0.26	8
ITB2185-03	Perchlorate 314.0 - Default	Perchlorate	ug/l	0	4.0	6
ITB2185-03	Selenium-200.8	Selenium	ug/l	0.23	2.0	5
ITB2185-03	Sulfate-300.0	Sulfate	mg/l	151	10	300
ITB2185-03	TDS - SM2540C	Total Dissolved Solids	mg/l	366	10	950
ITB2185-03	TSS - SM2540D	Total Suspended Solids	mg/l	4.00	10	45
ITB2185-03	Zinc-200.7	Zinc	ug/l	4.06	20	120

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
Ba	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
Jb	Result is greater than sample detection limit but less than stated reporting limit.
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
Q	Estimated maximum possible concentration (EMPC).
U	Result is less than the sample detection limit.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Routine Outfall 002

Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water	N/A	N/A
EPA 120.1	Water	X	X
EPA 1664A	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 314.0	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
Filtration	Water	N/A	N/A
SM 2540D	Water	X	X
SM2540C	Water	X	
SM2540F	Water	X	X
SM4500CN-E	Water	X	X
SM4500NH3-C	Water	X	X
SM5210B	Water	X	X
SM5540-C	Water	X	X

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

Subcontracted Laboratories

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Routine Outfall 002
Report Number: ITB2185

Sampled: 02/20/10
Received: 02/20/10

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITB2185-03

Method Performed: EPA 900.0 MOD
Samples: ITB2185-03

Method Performed: EPA 901.1 MOD
Samples: ITB2185-03

Method Performed: EPA 903.0 MOD
Samples: ITB2185-03

Method Performed: EPA 904 MOD
Samples: ITB2185-03

Method Performed: EPA 905 MOD
Samples: ITB2185-03

Method Performed: EPA 906.0 MOD
Samples: ITB2185-03

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B
Samples: ITB2185-03

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

ITB2185

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 002** **GRAB**
Project Manager: Bronwyn Kelly Sampler: SDawson V Vatheuesin	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	VOCs 624 + xylenes	Settleable Solids	Oil & Grease (1664-HEM)	Cyanide (total recoverable)	Conductivity	Total Residual Chlorine									Field readings: (Log in and include in report Temp and pH) Temp °F = 49.1 pH = 8.0 Time of readings = 0900 2/20/10 Comments
							ANALYSIS REQUIRED														
Outfall 002	W	VOAs	5	2/20/10 0900	HCl	1A, 1B, 1C, 1D, 1E	X														
Outfall 002	W	1L Poly	1	↓	None	2		X													
Outfall 002	W	1L Amber	2		HCl	3A, 3B			X												
Outfall 002	W	500 mL Poly	1		NaOH	4				X											
Outfall 002	W	500 mL Poly	2	2/20/10 0900	None	5A, 5B					X										
Trip Blanks	W	VOAs	3	2/20/10 0700	HCl	6A, 6B, 6C	X														
~~Outfall 002~~	~~W~~	~~150 mL Poly~~	~~1~~		None	7															

EW

15:55 2/20/10 NB

SJ

These Samples are the Grab Portion of Outfall 002 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By	Date/Time:	Received By	Date/Time:
	2.20.10 12:45	E Train Figueroa TAI	2.20.10 12:45
Relinquished By	Date/Time:	Received By	Date/Time:
E Train Figueroa	2.20.10 14:38		2/20/10 1438
Relinquished By	Date/Time:	Received By	Date/Time:

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

Sample Integrity: (Check)
Intact: ✓ On Ice: X 4°C

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

CHAIN OF CUSTODY FORM

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

Test America Contact: Joseph Doak

Project:
Boeing-SSFL NPDES
Routine Outfall 002
COMPOSITE

Project Manager: Bronwyn Kelly

Sampler: S Dawson V Vathanagsin

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

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: Cu, Pb, Hg, Cd, Se, Zn, As, Ba, Be, Cr, Fe, Mn, Ni	TCDD (and all congeners)	BOD_5 (20 degrees C)	Surfactants (MBAS)	Cl, SO_4, NO_3+NO_2-N, Perchlorate	Nitrate-N, Nitrite-N	Turbidity, TDS, TSS	Ammonia-N (350.2)	Alpha BHC (608) + Pesticides + PP	2,4,6 TCP, 2,4 Dinitrotoluene, Bis(2-ethylhexyl)phthalate, NDMA, PCP (SVOCs 625)	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1)	Chronic Toxicity	Total Dissolved Metals: Cu, Pb, Hg, Cd, Se, Zn, As, Ba, Be, Fe, Mn, Ni		Comments
Outfall 002	W	1L Poly	1	2/20/10 0149	HNO_3	8A	X														high flow
Outfall 002 Dup	W	1L Poly	1		HNO_3	8B	X														
Outfall 002	W	1L Amber	2		None	9A, 9B		X													
Outfall 002	W	1L Poly	1		None	10			X												
Outfall 002	W	500 mL Poly	2		None	11A, 11B				X								SD			
Outfall 002	W	500 mL Poly	2		None	12A, 12B					X										
Outfall 002	W	500 mL Poly	1		None	13						X									
Outfall 002	W	500 mL Poly	2		None	14A, 14B							X								
Outfall 002	W	500 mL Poly	1		H_2SO_4	15								X							
Outfall 002	W	1L Amber	2		None	16A, 16B									X						
Outfall 002	W	1L Amber	2		None	17A, 17B										X					
Outfall 002	W	2.5 Gal Cube	1		None	18A											X				Unfiltered and unpreserved analysis
		500 mL Amber	1		None	18B															
~~Outfall 002~~	~~W~~	~~4 Gal Cube~~	~~1~~		~~None~~	~~19~~												SD			
Outfall 002	W	1L Poly	1	2/20/10 0149	None	20														X	Filter w/in 24hrs of receipt at lab
		SD																			

COC Page 2 of 2 lists the composite samples for Outfall 002 for this storm event.

These must be added to the same work order for COC Page 1 of 2 for Outfall 002 for the same event.

Relinquished By	Date/Time:	Received By	Date/Time:
	2.20.10 17:45	Adrian Figueroa TAI	2.20.10 17:45
Relinquished By	Date/Time:	Received By	Date/Time:
Adrian Figueroa	2.20.10 14:30		2/20/10 1435
Relinquished By	Date/Time:	Received By	Date/Time:

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

Sample Integrity: (Check)
Intact: _____ On Ice: X 4°C

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. ITB2185

MWH-Pasadena Boeing

Lot #: F0B230452

Joseph Doak

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817

TESTAMERICA LABORATORIES, INC.

Kay Clay
Project Manager

March 19, 2010

Case Narrative
LOT NUMBER: F0B230452

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on February 23, 2010. This sample is associated with your MWH-Pasadena Boeing project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

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

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances
Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There were no nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F0B230452

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Gamma Spectroscopy - Cesium-137 & Hits	EPA 901.1 MOD	
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
H-3 by Distillation & LSC	EPA 906.0 MOD	
Radium-226 by GFPC	EPA 903.0 MOD	
Radium-228 by GFPC	EPA 904 MOD	
Strontium 90 by GFPC	EPA 905 MOD	
Total Uranium By Laser Ph osphorimetry	ASTM 5174-91	

References:

ASTM Annual Book Of ASTM Standards.

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F0B230452

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LV004	001	ITB2185-03	02/20/10	13:49

NOTE(S):

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

TestAmerica Irvine

Client Sample ID: ITB2185-03

Radiochemistry

Lab Sample ID: F0B230452-001
Work Order: LV004
Matrix: WATER

Date Collected: 02/20/10 1349
Date Received: 02/23/10 0910

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	mdc	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD				**pCi/L**	**Batch # 0055101**		**Yld %**
Cesium 137	-1	U	11	20	21	02/24/10	03/12/10
Potassium 40	-30	U	270		280	02/24/10	03/12/10
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 0062110**		**Yld %**
Gross Alpha	-0.12	U	0.90	3.00	2.0	03/03/10	03/07/10
Gross Beta	**3.5**	**J**	**1.0**	4.0	**1.3**	**03/03/10**	**03/07/10**
SR-90 BY GFPC EPA-905 MOD				**pCi/L**	**Batch # 0055155**		**Yld % 84**
Strontium 90	-0.03	U	0.19	3.00	0.34	02/24/10	03/05/10
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**	**Batch # 0061038**		**Yld %**
Tritium	-79	U	52	500	140	03/02/10	03/03/10
Total Uranium by KPA ASTM 5174-91				**pCi/L**	**Batch # 0067296**		**Yld %**
Total Uranium	**0.677**	**J**	**0.074**	0.693	**0.21**	**03/10/10**	**03/12/10**
Radium 226 by EPA 903.0 MOD				**pCi/L**	**Batch # 0055153**		**Yld % 100**
Radium (226)	**0.133**	**J**	**0.052**	1.00	**0.048**	**02/24/10**	**03/19/10**
Radium 228 by GFPC EPA 904 MOD				**pCi/L**	**Batch # 0055154**		**Yld % 96**
Radium 228	-0.07	U	0.21	1.00	0.39	02/24/10	03/12/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0B230452
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date	Lab Sample ID
Gamma Cs-137 & Hits by EPA 901.1 MOD			**pCi/L**	**Batch # 0055101**	**Yld %**			**F0B240000-101B**
Cesium 137	-4	U	11	20	19	02/24/10	03/11/10	
Potassium 40	-10	U	150		220	02/24/10	03/11/10	
Radium 228 by GFPC EPA 904 MOD			**pCi/L**	**Batch # 0055154**	**Yld % 95**			**F0B240000-154B**
Radium 228	-0.02	U	0.33	1.00	0.57	02/24/10	03/12/10	
SR-90 BY GFPC EPA-905 MOD			**pCi/L**	**Batch # 0055155**	**Yld % 84**			**F0B240000-155B**
Strontium 90	-0.03	U	0.26	3.00	0.46	02/24/10	03/05/10	
Radium 226 by EPA 903.0 MOD			**pCi/L**	**Batch # 0055153**	**Yld % 96**			**F0B240000-153B**
Radium (226)	0.040	U	0.037	1.00	0.055	02/24/10	03/19/10	
TRITIUM (Distill) by EPA 906.0 MOD			**pCi/L**	**Batch # 0061038**	**Yld %**			**F0C020000-038B**
Tritium	112	U	95	500	140	03/02/10	03/03/10	
Gross Alpha/Beta EPA 900			**pCi/L**	**Batch # 0062110**	**Yld %**			**F0C030000-110B**
Gross Alpha	0.25	U	0.45	2.00	0.79	03/03/10	03/08/10	
Gross Beta	-0.44	U	0.86	4.00	1.5	03/03/10	03/08/10	
Total Uranium by KPA ASTM 5174-91			**pCi/L**	**Batch # 0067296**	**Yld %**			**F0C080000-296B**
Total Uranium	0.315	J	0.039	0.693	0.21	03/10/10	03/12/10	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0B230452
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gamma Cs-137 & Hits by EPA 901.1 MOD		**pCi/L**		**901.1 MOD**			**F0B240000-101C**
Americium 241	141000	142000	11000	600		101	(87 - 110)
Cesium 137	53100	52800	3100	300		99	(90 - 110)
Cobalt 60	87900	86900	4900	200		99	(89 - 110)
	Batch #:	0055101		Analysis Date:	03/12/10		
TRITIUM (Distill) by EPA 906.0 MOD		**pCi/L**		**906.0 MOD**			**F0C020000-038C**
Tritium	4520	4270	450	140		94	(85 - 112)
	Batch #:	0061038		Analysis Date:	03/03/10		
Gross Alpha/Beta EPA 900		**pCi/L**		**900.0 MOD**			**F0C030000-110C**
Gross Alpha	49.4	49.2	5.4	0.9		100	(62 - 134)
	Batch #:	0062110		Analysis Date:	03/08/10		
Gross Alpha/Beta EPA 900		**pCi/L**		**900.0 MOD**			**F0C030000-110C**
Gross Beta	68.0	70.0	5.9	1.5		103	(58 - 133)
	Batch #:	0062110		Analysis Date:	03/08/10		
Total Uranium by KPA ASTM 5174-91		**pCi/L**		**5174-91**			**F0C080000-296C**
Total Uranium	27.7	28.6	3.5	0.2		103	(90 - 120)
	Batch #:	0067296		Analysis Date:	03/12/10		
Total Uranium by KPA ASTM 5174-91		**pCi/L**		**5174-91**			**F0C080000-296C**
Total Uranium	5.54	5.62	0.58	0.21		101	(90 - 120)
	Batch #:	0067296		Analysis Date:	03/12/10		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F0B230452
Matrix: WATER

Parameter		Spike Amount	Result		Total Uncert. (2 σ+/-)	% Yld	% Rec	QC Control Limits	Precision	
Radium 228 by GFPC EPA 904 MOD				**pCi/L**	**904 MOD**				**F0B240000-154C**	
Radium 228		6.38	5.73		0.72	101	90	(60 - 142)		
	Spk 2	6.38	6.46		0.79	96	101	(60 - 142)	12	%RPD
		Batch #:	0055154			**Analysis Date:**		03/12/10		
SR-90 BY GFPC EPA-905 MOD				**pCi/L**	**905 MOD**				**F0B240000-155C**	
Strontium 90		6.79	7.04		0.80	84	104	(80 - 130)		
	Spk 2	6.79	7.20		0.80	87	106	(80 - 130)	2	%RPD
		Batch #:	0055155			**Analysis Date:**		03/05/10		
Radium 226 by EPA 903.0 MOD				**pCi/L**	**903.0 MOD**				**F0B240000-153C**	
Radium (226)		11.3	11.8		1.0	104	105	(68 - 136)		
	Spk 2	11.3	11.4		0.99	96	102	(68 - 136)	3	%RPD
		Batch #:	0055153			**Analysis Date:**		03/19/10		

NOTE(S)

Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: F0B230452
Matrix: WATER
Date Sampled: 02/20/10
Date Received: 02/23/10

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID %YLD	QC Sample ID %REC	QC Control Limits
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F0B230452-001**	
Gross Beta	71.6	84.5	7.1		3.5	1.0		113	(54 - 150)
	Batch #: 0062110			Analysis Date: 03/07/10					
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F0B230452-001**	
Gross Alpha	52.0	45.6	6.4		-0.12	0.90		88	(35 - 150)
	Batch #: 0062110			Analysis Date: 03/07/10					
TRITIUM (Distill) by EPA 906.0 MOD			**pCi/L**		**906.0 MOD**			**F0B230454-001**	
Tritium	4520	4210	450		82	90		91	(62 - 147)
	Batch #: 0061038			Analysis Date: 03/03/10					

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID: F0B230452
Matrix: WATER

Date Sampled: 02/20/10 1349
Date Received: 02/23/10 0910

Parameter		Spike Amount	SPIKE Result	Total Uncert. (2 σ+/-)	Spike Yld	SAMPLE Result		Total Uncert. (2σ +/-)	QC Sample ID % Yld	%Rec	QC Control Limits
Total Uranium by KPA ASTM 5				**pCi/L**		**5174-91**				**F0B230452-001**	
Total Uranium		27.7	28.1	3.4		0.677	J	0.074		99	(62 - 150)
	Spk2	27.7	26.9	3.3		0.677	J	0.074		95	(62 - 150)
									Precision:	4	%RPD 4

Batch #: 0067296 **Analysis date:** 03/12/10

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off error in calculated results

J Result is greater than sample detection limit but less than stated reporting limit.

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F0B230452
Matrix: WATER

Date Sampled: 02/20/10
Date Received: 02/23/10

Parameter	SAMPLE Result		Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result		Total Uncert. (2 σ+/-)	% Yld	QC Sample ID Precision	
Gamma Cs-137 & Hits by EPA 901.1 MOD				**pCi/L**	**901.1 MOD**				**F0B230452-001**	
Cesium 137	-1	U	11		-1.6	U	8.4		8	%RPD
Potassium 40	-30	U	270		-20	U	180		68	%RPD
	Batch #:		0055101	(Sample)	0055101		(Duplicate)			
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**	**906.0 MOD**				**F0B230452-001**	
Tritium	-79	U	52		-46	U	64		53	%RPD
	Batch #:		0061038	(Sample)	0061038		(Duplicate)			
Gross Alpha/Beta EPA 900				**pCi/L**	**900.0 MOD**				**F0B230452-001**	
Gross Alpha	-0.12	U	0.90		0.8	U	1.2		269	%RPD
Gross Beta	3.5	J	1.0		2.12	J	0.89		49	%RPD
	Batch #:		0062110	(Sample)	0062110		(Duplicate)			

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off error in calculated results

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

SUBCONTRACT ORDER
TestAmerica Irvine

CUR 196

ITB2185

SENDING LABORATORY:

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

RECEIVING LABORATORY:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone :(314) 298-8566
Fax: (314) 298-8757
Project Location: CA - CALIFORNIA
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: ITB2185-03 (OUTFALL 002 (COMPOSITE) - Wate Sampled: 02/20/10 13:49						
Gamma Spec-O	mg/kg	03/03/10	02/20/11 13:49	$200.00	50%	Out St Louis, k-40 and cs-137 only, DO NOT FILTER!
Gross Alpha-O	pCi/L	03/03/10	08/19/10 13:49	$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O	pCi/L	03/03/10	08/19/10 13:49	$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 Data Package	N/A	03/03/10	03/20/10 13:49	$0.00	0%	
Radium 226-O	pCi/L	03/03/10	02/20/11 13:49	$88.00	0%	Out St Louis, Boeing permit, DO NOT FILTER!
Radium 228-O	pCi/L	03/03/10	02/20/11 13:49	$84.00	0%	Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	pCi/L	03/03/10	02/20/11 13:49	$140.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	pCi/L	03/03/10	02/20/11 13:49	$80.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Uranium, Combined-O	pCi/L	03/03/10	02/20/11 13:49	$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!

Containers Supplied:
2.5 gal Poly (S) 500 mL Amber (T)

Released By _____ Date/Time 2/22/10 1700

Released By _____ Date/Time _____

Received By Fed-Ex Date/Time 2/23/10 1700

Received By _____ Date/Time 2/23/10 0910

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

ITB2185

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 002** **GRAB**
Project Manager: Bronwyn Kelly Sampler: SDawson VVanHemessin	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	VOCs 624 + xylenes	Settleable Solids	Oil & Grease (1664-HEM)	Cyanide (total recoverable)	Conductivity	Total Residual Chlorine	Comments
Outfall 002	W	VOAs	5	2/20/10 0900	HCl	1A, 1B, 1C, 1D, 1E	X						
Outfall 002	W	1L Poly	1		None	2		X					
Outfall 002	W	1L Amber	2		HCl	3A, 3B			X				
Outfall 002	W	500 mL Poly	1		NaOH	4				X			
Outfall 002	W	500 mL Poly	2	2/20/10 0900	None	5A, 5B					X		
Trip Blanks	W	VOAs	3	2/20/10 0700	HCl	6A, 6B, 6C	X						
~~Outfall 002~~	~~W~~	~~150 mL Poly~~	~~1~~		~~None~~	~~7~~							

ANALYSIS REQUIRED

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

Temp °F = 49.1

pH = 8.0

Time of readings =
0900
2/20/10

These Samples are the Grab Portion of Outfall 002 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	2-20-10 1845	[signature]	2-20-10 1845
Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	2-20-10 1438	[signature]	2/20/10 1438
Relinquished By	Date/Time:	Received By	Date/Time:

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

Sample Integrity: (Check)
Intact: ✓ On Ice: X 4°C

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

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

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

Test America Contact: Joseph Doak

Project:
Boeing-SSFL NPDES
Routine Outfall 002
COMPOSITE

Project Manager: Bronwyn Kelly

Sampler: S Dawson V Vathanasin

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

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: Cu, Pb, Hg, Cd, Se, Zn, As, Ba, Be, Cr, Fe, Mn, Ni	TCDD (and all congeners)	BOD_5 (20 degrees C)	Surfactants (MBAS)	Cr, SO_4, NO_3+NO_2-N, Perchlorate	Nitrate-N, Nitrite-N	Turbidity, TDS, TSS	Ammonia-N (350.2)	Alpha BHC (608) + Pesticides + PP	2,4,6 TCP, 2,4 Dinitrotoluene, Bis(2-ethylhexyl)phthalate, NDMA, PCP (SVOCs 625)	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, Cs-137 (901.0 or 901.1)	Chronic Toxicity	Total Dissolved Metals: Cu, Pb, Hg, Cd, Se, Zn, As, Ba, Be, Fe, Mn, Ni		Comments
Outfall 002	W	1L Poly	1	2/20/10 0149	HNO_3	8A	X														
Outfall 002 Dup	W	1L Poly	1		HNO_3	8B	X														
Outfall 002	W	1L Amber	2		None	9A, 9B		X													
Outfall 002	W	1L Poly	1		None	10			X												
Outfall 002	W	500 mL Poly	2		None	11A, 11B				X								SD			
Outfall 002	W	500 mL Poly	2		None	12A, 12B					X										
Outfall 002	W	500 mL Poly	1		None	13						X									
Outfall 002	W	500 mL Poly	2		None	14A, 14B							X								
Outfall 002	W	500 mL Poly	1		H_2SO_4	15								X							
Outfall 002	W	1L Amber	2		None	16A, 16B									X						
Outfall 002	W	1L Amber	2		None	17A, 17B										X					
Outfall 002	W	2.5 Gal Cube	1		None	18A											X				Unfiltered and unpreserved analysis
		500 mL Amber	1		None	18B															
~~Outfall 002~~	~~W~~	~~1 Gal Cube~~	~~1~~		None	19												SD			
Outfall 002	W	1L Poly	1	2/20/10 0149	None	20														X	Filter w/in 24hrs of receipt at lab

SD

COC Page 2 of 2 lists the composite samples for Outfall 002 for this storm event.
These must be added to the same work order for COC Page 1 of 2 for Outfall 002 for the same event.

high flow

Relinquished By	Date/Time:	Received By	Date/Time:
	2.20.10 13:05		2.20.10 13:05
Relinquished By	Date/Time:	Received By	Date/Time:
	2.20.10 14:30		2/20/10 1430
Relinquished By	Date/Time:	Received By	Date/Time:

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

Sample Integrity: (Check)
Intact: ____ On Ice: X 4°C

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F0B230452 454

CONDITION UPON RECEIPT FORM

Client: TA IRVINE

Quote No: 95044

COC/RFA No: ITB2185 / ITB2186 196

Initiated By: NIO Date: 2/23/10 Time: 0910

Shipping Information

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

Shipping # (s):*		Sample Temperature (s):**	
1. 428921334069	6.	1. 2	6.
2.	7.	2.	7.
3.	8.	3.	8.
4.	9.	4.	9.
5.	10.	5.	10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

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

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

Notes:

Log for 20 business days per workshares. Kea 02-23-10

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: _____ Date: 02-25-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

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APPENDIX G

Section 11

Outfall 002 - February 27 & 28, 2010

MEC^X Data Validation Report

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITB2827

Prepared by

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

I. INTRODUCTION

Task Order Title:	Boeing SSFL NPDES
Contract Task Order:	1261.100D.00
Sample Delivery Group:	ITB2827
Project Manager:	B. Kelly
Matrix:	Water
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 002	ITB2827-03	G0C020512-001, F0C020468	Water	2/28/2010 07:29	ASTM 5174-91, 180.1, 245.1, 245.1 (Diss), 1613B, 900.0 MOD, 901.1 MOD, 903.0 MOD, 904 MOD, 905 MOD, EA 906.0 MOD, SM2540D
Outfall 002	ITB2827-01	N/A	Water	2/27/2010 8:15:00 AM	120.1

II. Sample Management

No anomalies were observed regarding sample management. A portion of the samples in several SDGs were received at ambient temperature at TestAmerica-St. Louis; however, the reviewer was unable to determine if the sample in ITB2827 was received at ambient temperature. Due to the nonvolatile nature of the analytes, no qualifications were required. The samples in this SDG were received at the remaining laboratories within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact upon receipt at TA-West Sacramento and TestAmerica-St. Louis. As the samples were couriered to TestAmerica-Irvine, custody seals were not required. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

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

Qualification Code Reference Table

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

Qualification Code Reference Table Cont.

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

III. Method Analyses

A. EPA METHOD 1613—Dioxin/Furans

Reviewed By: L. Calvin
Date Reviewed: April 2, 2010

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0), USEPA Method 1613*, and the *National Functional Guidelines Chlorinated Dioxin/Furan Data Review* (9/05).

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

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

    - GC Column Performance: A Windows Defining Mix (WDM) containing the first and last eluting congeners of each descriptor and isomer specificity compounds was analyzed with the initial calibration sequence and at the beginning of each analytical sequence. The GC column performance in the calibrations was acceptable, with the height of the valley between the closely eluting isomers and 2,3,7,8-TCDD reported as less than 25%.

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

- Calibration: Calibration criteria were met.

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

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

- Blanks: The method blank had a detect between the EDL and the RL for total PeCDD reported as an EMPC. The sample result for total PeCDD was also comprised of the same EMPC peak as the method blank total, and was therefore qualified as nondetected, "U," at the level of the EMPC.

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

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

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

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

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

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

- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating a representative number of reportable sample results. The EMPC qualified as nondetected for method blank contamination was not further qualified as an EMPC. Total PeCDF and total HxCDF were each comprised only of EMPC peaks, and were therefore qualified as estimated nondetects, "UJ." The result for total HpCDD included an EMPC peak and was qualified as estimated, "J." The result for total HpCDF was comprised only of peaks meeting ratio criteria and was therefore not qualified. Total HpCDF was present above the estimated detection limit (EDL) and did not require qualification. Any detects reported below the EDL, or between the EDL and the reporting limit (RL) were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Nondetects are valid to the EDL.

B. EPA METHODS 200.7, 200.8, and 245.1—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: March 31 and April 3, 2010

The sample listed in Table 1 for these analyses was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0), EPA Methods 200.7, 200.8, 245.1*, and the *National Functional Guidelines for Inorganic Data Review* (7/02).

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

- Tuning: The mass calibration and resolution checks criteria were met. All tuning solution %RSDs were ≤5%, and all masses of interest were calibrated to ≤ 0.1 amu and ≤0.9 amu at 10% peak height.

- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were ≥0.995 and all initial and continuing calibration recoveries were within 90-110% for the ICP and ICP-MS metals and 85-115% for mercury. The 1 ppb CRDL recoveries for arsenic and chromium were 131% and 151%, respectively, and the 2 ppb CRDL arsenic recovery was 132% in the analyses associated with both the total and dissolved fractions; therefore, detects for total arsenic and dissolved chromium were qualified as estimated, "J." The remaining CRDL/CRI recoveries were within the control limits of 70-130%.

- Blanks: Chromium was detected in the total method blank at 1.78 µg/L; therefore, total chromium detected in the sample was qualified as nondetected, "U," at the level of contamination. Method blanks and CCBs had no other applicable detects.

- Interference Check Samples: Recoveries were within the method- (6010B) or laboratory-(6020) established control limits. Manganese copper, cadmium, and chromium were detected in the ICSAs, but the reviewer was not able to determine if the detects were due to low-level contamination present in the ICSA solution. There were no other target compounds present in the ICSA solution at concentrations indicative of matrix interference.

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

- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.

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

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

- Internal Standards Performance: All sample internal standard intensities were within 60-125% of the internal standard intensities measured in the initial calibration. The following analytes were not bracketed by an internal standard of lower mass: beryllium, chromium, manganese, nickel, and copper; therefore, these results were qualified as estimated, "UJ," for nondetects and, "J," for detects.

- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method

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

Chromium was detected in the total fraction at a concentration higher than that in the dissolved fraction; however, due to method blank contamination, total chromium was qualified as nondetected.

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

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

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

C. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks
Date Reviewed: April 7, 2010

The sample listed in Table 1 for these analyses was validated based on the guidelines outlined in the *EPA Methods 900.0, 901.1, 903.1, 904.0, 905.0, and 906.0, ASTM Method D-5174,* and the *National Functional Guidelines for Inorganic Data Review* (10/04).

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

- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability.

    The gross alpha detector efficiency was less than 20%; therefore, the detect for gross alpha was qualified as estimated, "J." The remaining detector efficiencies were greater than 20%.

    The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. All chemical yields were at least 40% and were considered acceptable. The gamma spectroscopy analytes were determined at the maximum photopeak energy. The kinetic phosphorescence analyzer (KPA) was calibrated immediately prior to the

sample analysis. All KPA calibration check standard recoveries were within 90-110% and were deemed acceptable.

- Blanks: Total uranium were detected in the method blank 0.315 pCi/L; therefore, the detects for total uranium was qualified as nondetected, "U," at the level of contamination if detected above. Tritium and radium-228 were also detected in the method blanks but neither were detected in the site sample. There were no other analytes detected in the method blanks or the KPA CCBs.

- Blank Spikes and Laboratory Control Samples: The recoveries and RPDs (radium-226, radium-228, strontium-90) were within laboratory-established control limits.

- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.

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

- Sample Result Verification: An EPA Level IV review was performed for the sample in this data package. The sample results and MDAs reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. Any detects between the MDA and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDA.

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

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

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

D. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks
Date Reviewed: April 5, 2010

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0), EPA Methods 120.1 and 180.1*, SM2540D, and the *National Functional Guidelines for Inorganic Data Review* (7/02).

- Holding Times: Analytical holding times were met.

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

- Blanks: Method blanks and CCBs had no detects.

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

- Laboratory Duplicates: A laboratory duplicate analysis was performed on the sample in this SDG for turbidity. The RPD was within the laboratory-established control limits.

- Matrix Spike/Matrix Spike Duplicate: Not applicable to these analyses.

- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.

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

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

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

Validated Sample Result Forms ITB2827

Analysis Method ASTM 5174-91

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Uranium	7440-61-1	ND	1.48	0.21	pCi/L		UJ	B, H

Analysis Method EPA 120.1

Sample Name OUTFALL 002 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-01 **Sample Date:** 2/27/2010 8:15:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Specific Conductance	NA	650	1.0	1.0	umhos/c			

Analysis Method EPA 180.1

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Turbidity	Turb	170	10	0.40	NTU			

Analysis Method EPA 200.7

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Barium	7440-39-3	0.071	0.010	0.0060	mg/l			
Iron	7439-89-6	7.4	0.040	0.015	mg/l			
Zinc	7440-66-6	27	20	6.0	ug/l			

Analysis Method EPA 200.7-Diss

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Barium	7440-39-3	0.030	0.010	0.0060	mg/l			
Iron	7439-89-6	0.28	0.040	0.015	mg/l			
Zinc	7440-66-6	ND	20	6.0	ug/l		U	

Analysis Method EPA 200.8

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440-38-2	1.5	1.0	0.90	ug/l		J	C
Beryllium	7440-41-7	0.31	0.50	0.10	ug/l	J	J	*III, DNQ
Cadmium	7440-43-9	0.12	1.0	0.10	ug/l	J	J	DNQ
Chromium	7440-47-3	ND	8.7	0.90	ug/l	B	UJ	B, *III
Copper	7440-50-8	6.8	2.0	0.50	ug/l	B	J	*III
Lead	7439-92-1	3.3	1.0	0.20	ug/l			
Manganese	7439-96-5	130	1.0	0.70	ug/l		J	*III
Nickel	7440-02-0	8.3	2.0	0.50	ug/l		J	*III
Selenium	7782-49-2	0.55	2.0	0.50	ug/l	J	J	DNQ

Analysis Method EPA 200.8-Diss

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440-38-2	ND	1.0	0.90	ug/l		U	
Beryllium	7440-41-7	ND	0.50	0.10	ug/l		UJ	*III
Cadmium	7440-43-9	ND	1.0	0.10	ug/l	C	U	
Chromium	7440-47-3	1.3	2.0	0.90	ug/l	J	J	C, *III, DNQ
Copper	7440-50-8	1.9	2.0	0.50	ug/l	J	J	*III, DNQ
Lead	7439-92-1	ND	1.0	0.20	ug/l		U	
Manganese	7439-96-5	12	1.0	0.70	ug/l		J	*III
Nickel	7440-02-0	1.8	2.0	0.50	ug/l	J	J	*III, DNQ
Selenium	7782-49-2	ND	2.0	0.50	ug/l		U	

Analysis Method EPA 245.1

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.00020	0.00010	mg/l		U	

Analysis Method EPA 245.1-Diss

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.00020	0.00010	mg/l		U	

Analysis Method EPA 900.0 MOD

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Gross Alpha	12587-46-1	6.7	3	3.6	pCi/L		J	H, C
Gross Beta	12587-47-2	4.9	4	1.4	pCi/L		J	H

Analysis Method EPA 901.1 MOD

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	-0.9	20	13	pCi/L	U	U	
Potassium 40	13966-00-2	-80	0	210	pCi/L	U	U	

Analysis Method EPA 903.0 MOD

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	0.39	1	0.17	pCi/L	Jb	J	DNQ

Analysis Method EPA 904 MOD

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	0.34	1	0.56	pCi/L	U	U	

Analysis Method EPA 905 MOD

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium 90	10098-97-2	-0.04	3	0.4	pCi/L	U	U	

Analysis Method EPA 906.0 MOD

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	93	500	130	pCi/L	U	U	

Analysis Method EPA-5 1613B

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822-46-9	6.1e-005	0.000047	0.000016	ug/L			
1,2,3,4,6,7,8-HpCDF	67562-39-4	2e-005	0.000047	0.0000061	ug/L	J	J	DNQ
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	0.000047	0.0000091	ug/L		U	
1,2,3,4,7,8-HxCDD	39227-28-6	ND	0.000047	0.0000084	ug/L		U	
1,2,3,4,7,8-HxCDF	70648-26-9	ND	0.000047	0.0000037	ug/L		U	
1,2,3,6,7,8-HxCDD	57653-85-7	ND	0.000047	0.0000076	ug/L		U	
1,2,3,6,7,8-HxCDF	57117-44-9	ND	0.000047	0.0000033	ug/L		U	
1,2,3,7,8,9-HxCDD	19408-74-3	ND	0.000047	0.0000064	ug/L		U	
1,2,3,7,8,9-HxCDF	72918-21-9	ND	0.000047	0.0000036	ug/L		U	
1,2,3,7,8-PeCDD	40321-76-4	ND	0.00051	0.0000044	ug/L		U	
1,2,3,7,8-PeCDF	57117-41-6	ND	0.000047	0.0000026	ug/L		U	
2,3,4,6,7,8-HxCDF	60851-34-5	ND	0.000047	0.0000032	ug/L		U	
2,3,4,7,8-PeCDF	57117-31-4	ND	0.000047	0.0000031	ug/L		U	
2,3,7,8-TCDD	1746-01-6	ND	0.0000094	0.0000021	ug/L		U	
2,3,7,8-TCDF	51207-31-9	ND	0.0000094	0.0000017	ug/L		U	
OCDD	3268-87-9	0.00071	0.000094	0.000026	ug/L			
OCDF	39001-02-0	7.9e-005	0.000094	0.0000084	ug/L	J	J	DNQ
Total HpCDD	37871-00-4	9.7e-005	9.7e-005	0.000016	ug/L	J, Q	J	*III, DNQ
Total HpCDF	38998-75-3	5e-005	0.000047	0.0000061	ug/L	J		
Total HxCDD	34465-46-8	ND	0.000047	0.0000064	ug/L		U	
Total HxCDF	55684-94-1	ND	2.5e-006	0.0000032	ug/L	J, Q	UJ	*III
Total PeCDD	36088-22-9	ND	7.9e-006	0.0000044	ug/L	J, Q, Ba	U	B
Total PeCDF	30402-15-4	ND	2.6e-006	0.0000025	ug/L	J, Q	UJ	*III
Total TCDD	41903-57-5	ND	0.0000094	0.0000021	ug/L		U	
Total TCDF	55722-27-5	ND	0.0000094	0.0000017	ug/L		U	

Analysis Method SM 2540D

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2827-03 **Sample Date:** 2/28/2010 7:29:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Suspended Solids	TSS	78	10	1.0	mg/l			

APPENDIX G

Section 12

Outfall 002 - February 27 & 28, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: Routine Outfall 002

Sampled: 02/27/10-02/28/10
Received: 02/27/10
Issued: 04/09/10 18:38

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

SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: WATER, 1613B, Dioxins/Furans with Totals
Some analytes in this sample and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

Some analytes are reported at a concentration below the estimated detection limit (EDL). The data is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

This is a complete final report amended for corrected volatile analyte list.

LABORATORY ID	CLIENT ID	MATRIX
ITB2827-01	OUTFALL 002	Water
ITB2827-02	Trip Blanks	Water
ITB2827-03	OUTFALL 002 (COMPOSITE)	Water

Reviewed By:

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-01 (OUTFALL 002 - Water)					**Sampled: 02/27/10**				
Reporting Units: ug/l									
Benzene	EPA 624	10C1026	0.28	0.50	ND	1	03/09/10	03/09/10	
Carbon tetrachloride	EPA 624	10C1026	0.28	0.50	ND	1	03/09/10	03/09/10	
Chloroform	EPA 624	10C1026	0.33	0.50	ND	1	03/09/10	03/09/10	
1,1-Dichloroethane	EPA 624	10C1026	0.40	0.50	ND	1	03/09/10	03/09/10	
1,2-Dichloroethane	EPA 624	10C1026	0.28	0.50	ND	1	03/09/10	03/09/10	
1,1-Dichloroethene	EPA 624	10C1026	0.42	0.50	ND	1	03/09/10	03/09/10	
Ethylbenzene	EPA 624	10C1026	0.25	0.50	ND	1	03/09/10	03/09/10	
Tetrachloroethene	EPA 624	10C1026	0.32	0.50	ND	1	03/09/10	03/09/10	
Toluene	EPA 624	10C1026	0.36	0.50	ND	1	03/09/10	03/09/10	
1,1,1-Trichloroethane	EPA 624	10C1026	0.30	0.50	ND	1	03/09/10	03/09/10	
1,1,2-Trichloroethane	EPA 624	10C1026	0.30	0.50	ND	1	03/09/10	03/09/10	
Trichloroethene	EPA 624	10C1026	0.26	0.50	ND	1	03/09/10	03/09/10	
Trichlorofluoromethane	EPA 624	10C1026	0.34	0.50	ND	1	03/09/10	03/09/10	
Vinyl chloride	EPA 624	10C1026	0.40	0.50	ND	1	03/09/10	03/09/10	
Xylenes, Total	EPA 624	10C1026	0.90	1.5	ND	1	03/09/10	03/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*105 %*				
Surrogate: Dibromofluoromethane (80-120%)					*116 %*				
Surrogate: Toluene-d8 (80-120%)					*110 %*				
Sample ID: ITB2827-02 (Trip Blanks - Water)					**Sampled: 02/27/10**				
Reporting Units: ug/l									
Benzene	EPA 624	10C1198	0.28	0.50	ND	1	03/10/10	03/10/10	
Carbon tetrachloride	EPA 624	10C1198	0.28	0.50	ND	1	03/10/10	03/10/10	
Chloroform	EPA 624	10C1198	0.33	0.50	ND	1	03/10/10	03/10/10	
1,1-Dichloroethane	EPA 624	10C1198	0.40	0.50	ND	1	03/10/10	03/10/10	
1,2-Dichloroethane	EPA 624	10C1198	0.28	0.50	ND	1	03/10/10	03/10/10	
1,1-Dichloroethene	EPA 624	10C1198	0.42	0.50	ND	1	03/10/10	03/10/10	
Ethylbenzene	EPA 624	10C1198	0.25	0.50	ND	1	03/10/10	03/10/10	
Tetrachloroethene	EPA 624	10C1198	0.32	0.50	ND	1	03/10/10	03/10/10	
Toluene	EPA 624	10C1198	0.36	0.50	ND	1	03/10/10	03/10/10	
1,1,1-Trichloroethane	EPA 624	10C1198	0.30	0.50	ND	1	03/10/10	03/10/10	
1,1,2-Trichloroethane	EPA 624	10C1198	0.30	0.50	ND	1	03/10/10	03/10/10	
Trichloroethene	EPA 624	10C1198	0.26	0.50	ND	1	03/10/10	03/10/10	
Trichlorofluoromethane	EPA 624	10C1198	0.34	0.50	ND	1	03/10/10	03/10/10	
Vinyl chloride	EPA 624	10C1198	0.40	0.50	ND	1	03/10/10	03/10/10	
Xylenes, Total	EPA 624	10C1198	0.90	1.5	ND	1	03/10/10	03/10/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*108 %*				
Surrogate: Dibromofluoromethane (80-120%)					*115 %*				
Surrogate: Toluene-d8 (80-120%)					*113 %*				

TestAmerica Irvine

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: ug/l									
Bis(2-ethylhexyl)phthalate	EPA 625	10C0555	1.6	4.8	ND	0.952	03/04/10	03/08/10	
2,4-Dinitrotoluene	EPA 625	10C0555	0.19	8.6	ND	0.952	03/04/10	03/08/10	
N-Nitrosodimethylamine	EPA 625	10C0555	0.095	7.6	ND	0.952	03/04/10	03/08/10	
Pentachlorophenol	EPA 625	10C0555	0.095	7.6	ND	0.952	03/04/10	03/08/10	
2,4,6-Trichlorophenol	EPA 625	10C0555	0.095	5.7	ND	0.952	03/04/10	03/08/10	
Surrogate: 2,4,6-Tribromophenol (40-120%)					*100 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*91 %*				
Surrogate: 2-Fluorophenol (30-120%)					*72 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*81 %*				
Surrogate: Phenol-d6 (35-120%)					*76 %*				
Surrogate: Terphenyl-d14 (50-125%)					*99 %*				

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Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: ug/l									
alpha-BHC	EPA 608	10C0396	0.0024	0.0095	ND	0.948	03/03/10	03/04/10	
Surrogate: Decachlorobiphenyl (45-120%)					*87 %*				
Surrogate: Tetrachloro-m-xylene (35-115%)					*69 %*				

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Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-01 (OUTFALL 002 - Water)					**Sampled: 02/27/10**				
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	10C1221	1.3	4.7	ND	1	03/10/10	03/10/10	

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: mg/l									
Barium	EPA 200.7	10C0078	0.0060	0.010	**0.071**	1	03/01/10	03/06/10	
Iron	EPA 200.7	10C0078	0.015	0.040	**7.4**	1	03/01/10	03/10/10	
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: ug/l									
Mercury	EPA 245.1	10C0101	0.10	0.20	ND	1	03/01/10	03/01/10	
Arsenic	EPA 200.8	10C0076	0.90	1.0	**1.5**	1	03/01/10	03/02/10	
Beryllium	EPA 200.8	10C0076	0.10	0.50	**0.31**	1	03/01/10	03/03/10	J
Cadmium	EPA 200.8	10C0076	0.10	1.0	**0.12**	1	03/01/10	03/03/10	J
Zinc	EPA 200.7	10C0078	6.0	20	**27**	1	03/01/10	03/06/10	
Chromium	EPA 200.8	10C0076	0.90	2.0	**8.7**	1	03/01/10	03/02/10	B
Copper	EPA 200.8	10C0076	0.50	2.0	**6.8**	1	03/01/10	03/02/10	B
Lead	EPA 200.8	10C0076	0.20	1.0	**3.3**	1	03/01/10	03/02/10	
Manganese	EPA 200.8	10C0076	0.70	1.0	**130**	1	03/01/10	03/03/10	
Nickel	EPA 200.8	10C0076	0.50	2.0	**8.3**	1	03/01/10	03/02/10	
Selenium	EPA 200.8	10C0076	0.50	2.0	**0.55**	1	03/01/10	03/02/10	J

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	10C0169	0.0060	0.010	**0.030**	1	03/02/10	03/08/10	
Iron	EPA 200.7-Diss	10C0169	0.015	0.040	**0.28**	1	03/02/10	03/08/10	
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10C0102	0.10	0.20	ND	1	03/01/10	03/01/10	
Arsenic	EPA 200.8-Diss	10C0170	0.90	1.0	ND	1	03/02/10	03/02/10	
Beryllium	EPA 200.8-Diss	10C0170	0.10	0.50	ND	1	03/02/10	03/03/10	
Cadmium	EPA 200.8-Diss	10C0170	0.10	1.0	ND	1	03/02/10	03/02/10	C
Zinc	EPA 200.7-Diss	10C0169	6.0	20	ND	1	03/02/10	03/06/10	
Chromium	EPA 200.8-Diss	10C0170	0.90	2.0	**1.3**	1	03/02/10	03/02/10	J
Copper	EPA 200.8-Diss	10C0170	0.50	2.0	**1.9**	1	03/02/10	03/02/10	J
Lead	EPA 200.8-Diss	10C0170	0.20	1.0	ND	1	03/02/10	03/02/10	
Manganese	EPA 200.8-Diss	10C0170	0.70	1.0	**12**	1	03/02/10	03/03/10	
Nickel	EPA 200.8-Diss	10C0170	0.50	2.0	**1.8**	1	03/02/10	03/02/10	J
Selenium	EPA 200.8-Diss	10C0170	0.50	2.0	ND	1	03/02/10	03/02/10	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: mg/l									
Ammonia-N (Distilled)	SM4500NH3-C	10C0733	0.50	0.50	ND	1	03/05/10	03/05/10	
Biochemical Oxygen Demand	SM5210B	10C0114	0.50	2.0	**1.3**	1	03/01/10	03/06/10	J
Chloride	EPA 300.0	10B3357	0.25	0.50	**18**	1	02/28/10	02/28/10	
Nitrate-N	EPA 300.0	10B3357	0.060	0.11	**0.34**	1	02/28/10	02/28/10	
Nitrite-N	EPA 300.0	10B3357	0.090	0.15	ND	1	02/28/10	02/28/10	
Nitrate/Nitrite-N	EPA 300.0	10B3357	0.15	0.26	**0.34**	1	02/28/10	02/28/10	
Sulfate	EPA 300.0	10B3357	1.0	2.5	**92**	5	02/28/10	02/28/10	
Surfactants (MBAS)	SM5540-C	10C0122	0.050	0.10	**0.052**	1	03/01/10	03/01/10	J
Total Dissolved Solids	SM2540C	10C0449	1.0	10	**340**	1	03/04/10	03/04/10	
Total Suspended Solids	SM 2540D	10C0436	1.0	10	**78**	1	03/03/10	03/03/10	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-01 (OUTFALL 002 - Water)					**Sampled: 02/27/10**				
Reporting Units: ml/l									
Total Settleable Solids	SM2540F	10C0050	0.10	0.10	ND	1	03/01/10	03/01/10	
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: NTU									
Turbidity	EPA 180.1	10C0051	0.40	10	**170**	10	03/01/10	03/01/10	
Sample ID: ITB2827-01 (OUTFALL 002 - Water)					**Sampled: 02/27/10**				
Reporting Units: ug/l									
Total Cyanide	SM4500CN-E	10C0242	2.2	5.0	ND	1	03/02/10	03/02/10	
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	10C0163	0.90	4.0	ND	1	03/02/10	03/02/10	
Sample ID: ITB2827-01 (OUTFALL 002 - Water)					**Sampled: 02/27/10**				
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	10C0026	1.0	1.0	**650**	1	03/01/10	03/01/10	

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Received: 02/27/10

EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	64219	0.000016	0.000047	**6.1e-005**	0.94	03/05/10	03/10/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	64219	0.0000061	0.000047	**2e-005**	0.94	03/05/10	03/10/10	J
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	64219	0.0000091	0.000047	ND	0.94	03/05/10	03/10/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	64219	0.0000084	0.000047	ND	0.94	03/05/10	03/10/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	64219	0.0000037	0.000047	ND	0.94	03/05/10	03/10/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	64219	0.0000076	0.000047	ND	0.94	03/05/10	03/10/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	64219	0.0000033	0.000047	ND	0.94	03/05/10	03/10/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	64219	0.0000064	0.000047	ND	0.94	03/05/10	03/10/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	64219	0.0000036	0.000047	ND	0.94	03/05/10	03/10/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	64219	0.0000044	0.00051	ND	0.94	03/05/10	03/10/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	64219	0.0000026	0.000047	ND	0.94	03/05/10	03/10/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	64219	0.0000032	0.000047	ND	0.94	03/05/10	03/10/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	64219	0.0000031	0.000047	ND	0.94	03/05/10	03/10/10	
2,3,7,8-TCDD	EPA-5 1613B	64219	0.0000021	0.0000094	ND	0.94	03/05/10	03/10/10	
2,3,7,8-TCDF	EPA-5 1613B	64219	0.0000017	0.0000094	ND	0.94	03/05/10	03/10/10	
OCDD	EPA-5 1613B	64219	0.000026	0.000094	**0.00071**	0.94	03/05/10	03/10/10	
OCDF	EPA-5 1613B	64219	0.0000084	0.000094	**7.9e-005**	0.94	03/05/10	03/10/10	J
Total HpCDD	EPA-5 1613B	64219	0.000016	0.000047	**9.7e-005**	0.94	03/05/10	03/10/10	J, Q
Total HpCDF	EPA-5 1613B	64219	0.0000061	0.000047	**5e-005**	0.94	03/05/10	03/10/10	J
Total HxCDD	EPA-5 1613B	64219	0.0000064	0.000047	ND	0.94	03/05/10	03/10/10	
Total HxCDF	EPA-5 1613B	64219	0.0000032	0.000047	**2.5e-006**	0.94	03/05/10	03/10/10	J, Q
Total PeCDD	EPA-5 1613B	64219	0.0000044	0.000047	**7.9e-006**	0.94	03/05/10	03/10/10	J, Q, Ba
Total PeCDF	EPA-5 1613B	64219	0.0000025	0.000047	**2.6e-006**	0.94	03/05/10	03/10/10	J, Q
Total TCDD	EPA-5 1613B	64219	0.0000021	0.0000094	ND	0.94	03/05/10	03/10/10	
Total TCDF	EPA-5 1613B	64219	0.0000017	0.0000094	ND	0.94	03/05/10	03/10/10	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)					*56 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)					*60 %*				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)					*55 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)					*58 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)					*67 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)					*67 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)					*69 %*				
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)					*60 %*				
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)					*53 %*				
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)					*53 %*				
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)					*69 %*				
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)					*52 %*				
Surrogate: 13C-2,3,7,8-TCDD (25-164%)					*55 %*				
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					*52 %*				
Surrogate: 13C-OCDD (17-157%)					*52 %*				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					*87 %*				

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Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

ASTM 5174-91

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: pCi/L									
Total Uranium	ASTM 5174-91	67296	0.21	0.69	**1.48**	1	03/10/10	03/12/10	

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EPA 900.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: pCi/L									
Gross Alpha	EPA 900.0 MOD	68099	3.6	3	**6.7**	1	03/09/10	03/14/10	
Gross Beta	EPA 900.0 MOD	68099	1.4	4	**4.9**	1	03/09/10	03/14/10	

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EPA 901.1 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: pCi/L									
Cesium 137	EPA 901.1 MOD	61272	13	20	-0.9	1	03/02/10	03/17/10	U
Potassium 40	EPA 901.1 MOD	61272	210	NA	-80	1	03/02/10	03/17/10	U

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EPA 903.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)						**Sampled: 02/28/10**			
Reporting Units: pCi/L									
Radium (226)	EPA 903.0 MOD	61258	0.17	1	**0.39**	1	03/02/10	03/18/10	Jb

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EPA 904 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)						**Sampled: 02/28/10**			
Reporting Units: pCi/L									
Radium 228	EPA 904 MOD	61259	0.56	1	**0.34**	1	03/02/10	03/18/10	U

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EPA 905 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)					**Sampled: 02/28/10**				
Reporting Units: pCi/L									
Strontium 90	EPA 905 MOD	61262	0.4	3	-0.04	1	03/02/10	03/11/10	U

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EPA 906.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Water)						**Sampled: 02/28/10**			
Reporting Units: pCi/L									
Tritium	EPA 906.0 MOD	67136	130	500	**93**	1	03/08/10	03/09/10	U

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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 002 (ITB2827-01) - Water					
SM2540F	2	02/27/2010 08:15	02/27/2010 17:25	03/01/2010 06:15	03/01/2010 06:15
Sample ID: OUTFALL 002 (COMPOSITE) (ITB2827-03) - Water					
EPA 180.1	2	02/28/2010 07:29	02/27/2010 17:25	03/01/2010 09:45	03/01/2010 09:45
EPA 300.0	2	02/28/2010 07:29	02/27/2010 17:25	02/28/2010 17:45	02/28/2010 18:37
Filtration	1	02/28/2010 07:29	02/27/2010 17:25	02/28/2010 15:00	02/28/2010 15:00
SM5210B	2	02/28/2010 07:29	02/27/2010 17:25	03/01/2010 18:24	03/06/2010 11:30
SM5540-C	2	02/28/2010 07:29	02/27/2010 17:25	03/01/2010 20:12	03/01/2010 21:45

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C1026 Extracted: 03/09/10											
Blank Analyzed: 03/09/2010 (10C1026-BLK1)											
Benzene	ND	0.50	0.28	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
1,1-Dichloroethane	ND	0.50	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Surrogate: 4-Bromofluorobenzene	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Dibromofluoromethane	*28.4*			*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*26.9*			*ug/l*	*25.0*		*108*	*80-120*			
LCS Analyzed: 03/09/2010 (10C1026-BS1)											
Benzene	21.6	0.50	0.28	ug/l	25.0		86	70-120			
Carbon tetrachloride	31.5	0.50	0.28	ug/l	25.0		126	65-140			
Chloroform	26.6	0.50	0.33	ug/l	25.0		106	70-130			
1,1-Dichloroethane	25.8	0.50	0.40	ug/l	25.0		103	70-125			
1,2-Dichloroethane	26.4	0.50	0.28	ug/l	25.0		106	60-140			
1,1-Dichloroethene	24.6	0.50	0.42	ug/l	25.0		98	70-125			
Ethylbenzene	23.8	0.50	0.25	ug/l	25.0		95	75-125			
Tetrachloroethene	24.8	0.50	0.32	ug/l	25.0		99	70-125			
Toluene	21.8	0.50	0.36	ug/l	25.0		87	70-120			
1,1,1-Trichloroethane	29.1	0.50	0.30	ug/l	25.0		116	65-135			
1,1,2-Trichloroethane	25.6	0.50	0.30	ug/l	25.0		102	70-125			
Trichloroethene	24.8	0.50	0.26	ug/l	25.0		99	70-125			
Trichlorofluoromethane	29.4	0.50	0.34	ug/l	25.0		118	65-145			
Vinyl chloride	26.9	0.50	0.40	ug/l	25.0		108	55-135			
Xylenes, Total	70.9	1.5	0.90	ug/l	75.0		95	70-125			
Surrogate: 4-Bromofluorobenzene	*28.0*			*ug/l*	*25.0*		*112*	*80-120*			

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Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C1026 Extracted: 03/09/10											
LCS Analyzed: 03/09/2010 (10C1026-BS1)											
Surrogate: Dibromofluoromethane	*29.7*			*ug/l*	*25.0*		*119*	*80-120*			
Surrogate: Toluene-d8	*27.1*			*ug/l*	*25.0*		*108*	*80-120*			
Matrix Spike Analyzed: 03/09/2010 (10C1026-MS1)						**Source: ITC0249-01**					
Benzene	20.9	0.50	0.28	ug/l	25.0	ND	84	65-125			
Carbon tetrachloride	30.6	0.50	0.28	ug/l	25.0	ND	123	65-140			
Chloroform	25.0	0.50	0.33	ug/l	25.0	0.630	97	65-135			
1,1-Dichloroethane	23.7	0.50	0.40	ug/l	25.0	ND	95	65-130			
1,2-Dichloroethane	25.7	0.50	0.28	ug/l	25.0	ND	103	60-140			
1,1-Dichloroethene	22.6	0.50	0.42	ug/l	25.0	ND	90	60-130			
Ethylbenzene	23.0	0.50	0.25	ug/l	25.0	ND	92	65-130			
Tetrachloroethene	26.2	0.50	0.32	ug/l	25.0	3.08	92	65-130			
Toluene	21.3	0.50	0.36	ug/l	25.0	ND	85	70-125			
1,1,1-Trichloroethane	26.8	0.50	0.30	ug/l	25.0	ND	107	65-140			
1,1,2-Trichloroethane	25.1	0.50	0.30	ug/l	25.0	ND	100	65-130			
Trichloroethene	24.6	0.50	0.26	ug/l	25.0	0.340	97	65-125			
Trichlorofluoromethane	27.5	0.50	0.34	ug/l	25.0	0.910	106	60-145			
Vinyl chloride	24.0	0.50	0.40	ug/l	25.0	ND	96	45-140			
Xylenes, Total	68.5	1.5	0.90	ug/l	75.0	ND	91	60-130			
Surrogate: 4-Bromofluorobenzene	*28.0*			*ug/l*	*25.0*		*112*	*80-120*			
Surrogate: Dibromofluoromethane	*28.2*			*ug/l*	*25.0*		*113*	*80-120*			
Surrogate: Toluene-d8	*27.4*			*ug/l*	*25.0*		*110*	*80-120*			
Matrix Spike Dup Analyzed: 03/09/2010 (10C1026-MSD1)						**Source: ITC0249-01**					
Benzene	22.1	0.50	0.28	ug/l	25.0	ND	89	65-125	6	20	
Carbon tetrachloride	32.8	0.50	0.28	ug/l	25.0	ND	131	65-140	7	25	
Chloroform	25.9	0.50	0.33	ug/l	25.0	0.630	101	65-135	4	20	
1,1-Dichloroethane	24.8	0.50	0.40	ug/l	25.0	ND	99	65-130	5	20	
1,2-Dichloroethane	26.3	0.50	0.28	ug/l	25.0	ND	105	60-140	2	20	
1,1-Dichloroethene	24.1	0.50	0.42	ug/l	25.0	ND	96	60-130	6	20	
Ethylbenzene	24.0	0.50	0.25	ug/l	25.0	ND	96	65-130	4	20	
Tetrachloroethene	27.5	0.50	0.32	ug/l	25.0	3.08	98	65-130	5	20	
Toluene	22.3	0.50	0.36	ug/l	25.0	ND	89	70-125	5	20	
1,1,1-Trichloroethane	28.0	0.50	0.30	ug/l	25.0	ND	112	65-140	4	20	
1,1,2-Trichloroethane	25.4	0.50	0.30	ug/l	25.0	ND	102	65-130	1	25	
Trichloroethene	25.7	0.50	0.26	ug/l	25.0	0.340	102	65-125	4	20	

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Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C1026 Extracted: 03/09/10											
Matrix Spike Dup Analyzed: 03/09/2010 (10C1026-MSD1)						**Source: ITC0249-01**					
Trichlorofluoromethane	28.8	0.50	0.34	ug/l	25.0	0.910	112	60-145	4	25	
Vinyl chloride	26.5	0.50	0.40	ug/l	25.0	ND	106	45-140	10	30	
Xylenes, Total	71.8	1.5	0.90	ug/l	75.0	ND	96	60-130	5	20	
Surrogate: 4-Bromofluorobenzene	*27.4*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Dibromofluoromethane	*27.4*			*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*27.1*			*ug/l*	*25.0*		*108*	*80-120*			
Batch: 10C1198 Extracted: 03/10/10											
Blank Analyzed: 03/10/2010 (10C1198-BLK1)											
Benzene	ND	0.50	0.28	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
1,1-Dichloroethane	ND	0.50	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Surrogate: 4-Bromofluorobenzene	*26.2*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Dibromofluoromethane	*26.6*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*28.2*			*ug/l*	*25.0*		*113*	*80-120*			

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Sampled: 02/27/10-02/28/10
Received: 02/27/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C1198 Extracted: 03/10/10											
LCS Analyzed: 03/10/2010 (10C1198-BS1)											
Benzene	25.0	0.50	0.28	ug/l	25.0		100	70-120			
Carbon tetrachloride	27.7	0.50	0.28	ug/l	25.0		111	65-140			
Chloroform	26.2	0.50	0.33	ug/l	25.0		105	70-130			
1,1-Dichloroethane	26.0	0.50	0.40	ug/l	25.0		104	70-125			
1,2-Dichloroethane	26.2	0.50	0.28	ug/l	25.0		105	60-140			
1,1-Dichloroethene	26.5	0.50	0.42	ug/l	25.0		106	70-125			
Ethylbenzene	27.0	0.50	0.25	ug/l	25.0		108	75-125			
Tetrachloroethene	26.1	0.50	0.32	ug/l	25.0		104	70-125			
Toluene	26.4	0.50	0.36	ug/l	25.0		106	70-120			
1,1,1-Trichloroethane	26.4	0.50	0.30	ug/l	25.0		106	65-135			
1,1,2-Trichloroethane	28.1	0.50	0.30	ug/l	25.0		112	70-125			
Trichloroethene	27.0	0.50	0.26	ug/l	25.0		108	70-125			
Trichlorofluoromethane	27.2	0.50	0.34	ug/l	25.0		109	65-145			
Vinyl chloride	22.8	0.50	0.40	ug/l	25.0		91	55-135			
Xylenes, Total	80.4	1.5	0.90	ug/l	75.0		107	70-125			
Surrogate: 4-Bromofluorobenzene	*28.5*			*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Dibromofluoromethane	*27.5*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*28.5*			*ug/l*	*25.0*		*114*	*80-120*			
Matrix Spike Analyzed: 03/10/2010 (10C1198-MS1)						**Source: ITC0221-02**					
Benzene	23.5	0.50	0.28	ug/l	25.0	ND	94	65-125			
Carbon tetrachloride	26.1	0.50	0.28	ug/l	25.0	ND	104	65-140			
Chloroform	23.6	0.50	0.33	ug/l	25.0	ND	94	65-135			
1,1-Dichloroethane	22.6	0.50	0.40	ug/l	25.0	ND	91	65-130			
1,2-Dichloroethane	24.8	0.50	0.28	ug/l	25.0	ND	99	60-140			
1,1-Dichloroethene	23.5	0.50	0.42	ug/l	25.0	ND	94	60-130			
Ethylbenzene	25.5	0.50	0.25	ug/l	25.0	ND	102	65-130			
Tetrachloroethene	24.8	0.50	0.32	ug/l	25.0	ND	99	65-130			
Toluene	24.8	0.50	0.36	ug/l	25.0	ND	99	70-125			
1,1,1-Trichloroethane	24.0	0.50	0.30	ug/l	25.0	ND	96	65-140			
1,1,2-Trichloroethane	26.2	0.50	0.30	ug/l	25.0	ND	105	65-130			
Trichloroethene	25.2	0.50	0.26	ug/l	25.0	ND	101	65-125			
Trichlorofluoromethane	25.5	0.50	0.34	ug/l	25.0	ND	102	60-145			
Vinyl chloride	20.6	0.50	0.40	ug/l	25.0	ND	83	45-140			
Xylenes, Total	76.2	1.5	0.90	ug/l	75.0	ND	102	60-130			
Surrogate: 4-Bromofluorobenzene	*28.5*			*ug/l*	*25.0*		*114*	*80-120*			

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Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C1198 Extracted: 03/10/10											
Matrix Spike Analyzed: 03/10/2010 (10C1198-MS1)						**Source: ITC0221-02**					
Surrogate: Dibromofluoromethane	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*28.4*			*ug/l*	*25.0*		*113*	*80-120*			
Matrix Spike Dup Analyzed: 03/10/2010 (10C1198-MSD1)						**Source: ITC0221-02**					
Benzene	24.9	0.50	0.28	ug/l	25.0	ND	100	65-125	6	20	
Carbon tetrachloride	28.5	0.50	0.28	ug/l	25.0	ND	114	65-140	9	25	
Chloroform	25.2	0.50	0.33	ug/l	25.0	ND	101	65-135	7	20	
1,1-Dichloroethane	24.6	0.50	0.40	ug/l	25.0	ND	98	65-130	8	20	
1,2-Dichloroethane	26.2	0.50	0.28	ug/l	25.0	ND	105	60-140	5	20	
1,1-Dichloroethene	24.8	0.50	0.42	ug/l	25.0	ND	99	60-130	6	20	
Ethylbenzene	27.6	0.50	0.25	ug/l	25.0	ND	111	65-130	8	20	
Tetrachloroethene	26.8	0.50	0.32	ug/l	25.0	ND	107	65-130	8	20	
Toluene	26.8	0.50	0.36	ug/l	25.0	ND	107	70-125	8	20	
1,1,1-Trichloroethane	26.3	0.50	0.30	ug/l	25.0	ND	105	65-140	9	20	
1,1,2-Trichloroethane	27.5	0.50	0.30	ug/l	25.0	ND	110	65-130	5	25	
Trichloroethene	27.0	0.50	0.26	ug/l	25.0	ND	108	65-125	7	20	
Trichlorofluoromethane	27.4	0.50	0.34	ug/l	25.0	ND	110	60-145	7	25	
Vinyl chloride	23.6	0.50	0.40	ug/l	25.0	ND	94	45-140	13	30	
Xylenes, Total	81.8	1.5	0.90	ug/l	75.0	ND	109	60-130	7	20	
Surrogate: 4-Bromofluorobenzene	*28.8*			*ug/l*	*25.0*		*115*	*80-120*			
Surrogate: Dibromofluoromethane	*26.1*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*28.1*			*ug/l*	*25.0*		*112*	*80-120*			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C0555 Extracted: 03/04/10											
Blank Analyzed: 03/08/2010 (10C0555-BLK1)											
Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
2,4-Dinitrotoluene	ND	9.0	0.20	ug/l							
N-Nitrosodimethylamine	ND	8.0	0.10	ug/l							
Pentachlorophenol	ND	8.0	0.10	ug/l							
2,4,6-Trichlorophenol	ND	6.0	0.10	ug/l							
Surrogate: 2,4,6-Tribromophenol	*19.3*			*ug/l*	*20.0*		*97*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*9.74*			*ug/l*	*10.0*		*97*	*50-120*			
Surrogate: 2-Fluorophenol	*16.6*			*ug/l*	*20.0*		*83*	*30-120*			
Surrogate: Nitrobenzene-d5	*9.00*			*ug/l*	*10.0*		*90*	*45-120*			
Surrogate: Phenol-d6	*17.9*			*ug/l*	*20.0*		*90*	*35-120*			
Surrogate: Terphenyl-d14	*10.6*			*ug/l*	*10.0*		*106*	*50-125*			
LCS Analyzed: 03/08/2010 (10C0555-BS1)											**MNR1**
Bis(2-ethylhexyl)phthalate	12.9	5.0	1.7	ug/l	10.0		129	65-130			
2,4-Dinitrotoluene	8.92	9.0	0.20	ug/l	10.0		89	65-120			*J*
N-Nitrosodimethylamine	7.20	8.0	0.10	ug/l	10.0		72	45-120			*J*
Pentachlorophenol	7.40	8.0	0.10	ug/l	10.0		74	50-120			*J*
2,4,6-Trichlorophenol	8.36	6.0	0.10	ug/l	10.0		84	55-120			
Surrogate: 2,4,6-Tribromophenol	*18.8*			*ug/l*	*20.0*		*94*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*8.50*			*ug/l*	*10.0*		*85*	*50-120*			
Surrogate: 2-Fluorophenol	*14.1*			*ug/l*	*20.0*		*70*	*30-120*			
Surrogate: Nitrobenzene-d5	*7.76*			*ug/l*	*10.0*		*78*	*45-120*			
Surrogate: Phenol-d6	*15.4*			*ug/l*	*20.0*		*77*	*35-120*			
Surrogate: Terphenyl-d14	*8.92*			*ug/l*	*10.0*		*89*	*50-125*			
LCS Dup Analyzed: 03/08/2010 (10C0555-BSD1)											
Bis(2-ethylhexyl)phthalate	10.3	5.0	1.7	ug/l	10.0		103	65-130	23	20	*R-7*
2,4-Dinitrotoluene	9.20	9.0	0.20	ug/l	10.0		92	65-120	3	20	
N-Nitrosodimethylamine	8.26	8.0	0.10	ug/l	10.0		83	45-120	14	20	
Pentachlorophenol	8.14	8.0	0.10	ug/l	10.0		81	50-120	10	25	
2,4,6-Trichlorophenol	8.48	6.0	0.10	ug/l	10.0		85	55-120	1	30	
Surrogate: 2,4,6-Tribromophenol	*19.4*			*ug/l*	*20.0*		*97*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*8.66*			*ug/l*	*10.0*		*87*	*50-120*			
Surrogate: 2-Fluorophenol	*15.1*			*ug/l*	*20.0*		*76*	*30-120*			
Surrogate: Nitrobenzene-d5	*8.00*			*ug/l*	*10.0*		*80*	*45-120*			
Surrogate: Phenol-d6	*16.2*			*ug/l*	*20.0*		*81*	*35-120*			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C0555 Extracted: 03/04/10											
LCS Dup Analyzed: 03/08/2010 (10C0555-BSD1)											
Surrogate: Terphenyl-d14	*9.50*			*ug/l*	*10.0*		*95*	*50-125*			

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Project ID: Routine Outfall 002
Report Number: ITB2827

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C0396 Extracted: 03/03/10											
Blank Analyzed: 03/03/2010 (10C0396-BLK1)											
alpha-BHC	ND	0.010	0.0025	ug/l							
Surrogate: Decachlorobiphenyl	*0.439*			*ug/l*	*0.500*		*88*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.395*			*ug/l*	*0.500*		*79*	*35-115*			
LCS Analyzed: 03/03/2010 (10C0396-BS1)											**MNR1**
alpha-BHC	0.393	0.010	0.0025	ug/l	0.500		79	45-115			
Surrogate: Decachlorobiphenyl	*0.412*			*ug/l*	*0.500*		*82*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.354*			*ug/l*	*0.500*		*71*	*35-115*			
LCS Dup Analyzed: 03/04/2010 (10C0396-BSD1)											
alpha-BHC	0.423	0.010	0.0025	ug/l	0.500		85	45-115	7	30	
Surrogate: Decachlorobiphenyl	*0.440*			*ug/l*	*0.500*		*88*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.381*			*ug/l*	*0.500*		*76*	*35-115*			

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METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C1221 Extracted: 03/10/10											
Blank Analyzed: 03/10/2010 (10C1221-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 03/10/2010 (10C1221-BS1)											**MNR1**
Hexane Extractable Material (Oil & Grease)	19.3	5.0	1.4	mg/l	20.0		96	78-114			
LCS Dup Analyzed: 03/10/2010 (10C1221-BSD1)											
Hexane Extractable Material (Oil & Grease)	19.6	5.0	1.4	mg/l	20.0		98	78-114	2	11	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C0076 Extracted: 03/01/10											
Blank Analyzed: 03/02/2010-03/08/2010 (10C0076-BLK1)											
Arsenic	ND	1.0	0.90	ug/l							
Beryllium	ND	0.50	0.10	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Chromium	1.78	2.0	0.90	ug/l							*J*
Copper	0.606	2.0	0.50	ug/l							*J*
Lead	ND	1.0	0.20	ug/l							
Manganese	ND	1.0	0.70	ug/l							
Nickel	ND	2.0	0.50	ug/l							
Selenium	ND	2.0	0.50	ug/l							
LCS Analyzed: 03/02/2010-03/03/2010 (10C0076-BS1)											
Arsenic	82.0	1.0	0.90	ug/l	80.0		102	85-115			
Beryllium	81.7	0.50	0.10	ug/l	80.0		102	85-115			
Cadmium	79.1	1.0	0.10	ug/l	80.0		99	85-115			
Chromium	83.0	2.0	0.90	ug/l	80.0		104	85-115			
Copper	86.5	2.0	0.50	ug/l	80.0		108	85-115			
Lead	82.4	1.0	0.20	ug/l	80.0		103	85-115			
Manganese	85.4	1.0	0.70	ug/l	80.0		107	85-115			
Nickel	86.8	2.0	0.50	ug/l	80.0		109	85-115			
Selenium	81.6	2.0	0.50	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 03/02/2010-03/03/2010 (10C0076-MS1)						**Source: ITB2772-01**					
Arsenic	86.3	1.0	0.90	ug/l	80.0	ND	108	70-130			
Beryllium	79.2	0.50	0.10	ug/l	80.0	ND	99	70-130			
Cadmium	75.8	1.0	0.10	ug/l	80.0	0.142	95	70-130			
Chromium	85.3	2.0	0.90	ug/l	80.0	1.67	104	70-130			
Copper	85.5	2.0	0.50	ug/l	80.0	2.38	104	70-130			
Lead	81.1	1.0	0.20	ug/l	80.0	0.372	101	70-130			
Manganese	442	1.0	0.70	ug/l	80.0	342	125	70-130			
Nickel	86.3	2.0	0.50	ug/l	80.0	2.99	104	70-130			
Selenium	81.8	2.0	0.50	ug/l	80.0	ND	102	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: 10C0076 Extracted: 03/01/10											
Matrix Spike Analyzed: 03/02/2010-03/03/2010 (10C0076-MS2)						**Source: ITB2772-06**					
Arsenic	85.3	1.0	0.90	ug/l	80.0	ND	107	70-130			
Beryllium	79.0	0.50	0.10	ug/l	80.0	ND	99	70-130			
Cadmium	76.6	1.0	0.10	ug/l	80.0	ND	96	70-130			
Chromium	85.7	2.0	0.90	ug/l	80.0	1.05	106	70-130			
Copper	86.3	2.0	0.50	ug/l	80.0	2.90	104	70-130			
Lead	77.6	1.0	0.20	ug/l	80.0	0.300	97	70-130			
Manganese	99.9	1.0	0.70	ug/l	80.0	15.6	105	70-130			
Nickel	87.4	2.0	0.50	ug/l	80.0	1.74	107	70-130			
Selenium	82.1	2.0	0.50	ug/l	80.0	0.609	102	70-130			
Matrix Spike Dup Analyzed: 03/02/2010-03/03/2010 (10C0076-MSD1)						**Source: ITB2772-01**					
Arsenic	85.7	1.0	0.90	ug/l	80.0	ND	107	70-130	0.7	20	
Beryllium	81.1	0.50	0.10	ug/l	80.0	ND	101	70-130	2	20	
Cadmium	77.4	1.0	0.10	ug/l	80.0	0.142	97	70-130	2	20	
Chromium	87.3	2.0	0.90	ug/l	80.0	1.67	107	70-130	2	20	
Copper	85.6	2.0	0.50	ug/l	80.0	2.38	104	70-130	0.2	20	
Lead	77.7	1.0	0.20	ug/l	80.0	0.372	97	70-130	4	20	
Manganese	443	1.0	0.70	ug/l	80.0	342	127	70-130	0.3	20	
Nickel	88.6	2.0	0.50	ug/l	80.0	2.99	107	70-130	3	20	
Selenium	83.1	2.0	0.50	ug/l	80.0	ND	104	70-130	2	20	
Batch: 10C0078 Extracted: 03/01/10											
Blank Analyzed: 03/06/2010-03/08/2010 (10C0078-BLK1)											
Barium	ND	0.010	0.0060	mg/l							
Iron	ND	0.040	0.015	mg/l							
Zinc	ND	20	6.0	ug/l							

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METALS

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Batch: 10C0078 Extracted: 03/01/10											
LCS Analyzed: 03/06/2010-03/08/2010 (10C0078-BS1)											
Barium	0.531	0.010	0.0060	mg/l	0.500		106	85-115			
Iron	0.546	0.040	0.015	mg/l	0.500		109	85-115			
Zinc	509	20	6.0	ug/l	500		102	85-115			
Matrix Spike Analyzed: 03/06/2010-03/08/2010 (10C0078-MS1)						**Source: ITB2793-07**					
Barium	0.541	0.010	0.0060	mg/l	0.500	0.0306	102	70-130			
Iron	0.533	0.040	0.015	mg/l	0.500	0.0442	98	70-130			
Zinc	532	20	6.0	ug/l	500	39.5	98	70-130			
Matrix Spike Analyzed: 03/06/2010-03/08/2010 (10C0078-MS2)						**Source: ITB2772-01**					
Barium	0.539	0.010	0.0060	mg/l	0.500	0.0326	101	70-130			
Iron	0.692	0.040	0.015	mg/l	0.500	0.213	96	70-130			
Zinc	494	20	6.0	ug/l	500	7.42	97	70-130			
Matrix Spike Dup Analyzed: 03/06/2010-03/08/2010 (10C0078-MSD1)						**Source: ITB2793-07**					
Barium	0.546	0.010	0.0060	mg/l	0.500	0.0306	103	70-130	1	20	
Iron	0.541	0.040	0.015	mg/l	0.500	0.0442	99	70-130	2	20	
Zinc	535	20	6.0	ug/l	500	39.5	99	70-130	0.6	20	
Batch: 10C0101 Extracted: 03/01/10											
Blank Analyzed: 03/01/2010 (10C0101-BLK1)											
Mercury	ND	0.20	0.10	ug/l							
LCS Analyzed: 03/01/2010 (10C0101-BS1)											
Mercury	8.21	0.20	0.10	ug/l	8.00		103	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: 10C0101 Extracted: 03/01/10											
Matrix Spike Analyzed: 03/01/2010 (10C0101-MS1)						**Source: ITB2633-01**					
Mercury	8.06	0.20	0.10	ug/l	8.00	ND	101	70-130			
Matrix Spike Dup Analyzed: 03/01/2010 (10C0101-MSD1)						**Source: ITB2633-01**					
Mercury	8.22	0.20	0.10	ug/l	8.00	ND	103	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: 10C0102 Extracted: 03/01/10											
Blank Analyzed: 03/01/2010 (10C0102-BLK1)											
Mercury	ND	0.20	0.10	ug/l							
LCS Analyzed: 03/01/2010 (10C0102-BS1)											
Mercury	8.33	0.20	0.10	ug/l	8.00		104	85-115			
Matrix Spike Analyzed: 03/01/2010 (10C0102-MS1)						**Source: ITB2742-01**					
Mercury	7.92	0.20	0.10	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 03/01/2010 (10C0102-MSD1)						**Source: ITB2742-01**					
Mercury	7.89	0.20	0.10	ug/l	8.00	ND	99	70-130	0.5	20	
Batch: 10C0169 Extracted: 03/02/10											
Blank Analyzed: 03/06/2010-03/08/2010 (10C0169-BLK1)											
Barium	ND	0.010	0.0060	mg/l							
Iron	ND	0.040	0.015	mg/l							
Zinc	ND	20	6.0	ug/l							
LCS Analyzed: 03/06/2010-03/08/2010 (10C0169-BS1)											
Barium	0.496	0.010	0.0060	mg/l	0.500		99	85-115			
Iron	0.489	0.040	0.015	mg/l	0.500		98	85-115			
Zinc	573	20	6.0	ug/l	500		115	85-115			
Matrix Spike Analyzed: 03/06/2010-03/08/2010 (10C0169-MS1)						**Source: ITB2827-03**					
Barium	0.518	0.010	0.0060	mg/l	0.500	0.0300	98	70-130			
Iron	0.760	0.040	0.015	mg/l	0.500	0.279	96	70-130			
Zinc	485	20	6.0	ug/l	500	ND	97	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: 10C0169 Extracted: 03/02/10											
Matrix Spike Dup Analyzed: 03/06/2010-03/08/2010 (10C0169-MSD1)						**Source: ITB2827-03**					
Barium	0.530	0.010	0.0060	mg/l	0.500	0.0300	100	70-130	2	20	
Iron	0.799	0.040	0.015	mg/l	0.500	0.279	104	70-130	5	20	
Zinc	507	20	6.0	ug/l	500	ND	101	70-130	4	20	
Batch: 10C0170 Extracted: 03/02/10											
Blank Analyzed: 03/02/2010-03/03/2010 (10C0170-BLK1)											
Arsenic	ND	1.0	0.90	ug/l							
Beryllium	ND	0.50	0.10	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Chromium	ND	2.0	0.90	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
Manganese	ND	1.0	0.70	ug/l							
Nickel	ND	2.0	0.50	ug/l							
Selenium	ND	2.0	0.50	ug/l							
LCS Analyzed: 03/02/2010-03/03/2010 (10C0170-BS1)											
Arsenic	79.9	1.0	0.90	ug/l	80.0		100	85-115			
Beryllium	78.2	0.50	0.10	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.10	ug/l	80.0		99	85-115			
Chromium	77.7	2.0	0.90	ug/l	80.0		97	85-115			
Copper	81.1	2.0	0.50	ug/l	80.0		101	85-115			
Lead	79.7	1.0	0.20	ug/l	80.0		100	85-115			
Manganese	83.4	1.0	0.70	ug/l	80.0		104	85-115			
Nickel	79.8	2.0	0.50	ug/l	80.0		100	85-115			
Selenium	78.6	2.0	0.50	ug/l	80.0		98	85-115			

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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: 10C0170 Extracted: 03/02/10											
Matrix Spike Analyzed: 03/02/2010-03/03/2010 (10C0170-MS1)						**Source: ITB2772-06**					
Arsenic	83.7	1.0	0.90	ug/l	80.0	ND	105	70-130			
Beryllium	79.7	0.50	0.10	ug/l	80.0	ND	100	70-130			
Cadmium	92.3	1.0	0.10	ug/l	80.0	ND	115	70-130			
Chromium	80.6	2.0	0.90	ug/l	80.0	ND	101	70-130			
Copper	82.5	2.0	0.50	ug/l	80.0	1.33	101	70-130			
Lead	77.7	1.0	0.20	ug/l	80.0	ND	97	70-130			
Manganese	96.1	1.0	0.70	ug/l	80.0	12.8	104	70-130			
Nickel	81.9	2.0	0.50	ug/l	80.0	1.39	101	70-130			
Selenium	81.5	2.0	0.50	ug/l	80.0	ND	102	70-130			
Matrix Spike Dup Analyzed: 03/02/2010-03/03/2010 (10C0170-MSD1)						**Source: ITB2772-06**					
Arsenic	85.1	1.0	0.90	ug/l	80.0	ND	106	70-130	2	20	
Beryllium	79.8	0.50	0.10	ug/l	80.0	ND	100	70-130	0.1	20	
Cadmium	93.8	1.0	0.10	ug/l	80.0	ND	117	70-130	2	20	
Chromium	81.3	2.0	0.90	ug/l	80.0	ND	102	70-130	0.9	20	
Copper	83.0	2.0	0.50	ug/l	80.0	1.33	102	70-130	0.7	20	
Lead	78.1	1.0	0.20	ug/l	80.0	ND	98	70-130	0.5	20	
Manganese	97.0	1.0	0.70	ug/l	80.0	12.8	105	70-130	0.9	20	
Nickel	82.6	2.0	0.50	ug/l	80.0	1.39	102	70-130	0.9	20	
Selenium	82.4	2.0	0.50	ug/l	80.0	ND	103	70-130	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: 10B3357 Extracted: 02/28/10											
Blank Analyzed: 02/28/2010 (10B3357-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/28/2010 (10B3357-BS1)											
Chloride	4.92	0.50	0.25	mg/l	5.00		98	90-110			
Nitrate-N	1.15	0.11	0.060	mg/l	1.13		102	90-110			
Nitrite-N	1.43	0.15	0.090	mg/l	1.52		94	90-110			
Sulfate	10.5	0.50	0.20	mg/l	10.0		105	90-110			
Matrix Spike Analyzed: 02/28/2010 (10B3357-MS1)						**Source: ITB2835-02**					
Chloride	9.18	0.50	0.25	mg/l	5.00	3.82	107	80-120			
Nitrate-N	1.64	0.11	0.060	mg/l	1.13	0.423	108	80-120			
Nitrite-N	1.50	0.15	0.090	mg/l	1.52	ND	99	80-120			
Sulfate	16.6	0.50	0.20	mg/l	10.0	5.52	110	80-120			
Matrix Spike Analyzed: 03/01/2010 (10B3357-MS2)						**Source: ITB2836-02**					
Chloride	17.7	0.50	0.25	mg/l	5.00	11.6	121	80-120			*MI*
Nitrate-N	1.96	0.11	0.060	mg/l	1.13	0.804	103	80-120			
Nitrite-N	1.65	0.15	0.090	mg/l	1.52	ND	109	80-120			
Sulfate	21.7	0.50	0.20	mg/l	10.0	11.0	107	80-120			
Matrix Spike Dup Analyzed: 02/28/2010 (10B3357-MSD1)						**Source: ITB2835-02**					
Chloride	9.08	0.50	0.25	mg/l	5.00	3.82	105	80-120	1	20	
Nitrate-N	1.64	0.11	0.060	mg/l	1.13	0.423	108	80-120	0.3	20	
Nitrite-N	1.54	0.15	0.090	mg/l	1.52	ND	101	80-120	2	20	
Sulfate	17.6	0.50	0.20	mg/l	10.0	5.52	120	80-120	6	20	

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 002
Report Number: ITB2827

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Received: 02/27/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C0026 Extracted: 03/01/10											
Blank Analyzed: 03/01/2010 (10C0026-BLK1)											
Specific Conductance	ND	1.0	1.0	umhos/cm							
LCS Analyzed: 03/01/2010 (10C0026-BS1)											
Specific Conductance	1410	1.0	1.0	umhos/cm	1410		100	90-110			
Duplicate Analyzed: 03/01/2010 (10C0026-DUP1)						**Source: ITB2462-01**					
Specific Conductance	14.9	1.0	1.0	umhos/cm		14.6			2	5	
Batch: 10C0051 Extracted: 03/01/10											
Blank Analyzed: 03/01/2010 (10C0051-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 03/01/2010 (10C0051-DUP1)						**Source: ITB2827-03**					
Turbidity	167	10	0.40	NTU		169			1	20	
Batch: 10C0114 Extracted: 03/01/10											
Blank Analyzed: 03/06/2010 (10C0114-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.50	mg/l							
LCS Analyzed: 03/06/2010 (10C0114-BS1)											
Biochemical Oxygen Demand	199	100	25	mg/l	198		101	85-115			
LCS Dup Analyzed: 03/06/2010 (10C0114-BSD1)											
Biochemical Oxygen Demand	206	100	25	mg/l	198		104	85-115	3	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: 10C0122 Extracted: 03/01/10											
Blank Analyzed: 03/01/2010 (10C0122-BLK1)											
Surfactants (MBAS)	ND	0.10	0.050	mg/l							
LCS Analyzed: 03/01/2010 (10C0122-BS1)											
Surfactants (MBAS)	0.254	0.10	0.050	mg/l	0.250		102	90-110			
Matrix Spike Analyzed: 03/01/2010 (10C0122-MS1)						**Source: ITB2827-03**					
Surfactants (MBAS)	0.304	0.10	0.050	mg/l	0.250	0.0520	101	50-125			
Matrix Spike Dup Analyzed: 03/01/2010 (10C0122-MSD1)						**Source: ITB2827-03**					
Surfactants (MBAS)	0.296	0.10	0.050	mg/l	0.250	0.0520	98	50-125	3	20	
Batch: 10C0163 Extracted: 03/02/10											
Blank Analyzed: 03/02/2010 (10C0163-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 03/02/2010 (10C0163-BS1)											
Perchlorate	26.2	4.0	0.90	ug/l	25.0		105	85-115			
Matrix Spike Analyzed: 03/02/2010 (10C0163-MS1)						**Source: ITC0070-01**					
Perchlorate	34.0	4.0	0.90	ug/l	25.0	6.00	112	80-120			
Matrix Spike Dup Analyzed: 03/02/2010 (10C0163-MSD1)						**Source: ITC0070-01**					
Perchlorate	32.7	4.0	0.90	ug/l	25.0	6.00	107	80-120	4	20	
Batch: 10C0242 Extracted: 03/02/10											
Blank Analyzed: 03/02/2010 (10C0242-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10C0242 Extracted: 03/02/10											
LCS Analyzed: 03/02/2010 (10C0242-BS1)											
Total Cyanide	194	5.0	2.2	ug/l	200		97	90-110			
Matrix Spike Analyzed: 03/02/2010 (10C0242-MS1)						**Source: ITB2827-01**					
Total Cyanide	188	5.0	2.2	ug/l	200	ND	94	70-115			
Matrix Spike Dup Analyzed: 03/02/2010 (10C0242-MSD1)						**Source: ITB2827-01**					
Total Cyanide	186	5.0	2.2	ug/l	200	ND	93	70-115	1	15	
Batch: 10C0436 Extracted: 03/03/10											
Blank Analyzed: 03/03/2010 (10C0436-BLK1)											
Total Suspended Solids	ND	10	1.0	mg/l							
LCS Analyzed: 03/03/2010 (10C0436-BS1)											
Total Suspended Solids	991	10	1.0	mg/l	1000		99	85-115			
Duplicate Analyzed: 03/03/2010 (10C0436-DUP1)						**Source: ITC0123-01**					
Total Suspended Solids	64.0	10	1.0	mg/l		65.0			2	10	
Batch: 10C0449 Extracted: 03/04/10											
Blank Analyzed: 03/04/2010 (10C0449-BLK1)											
Total Dissolved Solids	ND	10	1.0	mg/l							
LCS Analyzed: 03/04/2010 (10C0449-BS1)											
Total Dissolved Solids	1000	10	1.0	mg/l	1000		100	90-110			

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Batch: 10C0449 Extracted: 03/04/10											
Duplicate Analyzed: 03/04/2010 (10C0449-DUP1)						**Source: ITB2775-01**					
Total Dissolved Solids	1480	20	2.0	mg/l		1500			1	10	
Batch: 10C0733 Extracted: 03/05/10											
Blank Analyzed: 03/05/2010 (10C0733-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.50	mg/l							
LCS Analyzed: 03/05/2010 (10C0733-BS1)											
Ammonia-N (Distilled)	9.80	0.50	0.50	mg/l	10.0		98	80-115			
Matrix Spike Analyzed: 03/05/2010 (10C0733-MS1)						**Source: ITB2827-03**					
Ammonia-N (Distilled)	9.80	0.50	0.50	mg/l	10.0	ND	98	70-120			
Matrix Spike Dup Analyzed: 03/05/2010 (10C0733-MSD1)						**Source: ITB2827-03**					
Ammonia-N (Distilled)	9.80	0.50	0.50	mg/l	10.0	ND	98	70-120	0	15	

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 64219 Extracted: 03/05/10											
Blank Analyzed: 03/09/2010 (G0C050000219B)						**Source:**					
1,2,3,4,6,7,8-HpCDD	ND	0.00005	0.000016	ug/L				-			
1,2,3,4,6,7,8-HpCDF	ND	0.00005	0.0000034	ug/L				-			
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000055	ug/L				-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000048	ug/L				-			
1,2,3,4,7,8-HxCDF	ND	0.00005	0.0000025	ug/L				-			
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000048	ug/L				-			
1,2,3,6,7,8-HxCDF	ND	0.00005	0.0000022	ug/L				-			
1,2,3,7,8,9-HxCDD	ND	0.00005	0.0000039	ug/L				-			
1,2,3,7,8,9-HxCDF	ND	0.00005	0.0000022	ug/L				-			
1,2,3,7,8-PeCDD	ND	0.00005	0.000004	ug/L				-			
1,2,3,7,8-PeCDF	ND	0.00005	0.0000031	ug/L				-			
2,3,4,6,7,8-HxCDF	ND	0.00005	0.000002	ug/L				-			
2,3,4,7,8-PeCDF	ND	0.00005	0.0000036	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	0.0000022	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.0000016	ug/L				-			
OCDD	ND	0.0001	0.000017	ug/L				-			
OCDF	ND	0.0001	0.0000083	ug/L				-			
Total HpCDD	ND	0.00005	0.000016	ug/L				-			
Total HpCDF	ND	0.00005	0.0000034	ug/L				-			
Total HxCDD	ND	0.00005	0.0000039	ug/L				-			
Total HxCDF	ND	0.00005	0.000002	ug/L				-			
Total PeCDD	1e-005	0.00005	0.000004	ug/L				-			*J, Q*
Total PeCDF	ND	0.00005	0.0000022	ug/L				-			
Total TCDD	ND	0.00001	0.0000022	ug/L				-			
Total TCDF	ND	0.00001	0.0000016	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.0012*			*ug/L*	*0.00200*		*61*	*23-140*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.0015*			*ug/L*	*0.00200*		*73*	*28-143*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.0011*			*ug/L*	*0.00200*		*57*	*26-138*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.0013*			*ug/L*	*0.00200*		*67*	*32-141*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.0013*			*ug/L*	*0.00200*		*66*	*26-152*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.0015*			*ug/L*	*0.00200*		*76*	*28-130*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.0014*			*ug/L*	*0.00200*		*72*	*26-123*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.0014*			*ug/L*	*0.00200*		*69*	*29-147*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.001*			*ug/L*	*0.00200*		*50*	*25-181*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.00098*			*ug/L*	*0.00200*		*49*	*24-185*			

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 64219 Extracted: 03/05/10											
Blank Analyzed: 03/09/2010 (G0C050000219B)						**Source:**					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.0015*			*ug/L*	*0.00200*		*73*	*28-136*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.00095*			*ug/L*	*0.00200*		*48*	*21-178*			
Surrogate: 13C-2,3,7,8-TCDD	*0.00094*			*ug/L*	*0.00200*		*47*	*25-164*			
Surrogate: 13C-2,3,7,8-TCDF	*0.00081*			*ug/L*	*0.00200*		*40*	*24-169*			
Surrogate: 13C-OCDD	*0.0021*			*ug/L*	*0.00400*		*52*	*17-157*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.00069*			*ug/L*	*0.000800*		*87*	*35-197*			
LCS Analyzed: 03/09/2010 (G0C050000219C)						**Source:**					
1,2,3,4,6,7,8-HpCDD	0.000991	0.00005	0.00002	ug/L	0.00100		99	70-140			
1,2,3,4,6,7,8-HpCDF	0.000953	0.00005	0.0000068	ug/L	0.00100		95	82-122			
1,2,3,4,7,8,9-HpCDF	0.000998	0.00005	0.0000096	ug/L	0.00100		100	78-138			
1,2,3,4,7,8-HxCDD	0.00105	0.00005	0.0000063	ug/L	0.00100		105	70-164			
1,2,3,4,7,8-HxCDF	0.000993	0.00005	0.0000042	ug/L	0.00100		99	72-134			
1,2,3,6,7,8-HxCDD	0.00101	0.00005	0.0000059	ug/L	0.00100		101	76-134			
1,2,3,6,7,8-HxCDF	0.00102	0.00005	0.0000036	ug/L	0.00100		102	84-130			
1,2,3,7,8,9-HxCDD	0.000988	0.00005	0.0000048	ug/L	0.00100		99	64-162			
1,2,3,7,8,9-HxCDF	0.00102	0.00005	0.0000036	ug/L	0.00100		102	78-130			
1,2,3,7,8-PeCDD	0.000934	0.00005	0.0000075	ug/L	0.00100		93	70-142			
1,2,3,7,8-PeCDF	0.00101	0.00005	0.0000034	ug/L	0.00100		101	80-134			
2,3,4,6,7,8-HxCDF	0.000967	0.00005	0.0000033	ug/L	0.00100		97	70-156			
2,3,4,7,8-PeCDF	0.00102	0.00005	0.0000037	ug/L	0.00100		102	68-160			
2,3,7,8-TCDD	0.000183	0.00001	0.000002	ug/L	0.000200		91	67-158			
2,3,7,8-TCDF	0.000199	0.00001	0.0000017	ug/L	0.000200		100	75-158			
OCDD	0.00196	0.0001	0.000025	ug/L	0.00200		98	78-144			
OCDF	0.00191	0.0001	0.000013	ug/L	0.00200		95	63-170			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.00141*			*ug/L*	*0.00200*		*71*	*26-166*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.00153*			*ug/L*	*0.00200*		*76*	*21-158*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.00133*			*ug/L*	*0.00200*		*67*	*20-186*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.00138*			*ug/L*	*0.00200*		*69*	*21-193*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.00148*			*ug/L*	*0.00200*		*74*	*19-202*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.00164*			*ug/L*	*0.00200*		*82*	*25-163*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.00155*			*ug/L*	*0.00200*		*77*	*21-159*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.00145*			*ug/L*	*0.00200*		*72*	*17-205*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.00123*			*ug/L*	*0.00200*		*61*	*21-227*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.00122*			*ug/L*	*0.00200*		*61*	*21-192*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.00165*			*ug/L*	*0.00200*		*82*	*22-176*			

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EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 64219 Extracted: 03/05/10											
LCS Analyzed: 03/09/2010 (G0C050000219C)						**Source:**					
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.00125*			*ug/L*	*0.00200*		*63*	*13-328*			
Surrogate: 13C-2,3,7,8-TCDD	*0.00107*			*ug/L*	*0.00200*		*53*	*20-175*			
Surrogate: 13C-2,3,7,8-TCDF	*0.000951*			*ug/L*	*0.00200*		*48*	*22-152*			
Surrogate: 13C-OCDD	*0.00238*			*ug/L*	*0.00400*		*59*	*13-199*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.000717*			*ug/L*	*0.000800*		*90*	*31-191*			
LCS Dup Analyzed: 03/09/2010 (G0C050000219L)						**Source:**					
1,2,3,4,6,7,8-HpCDD	0.00111	0.00005	0.000022	ug/L	0.00100		111	70-140	11	50	
1,2,3,4,6,7,8-HpCDF	0.00104	0.00005	0.0000087	ug/L	0.00100		104	82-122	8.7	50	
1,2,3,4,7,8,9-HpCDF	0.00105	0.00005	0.000013	ug/L	0.00100		105	78-138	4.8	50	
1,2,3,4,7,8-HxCDD	0.001	0.00005	0.0000071	ug/L	0.00100		100	70-164	5	50	
1,2,3,4,7,8-HxCDF	0.00104	0.00005	0.0000064	ug/L	0.00100		104	72-134	4.8	50	
1,2,3,6,7,8-HxCDD	0.00101	0.00005	0.0000068	ug/L	0.00100		101	76-134	0.27	50	
1,2,3,6,7,8-HxCDF	0.00106	0.00005	0.0000055	ug/L	0.00100		106	84-130	3.8	50	
1,2,3,7,8,9-HxCDD	0.00095	0.00005	0.0000055	ug/L	0.00100		95	64-162	3.9	50	
1,2,3,7,8,9-HxCDF	0.00105	0.00005	0.0000058	ug/L	0.00100		105	78-130	2.8	50	
1,2,3,7,8-PeCDD	0.000991	0.00005	0.0000075	ug/L	0.00100		99	70-142	6	50	
1,2,3,7,8-PeCDF	0.00105	0.00005	0.0000058	ug/L	0.00100		105	80-134	3.6	50	
2,3,4,6,7,8-HxCDF	0.001	0.00005	0.0000052	ug/L	0.00100		100	70-156	3.6	50	
2,3,4,7,8-PeCDF	0.00105	0.00005	0.0000066	ug/L	0.00100		105	68-160	3.2	50	
2,3,7,8-TCDD	0.000186	0.00001	0.0000023	ug/L	0.000200		93	67-158	1.7	50	
2,3,7,8-TCDF	0.000212	0.00001	0.000002	ug/L	0.000200		106	75-158	6.2	50	
OCDD	0.00229	0.0001	0.000041	ug/L	0.00200		115	78-144	16	50	
OCDF	0.00217	0.0001	0.000021	ug/L	0.00200		108	63-170	13	50	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.001*			*ug/L*	*0.00200*		*50*	*26-166*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.00119*			*ug/L*	*0.00200*		*59*	*21-158*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.001*			*ug/L*	*0.00200*		*50*	*20-186*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.00113*			*ug/L*	*0.00200*		*56*	*21-193*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.00117*			*ug/L*	*0.00200*		*59*	*19-202*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.00127*			*ug/L*	*0.00200*		*64*	*25-163*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.00122*			*ug/L*	*0.00200*		*61*	*21-159*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.00113*			*ug/L*	*0.00200*		*57*	*17-205*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.000927*			*ug/L*	*0.00200*		*46*	*21-227*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.000872*			*ug/L*	*0.00200*		*44*	*21-192*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.00127*			*ug/L*	*0.00200*		*64*	*22-176*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.000905*			*ug/L*	*0.00200*		*45*	*13-328*			

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

Project ID: Routine Outfall 002
Report Number: ITB2827

Sampled: 02/27/10-02/28/10
Received: 02/27/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 64219 Extracted: 03/05/10											
LCS Dup Analyzed: 03/09/2010 (G0C050000219L)						**Source:**					
Surrogate: 13C-2,3,7,8-TCDD	*0.000855*			*ug/L*	*0.00200*		*43*	*20-175*			
Surrogate: 13C-2,3,7,8-TCDF	*0.000762*			*ug/L*	*0.00200*		*38*	*22-152*			
Surrogate: 13C-OCDD	*0.00168*			*ug/L*	*0.00400*		*42*	*13-199*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.000666*			*ug/L*	*0.000800*		*83*	*31-191*			

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METHOD BLANK/QC DATA

ASTM 5174-91

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 67296 Extracted: 03/10/10											
Matrix Spike Dup Analyzed: 03/12/2010 (F0B230452001D)						**Source: F0B230452001**					
Total Uranium	26.9	0.7	0.2	pCi/L	27.7	0.677	95	62-150	4	20	
Matrix Spike Analyzed: 03/12/2010 (F0B230452001S)						**Source: F0B230452001**					
Total Uranium	28.1	0.7	0.2	pCi/L	27.7	0.677	99	62-150			
Blank Analyzed: 03/12/2010 (F0C080000296B)						**Source:**					
Total Uranium	0.315	0.693	0.21	pCi/L				-			*Jb*
LCS Analyzed: 03/12/2010 (F0C080000296C)						**Source:**					
Total Uranium	28.6	0.7	0.2	pCi/L	27.7		103	90-120			

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METHOD BLANK/QC DATA

EPA 900.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 68099 Extracted: 03/09/10											
Matrix Spike Analyzed: 03/14/2010 (F0C020462001S)						**Source: F0C020462001**					
Gross Alpha	47.1	3	1.1	pCi/L	49.4	2.1	91	35-150			
Gross Beta	74.2	4	1	pCi/L	68.0	1.5	107	54-150			
Duplicate Analyzed: 03/18/2010 (F0C020462001X)						**Source: F0C020462001**					
Gross Alpha	1.89	3	1.1	pCi/L		2.1		-			*Jb*
Gross Beta	1.52	4	0.94	pCi/L		1.5		-			*Jb*
Blank Analyzed: 03/15/2010 (F0C090000099B)						**Source:**					
Gross Alpha	0.66	2	0.85	pCi/L				-			*U*
Gross Beta	0.69	4	1	pCi/L				-			*U*
LCS Analyzed: 03/15/2010 (F0C090000099C)						**Source:**					
Gross Alpha	51.5	3	1	pCi/L	49.4		104	62-134			
Gross Beta	63.9	4	0.8	pCi/L	68.0		94	58-133			

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METHOD BLANK/QC DATA

EPA 901.1 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 61272 Extracted: 03/02/10											
Blank Analyzed: 03/16/2010 (F0C020000272B)						**Source:**					
Cesium 137	1.4	20	12	pCi/L				-			*U*
Potassium 40	-60	NA	220	pCi/L				-			*U*
LCS Analyzed: 03/17/2010 (F0C020000272C)						**Source:**					
Americium 241	146000	NA	600	pCi/L	141000		103	87-110			
Cobalt 60	85500	NA	200	pCi/L	87900		97	89-110			
Cesium 137	52300	20	300	pCi/L	53100		98	90-110			
Duplicate Analyzed: 03/17/2010 (F0C020462001X)						**Source: F0C020462001**					
Cesium 137	1.6	20	16	pCi/L		-1.6		-			*U*
Potassium 40	-80	NA	200	pCi/L		-80		-			*U*

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METHOD BLANK/QC DATA

EPA 903.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 61258 Extracted: 03/02/10											
Blank Analyzed: 03/18/2010 (F0C020000258B)						**Source:**					
Radium (226)	0.079	1	0.15	pCi/L				-			*U*
LCS Analyzed: 03/18/2010 (F0C020000258C)						**Source:**					
Radium (226)	12.4	1	0.1	pCi/L	11.3		110	68-136			
LCS Dup Analyzed: 03/18/2010 (F0C020000258L)						**Source:**					
Radium (226)	12	1	0.1	pCi/L	11.3		107	68-136	3	40	

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METHOD BLANK/QC DATA

EPA 904 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 61259 Extracted: 03/02/10											
Blank Analyzed: 03/18/2010 (F0C020000259B)						**Source:**					
Radium 228	0.47	1	0.3	pCi/L				-			*Jb*
LCS Analyzed: 03/18/2010 (F0C020000259C)						**Source:**					
Radium 228	6.04	1	0.42	pCi/L	6.37		95	60-142			
LCS Dup Analyzed: 03/18/2010 (F0C020000259L)						**Source:**					
Radium 228	6	1	0.33	pCi/L	6.37		94	60-142	0.5	40	

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METHOD BLANK/QC DATA

EPA 905 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 61262 Extracted: 03/02/10											
Blank Analyzed: 03/11/2010 (F0C020000262B)						**Source:**					
Strontium 90	0.15	3	0.37	pCi/L				-			*U*
LCS Analyzed: 03/11/2010 (F0C020000262C)						**Source:**					
Strontium 90	6.99	3	0.33	pCi/L	6.79		103	80-130			
LCS Dup Analyzed: 03/11/2010 (F0C020000262L)						**Source:**					
Strontium 90	6.53	3	0.35	pCi/L	6.79		96	80-130	7	40	

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METHOD BLANK/QC DATA

EPA 906.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 67136 Extracted: 03/08/10											
Duplicate Analyzed: 03/09/2010 (F0C020462001X)						**Source: F0C020462001**					
Tritium	86	500	130	pCi/L		49		-			*U*
Matrix Spike Analyzed: 03/09/2010 (F0C020465001S)						**Source: F0C020465001**					
Tritium	4260	500	130	pCi/L	4520	130	92	62-147			
Blank Analyzed: 03/09/2010 (F0C080000136B)						**Source:**					
Tritium	163	500	130	pCi/L				-			*Jb*
LCS Analyzed: 03/09/2010 (F0C080000136C)						**Source:**					
Tritium	4700	500	130	pCi/L	4520		104	85-112			

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Received: 02/27/10

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
ITB2827-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	0.095	4.7	15
ITB2827-01	624-Boeing 001/002Q (Fr113+X+Fr	1,1-Dichloroethene	ug/l	0	0.50	6
ITB2827-01	624-Boeing 001/002Q (Fr113+X+Fr	Trichloroethene	ug/l	0	0.50	5
ITB2827-01	Cyanide, Total-4500CN-E (5ppb)	Total Cyanide	ug/l	-4	5.0	8.5
ITB2827-01	Settleable Solids - SM2540F	Total Settleable Solids	ml/l	0	0.10	0.3

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
ITB2827-02	624-Boeing 001/002Q (Fr113+X+Fr	1,1-Dichloroethene	ug/l	0	0.50	6
ITB2827-02	624-Boeing 001/002Q (Fr113+X+Fr	Trichloroethene	ug/l	0	0.50	5

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
ITB2827-03	608-Pest Boeing 001/002 Q (LL)	alpha-BHC	ug/l	0	0.0095	0.03
ITB2827-03	625-Boeing 001/002 Q-LL	2,4,6-Trichlorophenol	ug/l	0	5.7	13
ITB2827-03	625-Boeing 001/002 Q-LL	2,4-Dinitrotoluene	ug/l	0	8.6	18
ITB2827-03	625-Boeing 001/002 Q-LL	Bis(2-ethylhexyl)phthalate	ug/l	0.38	4.8	4
ITB2827-03	625-Boeing 001/002 Q-LL	N-Nitrosodimethylamine	ug/l	0	7.6	16
ITB2827-03	625-Boeing 001/002 Q-LL	Pentachlorophenol	ug/l	0	7.6	16
ITB2827-03	Ammonia-N, Titr 4500NH3-C (w/di	Ammonia-N (Distilled)	mg/l	0	0.50	10
ITB2827-03	Arsenic-200.8	Arsenic	ug/l	1.51	1.0	10
ITB2827-03	Barium-200.7	Barium	mg/l	0.071	0.010	1
ITB2827-03	Beryllium-200.8	Beryllium	ug/l	0.31	0.50	4
ITB2827-03	BOD - SM5210B	Biochemical Oxygen Demand	mg/l	1.32	2.0	30
ITB2827-03	Cadmium-200.8	Cadmium	ug/l	0.12	1.0	3.1
ITB2827-03	Chloride - 300.0	Chloride	mg/l	18	0.50	150
ITB2827-03	Chromium-200.8	Chromium	ug/l	8.68	2.0	16
ITB2827-03	Copper-200.8	Copper	ug/l	6.80	2.0	14

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ITB2827-03	**Iron-200.7**	**Iron**	**mg/l**	**7.41**	**0.040**	**0.3**
ITB2827-03	Lead-200.8	Lead	ug/l	3.32	1.0	5.2
ITB2827-03	**Manganese-200.8**	**Manganese**	**ug/l**	**133**	**1.0**	**50**
ITB2827-03	MBAS - SM5540-C	Surfactants (MBAS)	mg/l	0.052	0.10	0.5
ITB2827-03	Nickel-200.8	Nickel	ug/l	8.27	2.0	96
ITB2827-03	Nitrate-N, 300.0	Nitrate-N	mg/l	0.34	0.11	8
ITB2827-03	Nitrite-N, 300.0	Nitrite-N	mg/l	0	0.15	1
ITB2827-03	Nitrogen, NO3+NO2 -N EPA 300.0	Nitrate/Nitrite-N	mg/l	0.34	0.26	8
ITB2827-03	Perchlorate 314.0 - Default	Perchlorate	ug/l	0	4.0	6
ITB2827-03	Selenium-200.8	Selenium	ug/l	0.55	2.0	5
ITB2827-03	Sulfate-300.0	Sulfate	mg/l	92	2.5	300
ITB2827-03	TDS - SM2540C	Total Dissolved Solids	mg/l	343	10	950
ITB2827-03	**TSS - SM2540D**	**Total Suspended Solids**	**mg/l**	**78**	**10**	**45**
ITB2827-03	Zinc-200.7	Zinc	ug/l	27	20	120

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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
Ba	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
Jb	Result is greater than sample detection limit but less than stated reporting limit.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
Q	Estimated maximum possible concentration (EMPC).
R-7	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
U	Result is less than the sample detection limit.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water	N/A	N/A
EPA 120.1	Water	X	X
EPA 1664A	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 314.0	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
Filtration	Water	N/A	N/A
SM 2540D	Water	X	X
SM2540C	Water	X	
SM2540F	Water	X	X
SM4500CN-E	Water	X	X
SM4500NH3-C	Water	X	X
SM5210B	Water	X	X
SM5540-C	Water	X	X

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

Subcontracted Laboratories

TestAmerica Irvine

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TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITB2827-03

Method Performed: EPA 900.0 MOD
Samples: ITB2827-03

Method Performed: EPA 901.1 MOD
Samples: ITB2827-03

Method Performed: EPA 903.0 MOD
Samples: ITB2827-03

Method Performed: EPA 904 MOD
Samples: ITB2827-03

Method Performed: EPA 905 MOD
Samples: ITB2827-03

Method Performed: EPA 906.0 MOD
Samples: ITB2827-03

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B
Samples: ITB2827-03

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

ITB2824

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 002** **GRAB**
Project Manager: Bronwyn Kelly Sampler: Drew Lassen	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	VOCs 624 + xylenes	Settleable Solids	Oil & Grease (1664-HEM)	Cyanide (total recoverable)	Conductivity	~~Total Residual Chlorine~~								Comments
							ANALYSIS REQUIRED													
Outfall 002	W	VOAs	5	2/27/10 0815	HCl	1A, 1B, 1C, 1D, 1E	X													
Outfall 002	W	1L Poly	1	2/27/10 0815	None	2		X												
Outfall 002	W	1L Amber	2	2/27/10 0815	HCl	3A, 3B			X											
Outfall 002	W	500 mL Poly	1	2/27/10 0815	NaOH	4				X										
Outfall 002	W	500 mL Poly	2	2/27/10 0815	None	5A, 5B					X									
Trip Blanks	W	VOAs	3	2/27/10 0815	HCl	6A, 6B, 6C	X													
~~Outfall 002~~	~~W~~	~~150 mL Poly~~	~~1~~		None	7						X								

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

Temp °F = 52.3°

pH = 8.17

Time of readings = 0815

18:20
2/27/10
NPO

These Samples are the Grab Portion of Outfall 002 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By	Date/Time:	Received By	Date/Time:
	2/27/10 13:30		2/27/10 13:30
Relinquished By	Date/Time:	Received By	Date/Time:
	2/27/10 1725		2/27/10 1725
Relinquished By	Date/Time:	Received By	~~Date/Time:~~

Turn-around time: (Check)

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

48 Hour: _____ 5 Day: _____ Normal: X

Sample Integrity: (Check)

Intact: _____ On Ice: _____ 4°C

Data Requirements: (Check)

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

CHAIN OF CUSTODY FORM

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 002** **COMPOSITE**
Project Manager: Bronwyn Kelly Sampler: SDawson	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: Cu, Pb, Hg, Cd, Se, Zn, **As, Ba, Be, Cr, Fe, Mn, Ni**	TCDD (and all congeners)	BOD_5 (20 degrees C)	Surfactants (MBAS)	Cl^-, SO_4, NO_3+NO_2-N, Perchlorate	Nitrate-N, Nitrite-N	Turbidity, TDS, TSS	Ammonia-N (350.2)	Alpha BHC (608) + Pesticides + PP	2,4,6 TCP, 2,4 Dinitrotoluene, Bis(2-ethylhexyl)phthalate, NDMA, PCP (SVOCs 625)	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~~ V.O.	Total Dissolved Metals: Cu, Pb, Hg, Cd, Se, Zn, **As, Ba, Be, Fe, Mn, Ni**		Comments
Outfall 002	W	1L Poly	1	2/23/10 0729	HNO_3	8A	X														
Outfall 002 Dup	W	1L Poly	1		HNO_3	8B	X														
Outfall 002	W	1L Amber	2		None	9A, 9B		X													
Outfall 002	W	1L Poly	1		None	10			X												
Outfall 002	W	500 mL Poly	2		None	11A, 11B				X											
Outfall 002	W	500 mL Poly	2		None	12A, 12B					X										
Outfall 002	W	500 mL Poly	1		None	13						X									
Outfall 002	W	500 mL Poly	2	SD	None	14A, 14B							X								
Outfall 002	W	500 mL Poly	1		H_2SO_4	15								X							
Outfall 002	W	1L Amber	2		None	16A, 16B									X						
Outfall 002	W	1L Amber	2		None	17A, 17B										X					
Outfall 002	W	2.5 Gal Cube	1	2/23/10 0729	None	18A											X				Unfiltered and unpreserved analysis
		500 mL Amber	1		None	18B															
~~Outfall 002~~	~~W~~	~~1 Gal Cube~~	~~1~~		~~None~~	~~19~~													V.O.		
Outfall 002	W	1L Poly	1	2/23/10 0729	None	20														X	Filter w/in 24hrs of receipt at lab

Low flow

COC Page 2 of 2 lists the composite samples for Outfall 002 for this storm event.

These must be added to the same work order for COC Page 1 of 2 for Outfall 002 for the same event.

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	2/28/10 11:15	[signature]	2/28/10 11:15
[signature]	2/28/10 13:45		
		[signature]	2/28/10 13:45

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

Sample Integrity: (Check)
Intact: ____ On Ice: X 5.6

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. ITB2827

MWH-Pasadena Boeing

Lot #: F0C020468

Kathleen Robb

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817

TESTAMERICA LABORATORIES, INC.

Lynn Fussner
Project Manager

March 29, 2010

Case Narrative
LOT NUMBER: F0C020468-Revised

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on March 2, 2010. This sample is associated with your MWH-Pasadena Boeing project.

The analytical results included in this report meet all applicable quality control procedure requirements, except as noted below.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

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

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances
Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Radium-226 by GFPC (EPA 903.0 MOD)
There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD was performed to demonstrate accuracy and replicate precision.

Affected Samples:
F0C020468 (1): ITB2827-03

Radium-228 by GFPC (EPA 904 MOD)
There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD was performed to demonstrate accuracy and replicate precision.

Affected Samples:
F0C020468 (1): ITB2827-03

Gross Alpha/Beta (EPA 900.0 MOD)
The Gross Alpha reporting limit was not met due to a reduction of sample size attributed to the sample's high residual mass.

Affected Samples:
F0C020468 (1): ITB2827-03

METHODS SUMMARY

F0C020468

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Gamma Spectroscopy - Cesium-137 & Hits	EPA 901.1 MOD	
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
H-3 by Distillation & LSC	EPA 906.0 MOD	
Radium-226 by GFPC	EPA 903.0 MOD	
Radium-228 by GFPC	EPA 904 MOD	
Strontium 90 by GFPC	EPA 905 MOD	
Total Uranium By Laser Ph osphorimetry	ASTM 5174-91	

References:

ASTM Annual Book Of ASTM Standards.

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F0C020468

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LV7M6	001	ITB2827-03	02/28/10	07:29

NOTE(S):

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

TestAmerica Irvine

Client Sample ID: ITB2827-03

Radiochemistry

Lab Sample ID: F0C020468-001
Work Order: LV7M6
Matrix: WATER

Date Collected: 02/28/10 0729
Date Received: 03/02/10 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	mdc	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD				**pCi/L**	**Batch # 0061272**		**Yld %**
Cesium 137	-0.9	U	7.3	20.0	13	03/02/10	03/17/10
Potassium 40	-80	U	410		210	03/02/10	03/17/10
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 0068099**		**Yld %**
Gross Alpha	**6.7**		**3.1**	3.0	**3.6**	**03/09/10**	**03/14/10**
Gross Beta	**4.9**		**1.2**	4.0	**1.4**	**03/09/10**	**03/14/10**
SR-90 BY GFPC EPA-905 MOD				**pCi/L**	**Batch # 0061262**		**Yld % 71**
Strontium 90	-0.04	U	0.22	3.00	0.40	03/02/10	03/11/10
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**	**Batch # 0067136**		**Yld %**
Tritium	93	U	87	500	130	03/08/10	03/09/10
Total Uranium by KPA ASTM 5174-91				**pCi/L**	**Batch # 0067296**		**Yld %**
Total Uranium	**1.48**		**0.17**	0.69	**0.21**	**03/10/10**	**03/12/10**
Radium 226 by EPA 903.0 MOD				**pCi/L**	**Batch # 0061258**		**Yld % 81**
Radium (226)	0.287	J	0.088	1.00	0.079	03/02/10	03/25/10
Radium 228 by GFPC EPA 904 MOD				**pCi/L**	**Batch # 0061259**		**Yld % 71**
Radium 228	0.34	U	0.35	1.00	0.56	03/02/10	03/18/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0C020468
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date	Lab Sample ID
Radium 226 by EPA 903.0 MOD			pCi/L	Batch # 0061258	Yld % 102			F0C020000-258B
Radium (226)	0.066	J	0.043	1.00	0.055	03/02/10	03/25/10	
Radium 228 by GFPC EPA 904 MOD			pCi/L	Batch # 0061259	Yld % 98			F0C020000-259B
Radium 228	0.47	J	0.22	1.00	0.30	03/02/10	03/18/10	
SR-90 BY GFPC EPA-905 MOD			pCi/L	Batch # 0061262	Yld % 76			F0C020000-262B
Strontium 90	0.15	U	0.22	3.00	0.37	03/02/10	03/11/10	
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	Batch # 0061272	Yld %			F0C020000-272B
Cesium 137	1.4	U	6.8	20.0	12	03/02/10	03/16/10	
Potassium 40	-60	U	270		220	03/02/10	03/16/10	
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	Batch # 0067136	Yld %			F0C080000-136B
Tritium	163	J	99	500	130	03/08/10	03/09/10	
Gross Alpha/Beta EPA 900			pCi/L	Batch # 0068099	Yld %			F0C090000-099B
Gross Alpha	0.66	U	0.59	2.00	0.85	03/09/10	03/15/10	
Gross Beta	0.69	U	0.65	4.00	1.0	03/09/10	03/15/10	
Total Uranium by KPA ASTM 5174-91			pCi/L	Batch # 0067296	Yld %			F0C080000-296B
Total Uranium	0.315	J	0.039	0.693	0.21	03/10/10	03/12/10	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0C020468
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gamma Cs-137 & Hits by EPA 901.1 MOD		**pCi/L**		**901.1 MOD**			**F0C020000-272C**
Americium 241	141000	146000	11000	600		103	(87 - 110)
Cesium 137	53100	52300	3000	300		98	(90 - 110)
Cobalt 60	87900	85500	4800	200		97	(89 - 110)
	Batch #:	0061272		**Analysis Date:**	03/17/10		
TRITIUM (Distill) by EPA 906.0 MOD		**pCi/L**		**906.0 MOD**			**F0C080000-136C**
Tritium	4520	4700	480	130		104	(85 - 112)
	Batch #:	0067136		**Analysis Date:**	03/09/10		
Total Uranium by KPA ASTM 5174-91		**pCi/L**		**5174-91**			**F0C080000-296C**
Total Uranium	27.7	28.6	3.5	0.2		103	(90 - 120)
	Batch #:	0067296		**Analysis Date:**	03/12/10		
Total Uranium by KPA ASTM 5174-91		**pCi/L**		**5174-91**			**F0C080000-296C**
Total Uranium	5.54	5.62	0.58	0.21		101	(90 - 120)
	Batch #:	0067296		**Analysis Date:**	03/12/10		
Gross Alpha/Beta EPA 900		**pCi/L**		**900.0 MOD**			**F0C090000-099C**
Gross Beta	68.0	63.9	5.4	0.8		94	(58 - 133)
	Batch #:	0068099		**Analysis Date:**	03/15/10		
Gross Alpha/Beta EPA 900		**pCi/L**		**900.0 MOD**			**F0C090000-099C**
Gross Alpha	49.4	51.5	5.8	1.0		104	(62 - 134)
	Batch #:	0068099		**Analysis Date:**	03/15/10		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F0C020468
Matrix: WATER

Parameter		Spike Amount	Result		Total Uncert. (2 σ+/-)	% Yld	% Rec	QC Control Limits	Lab Sample ID Precision	
Radium 226 by EPA 903.0 MOD				**pCi/L**	**903.0 MOD**				**F0C020000-258C**	
Radium (226)		11.3	11.5		0.999	104	102	(68 - 136)		
	Spk 2	11.3	11.8		1.0	105	105	(68 - 136)	2	%RPD
		Batch #:	0061258			Analysis Date:		03/25/10		
Radium 228 by GFPC EPA 904 MOD				**pCi/L**	**904 MOD**				**F0C020000-259C**	
Radium 228		6.37	6.04		0.73	99	95	(60 - 142)		
	Spk 2	6.37	6.00		0.71	103	94	(60 - 142)	0.5	%RPD
		Batch #:	0061259			Analysis Date:		03/18/10		
SR-90 BY GFPC EPA-905 MOD				**pCi/L**	**905 MOD**				**F0C020000-262C**	
Strontium 90		6.79	6.99		0.80	77	103	(80 - 130)		
	Spk 2	6.79	6.53		0.76	77	96	(80 - 130)	7	%RPD
		Batch #:	0061262			Analysis Date:		03/11/10		

NOTE(S)

Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: F0C020462 Date Sampled: 02/26/10
Matrix: WATER Date Received: 03/02/10

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID %YLD	QC Sample ID %REC	QC Control Limits
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F0C020462-001**	
Gross Alpha	49.4	47.1	5.5		2.1	1.2		91	(35 - 150)
	Batch #:	0068099		Analysis Date:		03/14/10			
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F0C020462-001**	
Gross Beta	68.0	74.2	6.2		1.50	0.79		107	(54 - 150)
	Batch #:	0068099		Analysis Date:		03/14/10			
TRITIUM (Distill) by EPA 906.0 MOD			**pCi/L**		**906.0 MOD**			**F0C020465-001**	
Tritium	4520	4260	450		130	92		92	(62 - 147)
	Batch #:	0067136		Analysis Date:		03/09/10			

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID: F0B230452
Matrix: WATER

Date Sampled: 02/20/10 1349
Date Received: 02/23/10 0910

Parameter		Spike Amount	SPIKE Result	Total Uncert. (2 σ+/-)	Spike Yld	SAMPLE Result		Total Uncert. (2σ +/-)	QC Sample ID % Yld	%Rec	QC Control Limits
Total Uranium by KPA ASTM 5				**pCi/L**		**5174-91**			**F0B230452-001**		
Total Uranium		27.7	28.1	3.4		0.677	J	0.074		99	(62 - 150)
	Spk2	27.7	26.9	3.3		0.677	J	0.074		95	(62 - 150)
									Precision:	4	%RPD

Batch #: 0067296 **Analysis date:** 03/12/10

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off error in calculated results

J Result is greater than sample detection limit but less than stated reporting limit.

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F0C020468
Matrix: WATER

Date Sampled: 02/26/10
Date Received: 03/02/10

Parameter	SAMPLE Result		Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result		Total Uncert. (2 σ+/-)	% Yld	QC Sample ID Precision	
Gamma Cs-137 & Hits by EPA 901.1 MOD				**pCi/L**	**901.1 MOD**				**F0C020462-001**	
Cesium 137	-1.6	U	6.8		1.6	U	8.4		5730	%RPD
Potassium 40	-80	U	440		-80	U	3300		2	%RPD
	Batch #:		0061272	(Sample)	0061272		(Duplicate)			
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**	**906.0 MOD**				**F0C020462-001**	
Tritium	49	U	79		86	U	84		55	%RPD
	Batch #:		0067136	(Sample)	0067136		(Duplicate)			
Gross Alpha/Beta EPA 900				**pCi/L**	**900.0 MOD**				**F0C020462-001**	
Gross Alpha	2.1	J	1.2		1.89	J	0.97		9	%RPD
Gross Beta	1.50	J	0.79		1.52	J	0.70		1	%RPD
	Batch #:		0068099	(Sample)	0068099		(Duplicate)			

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off error in calculated results

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

CUR 30°

SUBCONTRACT ORDER
TestAmerica Irvine
ITB2827

SENDING LABORATORY:

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

RECEIVING LABORATORY:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone :(314) 298-8566
Fax: (314) 298-8757
Project Location: CA - CALIFORNIA
Receipt Temperature: ____ °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: ITB2827-03 (OUTFALL 002 (COMPOSITE) - Wate Sampled: 02/28/10 07:29						
Gamma Spec-O	mg/kg	03/10/10	02/28/11 07:29	$200.00	50%	Out St Louis, k-40 and cs-137 only, DO NOT FILTER!
Gross Alpha-O	pCi/L	03/10/10	08/27/10 07:29	$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O	pCi/L	03/10/10	08/27/10 07:29	$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 Data Package - Out	N/A	03/10/10	03/28/10 07:29	$0.00	0%	
Radium 226-O	pCi/L	03/10/10	02/28/11 07:29	$88.00	0%	Out St Louis, Boeing permit, DO NOT FILTER!
Radium 228-O	pCi/L	03/10/10	02/28/11 07:29	$84.00	0%	Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	pCi/L	03/10/10	02/28/11 07:29	$140.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	pCi/L	03/10/10	02/28/11 07:29	$80.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Uranium, Combined-O	pCi/L	03/10/10	02/28/11 07:29	$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!

Containers Supplied:
2.5 gal Poly (S) 500 mL Amber (T)

Released By	3/1/10 17:00 Date/Time	FedEX Received By	3/1/10 17:08 Date/Time
Released By	Date/Time	Received By	3/2/10 9:15 Date/Time

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F0C020457, 468
460
462
465
466

CONDITION UPON RECEIPT FORM

Client: TA Irvine
Quote No: 77635, 85044
COC/RFA No: Below
304
Initiated By: AB
Date: 3-2-10 Time: 9:15

Shipping Information

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

Shipping # (s):*				Sample Temperature (s);**			
1.	4289 0133 5249	6.		1.	5	6.	
2.	5043	7.		2.	ambient	7.	
3.	5032	8.		3.	↓	8.	
4.	5054	9.		4.	↓	9.	
5.		10.		5.		10.	

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

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

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

Notes: COC- ITB 2701 - IAT 3/9/10 per KC
2802827
2837
2835
2829 3 did not receive COC of WS w/ COC HB 3-2-10
2751 3
2766

Corrective Action:
☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____
Project Management Review: Jaymark Pohl Date: 3-4-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.