

APPENDIX G

Section 61

Outfall 018 – January 18 & 19, 2010

Test America Analytical Laboratory Report

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LABORATORY REPORT

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

Project: Routine Outfall 018

Sampled: 01/18/10-01/19/10
Received: 01/18/10
Revised: 04/02/10 15:09

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

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 15 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

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

ADDITIONAL INFORMATION: Final revised report to provide corrected units and .pdf data file for Radchem.

LABORATORY ID

ITA1331-01
ITA1331-03

CLIENT ID

Outfall 018 (Grab)
Outfall 018 (Comp)

MATRIX

Water
Water

Reviewed By:



TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
 Received: 01/18/10

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: ITA1331-01 (Outfall 018 (Grab) - Water) | | | | | Sampled: 01/18/10 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Benzene | EPA 624 | 10A2207 | 0.28 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| Carbon tetrachloride | EPA 624 | 10A2207 | 0.28 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| Chloroform | EPA 624 | 10A2207 | 0.33 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| 1,1-Dichloroethane | EPA 624 | 10A2207 | 0.40 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| 1,2-Dichloroethane | EPA 624 | 10A2207 | 0.28 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| 1,1-Dichloroethene | EPA 624 | 10A2207 | 0.42 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| 1,2-Dichloro-1,1,2-trifluoroethane | EPA 624 | 10A2207 | 1.1 | 2.0 | ND | 1 | 01/22/10 | 01/24/10 | |
| Ethylbenzene | EPA 624 | 10A2207 | 0.25 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| Tetrachloroethene | EPA 624 | 10A2207 | 0.32 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| Toluene | EPA 624 | 10A2207 | 0.36 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| 1,1,1-Trichloroethane | EPA 624 | 10A2207 | 0.30 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| 1,1,2-Trichloroethane | EPA 624 | 10A2207 | 0.30 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| Trichloroethene | EPA 624 | 10A2207 | 0.26 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| Trichlorofluoromethane | EPA 624 | 10A2207 | 0.34 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| Trichlorotrifluoroethane (Freon 113) | EPA 624 | 10A2207 | 0.50 | 5.0 | ND | 1 | 01/22/10 | 01/24/10 | |
| Vinyl chloride | EPA 624 | 10A2207 | 0.40 | 0.50 | ND | 1 | 01/22/10 | 01/24/10 | |
| Xylenes, Total | EPA 624 | 10A2207 | 0.90 | 1.5 | ND | 1 | 01/22/10 | 01/24/10 | |
| Cyclohexane | EPA 624 | 10A2207 | 0.40 | 1.0 | ND | 1 | 01/22/10 | 01/24/10 | |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i> | | | | | 96 % | | | | |
| <i>Surrogate: Dibromofluoromethane (80-120%)</i> | | | | | 100 % | | | | |
| <i>Surrogate: Toluene-d8 (80-120%)</i> | | | | | 107 % | | | | |

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Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
 Received: 01/18/10

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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | 10A1840 | 1.6 | 4.8 | ND | 0.952 | 01/20/10 | 01/22/10 | |
| 2,4-Dinitrotoluene | EPA 625 | 10A1840 | 0.19 | 8.6 | ND | 0.952 | 01/20/10 | 01/22/10 | |
| N-Nitrosodimethylamine | EPA 625 | 10A1840 | 0.095 | 7.6 | ND | 0.952 | 01/20/10 | 01/22/10 | |
| Pentachlorophenol | EPA 625 | 10A1840 | 0.095 | 7.6 | ND | 0.952 | 01/20/10 | 01/22/10 | |
| 2,4,6-Trichlorophenol | EPA 625 | 10A1840 | 0.095 | 5.7 | ND | 0.952 | 01/20/10 | 01/22/10 | |
| <i>Surrogate: 2,4,6-Tribromophenol (40-120%)</i> | | | | | 90 % | | | | |
| <i>Surrogate: 2-Fluorobiphenyl (50-120%)</i> | | | | | 78 % | | | | |
| <i>Surrogate: 2-Fluorophenol (30-120%)</i> | | | | | 66 % | | | | |
| <i>Surrogate: Nitrobenzene-d5 (45-120%)</i> | | | | | 79 % | | | | |
| <i>Surrogate: Phenol-d6 (35-120%)</i> | | | | | 75 % | | | | |
| <i>Surrogate: Terphenyl-d14 (50-125%)</i> | | | | | 91 % | | | | |

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Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

ORGANOCHLORINE PESTICIDES (EPA 608)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------------------------------------|---------|---------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| alpha-BHC | EPA 608 | 10A1743 | 0.0024 | 0.0094 | ND | 0.943 | 01/20/10 | 01/26/10 | |
| <i>Surrogate: Decachlorobiphenyl (45-120%)</i> | | | | | 79 % | | | | |
| <i>Surrogate: Tetrachloro-m-xylene (35-115%)</i> | | | | | 72 % | | | | |

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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: ITA1331-01 (Outfall 018 (Grab) - Water) | | | | | Sampled: 01/18/10 | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | EPA 1664A | 10A1674 | 1.3 | 4.8 | ND | 1 | 01/19/10 | 01/19/10 | |

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 Received: 01/18/10

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------------------------------------|-----------|---------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 10A1799 | 0.015 | 0.040 | 1.6 | 1 | 01/20/10 | 01/26/10 | |
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Mercury | EPA 245.1 | 10A2021 | 0.10 | 0.20 | ND | 1 | 01/21/10 | 01/21/10 | |
| Cadmium | EPA 200.8 | 10A1800 | 0.10 | 1.0 | ND | 1 | 01/20/10 | 01/25/10 | |
| Copper | EPA 200.8 | 10A1800 | 0.50 | 2.0 | 4.0 | 1 | 01/20/10 | 01/25/10 | |
| Lead | EPA 200.8 | 10A1800 | 0.20 | 1.0 | 1.5 | 1 | 01/20/10 | 01/25/10 | |
| Manganese | EPA 200.8 | 10A1800 | 0.70 | 1.0 | 140 | 1 | 01/20/10 | 01/25/10 | |
| Selenium | EPA 200.8 | 10A1800 | 0.50 | 2.0 | ND | 1 | 01/20/10 | 01/25/10 | |
| Zinc | EPA 200.8 | 10A1800 | 5.0 | 20 | 15 | 1 | 01/20/10 | 01/25/10 | J |

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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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 10A2355 | 0.015 | 0.040 | 0.026 | 1 | 01/25/10 | 01/27/10 | J |
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Cadmium | EPA 200.8-Diss | 10A2339 | 0.10 | 1.0 | 0.19 | 1 | 01/25/10 | 01/27/10 | J |
| Copper | EPA 200.8-Diss | 10A2339 | 0.50 | 2.0 | 2.1 | 1 | 01/25/10 | 01/27/10 | |
| Lead | EPA 200.8-Diss | 10A2339 | 0.20 | 1.0 | 0.23 | 1 | 01/25/10 | 01/27/10 | J |
| Manganese | EPA 200.8-Diss | 10A2339 | 0.70 | 1.0 | 53 | 1 | 01/25/10 | 01/27/10 | |
| Selenium | EPA 200.8-Diss | 10A2339 | 0.50 | 2.0 | ND | 1 | 01/25/10 | 01/27/10 | |
| Zinc | EPA 200.8-Diss | 10A2339 | 5.0 | 20 | ND | 1 | 01/25/10 | 01/27/10 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------------------------------------|-------------|---------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Ammonia-N (Distilled) | SM4500NH3-C | 10A2181 | 0.50 | 0.50 | ND | 1 | 01/22/10 | 01/22/10 | |
| Biochemical Oxygen Demand | SM5210B | 10A1816 | 0.50 | 2.0 | 2.1 | 1 | 01/20/10 | 01/25/10 | |
| Chloride | EPA 300.0 | 10A1647 | 0.25 | 0.50 | 16 | 1 | 01/19/10 | 01/19/10 | |
| Nitrate-N | EPA 300.0 | 10A1647 | 0.060 | 0.11 | 0.11 | 1 | 01/19/10 | 01/19/10 | |
| Nitrite-N | EPA 300.0 | 10A1647 | 0.090 | 0.15 | ND | 1 | 01/19/10 | 01/19/10 | |
| Nitrate/Nitrite-N | EPA 300.0 | 10A1647 | 0.15 | 0.26 | ND | 1 | 01/19/10 | 01/19/10 | |
| Sulfate | EPA 300.0 | 10A1647 | 2.0 | 5.0 | 200 | 10 | 01/19/10 | 01/20/10 | |
| Surfactants (MBAS) | SM5540-C | 10A1873 | 0.025 | 0.10 | 0.066 | 1 | 01/20/10 | 01/20/10 | J |
| Total Dissolved Solids | SM2540C | 10A1751 | 1.0 | 10 | 440 | 1 | 01/20/10 | 01/20/10 | |
| Total Suspended Solids | SM 2540D | 10A2192 | 1.0 | 10 | 12 | 1 | 01/22/10 | 01/22/10 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------------------------------------|------------|---------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: ITA1331-01 (Outfall 018 (Grab) - Water) | | | | | Sampled: 01/18/10 | | | | |
| Reporting Units: ml/l | | | | | | | | | |
| Total Settleable Solids | SM2540F | 10A1659 | 0.10 | 0.10 | ND | 1 | 01/19/10 | 01/19/10 | |
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 10A1822 | 0.080 | 2.0 | 47 | 2 | 01/20/10 | 01/20/10 | |
| Sample ID: ITA1331-01 (Outfall 018 (Grab) - Water) | | | | | Sampled: 01/18/10 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Total Cyanide | SM4500CN-E | 10A1691 | 2.2 | 5.0 | ND | 1 | 01/19/10 | 01/19/10 | |
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Perchlorate | EPA 314.0 | 10A2275 | 0.90 | 4.0 | ND | 1 | 01/25/10 | 01/25/10 | |
| Sample ID: ITA1331-01 (Outfall 018 (Grab) - Water) | | | | | Sampled: 01/18/10 | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 10A1624 | 1.0 | 1.0 | 1100 | 1 | 01/19/10 | 01/19/10 | |

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Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

ASTM 5174-91

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------------------------------------|--------------|-------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: pCi/L | | | | | | | | | |
| Total Uranium | ASTM 5174-91 | 35029 | 0.21 | 0.693 | 0.289 | 1 | 02/04/10 | 02/08/10 | Jb |

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Sampled: 01/18/10-01/19/10
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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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: pCi/L | | | | | | | | | |
| Gross Alpha | EPA 900.0 MOD | 25415 | 1.7 | 3 | 2.2 | 1 | 01/25/10 | 01/29/10 | Jb |
| Gross Beta | EPA 900.0 MOD | 25415 | 1.7 | 4 | 6.8 | 1 | 01/25/10 | 01/29/10 | |

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Sampled: 01/18/10-01/19/10
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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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: pCi/L | | | | | | | | | |
| Cesium 137 | EPA 901.1 MOD | 23036 | 12 | 20 | 0.2 | 1 | 01/23/10 | 01/26/10 | U |
| Potassium 40 | EPA 901.1 MOD | 23036 | 240 | NA | -90 | 1 | 01/23/10 | 01/26/10 | 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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: pCi/L | | | | | | | | | |
| Radium (226) | EPA 903.0 MOD | 22145 | 0.15 | 1 | 0.13 | 1 | 01/22/10 | 02/08/10 | U |

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Sampled: 01/18/10-01/19/10
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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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: pCi/L | | | | | | | | | |
| Radium 228 | EPA 904 MOD | 22148 | 0.69 | 1 | 0.13 | 1 | 01/22/10 | 02/08/10 | 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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: pCi/L | | | | | | | | | |
| Strontium 90 | EPA 905 MOD | 22149 | 0.5 | 3 | 0.06 | 1 | 01/22/10 | 02/01/10 | 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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: pCi/L | | | | | | | | | |
| Tritium | EPA 906.0 MOD | 28080 | 140 | 500 | 118 | 1 | 01/28/10 | 01/29/10 | U |

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

EPA-5 1613B

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------------------------------------|-------------|-------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: ug/L | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | EPA-5 1613B | 26267 | 0.0000062 | 0.000047 | 8e-005 | 0.94 | 01/26/10 | 02/02/10 | B |
| 1,2,3,4,6,7,8-HpCDF | EPA-5 1613B | 26267 | 0.0000034 | 0.000047 | 1.3e-005 | 0.94 | 01/26/10 | 02/02/10 | J, B |
| 1,2,3,4,7,8,9-HpCDF | EPA-5 1613B | 26267 | 0.0000054 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 1,2,3,4,7,8-HxCDD | EPA-5 1613B | 26267 | 0.0000039 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 1,2,3,4,7,8-HxCDF | EPA-5 1613B | 26267 | 0.0000032 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 1,2,3,6,7,8-HxCDD | EPA-5 1613B | 26267 | 0.0000033 | 0.000047 | 3.1e-006 | 0.94 | 01/26/10 | 02/02/10 | J, Q, B |
| 1,2,3,6,7,8-HxCDF | EPA-5 1613B | 26267 | 0.0000027 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 1,2,3,7,8,9-HxCDD | EPA-5 1613B | 26267 | 0.0000028 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 1,2,3,7,8,9-HxCDF | EPA-5 1613B | 26267 | 0.0000003 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 1,2,3,7,8-PeCDD | EPA-5 1613B | 26267 | 0.0000075 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 1,2,3,7,8-PeCDF | EPA-5 1613B | 26267 | 0.0000004 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 2,3,4,6,7,8-HxCDF | EPA-5 1613B | 26267 | 0.0000025 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 2,3,4,7,8-PeCDF | EPA-5 1613B | 26267 | 0.0000045 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 2,3,7,8-TCDD | EPA-5 1613B | 26267 | 0.0000027 | 0.0000094 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| 2,3,7,8-TCDF | EPA-5 1613B | 26267 | 0.0000022 | 0.0000094 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| OCDD | EPA-5 1613B | 26267 | 0.000016 | 0.000094 | 0.00096 | 0.94 | 01/26/10 | 02/02/10 | B |
| OCDF | EPA-5 1613B | 26267 | 0.0000062 | 0.000094 | 3.3e-005 | 0.94 | 01/26/10 | 02/02/10 | J, B |
| Total HpCDD | EPA-5 1613B | 26267 | 0.0000062 | 0.000047 | 0.00016 | 0.94 | 01/26/10 | 02/02/10 | B |
| Total HpCDF | EPA-5 1613B | 26267 | 0.0000034 | 0.000047 | 3.2e-005 | 0.94 | 01/26/10 | 02/02/10 | B |
| Total HxCDD | EPA-5 1613B | 26267 | 0.0000028 | 0.000047 | 1.1e-005 | 0.94 | 01/26/10 | 02/02/10 | J, Q, B |
| Total HxCDF | EPA-5 1613B | 26267 | 0.0000025 | 0.000047 | 1.4e-006 | 0.94 | 01/26/10 | 02/02/10 | J, Q, B |
| Total PeCDD | EPA-5 1613B | 26267 | 0.0000075 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| Total PeCDF | EPA-5 1613B | 26267 | 0.0000003 | 0.000047 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| Total TCDD | EPA-5 1613B | 26267 | 0.0000027 | 0.0000094 | ND | 0.94 | 01/26/10 | 02/02/10 | |
| Total TCDF | EPA-5 1613B | 26267 | 0.0000022 | 0.0000094 | ND | 0.94 | 01/26/10 | 02/02/10 | |

| | |
|----------------------------------------------|-------|
| Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) | 90 % |
| Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) | 104 % |
| Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) | 90 % |
| Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) | 80 % |
| Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) | 76 % |
| Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) | 96 % |
| Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) | 86 % |
| Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) | 82 % |
| Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) | 66 % |
| Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) | 63 % |
| Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) | 94 % |
| Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) | 64 % |
| Surrogate: 13C-2,3,7,8-TCDD (25-164%) | 66 % |
| Surrogate: 13C-2,3,7,8-TCDF (24-169%) | 56 % |
| Surrogate: 13C-OCDD (17-157%) | 91 % |
| Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) | 92 % |

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 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

D4464

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------------------------------------|--------|----------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | Sampled: 01/19/10 | | | | |
| Reporting Units: % | | | | | | | | | |
| Silt | D4464 | '[none]' | N/A | 0.01 | 4.02 | 1 | 01/27/10 | 01/27/10 | |
| Clay | D4464 | '[none]' | N/A | 0.01 | 2.30 | 1 | 01/27/10 | 01/27/10 | |
| Sand | D4464 | '[none]' | N/A | 0.01 | 93.69 | 1 | 01/27/10 | 01/27/10 | |

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618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|-----------------------------------------------------------|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: Outfall 018 (Grab) (ITA1331-01) - Water | | | | | |
| SM2540F | 2 | 01/18/2010 16:00 | 01/18/2010 19:00 | 01/19/2010 10:30 | 01/19/2010 10:30 |
| Sample ID: Outfall 018 (Comp) (ITA1331-03) - Water | | | | | |
| EPA 180.1 | 2 | 01/19/2010 13:41 | 01/18/2010 19:00 | 01/20/2010 14:30 | 01/20/2010 14:30 |
| EPA 300.0 | 2 | 01/19/2010 13:41 | 01/18/2010 19:00 | 01/19/2010 21:45 | 01/19/2010 22:37 |
| Filtration | 1 | 01/19/2010 13:41 | 01/18/2010 19:00 | 01/20/2010 16:50 | 01/20/2010 16:53 |
| SM5210B | 2 | 01/19/2010 13:41 | 01/18/2010 19:00 | 01/20/2010 09:37 | 01/25/2010 10:20 |
| SM5540-C | 2 | 01/19/2010 13:41 | 01/18/2010 19:00 | 01/20/2010 13:35 | 01/20/2010 14:42 |

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

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------------------|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| Batch: 10A2207 Extracted: 01/22/10 | | | | | | | | | | | |
| Blank Analyzed: 01/24/2010 (10A2207-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 | | | | | | | |
| 1,2-Dichloro-1,1,2-trifluoroethane | ND | 2.0 | 1.1 | 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 | | | | | | | |
| Trichlorotrifluoroethane (Freon 113) | ND | 5.0 | 0.50 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | 0.40 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.5 | 0.90 | ug/l | | | | | | | |
| Cyclohexane | ND | 1.0 | 0.40 | ug/l | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 24.3 | | | ug/l | 25.0 | | 97 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 24.4 | | | ug/l | 25.0 | | 97 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.3 | | | ug/l | 25.0 | | 105 | 80-120 | | | |

LCS Analyzed: 01/24/2010 (10A2207-BS1)

| | | | | | | | | | | | |
|------------------------|------|------|------|------|------|--|-----|--------|--|--|--|
| Benzene | 24.6 | 0.50 | 0.28 | ug/l | 25.0 | | 98 | 70-120 | | | |
| Carbon tetrachloride | 25.1 | 0.50 | 0.28 | ug/l | 25.0 | | 100 | 65-140 | | | |
| Chloroform | 23.9 | 0.50 | 0.33 | ug/l | 25.0 | | 96 | 70-130 | | | |
| 1,1-Dichloroethane | 23.9 | 0.50 | 0.40 | ug/l | 25.0 | | 95 | 70-125 | | | |
| 1,2-Dichloroethane | 25.0 | 0.50 | 0.28 | ug/l | 25.0 | | 100 | 60-140 | | | |
| 1,1-Dichloroethene | 24.4 | 0.50 | 0.42 | ug/l | 25.0 | | 97 | 70-125 | | | |
| Ethylbenzene | 25.9 | 0.50 | 0.25 | ug/l | 25.0 | | 103 | 75-125 | | | |
| Tetrachloroethene | 24.9 | 0.50 | 0.32 | ug/l | 25.0 | | 100 | 70-125 | | | |
| Toluene | 25.5 | 0.50 | 0.36 | ug/l | 25.0 | | 102 | 70-120 | | | |
| 1,1,1-Trichloroethane | 23.9 | 0.50 | 0.30 | ug/l | 25.0 | | 96 | 65-135 | | | |
| 1,1,2-Trichloroethane | 26.1 | 0.50 | 0.30 | ug/l | 25.0 | | 104 | 70-125 | | | |
| Trichloroethene | 25.2 | 0.50 | 0.26 | ug/l | 25.0 | | 101 | 70-125 | | | |
| Trichlorofluoromethane | 25.1 | 0.50 | 0.34 | ug/l | 25.0 | | 100 | 65-145 | | | |

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 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------------------------------------|--------|-----------------|------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| Batch: 10A2207 Extracted: 01/22/10 | | | | | | | | | | | |
| LCS Analyzed: 01/24/2010 (10A2207-BS1) | | | | | | | | | | | |
| Vinyl chloride | 20.7 | 0.50 | 0.40 | ug/l | 25.0 | | 83 | 55-135 | | | |
| Xylenes, Total | 80.4 | 1.5 | 0.90 | ug/l | 75.0 | | 107 | 70-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.2 | | | ug/l | 25.0 | | 105 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 25.3 | | | ug/l | 25.0 | | 101 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.6 | | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Matrix Spike Analyzed: 01/24/2010 (10A2207-MS1) | | | | | | | | | | | |
| | | | | | | Source: ITA1329-01 | | | | | |
| Benzene | 20.7 | 0.50 | 0.28 | ug/l | 25.0 | ND | 83 | 65-125 | | | |
| Carbon tetrachloride | 20.6 | 0.50 | 0.28 | ug/l | 25.0 | ND | 83 | 65-140 | | | |
| Chloroform | 20.8 | 0.50 | 0.33 | ug/l | 25.0 | ND | 83 | 65-135 | | | |
| 1,1-Dichloroethane | 20.1 | 0.50 | 0.40 | ug/l | 25.0 | ND | 80 | 65-130 | | | |
| 1,2-Dichloroethane | 21.6 | 0.50 | 0.28 | ug/l | 25.0 | ND | 86 | 60-140 | | | |
| 1,1-Dichloroethane | 17.5 | 0.50 | 0.42 | ug/l | 25.0 | ND | 70 | 60-130 | | | |
| Ethylbenzene | 23.1 | 0.50 | 0.25 | ug/l | 25.0 | ND | 93 | 65-130 | | | |
| Tetrachloroethene | 22.1 | 0.50 | 0.32 | ug/l | 25.0 | ND | 88 | 65-130 | | | |
| Toluene | 22.3 | 0.50 | 0.36 | ug/l | 25.0 | ND | 89 | 70-125 | | | |
| 1,1,1-Trichloroethane | 20.4 | 0.50 | 0.30 | ug/l | 25.0 | ND | 81 | 65-140 | | | |
| 1,1,2-Trichloroethane | 22.7 | 0.50 | 0.30 | ug/l | 25.0 | ND | 91 | 65-130 | | | |
| Trichloroethene | 21.3 | 0.50 | 0.26 | ug/l | 25.0 | ND | 85 | 65-125 | | | |
| Trichlorofluoromethane | 17.3 | 0.50 | 0.34 | ug/l | 25.0 | ND | 69 | 60-145 | | | |
| Vinyl chloride | 9.75 | 0.50 | 0.40 | ug/l | 25.0 | ND | 39 | 45-140 | | | M2 |
| Xylenes, Total | 71.3 | 1.5 | 0.90 | ug/l | 75.0 | ND | 95 | 60-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.1 | | | ug/l | 25.0 | | 104 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 25.4 | | | ug/l | 25.0 | | 102 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.7 | | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 01/24/2010 (10A2207-MSD1) | | | | | | | | | | | |
| | | | | | | Source: ITA1329-01 | | | | | |
| Benzene | 21.6 | 0.50 | 0.28 | ug/l | 25.0 | ND | 87 | 65-125 | 5 | 20 | |
| Carbon tetrachloride | 21.6 | 0.50 | 0.28 | ug/l | 25.0 | ND | 87 | 65-140 | 5 | 25 | |
| Chloroform | 22.3 | 0.50 | 0.33 | ug/l | 25.0 | ND | 89 | 65-135 | 7 | 20 | |
| 1,1-Dichloroethane | 20.9 | 0.50 | 0.40 | ug/l | 25.0 | ND | 84 | 65-130 | 4 | 20 | |
| 1,2-Dichloroethane | 23.5 | 0.50 | 0.28 | ug/l | 25.0 | ND | 94 | 60-140 | 9 | 20 | |
| 1,1-Dichloroethane | 18.6 | 0.50 | 0.42 | ug/l | 25.0 | ND | 75 | 60-130 | 6 | 20 | |
| Ethylbenzene | 24.0 | 0.50 | 0.25 | ug/l | 25.0 | ND | 96 | 65-130 | 4 | 20 | |
| Tetrachloroethene | 22.9 | 0.50 | 0.32 | ug/l | 25.0 | ND | 92 | 65-130 | 4 | 20 | |
| Toluene | 23.6 | 0.50 | 0.36 | ug/l | 25.0 | ND | 94 | 70-125 | 6 | 20 | |

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
 Received: 01/18/10

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: 10A2207 Extracted: 01/22/10 | | | | | | | | | | | |
| Matrix Spike Dup Analyzed: 01/24/2010 (10A2207-MSD1) | | | | | | Source: ITA1329-01 | | | | | |
| 1,1,1-Trichloroethane | 21.2 | 0.50 | 0.30 | ug/l | 25.0 | ND | 85 | 65-140 | 4 | 20 | |
| 1,1,2-Trichloroethane | 24.9 | 0.50 | 0.30 | ug/l | 25.0 | ND | 99 | 65-130 | 9 | 25 | |
| Trichloroethene | 22.6 | 0.50 | 0.26 | ug/l | 25.0 | ND | 90 | 65-125 | 6 | 20 | |
| Trichlorofluoromethane | 18.5 | 0.50 | 0.34 | ug/l | 25.0 | ND | 74 | 60-145 | 6 | 25 | |
| Vinyl chloride | 10.1 | 0.50 | 0.40 | ug/l | 25.0 | ND | 40 | 45-140 | 3 | 30 | M2 |
| Xylenes, Total | 74.6 | 1.5 | 0.90 | ug/l | 75.0 | ND | 99 | 60-130 | 4 | 20 | |
| Surrogate: 4-Bromofluorobenzene | 26.0 | | | ug/l | 25.0 | | 104 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 25.5 | | | ug/l | 25.0 | | 102 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.7 | | | ug/l | 25.0 | | 107 | 80-120 | | | |

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
 Project Manager

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

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

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|----------------------------------------------------|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| Batch: 10A1840 Extracted: 01/20/10 | | | | | | | | | | | |
| Blank Analyzed: 01/22/2010 (10A1840-BLK1) | | | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 1.7 | ug/l | | | | | | | |
| 2,4-Dinitrotoluene | ND | 9.0 | 0.20 | ug/l | | | | | | | |
| N-Nitrosodimethylamine | 0.520 | 8.0 | 0.10 | ug/l | | | | | | | J |
| Pentachlorophenol | ND | 8.0 | 0.10 | ug/l | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 6.0 | 0.10 | ug/l | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | 18.6 | | | ug/l | 20.0 | | 93 | 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 8.42 | | | ug/l | 10.0 | | 84 | 50-120 | | | |
| Surrogate: 2-Fluorophenol | 15.2 | | | ug/l | 20.0 | | 76 | 30-120 | | | |
| Surrogate: Nitrobenzene-d5 | 8.50 | | | ug/l | 10.0 | | 85 | 45-120 | | | |
| Surrogate: Phenol-d6 | 15.9 | | | ug/l | 20.0 | | 79 | 35-120 | | | |
| Surrogate: Terphenyl-d14 | 10.5 | | | ug/l | 10.0 | | 105 | 50-125 | | | |
| LCS Analyzed: 01/22/2010 (10A1840-BS1) | | | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 11.6 | 5.0 | 1.7 | ug/l | 10.0 | | 116 | 65-130 | | | |
| 2,4-Dinitrotoluene | 8.42 | 9.0 | 0.20 | ug/l | 10.0 | | 84 | 65-120 | | | J |
| N-Nitrosodimethylamine | 7.60 | 8.0 | 0.10 | ug/l | 10.0 | | 76 | 45-120 | | | J |
| Pentachlorophenol | 8.78 | 8.0 | 0.10 | ug/l | 10.0 | | 88 | 50-120 | | | |
| 2,4,6-Trichlorophenol | 8.54 | 6.0 | 0.10 | ug/l | 10.0 | | 85 | 55-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 18.5 | | | ug/l | 20.0 | | 92 | 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 8.06 | | | ug/l | 10.0 | | 81 | 50-120 | | | |
| Surrogate: 2-Fluorophenol | 12.3 | | | ug/l | 20.0 | | 61 | 30-120 | | | |
| Surrogate: Nitrobenzene-d5 | 7.60 | | | ug/l | 10.0 | | 76 | 45-120 | | | |
| Surrogate: Phenol-d6 | 13.9 | | | ug/l | 20.0 | | 69 | 35-120 | | | |
| Surrogate: Terphenyl-d14 | 9.84 | | | ug/l | 10.0 | | 98 | 50-125 | | | |
| LCS Dup Analyzed: 01/22/2010 (10A1840-BSD1) | | | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 10.4 | 5.0 | 1.7 | ug/l | 10.0 | | 104 | 65-130 | 11 | 20 | |
| 2,4-Dinitrotoluene | 7.76 | 9.0 | 0.20 | ug/l | 10.0 | | 78 | 65-120 | 8 | 20 | J |
| N-Nitrosodimethylamine | 7.70 | 8.0 | 0.10 | ug/l | 10.0 | | 77 | 45-120 | 1 | 20 | J |
| Pentachlorophenol | 8.30 | 8.0 | 0.10 | ug/l | 10.0 | | 83 | 50-120 | 6 | 25 | |
| 2,4,6-Trichlorophenol | 8.00 | 6.0 | 0.10 | ug/l | 10.0 | | 80 | 55-120 | 7 | 30 | |
| Surrogate: 2,4,6-Tribromophenol | 17.2 | | | ug/l | 20.0 | | 86 | 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 7.54 | | | ug/l | 10.0 | | 75 | 50-120 | | | |
| Surrogate: 2-Fluorophenol | 12.7 | | | ug/l | 20.0 | | 63 | 30-120 | | | |
| Surrogate: Nitrobenzene-d5 | 7.32 | | | ug/l | 10.0 | | 73 | 45-120 | | | |
| Surrogate: Phenol-d6 | 14.1 | | | ug/l | 20.0 | | 71 | 35-120 | | | |

TestAmerica Irvine

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Project Manager

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

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

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: 10A1840 Extracted: 01/20/10 | | | | | | | | | | | |
| LCS Dup Analyzed: 01/22/2010 (10A1840-BSD1) | | | | | | | | | | | |
| Surrogate: Terphenyl-d14 | 8.56 | | | ug/l | 10.0 | | 86 | 50-125 | | | |

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The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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Sampled: 01/18/10-01/19/10
 Received: 01/18/10

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: 10A1743 Extracted: 01/20/10 | | | | | | | | | | | |
| Blank Analyzed: 01/26/2010 (10A1743-BLK1) | | | | | | | | | | | |
| alpha-BHC | ND | 0.010 | 0.0025 | ug/l | | | | | | | |
| Surrogate: Decachlorobiphenyl | 0.475 | | | ug/l | 0.500 | | 95 | 45-120 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.447 | | | ug/l | 0.500 | | 89 | 35-115 | | | |
| LCS Analyzed: 01/26/2010 (10A1743-BS1) | | | | | | | | | | | |
| alpha-BHC | 0.432 | 0.010 | 0.0025 | ug/l | 0.500 | | 86 | 45-115 | | | MNR1 |
| Surrogate: Decachlorobiphenyl | 0.473 | | | ug/l | 0.500 | | 95 | 45-120 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.423 | | | ug/l | 0.500 | | 85 | 35-115 | | | |
| LCS Dup Analyzed: 01/26/2010 (10A1743-BSD1) | | | | | | | | | | | |
| alpha-BHC | 0.448 | 0.010 | 0.0025 | ug/l | 0.500 | | 90 | 45-115 | 3 | 30 | |
| Surrogate: Decachlorobiphenyl | 0.465 | | | ug/l | 0.500 | | 93 | 45-120 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.422 | | | ug/l | 0.500 | | 84 | 35-115 | | | |

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 Received: 01/18/10

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: 10A1674 Extracted: 01/19/10 | | | | | | | | | | | |
| Blank Analyzed: 01/19/2010 (10A1674-BLK1) | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | ND | 5.0 | 1.4 | mg/l | | | | | | | |
| LCS Analyzed: 01/19/2010 (10A1674-BS1) | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | 19.3 | 5.0 | 1.4 | mg/l | 20.0 | | 96 | 78-114 | | | MNR1 |
| LCS Dup Analyzed: 01/19/2010 (10A1674-BSD1) | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | 19.1 | 5.0 | 1.4 | mg/l | 20.0 | | 96 | 78-114 | 1 | 11 | |

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 Received: 01/18/10

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------------------------------------|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 10A1799 Extracted: 01/20/10 | | | | | | | | | | | |
| Blank Analyzed: 01/26/2010 (10A1799-BLK1) | | | | | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| LCS Analyzed: 01/26/2010 (10A1799-BS1) | | | | | | | | | | | |
| Iron | 0.493 | 0.040 | 0.015 | mg/l | 0.500 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 01/26/2010 (10A1799-MS1) | | | | | | | | | | | |
| | | | | | | Source: ITA1255-01 | | | | | |
| Iron | 1.19 | 0.040 | 0.015 | mg/l | 0.500 | 0.718 | 93 | 70-130 | | | |
| Matrix Spike Analyzed: 01/26/2010 (10A1799-MS2) | | | | | | | | | | | |
| | | | | | | Source: ITA1463-01 | | | | | |
| Iron | 2.08 | 0.040 | 0.015 | mg/l | 0.500 | 1.55 | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/26/2010 (10A1799-MSD1) | | | | | | | | | | | |
| | | | | | | Source: ITA1255-01 | | | | | |
| Iron | 1.26 | 0.040 | 0.015 | mg/l | 0.500 | 0.718 | 107 | 70-130 | 6 | 20 | |
| Batch: 10A1800 Extracted: 01/20/10 | | | | | | | | | | | |
| Blank Analyzed: 01/25/2010 (10A1800-BLK1) | | | | | | | | | | | |
| Cadmium | ND | 1.0 | 0.10 | 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 | | | | | | | |
| Selenium | ND | 2.0 | 0.50 | ug/l | | | | | | | |
| Zinc | ND | 20 | 5.0 | ug/l | | | | | | | |
| LCS Analyzed: 01/25/2010 (10A1800-BS1) | | | | | | | | | | | |
| Cadmium | 74.1 | 1.0 | 0.10 | ug/l | 80.0 | | 93 | 85-115 | | | |
| Copper | 73.8 | 2.0 | 0.50 | ug/l | 80.0 | | 92 | 85-115 | | | |
| Lead | 74.3 | 1.0 | 0.20 | ug/l | 80.0 | | 93 | 85-115 | | | |
| Manganese | 77.4 | 1.0 | 0.70 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Selenium | 73.9 | 2.0 | 0.50 | ug/l | 80.0 | | 92 | 85-115 | | | |
| Zinc | 74.3 | 20 | 5.0 | ug/l | 80.0 | | 93 | 85-115 | | | |

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Received: 01/18/10

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------------------------------------|--------|-----------------|------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| Batch: 10A1800 Extracted: 01/20/10 | | | | | | | | | | | |
| Matrix Spike Analyzed: 01/25/2010 (10A1800-MS1) | | | | | | Source: ITA1401-01 | | | | | |
| Cadmium | 77.9 | 1.0 | 0.10 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Copper | 86.3 | 2.0 | 0.50 | ug/l | 80.0 | 6.94 | 99 | 70-130 | | | |
| Lead | 118 | 1.0 | 0.20 | ug/l | 80.0 | 39.4 | 98 | 70-130 | | | |
| Manganese | 113 | 1.0 | 0.70 | ug/l | 80.0 | 27.2 | 107 | 70-130 | | | |
| Selenium | 77.8 | 2.0 | 0.50 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Zinc | 150 | 20 | 5.0 | ug/l | 80.0 | 72.4 | 97 | 70-130 | | | |
| Matrix Spike Analyzed: 01/25/2010 (10A1800-MS2) | | | | | | Source: ITA1478-01 | | | | | |
| Cadmium | 80.5 | 2.0 | 0.20 | ug/l | 80.0 | 0.628 | 100 | 70-130 | | | |
| Copper | 101 | 4.0 | 1.0 | ug/l | 80.0 | 19.2 | 102 | 70-130 | | | |
| Lead | 130 | 2.0 | 0.40 | ug/l | 80.0 | 47.6 | 103 | 70-130 | | | |
| Manganese | 201 | 2.0 | 1.4 | ug/l | 80.0 | 117 | 104 | 70-130 | | | |
| Selenium | 81.5 | 4.0 | 1.0 | ug/l | 80.0 | 1.61 | 100 | 70-130 | | | |
| Zinc | 186 | 40 | 10 | ug/l | 80.0 | 93.9 | 116 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/25/2010 (10A1800-MSD1) | | | | | | Source: ITA1401-01 | | | | | |
| Cadmium | 79.0 | 1.0 | 0.10 | ug/l | 80.0 | ND | 99 | 70-130 | 1 | 20 | |
| Copper | 87.7 | 2.0 | 0.50 | ug/l | 80.0 | 6.94 | 101 | 70-130 | 2 | 20 | |
| Lead | 120 | 1.0 | 0.20 | ug/l | 80.0 | 39.4 | 101 | 70-130 | 2 | 20 | |
| Manganese | 115 | 1.0 | 0.70 | ug/l | 80.0 | 27.2 | 109 | 70-130 | 2 | 20 | |
| Selenium | 79.9 | 2.0 | 0.50 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Zinc | 153 | 20 | 5.0 | ug/l | 80.0 | 72.4 | 101 | 70-130 | 2 | 20 | |
| Batch: 10A2021 Extracted: 01/21/10 | | | | | | | | | | | |
| Blank Analyzed: 01/21/2010 (10A2021-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.10 | ug/l | | | | | | | |

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 Received: 01/18/10

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------------------------------------|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 10A2021 Extracted: 01/21/10</u> | | | | | | | | | | | |
| LCS Analyzed: 01/21/2010 (10A2021-BS1) | | | | | | | | | | | |
| Mercury | 8.50 | 0.20 | 0.10 | ug/l | 8.00 | | 106 | 85-115 | | | |
| Matrix Spike Analyzed: 01/21/2010 (10A2021-MS1) | | | | | | | | | | | |
| | | | | | | Source: ITA1598-01 | | | | | |
| Mercury | 8.24 | 0.20 | 0.10 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/21/2010 (10A2021-MSD1) | | | | | | | | | | | |
| | | | | | | Source: ITA1598-01 | | | | | |
| Mercury | 8.31 | 0.20 | 0.10 | ug/l | 8.00 | ND | 104 | 70-130 | 0.9 | 20 | |

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Received: 01/18/10

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------------------------|--------|-----------------|------|-------|-------------|------------------------------|-----------|-------------|-----|-----------|-----------------|
| Batch: 10A2339 Extracted: 01/25/10 | | | | | | | | | | | |
| Blank Analyzed: 01/27/2010 (10A2339-BLK1) | | | | | | | | | | | |
| Cadmium | ND | 1.0 | 0.10 | 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 | | | | | | | |
| Selenium | ND | 2.0 | 0.50 | ug/l | | | | | | | |
| Zinc | ND | 20 | 5.0 | ug/l | | | | | | | |
| LCS Analyzed: 01/27/2010 (10A2339-BS1) | | | | | | | | | | | |
| Cadmium | 70.4 | 1.0 | 0.10 | ug/l | 80.0 | | 88 | 85-115 | | | |
| Copper | 77.2 | 2.0 | 0.50 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 75.6 | 1.0 | 0.20 | ug/l | 80.0 | | 94 | 85-115 | | | |
| Manganese | 76.4 | 1.0 | 0.70 | ug/l | 80.0 | | 95 | 85-115 | | | |
| Selenium | 71.8 | 2.0 | 0.50 | ug/l | 80.0 | | 90 | 85-115 | | | |
| Zinc | 76.0 | 20 | 5.0 | ug/l | 80.0 | | 95 | 85-115 | | | |
| Matrix Spike Analyzed: 01/27/2010 (10A2339-MS1) | | | | | | | | | | | |
| | | | | | | Source: ITA1331-03 | | | | | |
| Cadmium | 73.7 | 1.0 | 0.10 | ug/l | 80.0 | 0.186 | 92 | 70-130 | | | |
| Copper | 75.9 | 2.0 | 0.50 | ug/l | 80.0 | 2.12 | 92 | 70-130 | | | |
| Lead | 70.1 | 1.0 | 0.20 | ug/l | 80.0 | 0.235 | 87 | 70-130 | | | |
| Manganese | 129 | 1.0 | 0.70 | ug/l | 80.0 | 53.4 | 95 | 70-130 | | | |
| Selenium | 77.1 | 2.0 | 0.50 | ug/l | 80.0 | ND | 96 | 70-130 | | | |
| Zinc | 72.6 | 20 | 5.0 | ug/l | 80.0 | ND | 91 | 70-130 | | | |
| Matrix Spike Analyzed: 01/27/2010 (10A2339-MS2) | | | | | | | | | | | |
| | | | | | | Source: ITA1674-01RE1 | | | | | |
| Cadmium | 77.4 | 1.0 | 0.10 | ug/l | 80.0 | 0.292 | 96 | 70-130 | | | |
| Copper | 80.4 | 2.0 | 0.50 | ug/l | 80.0 | 3.70 | 96 | 70-130 | | | |
| Lead | 70.1 | 1.0 | 0.20 | ug/l | 80.0 | 0.423 | 87 | 70-130 | | | |
| Manganese | 86.3 | 1.0 | 0.70 | ug/l | 80.0 | 11.1 | 94 | 70-130 | | | |
| Selenium | 77.5 | 2.0 | 0.50 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Zinc | 84.0 | 20 | 5.0 | ug/l | 80.0 | 11.5 | 91 | 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: 10A2339 Extracted: 01/25/10 | | | | | | | | | | | |
| Matrix Spike Dup Analyzed: 01/27/2010 (10A2339-MSD1) | | | | | | Source: ITA1331-03 | | | | | |
| Cadmium | 75.7 | 1.0 | 0.10 | ug/l | 80.0 | 0.186 | 94 | 70-130 | 3 | 20 | |
| Copper | 76.2 | 2.0 | 0.50 | ug/l | 80.0 | 2.12 | 93 | 70-130 | 0.4 | 20 | |
| Lead | 69.8 | 1.0 | 0.20 | ug/l | 80.0 | 0.235 | 87 | 70-130 | 0.4 | 20 | |
| Manganese | 131 | 1.0 | 0.70 | ug/l | 80.0 | 53.4 | 97 | 70-130 | 2 | 20 | |
| Selenium | 77.0 | 2.0 | 0.50 | ug/l | 80.0 | ND | 96 | 70-130 | 0.03 | 20 | |
| Zinc | 72.2 | 20 | 5.0 | ug/l | 80.0 | ND | 90 | 70-130 | 0.5 | 20 | |

Batch: 10A2355 Extracted: 01/25/10

Blank Analyzed: 01/27/2010 (10A2355-BLK1)

| | | | | |
|------|----|-------|-------|------|
| Iron | ND | 0.040 | 0.015 | mg/l |
|------|----|-------|-------|------|

LCS Analyzed: 01/27/2010 (10A2355-BS1)

| | | | | | | | |
|------|-------|-------|-------|------|-------|-----|--------|
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | 100 | 85-115 |
|------|-------|-------|-------|------|-------|-----|--------|

Matrix Spike Analyzed: 01/27/2010 (10A2355-MS1)

Source: ITA1813-01

| | | | | | | | | |
|------|-------|-------|-------|------|-------|-------|-----|--------|
| Iron | 0.616 | 0.040 | 0.015 | mg/l | 0.500 | 0.114 | 100 | 70-130 |
|------|-------|-------|-------|------|-------|-------|-----|--------|

Matrix Spike Analyzed: 01/27/2010 (10A2355-MS2)

Source: ITA1954-01

| | | | | | | | | |
|------|-------|-------|-------|------|-------|-------|-----|--------|
| Iron | 0.661 | 0.040 | 0.015 | mg/l | 0.500 | 0.147 | 103 | 70-130 |
|------|-------|-------|-------|------|-------|-------|-----|--------|

Matrix Spike Dup Analyzed: 01/27/2010 (10A2355-MSD1)

Source: ITA1813-01

| | | | | | | | | | | |
|------|-------|-------|-------|------|-------|-------|----|--------|---|----|
| Iron | 0.602 | 0.040 | 0.015 | mg/l | 0.500 | 0.114 | 97 | 70-130 | 2 | 20 |
|------|-------|-------|-------|------|-------|-------|----|--------|---|----|

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------------------------|--------|-----------------|-------|----------|-------------|---------------------------|-----------|-------------|------|-----------|-----------------|
| Batch: 10A1624 Extracted: 01/19/10 | | | | | | | | | | | |
| Blank Analyzed: 01/19/2010 (10A1624-BLK1) | | | | | | | | | | | |
| Specific Conductance | ND | 1.0 | 1.0 | umhos/cm | | | | | | | |
| LCS Analyzed: 01/19/2010 (10A1624-BS1) | | | | | | | | | | | |
| Specific Conductance | 1420 | 1.0 | 1.0 | umhos/cm | 1410 | | 101 | 90-110 | | | |
| Duplicate Analyzed: 01/19/2010 (10A1624-DUP1) | | | | | | | | | | | |
| | | | | | | Source: ITA1293-03 | | | | | |
| Specific Conductance | 112 | 1.0 | 1.0 | umhos/cm | | 111 | | | 0.09 | 5 | |
| Batch: 10A1647 Extracted: 01/19/10 | | | | | | | | | | | |
| Blank Analyzed: 01/19/2010 (10A1647-BLK1) | | | | | | | | | | | |
| Chloride | ND | 0.50 | 0.25 | mg/l | | | | | | | |
| Nitrate-N | ND | 0.11 | 0.060 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.090 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.15 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.20 | mg/l | | | | | | | |
| LCS Analyzed: 01/19/2010 (10A1647-BS1) | | | | | | | | | | | |
| Chloride | 4.93 | 0.50 | 0.25 | mg/l | 5.00 | | 99 | 90-110 | | | M-3 |
| Nitrate-N | 1.09 | 0.11 | 0.060 | mg/l | 1.13 | | 96 | 90-110 | | | |
| Nitrite-N | 1.50 | 0.15 | 0.090 | mg/l | 1.52 | | 99 | 90-110 | | | |
| Sulfate | 9.95 | 0.50 | 0.20 | mg/l | 10.0 | | 100 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 01/19/2010 (10A1647-MS1) | | | | | | | | | | | |
| | | | | | | Source: ITA1426-01 | | | | | |
| Nitrate-N | 2.15 | 0.11 | 0.060 | mg/l | 1.13 | 1.05 | 97 | 80-120 | | | |
| Nitrite-N | 1.77 | 0.15 | 0.090 | mg/l | 1.52 | ND | 116 | 80-120 | | | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------------------------------------|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 10A1647 Extracted: 01/19/10</u> | | | | | | | | | | | |
| Matrix Spike Analyzed: 01/20/2010 (10A1647-MS2) | | | | | | Source: ITA1331-03 | | | | | |
| Chloride | 67.6 | 5.0 | 2.5 | mg/l | 50.0 | 16.4 | 102 | 80-120 | | | |
| Nitrate-N | 11.7 | 1.1 | 0.60 | mg/l | 11.3 | 0.112 | 102 | 80-120 | | | |
| Nitrite-N | 15.9 | 1.5 | 0.90 | mg/l | 15.2 | ND | 104 | 80-120 | | | |
| Sulfate | 301 | 5.0 | 2.0 | mg/l | 100 | 205 | 96 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 01/19/2010 (10A1647-MSD1) | | | | | | Source: ITA1426-01 | | | | | |
| Nitrate-N | 2.19 | 0.11 | 0.060 | mg/l | 1.13 | 1.05 | 101 | 80-120 | 2 | 20 | |
| Nitrite-N | 1.80 | 0.15 | 0.090 | mg/l | 1.52 | ND | 118 | 80-120 | 2 | 20 | |
| <u>Batch: 10A1691 Extracted: 01/19/10</u> | | | | | | | | | | | |
| Blank Analyzed: 01/19/2010 (10A1691-BLK1) | | | | | | | | | | | |
| Total Cyanide | ND | 5.0 | 2.2 | ug/l | | | | | | | |
| LCS Analyzed: 01/19/2010 (10A1691-BS1) | | | | | | | | | | | |
| Total Cyanide | 198 | 5.0 | 2.2 | ug/l | 200 | | 99 | 90-110 | | | |
| Matrix Spike Analyzed: 01/19/2010 (10A1691-MS1) | | | | | | Source: ITA1331-01 | | | | | |
| Total Cyanide | 201 | 5.0 | 2.2 | ug/l | 200 | ND | 101 | 70-115 | | | |
| Matrix Spike Dup Analyzed: 01/19/2010 (10A1691-MSD1) | | | | | | Source: ITA1331-01 | | | | | |
| Total Cyanide | 203 | 5.0 | 2.2 | ug/l | 200 | ND | 102 | 70-115 | 1 | 15 | |
| <u>Batch: 10A1751 Extracted: 01/20/10</u> | | | | | | | | | | | |
| Blank Analyzed: 01/20/2010 (10A1751-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 1.0 | mg/l | | | | | | | |

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 Attention: Bronwyn Kelly

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Report Number: ITA1331

Sampled: 01/18/10-01/19/10
 Received: 01/18/10

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|------------------------------------------------------|--------|-----------------|-------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <u>Batch: 10A1751 Extracted: 01/20/10</u> | | | | | | | | | | | |
| LCS Analyzed: 01/20/2010 (10A1751-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 998 | 10 | 1.0 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 01/20/2010 (10A1751-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 1020 | 10 | 1.0 | mg/l | | 1020 | | | 0.8 | 10 | |
| <u>Batch: 10A1816 Extracted: 01/20/10</u> | | | | | | | | | | | |
| Blank Analyzed: 01/25/2010 (10A1816-BLK1) | | | | | | | | | | | |
| Biochemical Oxygen Demand | ND | 2.0 | 0.50 | mg/l | | | | | | | |
| LCS Analyzed: 01/25/2010 (10A1816-BS1) | | | | | | | | | | | |
| Biochemical Oxygen Demand | 202 | 100 | 25 | mg/l | 198 | | 102 | 85-115 | | | |
| LCS Dup Analyzed: 01/25/2010 (10A1816-BSD1) | | | | | | | | | | | |
| Biochemical Oxygen Demand | 209 | 100 | 25 | mg/l | 198 | | 106 | 85-115 | 3 | 20 | |
| <u>Batch: 10A1822 Extracted: 01/20/10</u> | | | | | | | | | | | |
| Blank Analyzed: 01/20/2010 (10A1822-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 01/20/2010 (10A1822-DUP1) | | | | | | | | | | | |
| Turbidity | 0.290 | 1.0 | 0.040 | NTU | | 0.320 | | | 10 | 20 | J |
| Duplicate Analyzed: 01/20/2010 (10A1822-DUP2) | | | | | | | | | | | |
| Turbidity | 0.310 | 1.0 | 0.040 | NTU | | 0.300 | | | 3 | 20 | J |

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Received: 01/18/10

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------------------------------------|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 10A1873 Extracted: 01/20/10</u> | | | | | | | | | | | |
| Blank Analyzed: 01/20/2010 (10A1873-BLK1) | | | | | | | | | | | |
| Surfactants (MBAS) | ND | 0.10 | 0.025 | mg/l | | | | | | | |
| LCS Analyzed: 01/20/2010 (10A1873-BS1) | | | | | | | | | | | |
| Surfactants (MBAS) | 0.261 | 0.10 | 0.025 | mg/l | 0.250 | | 104 | 90-110 | | | |
| Matrix Spike Analyzed: 01/20/2010 (10A1873-MS1) | | | | | | | | | | | |
| Surfactants (MBAS) | 0.347 | 0.10 | 0.025 | mg/l | 0.250 | 0.116 | 92 | 50-125 | | | |
| Matrix Spike Dup Analyzed: 01/20/2010 (10A1873-MSD1) | | | | | | | | | | | |
| Surfactants (MBAS) | 0.330 | 0.10 | 0.025 | mg/l | 0.250 | 0.116 | 86 | 50-125 | 5 | 20 | |
| <u>Batch: 10A2181 Extracted: 01/22/10</u> | | | | | | | | | | | |
| Blank Analyzed: 01/22/2010 (10A2181-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.50 | mg/l | | | | | | | |
| LCS Analyzed: 01/22/2010 (10A2181-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.1 | 0.50 | 0.50 | mg/l | 10.0 | | 101 | 80-115 | | | |
| Matrix Spike Analyzed: 01/22/2010 (10A2181-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 9.80 | 0.50 | 0.50 | mg/l | 10.0 | ND | 98 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 01/22/2010 (10A2181-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 9.80 | 0.50 | 0.50 | mg/l | 10.0 | ND | 98 | 70-120 | 0 | 15 | |
| <u>Batch: 10A2192 Extracted: 01/22/10</u> | | | | | | | | | | | |
| Blank Analyzed: 01/22/2010 (10A2192-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 1.0 | mg/l | | | | | | | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------------------------------------|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <u>Batch: 10A2192 Extracted: 01/22/10</u> | | | | | | | | | | | |
| LCS Analyzed: 01/22/2010 (10A2192-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 997 | 10 | 1.0 | mg/l | 1000 | | 100 | 85-115 | | | |
| Duplicate Analyzed: 01/22/2010 (10A2192-DUP1) | | | | | | | | | | | |
| Total Suspended Solids | 49.0 | 10 | 1.0 | mg/l | | 49.0 | | | 0 | 10 | |
| <u>Batch: 10A2275 Extracted: 01/25/10</u> | | | | | | | | | | | |
| Blank Analyzed: 01/25/2010 (10A2275-BLK1) | | | | | | | | | | | |
| Perchlorate | ND | 4.0 | 0.90 | ug/l | | | | | | | |
| LCS Analyzed: 01/25/2010 (10A2275-BS1) | | | | | | | | | | | |
| Perchlorate | 23.8 | 4.0 | 0.90 | ug/l | 25.0 | | 95 | 85-115 | | | |
| Matrix Spike Analyzed: 01/25/2010 (10A2275-MS1) | | | | | | | | | | | |
| Perchlorate | 28.7 | 4.0 | 0.90 | ug/l | 25.0 | 6.12 | 90 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 01/25/2010 (10A2275-MSD1) | | | | | | | | | | | |
| Perchlorate | 29.6 | 4.0 | 0.90 | ug/l | 25.0 | 6.12 | 94 | 80-120 | 3 | 20 | |

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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: 35029 Extracted: 02/04/10 | | | | | | | | | | | |
| Matrix Spike Dup Analyzed: 02/08/2010 (F0A200486001D) | | | | | | Source: F0A200486001 | | | | | |
| Total Uranium | 29.2 | 0.7 | 0.2 | pCi/L | 27.7 | -0.0334 | 105 | 62-150 | 2 | 20 | |
| Matrix Spike Analyzed: 02/08/2010 (F0A200486001S) | | | | | | Source: F0A200486001 | | | | | |
| Total Uranium | 28.8 | 0.7 | 0.2 | pCi/L | 27.7 | -0.0334 | 104 | 62-150 | | | |
| Blank Analyzed: 02/08/2010 (F0B040000029B) | | | | | | Source: | | | | | |
| Total Uranium | -0.0623 | 0.693 | 0.21 | pCi/L | | | | - | | | U |
| LCS Analyzed: 02/08/2010 (F0B040000029C) | | | | | | Source: | | | | | |
| Total Uranium | 29.2 | 0.7 | 0.2 | pCi/L | 27.7 | | 105 | 90-120 | | | |

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 Received: 01/18/10

METHOD BLANK/QC DATA

EPA 900.0 MOD

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|----------------------------------------------------------|--------|-----------------|------|-------|-------------|-----------------------------|-----------|-------------|---------|-----------|-----------------|
| Batch: 25415 Extracted: 01/25/10 | | | | | | | | | | | |
| Matrix Spike Analyzed: 01/29/2010 (F0A200486001S) | | | | | | Source: F0A200486001 | | | | | |
| Gross Alpha | 6.9 | 3 | 1 | pCi/L | 49.4 | 0.98 | 12 | 35-150 | | | a |
| Gross Beta | 10 | 4 | 1.6 | pCi/L | 68.1 | 0.83 | 14 | 54-150 | | | a |
| Duplicate Analyzed: 01/29/2010 (F0A200486001X) | | | | | | Source: F0A200486001 | | | | | |
| Gross Alpha | 0.71 | 3 | 1.4 | pCi/L | | 0.98 | | - | | | Jb |
| Gross Beta | 1.6 | 4 | 1.6 | pCi/L | | 0.83 | | - | | | Jb |
| Blank Analyzed: 01/29/2010 (F0A250000415B) | | | | | | Source: | | | | | |
| Gross Alpha | -0.03 | 3 | 0.71 | pCi/L | | | | - | | | U |
| Gross Beta | -0.26 | 4 | 1.5 | pCi/L | | | | - | | | U |
| LCS Analyzed: 01/29/2010 (F0A250000415C) | | | | | | Source: | | | | | |
| Gross Alpha | 45.4 | 3 | 0.9 | pCi/L | 49.4 | | 92 | 62-134 | | | |
| Gross Beta | 73.4 | 4 | 1.6 | pCi/L | 68.1 | | 108 | 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: 23036 Extracted: 01/23/10 | | | | | | | | | | | |
| Duplicate Analyzed: 01/26/2010 (F0A210532001X) | | | | | | Source: F0A210532001 | | | | | |
| Cesium 137 | -1.4 | 20 | 18 | pCi/L | | -2.3 | | - | | | U |
| Potassium 40 | -60 | NA | 250 | pCi/L | | -30 | | - | | | U |
| Blank Analyzed: 01/26/2010 (F0A230000036B) | | | | | | Source: | | | | | |
| Cesium 137 | -0.4 | 20 | 12 | pCi/L | | | | - | | | U |
| Potassium 40 | -70 | NA | 210 | pCi/L | | | | - | | | U |
| LCS Analyzed: 01/26/2010 (F0A230000036C) | | | | | | Source: | | | | | |
| Americium 241 | 132000 | NA | 500 | pCi/L | 141000 | | 93 | 87-110 | | | |
| Cobalt 60 | 79000 | NA | 200 | pCi/L | 87900 | | 90 | 89-110 | | | |
| Cesium 137 | 48200 | 20 | 200 | pCi/L | 53100 | | 91 | 90-110 | | | |

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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: 22145 Extracted: 01/22/10 | | | | | | | | | | | |
| Blank Analyzed: 02/08/2010 (F0A220000145B) | | | | | | Source: | | | | | |
| Radium (226) | 0.111 | 1 | 0.13 | pCi/L | | | | - | | | U |
| LCS Analyzed: 02/08/2010 (F0A220000145C) | | | | | | Source: | | | | | |
| Radium (226) | 10.7 | 1 | 0.1 | pCi/L | 11.3 | | 95 | 68-136 | | | |
| LCS Dup Analyzed: 02/08/2010 (F0A220000145L) | | | | | | Source: | | | | | |
| Radium (226) | 11.2 | 1 | 0.2 | pCi/L | 11.3 | | 100 | 68-136 | 5 | 40 | |

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 Received: 01/18/10

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: 22148 Extracted: 01/22/10 | | | | | | | | | | | |
| Blank Analyzed: 02/08/2010 (F0A220000148B) | | | | | | Source: | | | | | |
| Radium 228 | 0.22 | 1 | 0.59 | pCi/L | | | | - | | | U |
| LCS Analyzed: 02/08/2010 (F0A220000148C) | | | | | | Source: | | | | | |
| Radium 228 | 8.22 | 1 | 0.61 | pCi/L | 6.45 | | 127 | 60-142 | | | |
| LCS Dup Analyzed: 02/08/2010 (F0A220000148L) | | | | | | Source: | | | | | |
| Radium 228 | 7.58 | 1 | 0.57 | pCi/L | 6.45 | | 118 | 60-142 | 8 | 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: 22149 Extracted: 01/22/10 | | | | | | | | | | | |
| Blank Analyzed: 02/01/2010 (F0A220000149B) | | | | | | | | | | | |
| Strontium 90 | -0.01 | 3 | 0.38 | pCi/L | | | | - | | | U |
| LCS Analyzed: 02/01/2010 (F0A220000149C) | | | | | | | | | | | |
| Strontium 90 | 6.74 | 3 | 0.39 | pCi/L | 6.81 | | 99 | 80-130 | | | |
| LCS Dup Analyzed: 02/01/2010 (F0A220000149L) | | | | | | | | | | | |
| Strontium 90 | 6.99 | 3 | 0.38 | pCi/L | 6.81 | | 103 | 80-130 | 4 | 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: 28080 Extracted: 01/28/10 | | | | | | | | | | | |
| Duplicate Analyzed: 01/29/2010 (F0A200486001X) | | | | | | Source: F0A200486001 | | | | | |
| Tritium | -49 | 500 | 140 | pCi/L | | 99 | - | | | | U |
| Matrix Spike Analyzed: 01/29/2010 (F0A200494001S) | | | | | | Source: F0A200494001 | | | | | |
| Tritium | 4350 | 500 | 140 | pCi/L | 4540 | 64 | 94 | 62-147 | | | |
| Blank Analyzed: 01/28/2010 (F0A280000080B) | | | | | | Source: | | | | | |
| Tritium | 250 | 500 | 140 | pCi/L | | | | | | | Jb |
| LCS Analyzed: 01/28/2010 (F0A280000080C) | | | | | | Source: | | | | | |
| Tritium | 4680 | 500 | 140 | pCi/L | 4540 | | 103 | 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 | %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|---------------------------------------------------|----------|-----------------|-----------|-------|-------------|----------------|-----------|-------------|---------|-----------|-----------------|
| Batch: 26267 Extracted: 01/26/10 | | | | | | | | | | | |
| Blank Analyzed: 02/02/2010 (G0A260000267B) | | | | | | Source: | | | | | |
| 1,2,3,4,6,7,8-HpCDD | 7.9e-006 | 0.00005 | 0.0000056 | ug/L | | | | - | | | J |
| 1,2,3,4,6,7,8-HpCDF | 6.9e-006 | 0.00005 | 0.0000044 | ug/L | | | | - | | | J |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00005 | 0.0000071 | ug/L | | | | - | | | |
| 1,2,3,4,7,8-HxCDD | 4.6e-006 | 0.00005 | 0.0000048 | ug/L | | | | - | | | J |
| 1,2,3,4,7,8-HxCDF | ND | 0.00005 | 0.0000039 | ug/L | | | | - | | | |
| 1,2,3,6,7,8-HxCDD | 6.5e-006 | 0.00005 | 0.0000041 | ug/L | | | | - | | | J |
| 1,2,3,6,7,8-HxCDF | 5.7e-006 | 0.00005 | 0.0000034 | ug/L | | | | - | | | J |
| 1,2,3,7,8,9-HxCDD | 2.7e-006 | 0.00005 | 0.0000033 | ug/L | | | | - | | | J, Q |
| 1,2,3,7,8,9-HxCDF | 2.2e-006 | 0.00005 | 0.0000036 | ug/L | | | | - | | | J, Q |
| 1,2,3,7,8-PeCDD | ND | 0.00005 | 0.0000067 | ug/L | | | | - | | | |
| 1,2,3,7,8-PeCDF | ND | 0.00005 | 0.0000038 | ug/L | | | | - | | | |
| 2,3,4,6,7,8-HxCDF | 6e-006 | 0.00005 | 0.0000031 | ug/L | | | | - | | | J, Q |
| 2,3,4,7,8-PeCDF | ND | 0.00005 | 0.0000042 | ug/L | | | | - | | | |
| 2,3,7,8-TCDD | ND | 0.00001 | 0.0000027 | ug/L | | | | - | | | |
| 2,3,7,8-TCDF | ND | 0.00001 | 0.000002 | ug/L | | | | - | | | |
| OCDD | 2e-005 | 0.0001 | 0.0000089 | ug/L | | | | - | | | J, Q |
| OCDF | 1.6e-005 | 0.0001 | 0.0000089 | ug/L | | | | - | | | J |
| Total HpCDD | 7.9e-006 | 0.00005 | 0.0000056 | ug/L | | | | - | | | J |
| Total HpCDF | 6.9e-006 | 0.00005 | 0.0000044 | ug/L | | | | - | | | J |
| Total HxCDD | 1.4e-005 | 0.00005 | 0.0000035 | ug/L | | | | - | | | J, Q |
| Total HxCDF | 1.4e-005 | 0.00005 | 0.0000031 | ug/L | | | | - | | | J, Q |
| Total PeCDD | ND | 0.00005 | 0.0000067 | ug/L | | | | - | | | |
| Total PeCDF | ND | 0.00005 | 0.0000026 | ug/L | | | | - | | | |
| Total TCDD | ND | 0.00001 | 0.0000027 | ug/L | | | | - | | | |
| Total TCDF | ND | 0.00001 | 0.000002 | ug/L | | | | - | | | |
| Surrogate: 13C-1,2,3,4,6,7,8-HpCDD | 0.0018 | | | ug/L | 0.002 | | 91 | | | | 23-140 |
| Surrogate: 13C-1,2,3,4,6,7,8-HpCDF | 0.0021 | | | ug/L | 0.002 | | 104 | | | | 28-143 |
| Surrogate: 13C-1,2,3,4,7,8,9-HpCDF | 0.0019 | | | ug/L | 0.002 | | 93 | | | | 26-138 |
| Surrogate: 13C-1,2,3,4,7,8-HxCDD | 0.0017 | | | ug/L | 0.002 | | 83 | | | | 32-141 |
| Surrogate: 13C-1,2,3,4,7,8-HxCDF | 0.0015 | | | ug/L | 0.002 | | 77 | | | | 26-152 |
| Surrogate: 13C-1,2,3,6,7,8-HxCDD | 0.0018 | | | ug/L | 0.002 | | 88 | | | | 28-130 |
| Surrogate: 13C-1,2,3,6,7,8-HxCDF | 0.0017 | | | ug/L | 0.002 | | 85 | | | | 26-123 |
| Surrogate: 13C-1,2,3,7,8,9-HxCDF | 0.0017 | | | ug/L | 0.002 | | 85 | | | | 29-147 |
| Surrogate: 13C-1,2,3,7,8-PeCDD | 0.0013 | | | ug/L | 0.002 | | 65 | | | | 25-181 |
| Surrogate: 13C-1,2,3,7,8-PeCDF | 0.0013 | | | ug/L | 0.002 | | 66 | | | | 24-185 |

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 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

EPA-5 1613B

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------------------------------------------------|----------|-----------------|-----------|-------|-------------|----------------|-----------|-------------|-----|-----------|-----------------|
| Batch: 26267 Extracted: 01/26/10 | | | | | | | | | | | |
| Blank Analyzed: 02/02/2010 (G0A260000267B) | | | | | | Source: | | | | | |
| Surrogate: 13C-2,3,4,6,7,8-HxCDF | 0.0019 | | | ug/L | 0.002 | | 93 | 28-136 | | | |
| Surrogate: 13C-2,3,4,7,8-PeCDF | 0.0014 | | | ug/L | 0.002 | | 69 | 21-178 | | | |
| Surrogate: 13C-2,3,7,8-TCDD | 0.0012 | | | ug/L | 0.002 | | 61 | 25-164 | | | |
| Surrogate: 13C-2,3,7,8-TCDF | 0.0012 | | | ug/L | 0.002 | | 60 | 24-169 | | | |
| Surrogate: 13C-OCDD | 0.0036 | | | ug/L | 0.004 | | 89 | 17-157 | | | |
| Surrogate: 37Cl4-2,3,7,8-TCDD | 0.00077 | | | ug/L | 0.0008 | | 96 | 35-197 | | | |
| LCS Analyzed: 02/02/2010 (G0A260000267C) | | | | | | Source: | | | | | |
| 1,2,3,4,6,7,8-HpCDD | 0.00102 | 0.00005 | 0.0000092 | ug/L | 0.001 | | 102 | 70-140 | | | |
| 1,2,3,4,6,7,8-HpCDF | 0.00108 | 0.00005 | 0.0000073 | ug/L | 0.001 | | 108 | 82-122 | | | |
| 1,2,3,4,7,8,9-HpCDF | 0.00111 | 0.00005 | 0.0000012 | ug/L | 0.001 | | 111 | 78-138 | | | |
| 1,2,3,4,7,8-HxCDD | 0.00103 | 0.00005 | 0.0000078 | ug/L | 0.001 | | 103 | 70-164 | | | |
| 1,2,3,4,7,8-HxCDF | 0.00114 | 0.00005 | 0.0000051 | ug/L | 0.001 | | 114 | 72-134 | | | |
| 1,2,3,6,7,8-HxCDD | 0.000964 | 0.00005 | 0.0000063 | ug/L | 0.001 | | 96 | 76-134 | | | |
| 1,2,3,6,7,8-HxCDF | 0.00102 | 0.00005 | 0.0000045 | ug/L | 0.001 | | 102 | 84-130 | | | |
| 1,2,3,7,8,9-HxCDD | 0.000912 | 0.00005 | 0.0000055 | ug/L | 0.001 | | 91 | 64-162 | | | |
| 1,2,3,7,8,9-HxCDF | 0.00102 | 0.00005 | 0.0000046 | ug/L | 0.001 | | 102 | 78-130 | | | |
| 1,2,3,7,8-PeCDD | 0.000999 | 0.00005 | 0.0000085 | ug/L | 0.001 | | 100 | 70-142 | | | |
| 1,2,3,7,8-PeCDF | 0.00104 | 0.00005 | 0.0000054 | ug/L | 0.001 | | 104 | 80-134 | | | |
| 2,3,4,6,7,8-HxCDF | 0.00104 | 0.00005 | 0.0000004 | ug/L | 0.001 | | 104 | 70-156 | | | |
| 2,3,4,7,8-PeCDF | 0.00106 | 0.00005 | 0.0000006 | ug/L | 0.001 | | 106 | 68-160 | | | |
| 2,3,7,8-TCDD | 0.000175 | 0.00001 | 0.0000038 | ug/L | 0.0002 | | 88 | 67-158 | | | |
| 2,3,7,8-TCDF | 0.0002 | 0.00001 | 0.0000027 | ug/L | 0.0002 | | 100 | 75-158 | | | |
| OCDD | 0.002 | 0.0001 | 0.0000021 | ug/L | 0.002 | | 100 | 78-144 | | | |
| OCDF | 0.00214 | 0.0001 | 0.000001 | ug/L | 0.002 | | 107 | 63-170 | | | |
| Surrogate: 13C-1,2,3,4,6,7,8-HpCDD | 0.00169 | | | ug/L | 0.002 | | 84 | 23-140 | | | |
| Surrogate: 13C-1,2,3,4,6,7,8-HpCDF | 0.00191 | | | ug/L | 0.002 | | 96 | 28-143 | | | |
| Surrogate: 13C-1,2,3,4,7,8,9-HpCDF | 0.00165 | | | ug/L | 0.002 | | 83 | 26-138 | | | |
| Surrogate: 13C-1,2,3,4,7,8-HxCDD | 0.00133 | | | ug/L | 0.002 | | 66 | 32-141 | | | |
| Surrogate: 13C-1,2,3,4,7,8-HxCDF | 0.00139 | | | ug/L | 0.002 | | 69 | 26-152 | | | |
| Surrogate: 13C-1,2,3,6,7,8-HxCDD | 0.00175 | | | ug/L | 0.002 | | 88 | 28-130 | | | |
| Surrogate: 13C-1,2,3,6,7,8-HxCDF | 0.00162 | | | ug/L | 0.002 | | 81 | 26-123 | | | |
| Surrogate: 13C-1,2,3,7,8,9-HxCDF | 0.00161 | | | ug/L | 0.002 | | 80 | 29-147 | | | |
| Surrogate: 13C-1,2,3,7,8-PeCDD | 0.00124 | | | ug/L | 0.002 | | 62 | 25-181 | | | |
| Surrogate: 13C-1,2,3,7,8-PeCDF | 0.00123 | | | ug/L | 0.002 | | 62 | 24-185 | | | |
| Surrogate: 13C-2,3,4,6,7,8-HxCDF | 0.00171 | | | ug/L | 0.002 | | 86 | 28-136 | | | |

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 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
 Received: 01/18/10

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: 26267 Extracted: 01/26/10 | | | | | | | | | | | |
| LCS Analyzed: 02/02/2010 (G0A260000267C) | | | | | | | | | | | |
| Surrogate: 13C-2,3,4,7,8-PeCDF | 0.00127 | | | ug/L | 0.002 | | 63 | 21-178 | | | |
| Surrogate: 13C-2,3,7,8-TCDD | 0.00116 | | | ug/L | 0.002 | | 58 | 25-164 | | | |
| Surrogate: 13C-2,3,7,8-TCDF | 0.00112 | | | ug/L | 0.002 | | 56 | 24-169 | | | |
| Surrogate: 13C-OCDD | 0.00318 | | | ug/L | 0.004 | | 80 | 17-157 | | | |
| Surrogate: 37Cl4-2,3,7,8-TCDD | 0.000752 | | | ug/L | 0.0008 | | 94 | 35-197 | | | |

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

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

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 |
|------------|---------------------------------------------------|------------------------------------------|-------|--------|------|------------------|
| ITA1331-01 | 1664-HEM | Hexane Extractable Material (Oil & Greas | mg/l | 0.19 | 4.8 | 15 |
| ITA1331-01 | 624-Boeing 001/002Q (Fr113+X+Fr1,1-Dichloroethene | | ug/l | 0 | 0.50 | 6 |
| ITA1331-01 | 624-Boeing 001/002Q (Fr113+X+FrTrichloroethene | | ug/l | 0 | 0.50 | 5 |
| ITA1331-01 | Cyanide, Total-4500CN-E (5ppb) | Total Cyanide | ug/l | -1 | 5.0 | 8.5 |
| ITA1331-01 | 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 |
|------------|-------------------------------------------------------|----------------------------|-------|--------|--------|------------------|
| ITA1331-03 | 608-Pest Boeing 001/002 Q (LL) | alpha-BHC | ug/l | 0.0010 | 0.0094 | 0.03 |
| ITA1331-03 | 625-Boeing 001/002 Q-LL | 2,4,6-Trichlorophenol | ug/l | 0 | 5.7 | 13 |
| ITA1331-03 | 625-Boeing 001/002 Q-LL | 2,4-Dinitrotoluene | ug/l | 0 | 8.6 | 18 |
| ITA1331-03 | 625-Boeing 001/002 Q-LL | Bis(2-ethylhexyl)phthalate | ug/l | 0.23 | 4.8 | 4 |
| ITA1331-03 | 625-Boeing 001/002 Q-LL | N-Nitrosodimethylamine | ug/l | 0 | 7.6 | 16 |
| ITA1331-03 | 625-Boeing 001/002 Q-LL | Pentachlorophenol | ug/l | 0 | 7.6 | 16 |
| ITA1331-03 | Ammonia-N, Titr 4500NH3-C (w/di:Ammonia-N (Distilled) | | mg/l | 0 | 0.50 | 10 |
| ITA1331-03 | BOD - SM5210B | Biochemical Oxygen Demand | mg/l | 2.08 | 2.0 | 30 |
| ITA1331-03 | Cadmium-200.8 | Cadmium | ug/l | 0.066 | 1.0 | 3.1 |
| ITA1331-03 | Chloride - 300.0 | Chloride | mg/l | 16 | 0.50 | 150 |
| ITA1331-03 | Copper-200.8 | Copper | ug/l | 4.05 | 2.0 | 14 |
| ITA1331-03 | Iron-200.7, Diss | Iron | mg/l | 0.026 | 0.040 | 0.3 |
| ITA1331-03 | Lead-200.8 | Lead | ug/l | 1.53 | 1.0 | 5.2 |
| ITA1331-03 | MBAS - SM5540-C | Surfactants (MBAS) | mg/l | 0.066 | 0.10 | 0.5 |
| ITA1331-03 | Nitrate-N, 300.0 | Nitrate-N | mg/l | 0.11 | 0.11 | 8 |
| ITA1331-03 | Nitrite-N, 300.0 | Nitrite-N | mg/l | 0 | 0.15 | 1 |
| ITA1331-03 | Nitrogen, NO3+NO2 -N EPA 300.0 | Nitrate/Nitrite-N | mg/l | 0.11 | 0.26 | 8 |
| ITA1331-03 | Perchlorate 314.0 - Default | Perchlorate | ug/l | 0 | 4.0 | 6 |
| ITA1331-03 | Selenium-200.8 | Selenium | ug/l | 0.35 | 2.0 | 5 |
| ITA1331-03 | Sulfate-300.0 | Sulfate | mg/l | 205 | 5.0 | 300 |
| ITA1331-03 | TDS - SM2540C | Total Dissolved Solids | mg/l | 437 | 10 | 950 |
| ITA1331-03 | TSS - SM2540D | Total Suspended Solids | mg/l | 12 | 10 | 45 |
| ITA1331-03 | Zinc-200.8 | Zinc | ug/l | 15 | 20 | 120 |

TestAmerica Irvine

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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 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

DATA QUALIFIERS AND DEFINITIONS

- a** Spiked analyte outside of stated QC limits.
- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- 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.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- 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

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

Project ID: Routine Outfall 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

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 | 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

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrnrc

Samples: ITA1331-03

TestAmerica Burlington

30 Community Drive, Suite 11 - South Burlington, VT 05403

Method Performed: D4464

Samples: ITA1331-03

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 018

Report Number: ITA1331

Sampled: 01/18/10-01/19/10
Received: 01/18/10

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITA1331-03

Method Performed: EPA 900.0 MOD
Samples: ITA1331-03

Method Performed: EPA 901.1 MOD
Samples: ITA1331-03

Method Performed: EPA 903.0 MOD
Samples: ITA1331-03

Method Performed: EPA 904 MOD
Samples: ITA1331-03

Method Performed: EPA 905 MOD
Samples: ITA1331-03

Method Performed: EPA 906.0 MOD
Samples: ITA1331-03

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B
Samples: ITA1331-03

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

ETA 1331

| Client Name/Address: | | Project: | | ANALYSIS REQUIRED | | Comments | |
|--------------------------------------------------------------------|---------------|---------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---|
| MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 | | Boeing-SSFL NPDES Quarterly Outfall 018 COMPOSITE | | Alpha BHC (608) + Pesticides + PP Ammonia-N (350.2) Turbidity, TDS, TSS Nitrate-N, Nitrite-N CI, SO ₄ , NO ₃ -NO ₂ -N, Perchlorate Surfactants (MBAS) BOD ₅ (20 degrees C) TCDD (and all congeners) Se, Zn, Fe, Mn | | Total Recoverable Metals: Cu, Pb, Hg, Cd, Zn, Fe, Mn Chronic Toxicity Total Dissolved Metals: Cu, Pb, Hg, Cd, Se, Zn, Fe, Mn | |
| Test America Contact: Joseph Doak | | Project Manager: Bronwyn Kelly | | 2,4,6-TCP, 2,4-Dinitrotoluene, Bis(2-ethylhexyl)phthalate, NDMA, PCP (SVOCs) 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) | | Fe and Mn exceeded on 2/16/09 | |
| Project Number: (626) 568-6691 | | Phone Number: (626) 568-6691 | | 2,4,6-TCP, 2,4-Dinitrotoluene, Bis(2-ethylhexyl)phthalate, NDMA, PCP (SVOCs) | | | |
| Fax Number: (626) 568-6515 | | Fax Number: (626) 568-6515 | | 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) | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | |
| Outfall 018 | W | 1L Poly | 1 | 1/19/10 13:41 | HNO ₃ | 8A | X |
| Outfall 018 Dup | W | 1L Poly | 1 | | HNO ₃ | 8B | X |
| Outfall 018 | W | 1L Amber | 2 | | None | 9A, 9B | |
| Outfall 018 | W | 1L Poly | 1 | | None | 10 | |
| Outfall 018 | W | 500 mL Poly | 2 | | None | 11A, 11B | |
| Outfall 018 | W | 500 mL Poly | 2 | | None | 12A, 12B | |
| Outfall 018 | W | 500 mL Poly | 1 | | None | 13 | |
| Outfall 018 | W | 500 mL Poly | 2 | | None | 14A, 14B | |
| Outfall 018 | W | 500 mL Poly | 1 | | H ₂ SO ₄ | 15 | |
| Outfall 018 | W | 1L Amber | 2 | | None | 16A, 16B | |
| Outfall 018 | W | 1L Amber | 2 | | None | 17A, 17B | |
| Outfall 018 | W | 2.5 Gal Cube | 1 | | None | 18A | |
| Outfall 018 | W | 500 mL Amber | 1 | | None | 18B | |
| Outfall 018 | W | 1 Gal Cube | 1 | | None | 19 | |
| Outfall 018 | W | 1L Poly | 1 | 1/19/10 13:41 | None | 20 | |

COC Page 2 of 2 lists the composite samples for Outfall 018 for this storm event.

These must be added to the same work order for COC Page 1 of 2 for Outfall 018 for the same event as grab samples collected 1/15/10

| | | | |
|------------------------------------|--------------------------|--------------------------------|--------------------------|
| Relinquished By: <i>John Kelly</i> | Date/Time: 1-19-10 14:30 | Received By: <i>John Kelly</i> | Date/Time: 1-19-10 14:30 |
| Relinquished By: <i>John Kelly</i> | Date/Time: 1-19-10 18:55 | Received By: <i>John Kelly</i> | Date/Time: 1-19-10 18:55 |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |

| | | |
|----------------------------|---------------------------------------------|---------------------------------------------------|
| Turn-around time: (Check) | 72 Hour: <input type="checkbox"/> | 10 Day: <input type="checkbox"/> |
| | 5 Day: <input type="checkbox"/> | Normal: <input checked="" type="checkbox"/> |
| Sample Integrity: (Check) | Intact: <input checked="" type="checkbox"/> | On Ice: <input checked="" type="checkbox"/> |
| Data Requirements: (Check) | No Level IV: <input type="checkbox"/> | All Level IV: <input checked="" type="checkbox"/> |

2:30
1/19/10
NPDES

low flow
low flow

SD

3.7

ITA 1331

| | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------|------------|--------------------|--------------|--------------------|--------------------------------|-------------------|-------------------------|-----------------------------|--------------|-------------------------|------------|---------------------------------------------------------------------------------------------|--|-------------------------------|
| Client Name/Address: MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 | | Project: Boeing-SSFL NPDES Quarterly Outfall 018 GRAB | | ANALYSIS REQUIRED | | | | | | | | | | Field readings: (Log in and include in report Temp and pH) Temp °C = 53.6 pH = 7.7 | | |
| Test America Contact: Joseph Doak | | Project Manager: Bronwyn Kelly | | | | | | | | | | | | Phone Number: (626) 568-6691 | | Fax Number: (626) 568-6515 |
| Sampler: <i>SDansen</i> | | | | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | VOCs 624 + xylenes + Freon 113 | Settleable Solids | Oil & Grease (1664-HEM) | Cyanide (total recoverable) | Conductivity | Total Residual Chlorine | | | | |
| Outfall 018 | W | VOAs | 5 | 1/18/10 16:00 | HCl | 1A, 1B, 1C, 1D, 1E | X | | | | | | | | | |
| Outfall 018 | W | 1L Poly | 1 | | None | 2 | | X | | | | | | | | |
| Outfall 018 | W | 1L Amber | 2 | | HCl | 3A, 3B | | | X | | | | | | | |
| Outfall 018 | W | 500 mL Poly | 1 | | NaOH | 4 | | | | X | | | | | | |
| Outfall 018 | W | 500 mL Poly | 2 | 1/18/10 16:00 | None | 5A, 5B | | | | | X | | | | | |
| Outfall 018 | W | VOAs | 3 | 1/18/10 16:00 | HCl | 6A, 6B, 6C | X | | | | | | | | | |
| Outfall 018 | W | 150 mL Poly | 1 | 1/18/10 16:00 | None | 7 | | | | | | X | trip blank | | | |

These Samples are the Grab Portion of Outfall 018 for this storm event. Composite samples will follow and are to be added to this work order.

| | | | |
|----------------------------------------|-----------------------------|----------------------------------|-----------------------------|
| Relinquished By: <i>Joseph Doak</i> | Date/Time: 1-18-10 16:48 | Received By: <i>Max Crump</i> | Date/Time: 1-18-10 16:45 |
| Relinquished By: <i>Joseph Doak</i> | Date/Time: 1-18-10 19:00 | Received By: <i>Max Crump</i> | Date/Time: 1-18-10 19:00 |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |

Turn-around time: (Check)

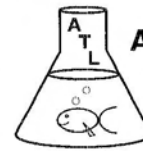
24 Hour: 72 Hour: 10 Day:
48 Hour: 5 Day: Normal:

Sample Integrity: (Check)
Intact: On Ice:

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

| Client Name/Address: MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 | | Project: Boeing-SSFL NPDES Quarterly Outfall 018 COMPOSITE - SD GRAB | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------|-------------|--------------------------------|--------------------------|--------------------------|---------------------------------|--------------------|------------------------------------------------------------------------|----------------------|---------------------|-------------------|-----------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|----------|-------------------------------|
| Test America Contact: Joseph Doak | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | | | | | | | | | | | | | | | | |
| Project Manager: Bronwyn Kelly Sampler: <i>S. Driscoll</i> | | Total Recoverable Metals: Cu, Pb, Hg, Cd, Se, Zn, Fe, Mn | | | | | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Preservative | Bottle # | 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 Z) | Alpha BHC (608) + Pesticides + PP | 2,4,6 TCP, 2,4 Dinitrotoene, 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 | Zn, Fe, Mn | Comments | |
| Outfall 018 | W | 1L Poly | 1 | HNO ₃ | 8A | X | | | | | | | | | | | | | Fe and Mn exceeded on 2/16/09 |
| Outfall 018 Dup | W | 1L Poly | 1 | HNO ₃ | 8B | X | | | | | | | | | | | | | Hold |
| Outfall 018 | W | 1L Amber | 2 | None | 9A, 9B | | | | | | | | | | | | | | |
| Outfall 018 | W | 1L Poly | 1 | None | 10 | | X | | | | | | | | | | | | |
| Outfall 018 | W | 500 mL Poly | 2 | None | 11A, 11B | | | X | | | | | | | | | | | |
| Outfall 018 | W | 500 mL Poly | 2 | None | 12A, 12B | | | | X | | | | | | | | | | |
| Outfall 018 | W | 500 mL Poly | 1 | None | 13 | | | | | | | | | | | | | | |
| Outfall 018 | W | 500 mL Poly | 2 | None | 14A, 14B | | | | | | | | | | | | | | |
| Outfall 018 | W | 500 mL Poly | 1 | H ₂ SO ₄ | 15 | | | | | | | | | | | | | | |
| Outfall 018 | W | 500 mL Poly | 2 | None | 16A, 16B | | | | | | | | | | | | | | |
| Outfall 018 | W | 1L Amber | 2 | None | 17A, 17B | | | | | | | | X | | | | | | |
| Outfall 018 | W | 1L Amber | 2 | None | 18A | | | | | | | | | | | | | | |
| Outfall 018 | W | 2.5 Gal Cube | 1 | None | 18B | | | | | | | | | | | | | | |
| Outfall 018 | W | 500 mL Amber | 1 | None | 19 | | | | | | | | | | | | | | |
| Outfall 018 | W | 1 Gal Cube | 1 | None | 20 | | | | | | | | | | | | | | |
| Outfall 018 | W | 1L Poly | 1 | None | | | | | | | | | | | | | | | |
| COC Page 2 of 2 lists the composite samples for Outfall 018 for this storm event. | | | | | | | | | | | | | | | | | | | |
| These must be added to the same work order for COC Page 1 of 2 for Outfall 018 for the same event. | | | | | | | | | | | | | | | | | | | |
| Relinquished By | Date/Time: 1-18-10 10:45 | | Received By | | Date/Time: 1-18-10 10:45 | | Turn-around time: (Check) | | 72 Hour: _____ | | 5 Day: _____ | | 10 Day: _____ | | Normal: _____ | | X | | |
| Relinquished By | Date/Time: 1-18-10 19:00 | | Received By | | Date/Time: 1-18-10 19:00 | | Sample Integrity: (Check) | | Intact: _____ | | On Ice: _____ | | X | | 30 | | X | | |
| Relinquished By | Date/Time: 1-18-10 19:00 | | Received By | | Date/Time: 1-18-10 19:00 | | Data Requirements: (Check) | | No Level IV: _____ | | All Level IV: _____ | | NPDES Level IV: _____ | | X | | X | | |

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

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

Date: January 28, 2010
Client: TestAmerica, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Joseph Doak

Laboratory No.: A-10012005-001
Sample I.D.: ITA1331-03 (Outfall 018)

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

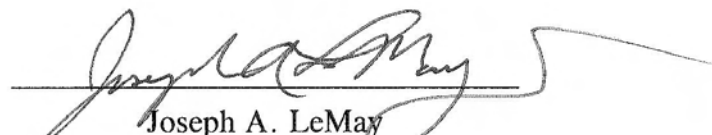
Date Sampled: 01/19/10
Date Received: 01/20/10
Temp. Received: 4.2°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 01/20/10 to 01/27/10

Sample Analysis: The following analyses were performed on your sample:
Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).
Attached are the test data generated from the analysis of your sample.

Result Summary:

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

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

**CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0**



Lab No.: A-10012005-001
Client/ID: Test America - ITA1331-03 (Outfall 018)

Date Tested: 01/20/10 to 01/27/10

TEST SUMMARY

| | |
|-------------------------------------------------|------------------------------------------|
| Test type: Daily static-renewal. | Endpoints: Survival and Reproduction. |
| Species: <i>Ceriodaphnia dubia</i> . | Source: In-laboratory culture. |
| Age: < 24 hrs; all released within 8 hrs. | Food: .1 ml YTC, algae per day. |
| Test vessel size: 30 ml. | Test solution volume: 15 ml. |
| Number of test organisms per vessel: 1. | Number of replicates: 10. |
| Temperature: 25 +/- 1°C. | Photoperiod: 16/8 hrs. light/dark cycle. |
| Dilution water: Mod. hard reconstituted (MHRW). | Test duration: 7 days. |
| QA/QC Batch No.: RT-100119. | Statistics: ToxCalc computer program. |

RESULTS SUMMARY

| Sample Concentration | Percent Survival | Mean Number of Young Per Female |
|-------------------------------------------------------------|------------------|---------------------------------|
| Control | 100% | 23.5 |
| 100% Sample | 100% | 31.4 |
| * Sample not statistically significantly less than Control. | | |

CHRONIC TOXICITY

| | |
|-------------------|------|
| Survival NOEC | 100% |
| Survival TUc | 1.0 |
| Reproduction NOEC | 100% |
| Reproduction TUc | 1.0 |

QA/QC TEST ACCEPTABILITY

| Parameter | Result |
|---------------------------------------------------------------------------------------|--------------------------------------------------------|
| Control survival ≥80% | Pass (100% survival) |
| ≥15 young per surviving control female | Pass (23.5 young) |
| ≥60% surviving controls had 3 broods | Pass (100% with 3 broods) |
| PMSD <47% for reproduction; if >47% and no toxicity at IWC, the test must be repeated | Pass (PMSD = 8.7%) |
| Statistically significantly different concentrations relative difference >13% | Pass (no concentration significantly different) |
| Concentration response relationship acceptable | Pass (no significant response at concentration tested) |

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date: 1/20/2010 13:30 Test ID: 10012005c Sample ID: Outfall 018
 End Date: 1/27/2010 14:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 1/19/2010 13:41 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia

Comments:

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

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

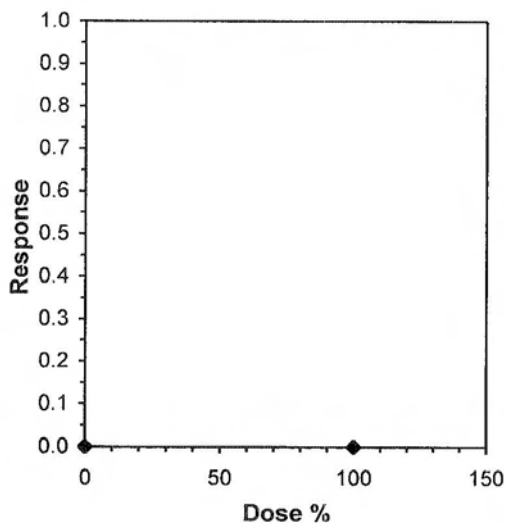
Hypothesis Test (1-tail, 0.05)

Fisher's Exact Test NOEC LOEC ChV TU

Treatments vs B-Control 100 >100 1

Linear Interpolation (200 Resamples)

| Point | % | SD | 95% CL | Skew |
|-------|------|----|--------|------|
| IC05 | >100 | | | |
| IC10 | >100 | | | |
| IC15 | >100 | | | |
| IC20 | >100 | | | |
| IC25 | >100 | | | |
| IC40 | >100 | | | |
| IC50 | >100 | | | |



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 1/20/2010 13:30 Test ID: 10012005c Sample ID: Outfall 018
 End Date: 1/27/2010 14:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 1/19/2010 13:41 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia

Comments:

| Conc-% | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| B-Control | 27.000 | 21.000 | 24.000 | 23.000 | 26.000 | 25.000 | 19.000 | 25.000 | 24.000 | 21.000 |
| 100 | 27.000 | 33.000 | 32.000 | 32.000 | 27.000 | 34.000 | 33.000 | 35.000 | 29.000 | 32.000 |

| Conc-% | Mean | N-Mean | Transform: Untransformed | | | | | Rank Sum | 1-Tailed Critical | Isotonic | |
|-----------|--------|--------|--------------------------|--------|--------|--------|----|----------|-------------------|----------|--------|
| | | | Mean | Min | Max | CV% | N | | | Mean | N-Mean |
| B-Control | 23.500 | 1.0000 | 23.500 | 19.000 | 27.000 | 10.662 | 10 | | | 27.450 | 1.0000 |
| 100 | 31.400 | 1.3362 | 31.400 | 27.000 | 35.000 | 8.907 | 10 | 154.00 | 82.00 | 27.450 | 1.0000 |

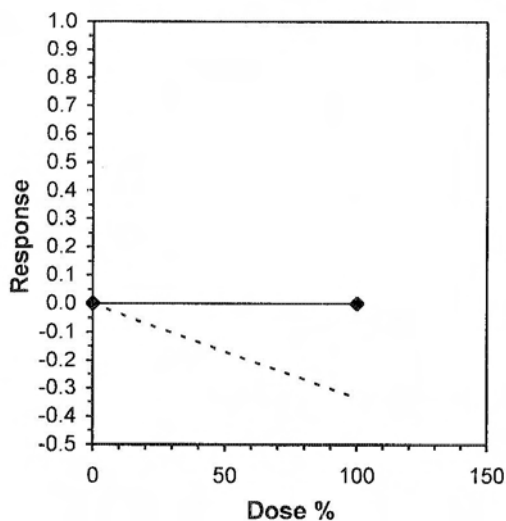
| Auxiliary Tests | Statistic | Critical | Skew | Kurt |
|-------------------------------------------------------------------|-----------|----------|---------|---------|
| Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05) | 0.90423 | 0.905 | -0.5696 | -0.7901 |
| F-Test indicates equal variances (p = 0.75) | 1.24602 | 6.54109 | | |

Hypothesis Test (1-tail, 0.05)

Wilcoxon Two-Sample Test indicates no significant differences
 Treatments vs B-Control

Linear Interpolation (200 Resamples)

| Point | % | SD | 95% CL | Skew |
|-------|------|----|--------|------|
| IC05 | >100 | | | |
| IC10 | >100 | | | |
| IC15 | >100 | | | |
| IC20 | >100 | | | |
| IC25 | >100 | | | |
| IC40 | >100 | | | |
| IC50 | >100 | | | |



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
EPA METHOD 1002.0 Raw Data Sheet



Lab No.: A-10012005-001

Client ID: TestAmerica - ITA1331-03 Outfall 018

Start Date: 01/20/2010

| | | DAY 1 | | DAY 2 | | DAY 3 | | DAY 4 | | DAY 5 | | DAY 6 | | DAY 7 | |
|-------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| | | 0 hr | 24hr | 0 hr | 24hr | 0 hr | 24hr | 0 hr | 24hr | 0 hr | 24hr | 0 hr | 24hr | 0 hr | 24hr |
| Analyst Initials: | | R | R | R | R | R | R | R | R | R | R | R | R | R | R |
| Time of Readings: | | 1330 | 1430 | 1430 | 1330 | 1330 | 1430 | 1430 | 1300 | 1300 | 1400 | 1400 | 1430 | 1430 | 1430 |
| Control | DO | 7.9 | 8.2 | 9.0 | 8.7 | 9.3 | 8.2 | 8.3 | 8.0 | 8.2 | 8.2 | 8.3 | 8.3 | 8.6 | 8.1 |
| | pH | 8.0 | 7.7 | 7.7 | 7.8 | 7.7 | 7.7 | 7.7 | 7.6 | 7.6 | 8.0 | 7.7 | 7.6 | 7.7 | 7.7 |
| | Temp | 25.4 | 24.2 | 25.0 | 24.0 | 25.4 | 24.9 | 24.2 | 24.5 | 24.5 | 24.2 | 24.9 | 24.0 | 24.8 | 24.8 |
| 100% | DO | 10.3 | 7.6 | 9.8 | 8.4 | 11.0 | 8.1 | 8.7 | 8.2 | 9.9 | 7.6 | 10.2 | 8.0 | 10.3 | 7.8 |
| | pH | 7.8 | 7.5 | 7.4 | 7.6 | 7.4 | 7.7 | 7.5 | 7.6 | 7.4 | 7.5 | 7.4 | 7.6 | 7.4 | 7.7 |
| | Temp | 24.8 | 24.4 | 24.4 | 24.4 | 24.4 | 25.2 | 24.5 | 24.2 | 24.4 | 24.0 | 25.0 | 24.3 | 24.6 | 25.4 |

| Additional Parameters | Control | 100% Sample |
|--------------------------------------|---------|-------------|
| Conductivity (umohms) | 345 | 610 |
| Alkalinity (mg/l CaCO ₃) | 72 | 73 |
| Hardness (mg/l CaCO ₃) | 92 | 262 |
| Ammonia (mg/l NH ₃ -N) | <0.1 | 0.5 |

| Source of Neonates | | | | | | | | | | | |
|--------------------|----|----|----|----|----|----|----|----|----|----|--|
| Replicate: | A | B | C | D | E | F | G | H | I | J | |
| Brood ID: | 1A | 2B | 1C | 3D | 1E | 2F | 3G | 1H | 3H | 2J | |

| Sample | Day | Number of Young Produced | | | | | | | | | | Total Live Young | No. Live Adults | Analyst Initials |
|---------|-------|--------------------------|----|----|----|----|----|----|----|----|----|------------------|-----------------|------------------|
| | | A | B | C | D | E | F | G | H | I | J | | | |
| Control | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | R |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | R |
| | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 4 | 10 | 10 | R |
| | 4 | 3 | 4 | 5 | 0 | 4 | 3 | 0 | 4 | 5 | 0 | 28 | 10 | R |
| | 5 | 0 | 0 | 7 | 9 | 7 | 5 | 6 | 9 | 6 | 6 | 55 | 10 | R |
| | 6 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 10 | R |
| | 7 | 16 | 10 | 12 | 11 | 15 | 17 | 10 | 12 | 13 | 11 | 127 | 10 | R |
| | Total | 27 | 21 | 24 | 23 | 26 | 25 | 19 | 25 | 24 | 21 | 235 | 10 | R |
| 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | R |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | R |
| | 3 | 3 | 0 | 0 | 5 | 4 | 4 | 4 | 0 | 3 | 0 | 23 | 10 | R |
| | 4 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 5 | 0 | 4 | 18 | 10 | R |
| | 5 | 0 | 12 | 13 | 10 | 9 | 13 | 13 | 12 | 8 | 12 | 102 | 10 | R |
| | 6 | 7 | 16 | 15 | 17 | 14 | 17 | 16 | 0 | 18 | 16 | 134 | 10 | R |
| | 7 | 17 | 16 | 0 | 0 | 15 | 18 | 17 | 18 | 22 | 0 | 35 | 10 | R |
| | Total | 27 | 33 | 32 | 32 | 27 | 34 | 33 | 35 | 29 | 32 | 314 | 10 | R |

Circled fourth brood not used in statistical analysis.

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

SUBCONTRACT ORDER

TestAmerica Irvine

ITA1331

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756
Project Location: CA - CALIFORNIA
Receipt Temperature: 4.2°C

Ice: Y N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

| Analysis | Units | Expires | Comments |
|---------------------------------------------------------------------------------------------------------------|-------|----------------|------------------------------------------------|
| Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) Sampled: 01/19/10 13:41 | | | |
| Bioassay-7 dy Chrnch | N/A | 01/21/10 01:41 | Cerio, EPA/821-R02-013, Sub to Aquatic testing |
| Containers Supplied: 1 gal Poly (T) | | | |

Nandor [Signature]
Released By
1-20-10 7:30
Date/Time
1-20-10 11:30
Date/Time

Math [Signature]
Received By
1-20-10 7:30
Date/Time
[Signature] ATC
Received By
1-20-10 11:30
Date/Time



Ceriodaphnia dubia
Chronic Toxicity Test
Reference
Toxicant
Data

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-100119

Date Tested: 01/19/10 to 01/26/10

TEST SUMMARY

Test type: Daily static-renewal.
 Species: *Ceriodaphnia dubia*
 Age: <24 hrs; all released within 8 hrs.
 Test vessel size: 30 ml.
 Number of test organisms per vessel: 1.
 Temperature: 25 +/- 1°C.
 Dilution water: Mod. hard reconstituted (MHRW).
 Reference Toxicant: Sodium chloride (NaCl).

Endpoints: Survival and Reproduction.
 Source: In-laboratory culture.
 Food: .1 ml YTC, algae per day.
 Test solution volume: 20 ml.
 Number of replicates: 10.
 Photoperiod: 16/8 hrs. light/dark cycle.
 Test duration: 7 days.
 Statistics: ToxCalc computer program.

RESULTS SUMMARY

| Sample Concentration | Percent Survival | | Mean Number of Young Per Female | |
|----------------------|------------------|---|---------------------------------|----|
| Control | 100% | | 23.4 | |
| 0.25 g/l | 100% | | 25.0 | |
| 0.5 g/l | 100% | | 24.3 | |
| 1.0 g/l | 100% | | 13.7 | * |
| 2.0 g/l | 100% | | 2.7 | * |
| 4.0 g/l | 0% | * | 0 | ** |

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

CHRONIC TOXICITY

| | |
|-------------------|----------|
| Survival LC50 | 2.8 g/l |
| Reproduction IC25 | 0.79 g/l |

QA/QC TEST ACCEPTABILITY

| Parameter | Result |
|--------------------------------------------------|-----------------------------------------------------------|
| Control survival ≥80% | Pass (100% Survival) |
| ≥15 young per surviving control female | Pass (23.4 young) |
| ≥60% surviving controls had 3 broods | Pass (100% with 3 broods) |
| PMSD <47% for reproduction | Pass (PMSD = 9.5%) |
| Stat. sig. diff. conc. relative difference > 13% | Pass (Stat. sig. diff. conc. Relative difference = 41.5%) |
| Concentration response relationship acceptable | Pass (Response curve normal) |

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date: 1/19/2010 14:00 Test ID: RT100119c Sample ID: REF-Ref Toxicant
 End Date: 1/26/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 1/19/2010 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

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

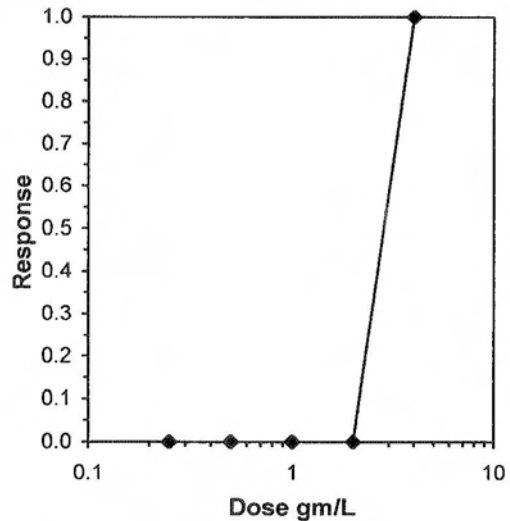
| Conc-gm/L | Mean | N-Mean | Resp | Not Resp | Total | N | Fisher's Exact P | 1-Tailed Critical | Number Resp | Total Number |
|-----------|--------|--------|------|----------|-------|----|------------------|-------------------|-------------|--------------|
| D-Control | 1.0000 | 1.0000 | 0 | 10 | 10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

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

Graphical Method

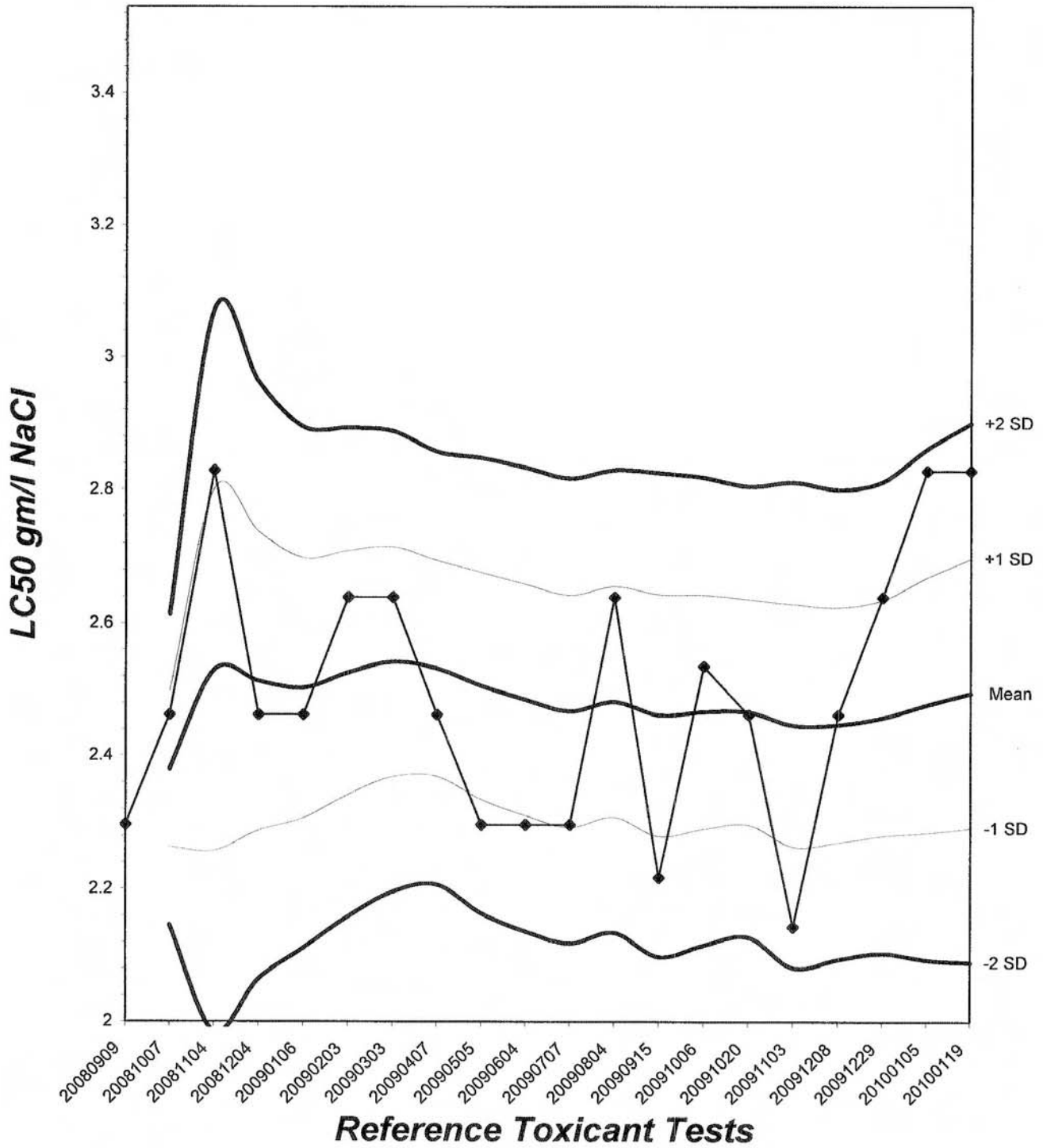
| Trim Level | EC50 |
|------------|--------|
| 0.0% | 2.8284 |

2.8284



Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 8.13



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 1/19/2010 14:00 Test ID: RT100119c Sample ID: REF-Ref Toxicant
 End Date: 1/26/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 1/19/2010 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia

Comments:

| Conc-gm/L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D-Control | 23.000 | 25.000 | 21.000 | 24.000 | 23.000 | 25.000 | 25.000 | 21.000 | 22.000 | 25.000 |
| 0.25 | 23.000 | 26.000 | 27.000 | 24.000 | 24.000 | 25.000 | 27.000 | 22.000 | 28.000 | 24.000 |
| 0.5 | 22.000 | 26.000 | 25.000 | 26.000 | 24.000 | 22.000 | 26.000 | 23.000 | 25.000 | 24.000 |
| 1 | 17.000 | 14.000 | 10.000 | 14.000 | 14.000 | 12.000 | 8.000 | 20.000 | 13.000 | 15.000 |
| 2 | 0.000 | 2.000 | 3.000 | 5.000 | 3.000 | 3.000 | 7.000 | 0.000 | 2.000 | 2.000 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Conc-gm/L | Mean | N-Mean | Transform: Untransformed | | | | | N | t-Stat | 1-Tailed Critical | MSD | Isotonic | |
|-----------|--------|--------|--------------------------|--------|--------|--------|------|--------|--------|-------------------|--------|----------|--|
| | | | Mean | Min | Max | CV% | Mean | | | | | N-Mean | |
| D-Control | 23.400 | 1.0000 | 23.400 | 21.000 | 25.000 | 7.037 | 10 | | | | 24.233 | 1.0000 | |
| 0.25 | 25.000 | 1.0684 | 25.000 | 22.000 | 28.000 | 7.775 | 10 | -1.608 | 2.223 | 2.212 | 24.233 | 1.0000 | |
| 0.5 | 24.300 | 1.0385 | 24.300 | 22.000 | 26.000 | 6.449 | 10 | -0.905 | 2.223 | 2.212 | 24.233 | 1.0000 | |
| *1 | 13.700 | 0.5855 | 13.700 | 8.000 | 20.000 | 24.585 | 10 | 9.750 | 2.223 | 2.212 | 13.700 | 0.5653 | |
| *2 | 2.700 | 0.1154 | 2.700 | 0.000 | 7.000 | 78.178 | 10 | 20.807 | 2.223 | 2.212 | 2.700 | 0.1114 | |
| 4 | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 10 | | | | 0.000 | 0.0000 | |

Auxiliary Tests

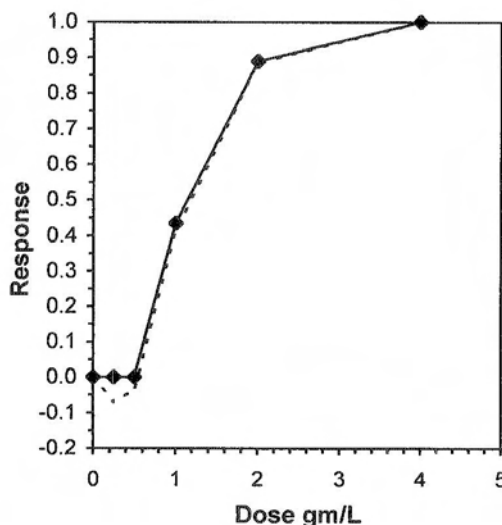
| | Statistic | Critical | Skew | Kurt |
|--------------------------------------------------------------|-----------|----------|--------|---------|
| Shapiro-Wilk's Test indicates normal distribution (p > 0.05) | 0.98781 | 0.947 | 0.1743 | 1.07344 |
| Bartlett's Test indicates equal variances (p = 0.12) | 7.30799 | 13.2767 | | |

| Hypothesis Test (1-tail, 0.05) | NOEC | LOEC | ChV | TU | MSDu | MSDp | MSB | MSE | F-Prob | df |
|--------------------------------|------|------|---------|----|---------|---------|--------|---------|---------|-------|
| Dunnett's Test | 0.5 | 1 | 0.70711 | | 2.21194 | 0.09453 | 925.67 | 4.94889 | 2.0E-27 | 4, 45 |

Treatments vs D-Control

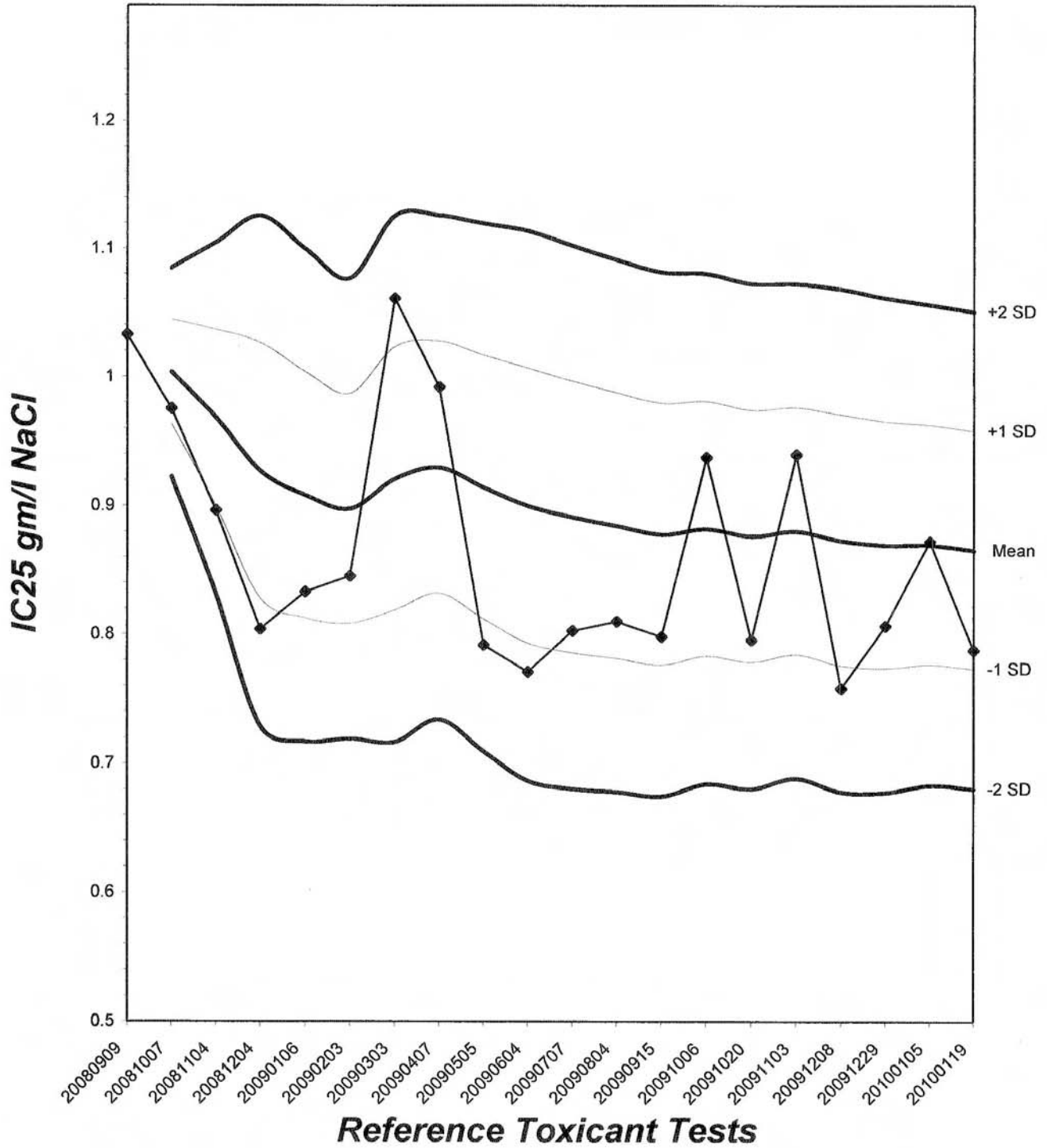
Linear Interpolation (200 Resamples)

| Point | gm/L | SD | 95% CL | Skew |
|-------|--------|--------|---------------|---------|
| IC05 | 0.5575 | 0.0143 | 0.5110 0.5655 | -2.0775 |
| IC10 | 0.6150 | 0.0146 | 0.5755 0.6311 | -0.4724 |
| IC15 | 0.6725 | 0.0178 | 0.6297 0.6978 | 0.1744 |
| IC20 | 0.7301 | 0.0222 | 0.6808 0.7720 | 0.4277 |
| IC25 | 0.7876 | 0.0272 | 0.7293 0.8440 | 0.5197 |
| IC40 | 0.9601 | 0.0466 | 0.8758 1.0814 | 0.8653 |
| IC50 | 1.1439 | 0.0763 | 0.9761 1.2715 | -0.1589 |



Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 10.7



CERIODAPHnia DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-100119

Start Date: 01/19/2010

| Sample | Day | Number of Young Produced | | | | | | | | | | Total Live Young | No. Live Adults | Analyst Initials |
|----------|-------|--------------------------|----|----|----|----|----|----|----|----|----|------------------|-----------------|------------------|
| | | A | B | C | D | E | F | G | H | I | J | | | |
| Control | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | [Signature] |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | 4 | 3 | 4 | 3 | 5 | 3 | 4 | 4 | 3 | 3 | 4 | 36 | 10 | |
| | 5 | 6 | 9 | 0 | 0 | 0 | 0 | 8 | 7 | 9 | 8 | 47 | 10 | |
| | 6 | 14 | 0 | 8 | 7 | 8 | 7 | 13 | 0 | 0 | 0 | 57 | 10 | |
| | 7 | 0 | 17 | 10 | 12 | 12 | 14 | 0 | 11 | 10 | 13 | 94 | 10 | |
| | Total | 23 | 25 | 21 | 24 | 23 | 25 | 25 | 21 | 22 | 25 | 234 | 10 | |
| 0.25 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | [Signature] | |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 10 | | |
| | 4 | 3 | 4 | 5 | 5 | 3 | 4 | 4 | 3 | 0 | 4 | 35 | | 10 |
| | 5 | 8 | 0 | 0 | 0 | 0 | 7 | 8 | 7 | 9 | 8 | 47 | | 10 |
| | 6 | 0 | 8 | 10 | 7 | 8 | 0 | 0 | 0 | 15 | 0 | 48 | | 10 |
| | 7 | 12 | 14 | 12 | 12 | 13 | 14 | 15 | 12 | 0 | 12 | 116 | | 10 |
| | Total | 23 | 26 | 27 | 24 | 24 | 25 | 27 | 22 | 28 | 24 | 229 | | 10 |
| 0.5 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | [Signature] | |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | | |
| | 4 | 3 | 4 | 5 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 36 | | 10 |
| | 5 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 8 | 9 | 9 | 41 | | 10 |
| | 6 | 0 | 14 | 7 | 8 | 9 | 9 | 10 | 12 | 0 | 0 | 69 | | 10 |
| | 7 | 12 | 0 | 13 | 14 | 12 | 10 | 12 | 0 | 13 | 11 | 97 | | 10 |
| | Total | 22 | 26 | 25 | 26 | 24 | 22 | 26 | 23 | 25 | 24 | 243 | | 10 |

Circled fourth brood not used in statistical analysis.

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

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-100119

Start Date: 01/19/2010

| Sample | Day | Number of Young Produced | | | | | | | | | | Total Live Young | No. Live Adults | Analyst Initials |
|---------|-------|--------------------------|----|----|----|----|----|---|----|----|----|------------------|-----------------|------------------|
| | | A | B | C | D | E | F | G | H | I | J | | | |
| 1.0 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | R |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 5 | 10 | |
| | 4 | 3 | 2 | 4 | 3 | 3 | 2 | 3 | 0 | 4 | 0 | 24 | 10 | |
| | 5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 6 | 19 | 10 | |
| | 6 | 0 | 5 | 6 | 4 | 3 | 4 | 5 | 0 | 0 | 0 | 27 | 10 | |
| | 7 | 8 | 7 | 0 | 7 | 8 | 6 | 0 | 10 | 9 | 7 | 62 | 10 | |
| | Total | 17 | 14 | 10 | 14 | 14 | 12 | 8 | 20 | 13 | 15 | 137 | 10 | |
| 2.0 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | R | |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | | |
| | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | | |
| | 5 | 0 | 2 | 3 | 2 | 0 | 3 | 0 | 0 | 0 | 2 | 12 | | 10 |
| | 6 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 6 | | 10 |
| | 7 | 0 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 2 | 0 | 9 | | 10 |
| | Total | 0 | 2 | 3 | 5 | 3 | 3 | 7 | 0 | 2 | 2 | 22 | | 10 |
| 4.0 g/l | 1 | X | X | X | X | X | X | X | X | X | 0 | 0 | R | |
| | 2 | - | - | - | - | - | - | - | - | - | - | - | | |
| | 3 | - | - | - | - | - | - | - | - | - | - | - | | |
| | 4 | - | - | - | - | - | - | - | - | - | - | - | | |
| | 5 | - | - | - | - | - | - | - | - | - | - | - | | |
| | 6 | - | - | - | - | - | - | - | - | - | - | - | | |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | | |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

Circled fourth brood not used in statistical analysis.

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

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl Water Chemistries Raw Data Sheet



QA/QC No.: RT-100119

Start Date: 01/19/2010

| | | DAY 1 | | DAY 2 | | DAY 3 | | DAY 4 | | DAY 5 | | DAY 6 | | DAY 7 | |
|-------------------|------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| | | Initial | Final | Initial | Final | Initial | Final | Initial | Final | Initial | Final | Initial | Final | Initial | Final |
| Analyst Initials: | | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Jr | Rm | Rm | Rm | Rm |
| Time of Readings: | | 1400 | 1400 | 1400 | 1430 | 1430 | 1330 | 1330 | 1500 | 1500 | 1330 | 830 | 1400 | 1400 | 1400 |
| Control | DO | 9.1 | 8.3 | 8.0 | 8.1 | 9.0 | 8.0 | 9.3 | 8.0 | 8.3 | 8.0 | 8.3 | 8.2 | 8.2 | 8.0 |
| | pH | 7.8 | 8.0 | 8.0 | 7.8 | 7.7 | 7.9 | 7.7 | 7.9 | 7.7 | 8.0 | 7.6 | 8.0 | 7.7 | 7.6 |
| | Temp | 25.3 | 25.3 | 25.4 | 25.0 | 25.0 | 25.0 | 25.4 | 24.8 | 25.7 | 24.7 | 25.0 | 24.4 | 24.9 | 24.2 |
| 0.25 g/l | DO | 9.1 | 8.3 | 8.0 | 8.0 | 9.0 | 8.0 | 9.2 | 8.0 | 8.3 | 8.1 | 8.5 | 8.0 | 8.2 | 8.2 |
| | pH | 7.8 | 8.0 | 8.0 | 7.8 | 7.7 | 7.9 | 7.7 | 7.9 | 7.7 | 8.0 | 7.7 | 8.0 | 7.9 | 7.9 |
| | Temp | 25.3 | 25.4 | 25.4 | 25.1 | 25.0 | 25.1 | 25.4 | 25.1 | 25.7 | 24.2 | 25.2 | 24.7 | 25.0 | 24.3 |
| 0.5 g/l | DO | 9.0 | 8.2 | 8.0 | 8.0 | 8.9 | 8.1 | 9.2 | 8.0 | 8.3 | 8.2 | 8.5 | 8.3 | 8.3 | 8.3 |
| | pH | 7.7 | 8.0 | 8.0 | 7.8 | 7.7 | 7.9 | 7.7 | 7.9 | 7.7 | 8.1 | 7.8 | 8.0 | 7.9 | 8.0 |
| | Temp | 25.3 | 25.4 | 25.5 | 25.2 | 25.0 | 25.1 | 25.4 | 25.3 | 25.7 | 24.3 | 25.9 | 24.5 | 24.9 | 24.5 |
| 1.0 g/l | DO | 9.0 | 8.3 | 8.0 | 8.0 | 8.7 | 8.1 | 9.3 | 8.0 | 8.3 | 8.1 | 8.6 | 8.1 | 8.3 | 8.3 |
| | pH | 7.7 | 8.1 | 8.0 | 7.8 | 7.7 | 7.9 | 7.7 | 7.9 | 7.7 | 8.0 | 7.9 | 7.9 | 7.8 | 7.9 |
| | Temp | 25.3 | 25.5 | 25.5 | 25.1 | 25.1 | 25.1 | 25.5 | 25.3 | 25.8 | 24.5 | 24.8 | 24.7 | 25.0 | 24.3 |
| 2.0 g/l | DO | 8.9 | 8.3 | 7.9 | 8.1 | 8.5 | 8.3 | 9.3 | 8.0 | 8.2 | 8.1 | 8.6 | 8.0 | 8.2 | 8.2 |
| | pH | 7.7 | 8.1 | 8.0 | 7.8 | 7.7 | 7.9 | 7.7 | 7.9 | 7.6 | 7.4 | 7.7 | 7.9 | 7.8 | 7.9 |
| | Temp | 25.2 | 25.5 | 25.6 | 25.1 | 25.1 | 25.2 | 25.5 | 25.3 | 25.9 | 24.2 | 24.7 | 24.2 | 25.1 | 24.5 |
| 4.0 g/l | DO | 8.7 | 8.4 | - | - | - | - | - | - | - | - | - | - | - | - |
| | pH | 7.7 | 8.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Temp | 25.2 | 25.5 | - | - | - | - | - | - | - | - | - | - | - | - |

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

| Additional Parameters | Control | | | High Concentration | | |
|--------------------------------------|-------------------|-------|-------|--------------------|-------|-------|
| | Day 1 | Day 3 | Day 5 | Day 1 | Day 3 | Day 5 |
| | Conductivity (µS) | 345 | 340 | 330 | 16800 | 3210 |
| Alkalinity (mg/l CaCO ₃) | 72 | 72 | 74 | 72 | 73 | 74 |
| Hardness (mg/l CaCO ₃) | 92 | 93 | 89 | 92 | 92 | 90 |

Source of Neonates

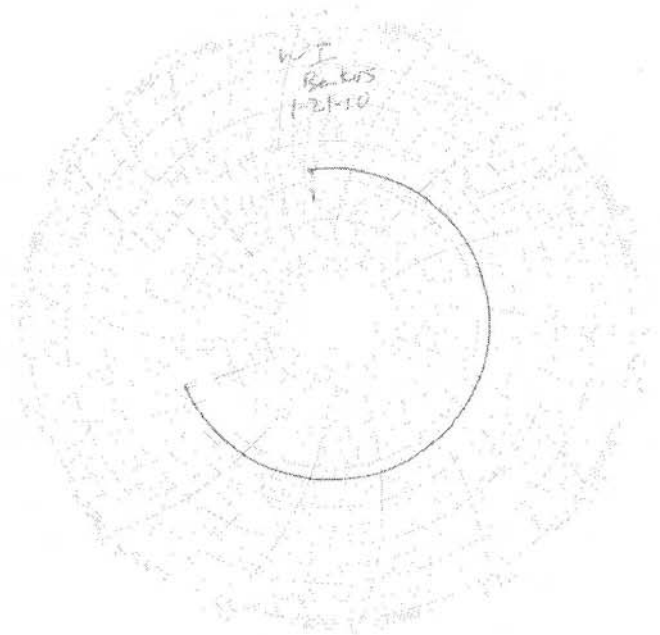
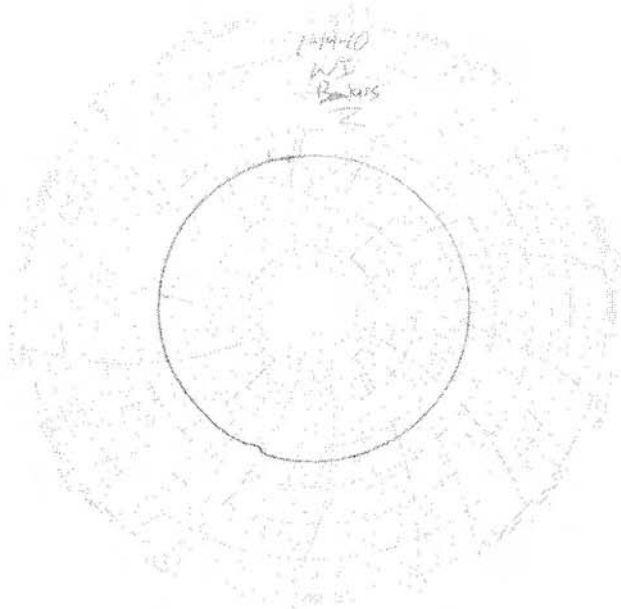
| Replicate: | A | B | C | D | E | F | G | H | I | J |
|------------|----|----|----|----|----|----|----|----|----|----|
| Brood ID: | 2A | 3A | 1B | 2B | 3B | 1C | 2C | 2D | 1E | 2F |

Test Temperature Chart

Test No: RT-100122

Date Tested: 01/19/10 to 01/26/10

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. ITA1331

MWH-Pasadena Boeing

Lot #: FOA210541

Joseph Doak

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

TESTAMERICA LABORATORIES, INC.


Kay Clay
Project Manager

March 17, 2010

Case Narrative
LOT NUMBER: F0A210541
Revised 03-17-10

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on January 21, 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.

Report revised to report the KPA uranium results in pCi/L.

Observations/Nonconformances

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

Gross Alpha/Beta (EPA 900.0 MOD)

The gross alpha and beta matrix spike are outside lower control limits due to possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F0A210541 (1): ITA1331-03

**SUBCONTRACT ORDER
TestAmerica Irvine**

ITA1331

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: ITA1331-03 (Outfall 018 (Comp) - Water) | | | | | | |
| | | | Sampled: 01/19/10 13:41 | | | |
| Gamma Spec-O | mg/kg | 01/27/10 | 01/19/11 13:41 | \$250.00 | 0% | Out St Louis, K-40 and CS-137 only, DO NOT FILTER! |
| Gross Alpha-O | pCi/L | 01/27/10 | 07/18/10 13:41 | \$100.00 | 50% | Out St Louis, Boeing permit, DO NOT FILTER! |
| Gross Beta-O | pCi/L | 01/27/10 | 07/18/10 13:41 | \$100.00 | 50% | Out St Louis, Boeing permit, DO NOT FILTER! |
| Radium, Combined-O | pCi/L | 01/27/10 | 01/19/11 13:41 | \$238.00 | 50% | Out St Louis, Boeing permit, DO NOT FILTER! |
| Strontium 90-O | pCi/L | 01/27/10 | 01/19/11 13:41 | \$155.00 | 50% | Out St Louis, Boeing permit, DO NOT FILTER! |
| Tritium-O | pCi/L | 01/27/10 | 01/19/11 13:41 | \$80.00 | 50% | Out St Louis, Boeing permit, DO NOT FILTER! |
| Uranium, Combined-O | pCi/L | 01/27/10 | 01/19/11 13:41 | \$120.00 | 0% | Out St Louis, Boeing permit, DO NOT FILTER! |
| Containers Supplied: | | | | | | |
| 2.5 gal Poly (R) | 500 mL Amber (S) | | | | | |

Released By: Nandor J. [Signature] Date/Time: 1/20/10 17:00

Received By: Feder [Signature] Date/Time: 1/20/10 17:00
[Signature] Date/Time: 1.21.10 12:15

Lot #(s):

FOA210532

536

540

541

CONDITION UPON RECEIPT FORM

Client: TA Irvine

Quote No: 85044

COC/RFA No: ITA1330, 3/28, 58

Initiated By: [Signature]

Date: 20 1.21.10

Time: 1215

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____

Multiple Packages: Y N

Shipping # (s):*

Sample Temperature (s):**

1. 4289 2132 9059

1. ambient

2. 9060

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

2. _____

3. _____

4. _____

5. _____

*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. <input checked="" type="radio"/> Y <input type="radio"/> N | Are there custody seals present on the cooler? | 8. <input type="radio"/> Y <input checked="" type="radio"/> N | Are there custody seals present on bottles? |
| 2. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A | Do custody seals on cooler appear to be tampered with? | 9. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A | Do custody seals on bottles appear to be tampered with? |
| 3. <input checked="" type="radio"/> Y <input type="radio"/> N | Were contents of cooler frisked after opening, but before unpacking? | 10. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A | Was sample received with proper pH? (If not, make note below) |
| 4. <input checked="" type="radio"/> Y <input type="radio"/> N | Sample received with Chain of Custody? | 11. <input checked="" type="radio"/> Y <input type="radio"/> N | Sample received in proper containers? |
| 5. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A | Does the Chain of Custody match sample ID's on the container(s)? | 12. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A | Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below) |
| 6. <input type="radio"/> Y <input checked="" type="radio"/> N | Was sample received broken? | 13. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A | Was Internal COC/Workshare received? |
| 7. <input checked="" type="radio"/> Y <input type="radio"/> N | Is sample volume sufficient for analysis? | 14. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> 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 tritium for ITA1358 per RC no c/p/s

Corrective Action:

Client Contact Name: _____

Informed by: _____

Sample(s) processed "as is"

Sample(s) on hold until: _____

If released, notify: _____

Project Management Review: [Signature]

Date: 01-22-10

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.

METHODS SUMMARY

F0A210541

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|----------------------------------------|------------------------------|-------------------------------|
| 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

FOA210541

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED DATE</u> | <u>SAMP TIME</u> |
|-------------|----------------|-------------------------|---------------------|------------------|
| LTH8D | 001 | ITA1331-03 | 01/19/10 | 13:41 |

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: ITA1331-03

Radiochemistry

Lab Sample ID: FOA210541-001
 Work Order: LTH8D
 Matrix: WATER

Date Collected: 01/19/10 1341
 Date Received: 01/21/10 1215

| Parameter | Result | Qual | Total Uncert. (2 σ /-) | RL | mdc | Prep Date | Analysis Date |
|-------------------------------------------------|--------|------|----------------------------------|-------|------|-----------|---------------|
| Gamma Cs-137 & Hits by EPA 901.1 MOD | | | | | | | |
| Cesium 137 | 0.2 | U | 6.7 | 20.0 | 12 | 01/23/10 | 01/26/10 |
| Potassium 40 | -90 | U | 540 | | 240 | 01/23/10 | 01/26/10 |
| Gross Alpha/Beta EPA 900 | | | | | | | |
| Gross Alpha | 2.2 | J | 1.3 | 3.0 | 1.7 | 01/25/10 | 01/29/10 |
| Gross Beta | 6.8 | | 1.4 | 4.0 | 1.7 | 01/25/10 | 01/29/10 |
| SR-90 BY GFPC EPA-905 MOD | | | | | | | |
| Strontium 90 | 0.06 | U | 0.29 | 3.00 | 0.50 | 01/22/10 | 02/01/10 |
| TRITIUM (Distill) by EPA 906.0 MOD | | | | | | | |
| Tritium | 118 | U | 96 | 500 | 140 | 01/28/10 | 01/29/10 |
| Total Uranium by KPA ASTM 5174-91 | | | | | | | |
| Total Uranium | 0.289 | J | 0.047 | 0.693 | 0.21 | 02/04/10 | 02/08/10 |
| Radium 226 by EPA 903.0 MOD | | | | | | | |
| Radium (226) | 0.13 | U | 0.11 | 1.00 | 0.15 | 01/22/10 | 02/08/10 |
| Radium 228 by GFPC EPA 904 MOD | | | | | | | |
| Radium 228 | 0.13 | U | 0.41 | 1.00 | 0.69 | 01/22/10 | 02/08/10 |

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: F0A210541
 Matrix: WATER

| Parameter | Result | Qual | Total Uncert. (2 σ +/-) | RL | MDC | Prep Date | Lab Sample ID Analysis Date |
|-------------------------------------------------|---------|------|--------------------------------------|-------|------|--------------|-----------------------------------|
| Total Uranium by KPA ASTM 5174-91 | | | | | | | |
| Total Uranium | -0.0623 | U | 0.0075 | 0.693 | 0.21 | 02/04/10 | F0B040000-029B |
| Radium 226 by EPA 903.0 MOD | | | | | | | |
| Radium (226) | 0.111 | U | 0.094 | 1.00 | 0.13 | 01/22/10 | F0A220000-145B |
| Radium 228 by GFPC EPA 904 MOD | | | | | | | |
| Radium 228 | 0.22 | U | 0.35 | 1.00 | 0.59 | 01/22/10 | F0A220000-148B |
| SR-90 BY GFPC EPA-905 MOD | | | | | | | |
| Strontium 90 | -0.01 | U | 0.22 | 3.00 | 0.38 | 01/22/10 | F0A220000-149B |
| Gamma Cs-137 & Hits by EPA 901.1 MOD | | | | | | | |
| Cesium 137 | -0.4 | U | 6.7 | 20.0 | 12 | 01/23/10 | F0A230000-036B |
| Potassium 40 | -70 | U | 240 | | 210 | 01/23/10 | 01/26/10 |
| Gross Alpha/Beta EPA 900 | | | | | | | |
| Gross Alpha | -0.03 | U | 0.34 | 3.00 | 0.71 | 01/25/10 | F0A250000-415B |
| Gross Beta | -0.26 | U | 0.86 | 4.00 | 1.5 | 01/25/10 | 01/29/10 |
| TRITIUM (Distill) by EPA 906.0 MOD | | | | | | | |
| Tritium | 250 | J | 120 | 500 | 140 | 01/28/10 | F0A280000-080B |

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: FOA210541
 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 | | | FOA230000-036C |
| Americium 241 | 141000 | 132000 | 10000 | 500 | | 93 | (87 - 110) |
| Cesium 137 | 53100 | 48200 | 2800 | 200 | | 91 | (90 - 110) |
| Cobalt 60 | 87900 | 79000 | 4400 | 200 | | 90 | (89 - 110) |
| | Batch #: | 0023036 | | | | Analysis Date: | 01/26/10 |
| Gross Alpha/Beta EPA 900 | | | pCi/L | 900.0 MOD | | | FOA250000-415C |
| Gross Beta | 68.1 | 73.4 | 6.2 | 1.6 | | 108 | (58 - 133) |
| | Batch #: | 0025415 | | | | Analysis Date: | 01/29/10 |
| Gross Alpha/Beta EPA 900 | | | pCi/L | 900.0 MOD | | | FOA250000-415C |
| Gross Alpha | 49.4 | 45.4 | 5.0 | 0.9 | | 92 | (62 - 134) |
| | Batch #: | 0025415 | | | | Analysis Date: | 01/29/10 |
| TRITIUM (Distill) by EPA 906.0 MOD | | | pCi/L | 906.0 MOD | | | FOA280000-080C |
| Tritium | 4540 | 4680 | 480 | 140 | | 103 | (85 - 112) |
| | Batch #: | 0028080 | | | | Analysis Date: | 01/28/10 |
| Total Uranium by KPA ASTM 5174-91 | | | pCi/L | 5174-91 | | | FOB040000-029C |
| Total Uranium | 27.7 | 29.2 | 3.5 | 0.2 | | 105 | (90 - 120) |
| | Batch #: | 0035029 | | | | Analysis Date: | 02/08/10 |
| Total Uranium by KPA ASTM 5174-91 | | | pCi/L | 5174-91 | | | FOB040000-029C |
| Total Uranium | 5.54 | 5.67 | 0.59 | 0.21 | | 102 | (90 - 120) |
| | Batch #: | 0035029 | | | | Analysis Date: | 02/08/10 |

NOTE(S)

MDC is determined by instrument performance only

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: FOA210541
 Matrix: WATER

| Parameter | Spike Amount | Result | Total Uncert. (2σ+/-) | % Yld | % Rec | Lab Sample ID | |
|----------------------------------|------------------|---------|-----------------------------|------------------|----------|----------------------|-----------------------|
| | | | | | | QC Control Limits | Precision |
| Radium 226 by EPA | 903.0 MOD | | pCi/L | 903.0 MOD | | | FOA220000-145C |
| Radium (226) | 11.3 | 10.7 | 1.1 | 108 | 95 | (68 - 136) | |
| Spk 2 | 11.3 | 11.2 | 1.1 | 110 | 100 | (68 - 136) | 5 %RPD |
| | Batch #: | 0022145 | | Analysis Date: | 02/08/10 | | |
| Radium 228 by GFPC EPA | 904 MOD | | pCi/L | 904 MOD | | | FOA220000-148C |
| Radium 228 | 6.45 | 8.22 | 0.95 | 93 | 127 | (60 - 142) | |
| Spk 2 | 6.45 | 7.58 | 0.88 | 99 | 118 | (60 - 142) | 8 %RPD |
| | Batch #: | 0022148 | | Analysis Date: | 02/08/10 | | |
| SR-90 BY GFPC EPA-905 MOD | | | pCi/L | 905 MOD | | | FOA220000-149C |
| Strontium 90 | 6.81 | 6.74 | 0.79 | 77 | 99 | (80 - 130) | |
| Spk 2 | 6.81 | 6.99 | 0.81 | 80 | 103 | (80 - 130) | 4 %RPD |
| | Batch #: | 0022149 | | Analysis Date: | 02/01/10 | | |

NOTE(S)

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

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: FOA200486
 Matrix: WATER

Date Sampled: 01/18/10
 Date Received: 01/20/10

| Parameter | Spike Amount | Spike Result | Total Uncert. (2σ +/-) | Spike Yld. | Sample Result | Total Uncert. (2σ +/-) | QC Sample ID | | QC Control Limits |
|-------------------------------------------|--------------|--------------|------------------------|------------|------------------|------------------------|--------------|----------------------|-------------------|
| | | | | | | | %YLD | %REC | |
| Gross Alpha/Beta EPA 900 | | | pCi/L | | 900.0 MOD | | | FOA200486-001 | |
| Gross Beta | 68.1 | 10.0 | 1.6 | | 0.83 | 0.99 | 14 | a | (54 - 150) |
| | Batch #: | 0025415 | | | Analysis Date: | 01/29/10 | | | |
| Gross Alpha/Beta EPA 900 | | | pCi/L | | 900.0 MOD | | | FOA200486-001 | |
| Gross Alpha | 49.4 | 6.9 | 1.6 | | 0.98 | 0.70 | 12 | a | (35 - 150) |
| | Batch #: | 0025415 | | | Analysis Date: | 01/29/10 | | | |
| TRITIUM (Distill) by EPA 906.0 MOD | | | pCi/L | | 906.0 MOD | | | FOA200494-001 | |
| Tritium | 4540 | 4350 | 460 | | 64 | 88 | 94 | | (62 - 147) |
| | Batch #: | 0028080 | | | Analysis Date: | 01/29/10 | | | |

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: FOA200486
 Matrix: WATER

Date Sampled: 01/18/10 0730
 Date Received: 01/20/10 0915

| Parameter | Spike Amount | SPIKE Result | Total Uncert. (2 σ +/-) | Spike Yld | SAMPLE Result | Total Uncert. (2 σ +/-) | QC Sample ID | | QC Control Limits |
|-----------------------------|--------------|--------------|--------------------------------|----------------|---------------|--------------------------------|---------------|------|-------------------|
| | | | | | | | % Yld | %Rec | |
| Total Uranium by KPA ASTM 5 | | | pCi/L | 5174-91 | | | FOA200486-001 | | |
| Total Uranium | 27.7 | 28.8 | 3.4 | | -0.0334 U | 0.0040 | 104 | | (62 - 150) |
| Spk2 | 27.7 | 29.2 | 3.5 | | -0.0334 U | 0.0040 | 105 | | (62 - 150) |
| | | | | | | Precision: | 2 | | %RPD |
| Batch #: | | 0035029 | | Analysis date: | | 02/08/10 | | | |

NOTE (S)

Data are incomplete without the case narrative.

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

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: FOA210541
 Matrix: WATER

Date Sampled: 01/18/10
 Date Received: 01/20/10

| Parameter | SAMPLE Result | | Total Uncert. (2σ+/-) | % Yld | DUPLICATE Result | Total Uncert. (2σ+/-) | % Yld | QC Sample ID | |
|-------------------------------------------------|---------------|---|-----------------------|-------|---------------------|-----------------------|-------|----------------------|-----------|
| | | | | | | | | | Precision |
| Gross Alpha/Beta EPA 900 | | | | | 900.0 MOD | | | FOA200486-001 | |
| Gross Alpha | 0.98 | J | 0.70 | | 0.71 | J | 0.85 | 32 | %RPD |
| Gross Beta | 0.83 | U | 0.99 | | 1.6 | J | 1.0 | 62 | %RPD |
| | Batch #: | | 0025415 (Sample) | | 0025415 (Duplicate) | | | | |
| TRITIUM (Distill) by EPA 906.0 MOD | | | | | 906.0 MOD | | | FOA200486-001 | |
| Tritium | 99 | U | 94 | | -49 | U | 64 | 586 | %RPD |
| | Batch #: | | 0028080 (Sample) | | 0028080 (Duplicate) | | | | |
| Gamma Cs-137 & Hits by EPA 901.1 MOD | | | | | 901.1 MOD | | | FOA210532-001 | |
| Cesium 137 | -2.3 | U | 9.2 | | -1.4 | U | 9.8 | 47 | %RPD |
| Potassium 40 | -30 | U | 240 | | -60 | U | 440 | 69 | %RPD |
| | Batch #: | | 0023036 (Sample) | | 0023036 (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.

TestAmerica
South Burlington, VT

Sample Data Summary
Package

ITA1331

TestAmerica Laboratories, Inc.

January 27, 2010

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

Re: Laboratory Project No. 29000
Case: MWH; SDG: ITA1331

Dear Mr. Doak:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on January 22nd, 2010. Laboratory identification numbers were assigned, and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|---------------|-----------------------------|------------------------|--------------------------|
| | Received: 01/22/10 | ETR No: 135656 | |
| 818653 | ITA1331-03 | 01/19/10 | WATER |

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

Particle Size by ASTM D4464

The laboratory noted no exceptions to the method quality control requirements during the analysis of the samples referenced above.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.



If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,

A handwritten signature in black ink, appearing to read "Steve Timmons", followed by a long horizontal line extending to the right.

Steve Timmons
Customer Service Manager

**SUBCONTRACT ORDER
TestAmerica Irvine**

ITA1331

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:

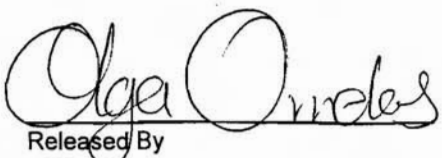
TestAmerica Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446
Phone : (802) 655-1203
Fax: (802) 655-1248
Project Location: CA - CALIFORNIA
Receipt Temperature: 3.2 °C Ice: Y / N

| Analysis | Units | Due | Expires | Interlab Price Surch | Comments |
|-----------------|--------------|------------|----------------|-----------------------------|-----------------|
|-----------------|--------------|------------|----------------|-----------------------------|-----------------|


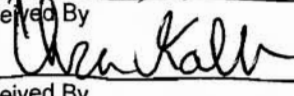
Sample ID: ITA1331-03 (Outfall 018 (Comp) - Water) **Sampled: 01/19/10 13:41**

| | | | | | |
|-----------------|-------------|----------|----------------|----------|---------------------------------|
| Particulate-OUT | % by Weight | 01/27/10 | 02/16/10 13:41 | \$108.00 | 0% sub to TA Burlington; jflags |
|-----------------|-------------|----------|----------------|----------|---------------------------------|

Containers Supplied:
1 L Poly (E)


Released By

1/20/10 17:00
Date/Time


Received By

Received By

1/20/10 17:00
Date/Time

1/22/10 1031
Date/Time



Sample Data Summary – Geotechnical

Particle Size by ASTM D4464

Client Code:

TACAI

Sample ID:

ITA1331-03

Laboratory ID:

818653 - Average

SDG/ETR:

ITA1331

Analyzed:

Wednesday, January 27, 2010 10:09:23 AM

Measured by:

DJP

Instrument Name:

Hydro 2000G (A)

SOP Name:

Analysis model:

General purpose

Dispersant Name:

Water

Dispersant RI:

1.330

Size range:

0.020 to 2000.000 μ m

Weighted Residual:

2.547 %

Sensitivity:

Enhanced

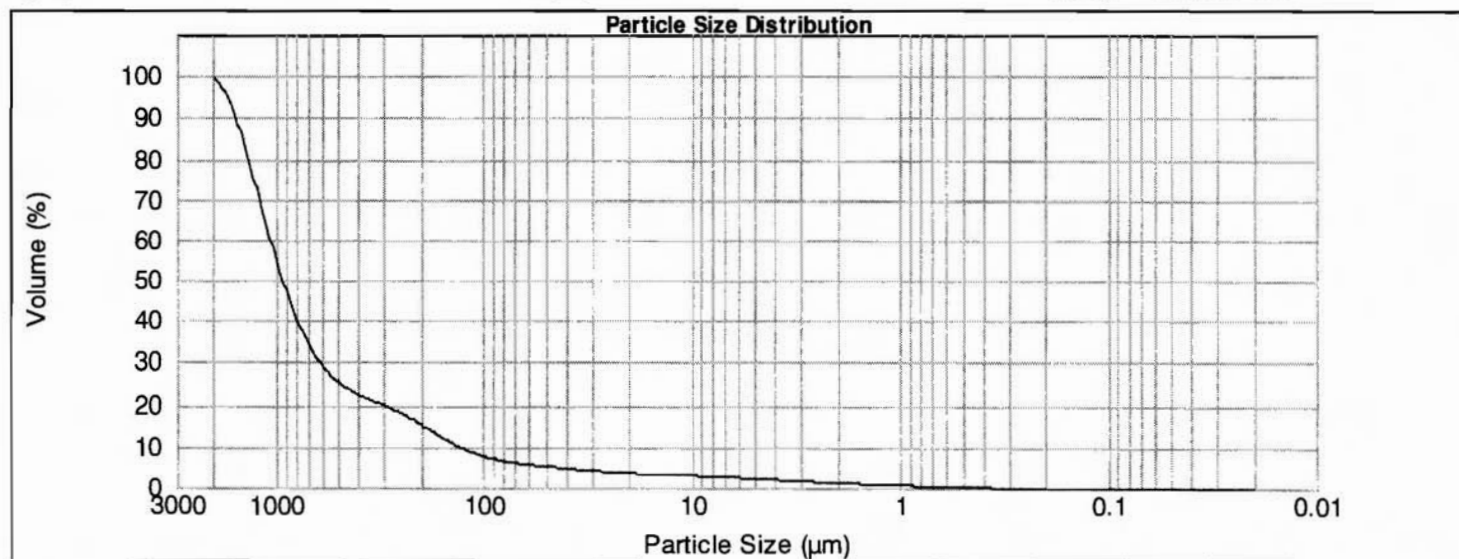
Obscuration:

6.77 %

d(0.1): 129.616 μ m

d(0.5): 924.582 μ m

d(0.9): 1549.659 μ m



Clay 2.3 %

| Size (μ m) | Volume In % |
|-----------------|-------------|
| 0.010 | 0.00 |
| 0.011 | 0.00 |
| 0.013 | 0.00 |
| 0.015 | 0.00 |
| 0.017 | 0.00 |
| 0.020 | 0.00 |
| 0.023 | 0.00 |
| 0.026 | 0.00 |
| 0.030 | 0.00 |
| 0.035 | 0.00 |
| 0.040 | 0.00 |
| 0.046 | 0.00 |
| 0.052 | 0.00 |
| 0.060 | 0.00 |
| 0.069 | 0.00 |
| 0.079 | 0.00 |
| 0.091 | 0.00 |
| 0.105 | 0.00 |

Silt 4.02 %

| Size (μ m) | Volume In % |
|-----------------|-------------|
| 1.096 | 0.11 |
| 1.259 | 0.11 |
| 1.445 | 0.12 |
| 1.660 | 0.13 |
| 1.905 | 0.14 |
| 2.188 | 0.14 |
| 2.512 | 0.15 |
| 2.884 | 0.16 |
| 3.311 | 0.17 |
| 3.802 | 0.17 |
| 4.365 | 0.18 |
| 5.012 | 0.17 |
| 5.754 | 0.16 |
| 6.607 | 0.15 |
| 7.586 | 0.13 |
| 8.710 | 0.11 |
| 10.000 | 0.11 |
| 11.482 | 0.10 |

Sand 93.69 %

| Size (μ m) | Volume In % |
|-----------------|-------------|
| 120.226 | 1.42 |
| 138.038 | 1.65 |
| 158.489 | 1.79 |
| 181.970 | 1.81 |
| 208.930 | 1.69 |
| 239.883 | 1.48 |
| 275.423 | 1.25 |
| 316.228 | 1.18 |
| 363.078 | 1.33 |
| 416.869 | 1.77 |
| 478.630 | 2.54 |
| 549.541 | 3.71 |
| 630.957 | 5.26 |
| 724.436 | 7.10 |
| 831.764 | 9.02 |
| 954.993 | 10.63 |
| 1096.478 | 11.42 |
| 1258.925 | 10.86 |
| 1445.440 | 8.78 |
| 1659.587 | 4.92 |
| 1905.461 | 1.11 |
| 2187.762 | 0.00 |
| 2511.886 | 0.00 |
| 2884.032 | 0.00 |
| 3311.311 | 0.00 |
| 3801.894 | 0.00 |
| 4365.158 | 0.00 |
| 5011.872 | 0.00 |
| 5754.399 | 0.00 |
| 6606.934 | 0.00 |
| 7585.776 | 0.00 |
| 8709.636 | 0.00 |
| 10000.000 | 0.00 |