

ATTACHMENT 1

R2-A POND BASELINE DATA

**FILTER DRUM INFLUENT AND EFFLUENT DATA
07/18/06 and 07/19/06**

R2-A POND BASELINE DATA

LABORATORY REPORT

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

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

Sampled: 06/16/06
Received: 06/16/06
Issued: 07/20/06 14:19

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

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

LABORATORY ID
IPF1863-01

CLIENT ID
R-2A Pond

MATRIX
Water

Reviewed By:



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Project Manager

MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPF1863

Sampled: 06/16/06
 Received: 06/16/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPF1863-01 (R-2A Pond - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6F28095 | 0.0088 | 0.040 | 1.0 | 1 | 06/28/06 | 06/29/06 | |
| Sample ID: IPF1863-01 (R-2A Pond - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6F23086 | 0.18 | 2.0 | 0.39 | 1 | 06/23/06 | 06/29/06 | J |
| Arsenic | EPA 200.7 | 6F28095 | 3.8 | 5.0 | ND | 1 | 06/28/06 | 06/29/06 | |
| Beryllium | EPA 200.7 | 6F28095 | 0.62 | 2.0 | ND | 1 | 06/28/06 | 06/29/06 | |
| Cadmium | EPA 200.8 | 6F23086 | 0.015 | 1.0 | 0.068 | 1 | 06/23/06 | 06/29/06 | J, B |
| Chromium | EPA 200.7 | 6F28095 | 0.68 | 5.0 | ND | 1 | 06/28/06 | 06/29/06 | |
| Copper | EPA 200.8 | 6F23086 | 0.49 | 2.0 | 1.6 | 1 | 06/23/06 | 06/29/06 | J |
| Lead | EPA 200.8 | 6F23086 | 0.13 | 1.0 | 0.88 | 1 | 06/23/06 | 06/29/06 | J |
| Manganese | EPA 200.7 | 6F28095 | 3.2 | 20 | 240 | 1 | 06/28/06 | 06/29/06 | |
| Mercury | EPA 245.1 | 6F19093 | 0.063 | 0.20 | ND | 1 | 06/19/06 | 06/19/06 | |
| Nickel | EPA 200.7 | 6F28095 | 2.0 | 10 | 2.6 | 1 | 06/28/06 | 06/29/06 | J |
| Selenium | EPA 200.8 | 6F23086 | 0.36 | 2.0 | ND | 1 | 06/23/06 | 06/29/06 | |
| Silver | EPA 200.8 | 6F23086 | 0.089 | 1.0 | ND | 1 | 06/23/06 | 06/29/06 | |
| Thallium | EPA 200.8 | 6F23086 | 0.075 | 1.0 | ND | 1 | 06/23/06 | 06/29/06 | |
| Zinc | EPA 200.7 | 6F28095 | 3.7 | 20 | 4.6 | 1 | 06/28/06 | 06/29/06 | J |

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 Received: 06/16/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPF1863-01 (R-2A Pond - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6F19125 | 0.015 | 0.040 | 0.051 | 1 | 06/19/06 | 06/28/06 | |
| Sample ID: IPF1863-01 (R-2A Pond - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6F27073 | 0.050 | 2.0 | 0.35 | 1 | 06/27/06 | 06/29/06 | J |
| Arsenic | EPA 200.7-Diss | 6F19125 | 4.4 | 5.0 | ND | 1 | 06/19/06 | 06/28/06 | |
| Beryllium | EPA 200.7-Diss | 6F19125 | 0.90 | 2.0 | ND | 1 | 06/19/06 | 06/28/06 | |
| Cadmium | EPA 200.8-Diss | 6F27073 | 0.025 | 1.0 | ND | 1 | 06/27/06 | 06/29/06 | |
| Chromium | EPA 200.7-Diss | 6F19125 | 2.0 | 5.0 | ND | 1 | 06/19/06 | 06/28/06 | |
| Copper | EPA 200.8-Diss | 6F27073 | 0.25 | 2.0 | 0.86 | 1 | 06/27/06 | 06/29/06 | J |
| Lead | EPA 200.8-Diss | 6F27073 | 0.040 | 1.0 | 0.085 | 1 | 06/27/06 | 06/29/06 | J |
| Manganese | EPA 200.7-Diss | 6F19125 | 7.0 | 20 | ND | 1 | 06/19/06 | 06/28/06 | |
| Mercury | EPA 245.1-Diss | 6F21141 | 0.050 | 0.20 | ND | 1 | 06/21/06 | 06/22/06 | |
| Nickel | EPA 200.7-Diss | 6F19125 | 2.0 | 10 | ND | 1 | 06/19/06 | 06/28/06 | |
| Selenium | EPA 200.8-Diss | 6F27073 | 0.30 | 2.0 | ND | 1 | 06/27/06 | 06/29/06 | |
| Silver | EPA 200.8-Diss | 6F27073 | 0.025 | 1.0 | ND | 1 | 06/27/06 | 06/29/06 | |
| Thallium | EPA 200.8-Diss | 6F27073 | 0.15 | 1.0 | ND | 1 | 06/27/06 | 06/29/06 | |
| Zinc | EPA 200.7-Diss | 6F19125 | 15 | 20 | ND | 1 | 06/19/06 | 06/28/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPF1863

Sampled: 06/16/06
 Received: 06/16/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPF1863-01 (R-2A Pond - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6F24067 | N/A | NA | 0.99 | 1 | 06/24/06 | 06/24/06 | |
| Sample ID: IPF1863-01 (R-2A Pond - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6F29113 | 10 | 10 | 13 | 1 | 06/29/06 | 06/29/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6F26082 | 0.43 | 0.50 | 1.4 | 1 | 06/26/06 | 06/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6F24068 | 2.0 | 2.0 | 170 | 1 | 06/24/06 | 06/24/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6F21104 | 0.30 | 0.50 | ND | 1 | 06/21/06 | 06/21/06 | |
| Hardness (as CaCO3) | SM2340B | 6F29112 | 1.0 | 1.0 | 190 | 1 | 06/29/06 | 06/29/06 | |
| Nitrate-N | EPA 300.0 | 6F16122 | 0.080 | 0.15 | ND | 1 | 06/16/06 | 06/17/06 | |
| Nitrite-N | EPA 300.0 | 6F16122 | 0.080 | 0.15 | ND | 1 | 06/16/06 | 06/17/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6F16122 | 0.072 | 0.26 | ND | 1 | 06/16/06 | 06/17/06 | |
| Oil & Grease | EPA 413.1 | 6F20059 | 0.90 | 4.8 | ND | 1 | 06/20/06 | 06/20/06 | |
| Sulfate | EPA 300.0 | 6F16122 | 0.90 | 2.5 | 68 | 5 | 06/16/06 | 06/17/06 | |
| Total Dissolved Solids | SM2540C | 6F22074 | 10 | 10 | 330 | 1 | 06/22/06 | 06/23/06 | |
| Total Organic Carbon | EPA 415.1 | 6F22119 | 0.25 | 1.0 | 12 | 1 | 06/22/06 | 06/22/06 | |
| Total Suspended Solids | EPA 160.2 | 6F21113 | 10 | 10 | 13 | 1 | 06/21/06 | 06/21/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPF1863-01 (R-2A Pond - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6F17068 | 0.040 | 1.0 | 16 | 1 | 06/17/06 | 06/17/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPF1863-01 (R-2A Pond - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6F17066 | N/A | NA | 7.40 | 1 | 06/17/06 | 06/17/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPF1863-01 (R-2A Pond - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6F22090 | 1.0 | 1.0 | 560 | 1 | 06/22/06 | 06/22/06 | |

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SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: R-2A Pond (IPF1863-01) - Water | | | | | |
| EPA 150.1 | 1 | 06/16/2006 07:30 | 06/16/2006 20:06 | 06/17/2006 13:00 | 06/17/2006 14:30 |
| EPA 180.1 | 2 | 06/16/2006 07:30 | 06/16/2006 20:06 | 06/17/2006 18:00 | 06/17/2006 19:00 |
| EPA 300.0 | 2 | 06/16/2006 07:30 | 06/16/2006 20:06 | 06/16/2006 23:30 | 06/17/2006 00:14 |

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METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6F19093 Extracted: 06/19/06 | | | | | | | | | | | |
| Blank Analyzed: 06/19/2006 (6F19093-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 06/19/2006 (6F19093-BS1) | | | | | | | | | | | |
| Mercury | 8.06 | 0.20 | 0.063 | ug/l | 8.00 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 06/19/2006 (6F19093-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPF1902-01 | | | | | |
| Mercury | 7.83 | 0.20 | 0.063 | ug/l | 8.00 | ND | 98 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 06/19/2006 (6F19093-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPF1902-01 | | | | | |
| Mercury | 7.81 | 0.20 | 0.063 | ug/l | 8.00 | ND | 98 | 70-130 | 0 | 20 | |
| Batch: 6F23086 Extracted: 06/23/06 | | | | | | | | | | | |
| Blank Analyzed: 06/28/2006 (6F23086-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | 0.0397 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 06/28/2006 (6F23086-BS1) | | | | | | | | | | | |
| Antimony | 82.3 | 2.0 | 0.050 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Cadmium | 82.1 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 77.5 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 79.4 | 1.0 | 0.040 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Selenium | 76.1 | 2.0 | 0.30 | ug/l | 80.0 | | 95 | 85-115 | | | |
| Silver | 80.7 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Thallium | 79.4 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |

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Sampled: 06/16/06
 Received: 06/16/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6F23086 Extracted: 06/23/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 06/28/2006 (6F23086-MS1) | | | | | | Source: IPF2142-01 | | | | | |
| Antimony | 79.7 | 2.0 | 0.050 | ug/l | 80.0 | 0.092 | 100 | 70-130 | | | |
| Cadmium | 78.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.063 | 98 | 70-130 | | | |
| Copper | 77.4 | 2.0 | 0.25 | ug/l | 80.0 | 1.4 | 95 | 70-130 | | | |
| Lead | 76.4 | 1.0 | 0.040 | ug/l | 80.0 | 0.27 | 95 | 70-130 | | | |
| Selenium | 72.8 | 2.0 | 0.30 | ug/l | 80.0 | ND | 91 | 70-130 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Thallium | 75.6 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 06/28/2006 (6F23086-MSD1) | | | | | | Source: IPF2142-01 | | | | | |
| Antimony | 80.8 | 2.0 | 0.050 | ug/l | 80.0 | 0.092 | 101 | 70-130 | 1 | 20 | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.063 | 101 | 70-130 | 2 | 20 | |
| Copper | 78.3 | 2.0 | 0.25 | ug/l | 80.0 | 1.4 | 96 | 70-130 | 1 | 20 | |
| Lead | 77.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.27 | 97 | 70-130 | 2 | 20 | |
| Selenium | 73.8 | 2.0 | 0.30 | ug/l | 80.0 | ND | 92 | 70-130 | 1 | 20 | |
| Silver | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 101 | 70-130 | 2 | 20 | |
| Thallium | 77.2 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 96 | 70-130 | 2 | 20 | |
| Batch: 6F28095 Extracted: 06/28/06 | | | | | | | | | | | |
| Blank Analyzed: 06/29/2006 (6F28095-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | 0.0070 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |

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METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6F28095 Extracted: 06/28/06 | | | | | | | | | | | |
| LCS Analyzed: 06/29/2006 (6F28095-BS1) | | | | | | | | | | | |
| Arsenic | 510 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | | 102 | 85-115 | | | |
| Chromium | 499 | 5.0 | 2.0 | ug/l | 500 | | 100 | 85-115 | | | |
| Iron | 0.509 | 0.040 | 0.015 | mg/l | 0.500 | | 102 | 85-115 | | | |
| Magnesium | 2.52 | 0.020 | 0.0070 | mg/l | 2.50 | | 101 | 85-115 | | | |
| Manganese | 513 | 20 | 7.0 | ug/l | 500 | | 103 | 85-115 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 489 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 06/29/2006 (6F28095-MS1) Source: IPF1925-02 | | | | | | | | | | | |
| Arsenic | 504 | 5.0 | 4.4 | ug/l | 500 | ND | 101 | 70-130 | | | |
| Beryllium | 503 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | | | |
| Chromium | 504 | 5.0 | 2.0 | ug/l | 500 | ND | 101 | 70-130 | | | |
| Iron | 0.523 | 0.040 | 0.015 | mg/l | 0.500 | 0.029 | 99 | 70-130 | | | |
| Magnesium | 2.54 | 0.020 | 0.0070 | mg/l | 2.50 | 0.015 | 101 | 70-130 | | | |
| Manganese | 509 | 20 | 7.0 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Zinc | 494 | 20 | 15 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 06/29/2006 (6F28095-MSD1) Source: IPF1925-02 | | | | | | | | | | | |
| Arsenic | 520 | 5.0 | 4.4 | ug/l | 500 | ND | 104 | 70-130 | 3 | 20 | |
| Beryllium | 516 | 2.0 | 0.90 | ug/l | 500 | ND | 103 | 70-130 | 3 | 20 | |
| Chromium | 514 | 5.0 | 2.0 | ug/l | 500 | ND | 103 | 70-130 | 2 | 20 | |
| Iron | 0.532 | 0.040 | 0.015 | mg/l | 0.500 | 0.029 | 101 | 70-130 | 2 | 20 | |
| Magnesium | 2.58 | 0.020 | 0.0070 | mg/l | 2.50 | 0.015 | 103 | 70-130 | 2 | 20 | |
| Manganese | 521 | 20 | 7.0 | ug/l | 500 | ND | 104 | 70-130 | 2 | 20 | |
| Nickel | 508 | 10 | 2.0 | ug/l | 500 | ND | 102 | 70-130 | 2 | 20 | |
| Zinc | 506 | 20 | 15 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |

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METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6F29112 Extracted: 06/29/06 | | | | | | | | | | | |
| Blank Analyzed: 06/29/2006 (6F29112-BLK1) | | | | | | | | | | | |
| Calcium | ND | 0.10 | 0.040 | mg/l | | | | | | | |
| LCS Analyzed: 06/29/2006 (6F29112-BS1) | | | | | | | | | | | |
| Calcium | 2.41 | 0.10 | 0.040 | mg/l | 2.50 | | 96 | 85-115 | | | |
| Matrix Spike Analyzed: 06/29/2006 (6F29112-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPF2724-01 | | | | | |
| Calcium | 45.5 | 0.10 | 0.040 | mg/l | 2.50 | 45 | 20 | 70-130 | | | M-HA |
| Matrix Spike Dup Analyzed: 06/29/2006 (6F29112-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPF2724-01 | | | | | |
| Calcium | 43.6 | 0.10 | 0.040 | mg/l | 2.50 | 45 | -56 | 70-130 | 4 | 20 | M-HA |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPF1863

Sampled: 06/16/06
 Received: 06/16/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6F19125 Extracted: 06/19/06 | | | | | | | | | | | |
| Blank Analyzed: 06/28/2006 (6F19125-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 06/28/2006 (6F19125-BS1) | | | | | | | | | | | |
| Arsenic | 968 | 5.0 | 4.4 | ug/l | 1000 | | 97 | 85-115 | | | |
| Beryllium | 978 | 2.0 | 0.90 | ug/l | 1000 | | 98 | 85-115 | | | |
| Chromium | 984 | 5.0 | 2.0 | ug/l | 1000 | | 98 | 85-115 | | | |
| Iron | 0.975 | 0.040 | 0.015 | mg/l | 1.00 | | 98 | 85-115 | | | |
| Manganese | 961 | 20 | 7.0 | ug/l | 1000 | | 96 | 85-115 | | | |
| Nickel | 977 | 10 | 2.0 | ug/l | 1000 | | 98 | 85-115 | | | |
| Zinc | 980 | 20 | 15 | ug/l | 1000 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 06/28/2006 (6F19125-MS1) Source: IPF1863-01 | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 1010 | 5.0 | 2.0 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Iron | 1.03 | 0.040 | 0.015 | mg/l | 1.00 | 0.051 | 98 | 70-130 | | | |
| Manganese | 974 | 20 | 7.0 | ug/l | 1000 | ND | 97 | 70-130 | | | |
| Nickel | 978 | 10 | 2.0 | ug/l | 1000 | ND | 98 | 70-130 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 06/28/2006 (6F19125-MSD1) Source: IPF1863-01 | | | | | | | | | | | |
| Arsenic | 1010 | 5.0 | 4.4 | ug/l | 1000 | ND | 101 | 70-130 | 1 | 20 | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.051 | 97 | 70-130 | 1 | 20 | |
| Manganese | 978 | 20 | 7.0 | ug/l | 1000 | ND | 98 | 70-130 | 0 | 20 | |
| Nickel | 972 | 10 | 2.0 | ug/l | 1000 | ND | 97 | 70-130 | 1 | 20 | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |

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 Report Number: IPF1863

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 Received: 06/16/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6F21141 Extracted: 06/21/06 | | | | | | | | | | | |
| Blank Analyzed: 06/22/2006 (6F21141-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.050 | ug/l | | | | | | | |
| LCS Analyzed: 06/22/2006 (6F21141-BS1) | | | | | | | | | | | |
| Mercury | 8.48 | 0.20 | 0.050 | ug/l | 8.00 | | 106 | 85-115 | | | |
| Matrix Spike Analyzed: 06/22/2006 (6F21141-MS1) | | | | | | | | | | | |
| Mercury | 8.62 | 0.20 | 0.050 | ug/l | 8.00 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 06/22/2006 (6F21141-MSD1) | | | | | | | | | | | |
| Mercury | 8.61 | 0.20 | 0.050 | ug/l | 8.00 | ND | 108 | 70-130 | 0 | 20 | |
| Batch: 6F27073 Extracted: 06/27/06 | | | | | | | | | | | |
| Blank Analyzed: 06/29/2006 (6F27073-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 06/29/2006 (6F27073-BS1) | | | | | | | | | | | |
| Antimony | 79.5 | 2.0 | 0.050 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Cadmium | 76.2 | 1.0 | 0.025 | ug/l | 80.0 | | 95 | 85-115 | | | |
| Copper | 80.6 | 2.0 | 0.25 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Lead | 82.4 | 1.0 | 0.040 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 83.2 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 76.8 | 1.0 | 0.025 | ug/l | 80.0 | | 96 | 85-115 | | | |
| Thallium | 86.2 | 1.0 | 0.15 | ug/l | 80.0 | | 108 | 85-115 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPF1863

Sampled: 06/16/06
 Received: 06/16/06

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: 6F27073 Extracted: 06/27/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 06/29/2006 (6F27073-MS1) | | | | | | Source: IPF1973-01 | | | | | |
| Antimony | 79.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.23 | 99 | 70-130 | | | |
| Cadmium | 75.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.11 | 94 | 70-130 | | | |
| Copper | 76.5 | 2.0 | 0.25 | ug/l | 80.0 | 0.32 | 95 | 70-130 | | | |
| Lead | 77.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.098 | 97 | 70-130 | | | |
| Selenium | 77.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.31 | 97 | 70-130 | | | |
| Silver | 73.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 92 | 70-130 | | | |
| Thallium | 79.8 | 1.0 | 0.15 | ug/l | 80.0 | 0.47 | 99 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 06/29/2006 (6F27073-MSD1) | | | | | | Source: IPF1973-01 | | | | | |
| Antimony | 80.0 | 2.0 | 0.050 | ug/l | 80.0 | 0.23 | 100 | 70-130 | 1 | 20 | |
| Cadmium | 74.1 | 1.0 | 0.025 | ug/l | 80.0 | 0.11 | 92 | 70-130 | 2 | 20 | |
| Copper | 76.3 | 2.0 | 0.25 | ug/l | 80.0 | 0.32 | 95 | 70-130 | 0 | 20 | |
| Lead | 79.2 | 1.0 | 0.040 | ug/l | 80.0 | 0.098 | 99 | 70-130 | 2 | 20 | |
| Selenium | 77.6 | 2.0 | 0.30 | ug/l | 80.0 | 0.31 | 97 | 70-130 | 0 | 20 | |
| Silver | 72.9 | 1.0 | 0.025 | ug/l | 80.0 | ND | 91 | 70-130 | 1 | 20 | |
| Thallium | 80.9 | 1.0 | 0.15 | ug/l | 80.0 | 0.47 | 101 | 70-130 | 1 | 20 | |

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 Report Number: IPF1863

Sampled: 06/16/06
 Received: 06/16/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|----------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6F16122 Extracted: 06/16/06 | | | | | | | | | | | |
| Blank Analyzed: 06/16/2006 (6F16122-BLK1) | | | | | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 06/16/2006 (6F16122-BS1) | | | | | | | | | | | |
| Sulfate | 10.0 | 0.50 | 0.18 | mg/l | 10.0 | | 100 | 90-110 | | | |
| Matrix Spike Analyzed: 06/16/2006 (6F16122-MS1) | | | | | | | | | | | |
| Sulfate | 264 | 5.0 | 1.8 | mg/l | 100 | 160 | 104 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 06/16/2006 (6F16122-MSD1) | | | | | | | | | | | |
| Sulfate | 256 | 5.0 | 1.8 | mg/l | 100 | 160 | 96 | 80-120 | 3 | 20 | |
| Batch: 6F17066 Extracted: 06/17/06 | | | | | | | | | | | |
| Duplicate Analyzed: 06/17/2006 (6F17066-DUP1) | | | | | | | | | | | |
| pH | 7.41 | NA | 0.00 | pH Units | | 7.40 | | | 0 | 5 | |
| Duplicate Analyzed: 06/17/2006 (6F17066-DUP2) | | | | | | | | | | | |
| pH | 7.60 | NA | 0.00 | pH Units | | 7.63 | | | 0 | 5 | |
| Batch: 6F17068 Extracted: 06/17/06 | | | | | | | | | | | |
| Blank Analyzed: 06/17/2006 (6F17068-BLK1) | | | | | | | | | | | |
| Turbidity | 0.0400 | 1.0 | 0.040 | NTU | | | | | | | J |
| Duplicate Analyzed: 06/17/2006 (6F17068-DUP1) | | | | | | | | | | | |
| Turbidity | 16.0 | 1.0 | 0.040 | NTU | | 16 | | | 0 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6F20059 Extracted: 06/20/06 | | | | | | | | | | | |
| Blank Analyzed: 06/20/2006 (6F20059-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 06/20/2006 (6F20059-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.2 | 5.0 | 0.94 | mg/l | 20.0 | | 91 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 06/20/2006 (6F20059-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.9 | 5.0 | 0.94 | mg/l | 20.0 | | 94 | 65-120 | 4 | 20 | |
| Batch: 6F21104 Extracted: 06/21/06 | | | | | | | | | | | |
| Blank Analyzed: 06/21/2006 (6F21104-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 06/21/2006 (6F21104-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 06/21/2006 (6F21104-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | ND | 109 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 06/21/2006 (6F21104-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | ND | 112 | 70-120 | 3 | 15 | |
| Batch: 6F21113 Extracted: 06/21/06 | | | | | | | | | | | |
| Blank Analyzed: 06/21/2006 (6F21113-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPF1863

Sampled: 06/16/06
 Received: 06/16/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <u>Batch: 6F21113 Extracted: 06/21/06</u> | | | | | | | | | | | |
| LCS Analyzed: 06/21/2006 (6F21113-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 976 | 10 | 10 | mg/l | 1000 | | 98 | 85-115 | | | |
| Duplicate Analyzed: 06/21/2006 (6F21113-DUP1) | | | | | | | | | | | |
| Total Suspended Solids | 2750 | 10 | 10 | mg/l | | 2700 | | | 2 | 10 | |
| <u>Batch: 6F22074 Extracted: 06/22/06</u> | | | | | | | | | | | |
| Blank Analyzed: 06/23/2006 (6F22074-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 06/23/2006 (6F22074-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 1030 | 10 | 10 | mg/l | 1000 | | 103 | 90-110 | | | |
| Duplicate Analyzed: 06/23/2006 (6F22074-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 158 | 10 | 10 | mg/l | | 160 | | | 1 | 10 | |
| <u>Batch: 6F22090 Extracted: 06/22/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 06/22/2006 (6F22090-DUP1) | | | | | | | | | | | |
| Specific Conductance | 260 | 1.0 | 1.0 | umhos/cm | | 260 | | | 0 | 5 | |
| <u>Batch: 6F22119 Extracted: 06/22/06</u> | | | | | | | | | | | |
| Blank Analyzed: 06/22/2006 (6F22119-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |

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 Received: 06/16/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6F22119 Extracted: 06/22/06</u> | | | | | | | | | | | |
| LCS Analyzed: 06/22/2006 (6F22119-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 9.85 | 1.0 | 0.25 | mg/l | 10.0 | | 98 | 90-110 | | | |
| Matrix Spike Analyzed: 06/22/2006 (6F22119-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPF1827-03 | | | | | |
| Total Organic Carbon | 13.8 | 1.0 | 0.25 | mg/l | 5.00 | 9.3 | 90 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 06/22/2006 (6F22119-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPF1827-03 | | | | | |
| Total Organic Carbon | 13.8 | 1.0 | 0.25 | mg/l | 5.00 | 9.3 | 90 | 80-120 | 0 | 20 | |
| <u>Batch: 6F24067 Extracted: 06/24/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 06/24/2006 (6F24067-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPF1863-01 | | | | | |
| Density | 0.995 | NA | N/A | g/cc | | 0.99 | | | 1 | 20 | |
| <u>Batch: 6F24068 Extracted: 06/24/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 06/24/2006 (6F24068-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPF1863-01 | | | | | |
| Alkalinity as CaCO3 | 166 | 2.0 | 2.0 | mg/l | | 170 | | | 2 | 20 | |
| Reference Analyzed: 06/24/2006 (6F24068-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 182 | 2.0 | 2.0 | mg/l | 192 | | 95 | 90-110 | | | |
| <u>Batch: 6F26082 Extracted: 06/26/06</u> | | | | | | | | | | | |
| Blank Analyzed: 06/26/2006 (6F26082-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |

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 Received: 06/16/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6F26082 Extracted: 06/26/06 | | | | | | | | | | | |
| LCS Analyzed: 06/26/2006 (6F26082-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| Matrix Spike Analyzed: 06/26/2006 (6F26082-MS1) Source: IPF1857-01 | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.84 | 101 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 06/26/2006 (6F26082-MSD1) Source: IPF1857-01 | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 11.2 | 0.50 | 0.43 | mg/l | 10.0 | 0.84 | 104 | 85-120 | 3 | 15 | |
| Batch: 6F29112 Extracted: 06/29/06 | | | | | | | | | | | |
| Blank Analyzed: 06/29/2006 (6F29112-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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Sampled: 06/16/06
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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EDD + Level 4 | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta
 Samples: IPF1863-01

Analysis Performed: Level 4 + EDD
 Samples: IPF1863-01

TestAmerica - Irvine, CA

Michele Chamberlin
 Project Manager

IPF 863

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

| Client Name/Address: | | Project: | | ANALYSIS REQUIRED | | | | | | | | | | | | Field readings: | | | | | | | |
|---|---------------|---|------------|---|--------------|----------------------|--|--------------------------|----------------------------|--|----------------------|--------------------------------------|--------------------------|------------------------------------|---|-----------------|--------------------------------------|-------------------|------------------------------------|---|---------------------------|------------------------|----|
| MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Boeing-SSFL BMP/NPDES R-2A Pond Pilot Test | | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* | Alkalinity | Total Organic Carbon | TCDD (and all congeners) | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | Suspended Sediments Concentration (ASTM Method) | SO4, NO3+NO2-N | Turbidity, TDS, TSS, Conductivity | Ammonia-N (NH3-N) | Nitrate-N, Nitrite-N (NO3 + NO2-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* | Zn | Comments | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* | Zn, Hardness | Total Dissolved Solids, pH | Alkalinity | Total Organic Carbon | TCDD (and all congeners) | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | Suspended Sediments Concentration (ASTM Method) | SO4, NO3+NO2-N | Turbidity, TDS, TSS, Conductivity | Ammonia-N (NH3-N) | Nitrate-N, Nitrite-N (NO3 + NO2-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* | Zn | Comments | |
| R-2A Pond | W | Poly-1L | 1 | 6-16-06 6:55 AM | HNO3 | 1A | X | | | | | | | | | | | | | | | Temp = 72- pH = 7.4 | |
| R-2A Pond Dup | W | Poly-1L | 1 | | HNO3 | 1B | X | | | | | | | | | | | | | | | | |
| R-2A Pond | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | | | | | | | | |
| R-2A Pond | W | VOAs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | | | | | | | |
| R-2A Pond | W | 1L Amber | 2 | | None | 4A, 4B | | | | | | X | | | | | | | | | | | |
| R-2A Pond | W | 1L Amber | 2 | | HCl | 5A, 5B | | | | | | | X | | | | | | | | | | |
| R-2A Pond | W | Poly-500 ml | 1 | | H2SO4 | 6 | | | | | | | | X | | | | | | | | | |
| R-2A Pond | W | Poly-1L | 1 | | None | 7 | | | | | | | | | | | | | | | | | |
| R-2A Pond | W | Poly-500 ml | 2 | | None | 8A, 8B | | | | | | | | | X | | | | | | | | |
| R-2A Pond | W | Poly-500 ml | 2 | | None | 9A, 9B | | | | | | | | | | | | | | | | | |
| R-2A Pond | W | Poly-500 ml | 1 | | H2SO4 | 10 | | | | | | | | | | | | | | | | | |
| R-2A Pond | W | Poly-1L | 1 | | None | 11 | | | | | | | | | | | | | | | | | |
| R-2A Pond | W | Poly-1L | 1 | | None | 12 | | | | | | | | | | | | | | | | | |
| Relinquished By | | | | 6-16-06 | Date/Time: | Received By | | | | 6/16/06 | Date/Time: | Turn around Time: (check) | | | | 24 Hours | 48 Hours | 72 Hours | Perchlorate Only 72 Hours | Metals Only 72 Hours | Sample Integrity: (Check) | On Ice: X | |
| Relinquished By | | | | 0945 | Date/Time: | Received By | | | | 6/16/06 | Date/Time: | Turn around Time: (check) | | | | 24 Hours | 48 Hours | 72 Hours | Perchlorate Only 72 Hours | Metals Only 72 Hours | Sample Integrity: (Check) | On Ice: X | |
| Relinquished By | | | | 1900 | Date/Time: | Received By | | | | 6/16/06 | Date/Time: | Turn around Time: (check) | | | | 24 Hours | 48 Hours | 72 Hours | Perchlorate Only 72 Hours | Metals Only 72 Hours | Sample Integrity: (Check) | On Ice: X | 3C |

(Handwritten initials and date)



July 12, 2006

Alta Project I.D.: 27795

Ms. Michele Chamberlin
Del Mar Analytical, Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on June 20, 2006 under your Project Name "IPF1863". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
Director of HRMS Services



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 6/20/2006

Alta Lab. ID

Client Sample ID

27795-001

IPF1863-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8160 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 8-Jul-06 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 6-Jul-06 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000138 | | | IS 13C-2,3,7,8-TCDD | 91.0 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000154 | | | 13C-1,2,3,7,8-PeCDD | 88.5 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000191 | | | 13C-1,2,3,4,7,8-HxCDD | 82.3 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000201 | | | 13C-1,2,3,6,7,8-HxCDD | 78.1 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000190 | | | 13C-1,2,3,4,6,7,8-HpCDD | 75.0 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000181 | | | 13C-OCDD | 55.5 | 17 - 157 | | |
| OCDD | ND | 0.00000405 | | | 13C-2,3,7,8-TCDF | 93.9 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000124 | | | 13C-1,2,3,7,8-PeCDF | 101 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000125 | | | 13C-2,3,4,7,8-PeCDF | 102 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8-HxCDF | 86.6 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000640 | | | 13C-1,2,3,6,7,8-HxCDF | 83.2 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000586 | | | 13C-2,3,4,6,7,8-HxCDF | 84.2 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000674 | | | 13C-1,2,3,7,8,9-HxCDF | 77.0 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.000000947 | | | 13C-1,2,3,4,6,7,8-HpCDF | 72.9 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000113 | | | 13C-1,2,3,4,7,8,9-HpCDF | 67.0 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000121 | | | 13C-OCDF | 55.5 | 17 - 157 | | |
| OCDF | ND | 0.00000419 | | | CRS 37Cl-2,3,7,8-TCDD | 107 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000138 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000154 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000194 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000256 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000124 | | | | | | | |
| Total PeCDF | ND | 0.00000121 | | | | | | | |
| Total HxCDF | ND | 0.000000697 | | | | | | | |
| Total HpCDF | ND | 0.00000116 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 12-Jul-2006 10:48

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8160 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 6-Jul-06 | Date Analyzed DB-5: | 7-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.2 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 85.9 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 55.7 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 83.6 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 52.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 75.5 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 54.1 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 74.9 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 52.8 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 71.9 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 53.1 | 35 - 70 | 13C-OCDD | 57.4 | 17 - 157 | |
| OCDD | 100 | 104 | 78 - 144 | 13C-2,3,7,8-TCDF | 87.2 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 93.5 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 50.4 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 96.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 50.9 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 79.9 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 52.0 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 79.5 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 51.6 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 78.6 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.6 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 75.4 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 50.4 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 72.3 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.2 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 72.3 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.5 | 39 - 69 | 13C-OCDF | 60.0 | 17 - 157 | |
| OCDF | 100 | 96.3 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 102 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 12-Jul-2006 10:48

| Sample ID: IPF1863-01 | | | | | EPA Method 1613 | | | |
|------------------------------|----------------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Del Mar Analytical, Irvine | | Matrix: | Aqueous | Lab Sample: | 27795-001 | Date Received: | 20-Jun-06 |
| Project: | IPF1863 | | Sample Size: | 1.01 L | QC Batch No.: | 8160 | Date Extracted: | 6-Jul-06 |
| Date Collected: | 16-Jun-06 | | | | Date Analyzed DB-5: | 8-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 0730 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000129 | | | IS 13C-2,3,7,8-TCDD | 90.0 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000137 | | | 13C-1,2,3,7,8-PeCDD | 97.0 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000304 | | | 13C-1,2,3,4,7,8-HxCDD | 87.7 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000309 | | | 13C-1,2,3,6,7,8-HxCDD | 86.0 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000297 | | | 13C-1,2,3,4,6,7,8-HpCDD | 89.0 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 0.0000127 | | | J | 13C-OCDD | 71.4 | 17 - 157 | |
| OCDD | 0.0000337 | | | J | 13C-2,3,7,8-TCDF | 90.0 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000130 | | | 13C-1,2,3,7,8-PeCDF | 105 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000110 | | | 13C-2,3,4,7,8-PeCDF | 107 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000105 | | | 13C-1,2,3,4,7,8-HxCDF | 87.5 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000839 | | | 13C-1,2,3,6,7,8-HxCDF | 87.7 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000799 | | | 13C-2,3,4,6,7,8-HxCDF | 89.9 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000854 | | | 13C-1,2,3,7,8,9-HxCDF | 85.4 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000122 | | | 13C-1,2,3,4,6,7,8-HpCDF | 84.5 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.000000997 | | | 13C-1,2,3,4,7,8,9-HpCDF | 87.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.000000991 | | | 13C-OCDF | 75.2 | 17 - 157 | |
| OCDF | ND | 0.00000262 | | | CRS 37Cl-2,3,7,8-TCDD | 96.4 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000129 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000137 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | 0.00000791 | | | | c. Method detection limit. | | | |
| Total HpCDD | 0.0000222 | | | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000130 | | | | | | |
| Total PeCDF | ND | 0.00000107 | | | | | | |
| Total HxCDF | ND | 0.000000913 | | | | | | |
| Total HpCDF | ND | 0.000000994 | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 12-Jul-2006 10:48

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

SUBCONTRACT ORDER

Del Mar Analytical - Irvine

IPF1863

27795, 0.5°C

SENDING LABORATORY:

Del Mar Analytical - Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Alta Analytical - SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone : (916) 933-1640
Fax: (916) 673-0106

| Analysis | Due | Expires | Laboratory ID | Comments |
|-----------------------------|----------------|------------------------|---------------|--|
| Sample ID: IPF1863-01 | Water | Sampled:06/16/06 07:30 | | |
| Level 4 + EDD-OUT | 06/28/06 12:00 | 07/14/06 07:30 | | Excel EDD email to pm, Include Std logs for Lvl IV |
| 1613-Dioxin-HR-Alta | 06/28/06 12:00 | 06/23/06 07:30 | | J flags, 17 congeners, no TEQ, ug/L, sub=Alta |
| <i>Containers Supplied:</i> | | | | |
| 1 L Amber (F) | 1 L Amber (G) | | | |

Released By: *[Signature]* Date: 6/19/06
 Received By: *[Signature]* Date: 6-20-06 0900

Released By _____ Date _____ Received By _____ Date _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27795

| | | | |
|------------------|---|---|-----------------------------------|
| Samples Arrival: | Date/Time 6.20.06 0900 | Initials: FEB | Location: WR-2 Shelf/Rack: N/A |
| Logged In: | Date/Time 6.20.06 1206 | Initials: FEB | Location: WR-2 Shelf/Rack: C-5 |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | <input type="checkbox"/> DHL | <input type="checkbox"/> Hand Delivered | <input type="checkbox"/> Other |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | <input type="checkbox"/> None | | |
| Temp °C | 0.5°C | Time: 0913 | Thermometer ID: DT-20 |

DT-1 - FEB 6.20.06

| | YES | NO | NA |
|--|----------------------|--|--|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | Trk # 7909 6301 6510 | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | | ✓ |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | <input checked="" type="checkbox"/> None |
| Shipping Container | Alta | <input checked="" type="checkbox"/> Client | Retain |
| | | <input checked="" type="checkbox"/> Return | Dispose |

Comments:

FILTER DRUM INFLUENT AND EFFLUENT DATA

07/18/06 and 07/19/06

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/31/06 19:09

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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.

LABORATORY ID

IPG1413-01

CLIENT ID

V-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1413-01 (V-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G20074 | 0.0088 | 0.040 | 0.35 | 1 | 07/20/06 | 07/20/06 | |
| Sample ID: IPG1413-01 (V-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G20072 | 0.18 | 2.0 | 0.39 | 1 | 07/20/06 | 07/20/06 | J |
| Arsenic | EPA 200.7 | 6G20074 | 3.8 | 5.0 | 6.8 | 1 | 07/20/06 | 07/20/06 | B |
| Beryllium | EPA 200.7 | 6G20074 | 0.62 | 2.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Cadmium | EPA 200.8 | 6G20072 | 0.015 | 1.0 | 0.026 | 1 | 07/20/06 | 07/20/06 | J |
| Chromium | EPA 200.7 | 6G20074 | 0.68 | 5.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Copper | EPA 200.8 | 6G20072 | 0.49 | 2.0 | 2.3 | 1 | 07/20/06 | 07/20/06 | |
| Lead | EPA 200.8 | 6G20072 | 0.13 | 1.0 | 0.44 | 1 | 07/20/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G20074 | 3.2 | 20 | 59 | 1 | 07/20/06 | 07/20/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G20074 | 2.0 | 10 | 2.0 | 1 | 07/20/06 | 07/20/06 | J |
| Selenium | EPA 200.8 | 6G20072 | 0.36 | 2.0 | 0.50 | 1 | 07/20/06 | 07/20/06 | J |
| Silver | EPA 200.8 | 6G20072 | 0.089 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Thallium | EPA 200.8 | 6G20072 | 0.075 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Zinc | EPA 200.7 | 6G20074 | 3.7 | 20 | ND | 1 | 07/20/06 | 07/20/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1413-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G19101 | 0.015 | 0.040 | 0.026 | 1 | 07/19/06 | 07/20/06 | J |
| Sample ID: IPG1413-01 (V-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G20073 | 0.050 | 2.0 | 0.42 | 1 | 07/20/06 | 07/20/06 | J |
| Arsenic | EPA 200.7-Diss | 6G19101 | 4.4 | 5.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Beryllium | EPA 200.7-Diss | 6G19101 | 0.90 | 2.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Cadmium | EPA 200.8-Diss | 6G20073 | 0.025 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Chromium | EPA 200.7-Diss | 6G19101 | 2.0 | 5.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Copper | EPA 200.8-Diss | 6G20073 | 0.25 | 2.0 | 1.3 | 1 | 07/20/06 | 07/20/06 | J |
| Lead | EPA 200.8-Diss | 6G20073 | 0.040 | 1.0 | 0.051 | 1 | 07/20/06 | 07/20/06 | J |
| Manganese | EPA 200.7-Diss | 6G19101 | 7.0 | 20 | ND | 1 | 07/19/06 | 07/20/06 | |
| Mercury | EPA 245.1-Diss | 6G20093 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7-Diss | 6G19101 | 2.0 | 10 | 2.2 | 1 | 07/19/06 | 07/20/06 | J |
| Selenium | EPA 200.8-Diss | 6G20073 | 0.30 | 2.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Silver | EPA 200.8-Diss | 6G20073 | 0.025 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Thallium | EPA 200.8-Diss | 6G20073 | 0.15 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G19101 | 15 | 20 | ND | 1 | 07/19/06 | 07/20/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1413-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 1.0 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1413-01 (V-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G25117 | 0.43 | 0.50 | 1.4 | 1 | 07/25/06 | 07/25/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G26083 | 2.0 | 2.0 | 150 | 1 | 07/26/06 | 07/26/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 0.56 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G20074 | 1.0 | 1.0 | 200 | 1 | 07/20/06 | 07/20/06 | |
| Nitrate-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrite-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18117 | 0.072 | 0.26 | ND | 1 | 07/18/06 | 07/19/06 | |
| Oil & Grease | EPA 413.1 | 6G21001 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G18117 | 1.8 | 5.0 | 72 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19077 | 10 | 10 | 420 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G21108 | 0.50 | 1.0 | 11 | 1 | 07/21/06 | 07/21/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21144 | 10 | 10 | ND | 1 | 07/21/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1413-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19094 | 0.040 | 1.0 | 7.5 | 1 | 07/19/06 | 07/19/06 | |

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 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1413-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19093 | N/A | NA | 7.70 | 1 | 07/19/06 | 07/19/06 | |

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 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1413-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 590 | 1 | 07/19/06 | 07/19/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1413

Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: V-EFF (IPG1413-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/18/2006 13:35 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 11:20 |
| EPA 180.1 | 2 | 07/18/2006 13:35 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 13:35 | 07/18/2006 17:25 | 07/18/2006 23:00 | 07/19/2006 02:05 |

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 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20072 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20072-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20072-BS1) | | | | | | | | | | | |
| Antimony | 80.6 | 2.0 | 0.050 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Copper | 82.7 | 2.0 | 0.25 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Lead | 82.1 | 1.0 | 0.040 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Silver | 82.7 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Thallium | 83.3 | 1.0 | 0.075 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20072-MS1) Source: IPG1519-01 | | | | | | | | | | | |
| Antimony | 86.5 | 2.0 | 0.18 | ug/l | 80.0 | 0.46 | 108 | 70-130 | | | |
| Cadmium | 80.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.079 | 100 | 70-130 | | | |
| Copper | 78.2 | 2.0 | 0.49 | ug/l | 80.0 | 4.6 | 92 | 70-130 | | | |
| Lead | 78.3 | 1.0 | 0.13 | ug/l | 80.0 | 0.62 | 97 | 70-130 | | | |
| Selenium | 144 | 2.0 | 0.36 | ug/l | 80.0 | 66 | 98 | 70-130 | | | |
| Silver | 75.6 | 1.0 | 0.089 | ug/l | 80.0 | ND | 94 | 70-130 | | | |
| Thallium | 78.5 | 1.0 | 0.075 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20072-MSD1) Source: IPG1519-01 | | | | | | | | | | | |
| Antimony | 86.9 | 2.0 | 0.18 | ug/l | 80.0 | 0.46 | 108 | 70-130 | 1 | 20 | |
| Cadmium | 80.2 | 1.0 | 0.015 | ug/l | 80.0 | 0.079 | 100 | 70-130 | 0 | 20 | |
| Copper | 79.1 | 2.0 | 0.49 | ug/l | 80.0 | 4.6 | 93 | 70-130 | 1 | 20 | |
| Lead | 77.4 | 1.0 | 0.13 | ug/l | 80.0 | 0.62 | 96 | 70-130 | 1 | 20 | |
| Selenium | 143 | 2.0 | 0.36 | ug/l | 80.0 | 66 | 96 | 70-130 | 1 | 20 | |
| Silver | 75.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 95 | 70-130 | 0 | 20 | |
| Thallium | 78.2 | 1.0 | 0.075 | ug/l | 80.0 | ND | 98 | 70-130 | 0 | 20 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20074 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20074-BLK1) | | | | | | | | | | | |
| Arsenic | 4.28 | 5.0 | 3.8 | ug/l | | | | | | | J |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20074-BS1) | | | | | | | | | | | |
| Arsenic | 486 | 5.0 | 3.8 | ug/l | 500 | | 97 | 85-115 | | | |
| Beryllium | 486 | 2.0 | 0.62 | ug/l | 500 | | 97 | 85-115 | | | |
| Chromium | 489 | 5.0 | 0.68 | ug/l | 500 | | 98 | 85-115 | | | |
| Iron | 0.495 | 0.040 | 0.0088 | mg/l | 0.500 | | 99 | 85-115 | | | |
| Manganese | 496 | 20 | 3.2 | ug/l | 500 | | 99 | 85-115 | | | |
| Nickel | 482 | 10 | 2.0 | ug/l | 500 | | 96 | 85-115 | | | |
| Zinc | 481 | 20 | 3.7 | ug/l | 500 | | 96 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20074-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1496-01 | | | | | |
| Arsenic | 505 | 5.0 | 3.8 | ug/l | 500 | 8.2 | 99 | 70-130 | | | |
| Beryllium | 497 | 2.0 | 0.62 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Chromium | 495 | 5.0 | 0.68 | ug/l | 500 | 2.0 | 99 | 70-130 | | | |
| Iron | 0.506 | 0.040 | 0.0088 | mg/l | 0.500 | ND | 101 | 70-130 | | | |
| Manganese | 497 | 20 | 3.2 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | | | |
| Zinc | 507 | 20 | 3.7 | ug/l | 500 | ND | 101 | 70-130 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20074 Extracted: 07/20/06 | | | | | | | | | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20074-MSD1) | | | | | | Source: IPG1496-01 | | | | | |
| Arsenic | 504 | 5.0 | 3.8 | ug/l | 500 | 8.2 | 99 | 70-130 | 0 | 20 | |
| Beryllium | 497 | 2.0 | 0.62 | ug/l | 500 | ND | 99 | 70-130 | 0 | 20 | |
| Chromium | 503 | 5.0 | 0.68 | ug/l | 500 | 2.0 | 100 | 70-130 | 2 | 20 | |
| Iron | 0.513 | 0.040 | 0.0088 | mg/l | 0.500 | ND | 103 | 70-130 | 1 | 20 | |
| Manganese | 496 | 20 | 3.2 | ug/l | 500 | ND | 99 | 70-130 | 0 | 20 | |
| Nickel | 498 | 10 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | 2 | 20 | |
| Zinc | 514 | 20 | 3.7 | ug/l | 500 | ND | 103 | 70-130 | 1 | 20 | |

Batch: 6G20092 Extracted: 07/20/06

Blank Analyzed: 07/20/2006 (6G20092-BLK1)

| | | | | | | | | | | | |
|---------|----|------|-------|------|--|--|--|--|--|--|--|
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
|---------|----|------|-------|------|--|--|--|--|--|--|--|

LCS Analyzed: 07/20/2006 (6G20092-BS1)

| | | | | | | | | | | | |
|---------|------|------|-------|------|------|--|-----|--------|--|--|--|
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
|---------|------|------|-------|------|------|--|-----|--------|--|--|--|

Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1)

| | | | | | | | | | | | |
|---------|------|------|-------|------|------|----|----|--------|--|--|--|
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
|---------|------|------|-------|------|------|----|----|--------|--|--|--|

Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1)

| | | | | | | | | | | | |
|---------|------|------|-------|------|------|----|----|--------|---|----|--|
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
|---------|------|------|-------|------|------|----|----|--------|---|----|--|

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R-2A Pond Pilot Test
Report Number: IPG1413

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19101 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19101-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19101-BS1) | | | | | | | | | | | |
| Arsenic | 1010 | 5.0 | 4.4 | ug/l | 1000 | | 101 | 85-115 | | | |
| Beryllium | 986 | 2.0 | 0.90 | ug/l | 1000 | | 99 | 85-115 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19101-MS1) Source: IPG1402-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.023 | 99 | 70-130 | | | |
| Manganese | 987 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 983 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19101-MSD1) Source: IPG1402-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | 0 | 20 | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.023 | 100 | 70-130 | 1 | 20 | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Nickel | 991 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | ND | 104 | 70-130 | 1 | 20 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20073 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20073-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20073-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.7 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 81.5 | 2.0 | 0.25 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Lead | 81.6 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 80.9 | 2.0 | 0.30 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Silver | 80.8 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Thallium | 81.9 | 1.0 | 0.15 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20073-MS1) Source: IPG1402-01 | | | | | | | | | | | |
| Antimony | 81.7 | 2.0 | 0.050 | ug/l | 80.0 | 0.60 | 101 | 70-130 | | | |
| Cadmium | 78.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Copper | 79.2 | 2.0 | 0.25 | ug/l | 80.0 | 0.60 | 98 | 70-130 | | | |
| Lead | 78.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.056 | 98 | 70-130 | | | |
| Selenium | 77.9 | 2.0 | 0.30 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Silver | 77.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20073-MSD1) Source: IPG1402-01 | | | | | | | | | | | |
| Antimony | 83.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.60 | 104 | 70-130 | 2 | 20 | |
| Cadmium | 80.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 100 | 70-130 | 2 | 20 | |
| Copper | 81.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.60 | 101 | 70-130 | 3 | 20 | |
| Lead | 79.9 | 1.0 | 0.040 | ug/l | 80.0 | 0.056 | 100 | 70-130 | 2 | 20 | |
| Selenium | 79.5 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | 2 | 20 | |
| Silver | 79.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 80.7 | 1.0 | 0.15 | ug/l | 80.0 | ND | 101 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20093 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20093-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20093-BS1) | | | | | | | | | | | |
| Mercury | 7.86 | 0.20 | 0.15 | ug/l | 8.00 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20093-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Mercury | 7.25 | 0.20 | 0.15 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20093-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Mercury | 7.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 90 | 70-130 | 1 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|----------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18117 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18117-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18117-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.20 | 0.15 | 0.080 | mg/l | 1.13 | | 106 | 90-110 | | | |
| Nitrite-N | 1.58 | 0.15 | 0.080 | mg/l | 1.52 | | 104 | 90-110 | | | |
| Sulfate | 9.70 | 0.50 | 0.18 | mg/l | 10.0 | | 97 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/18/2006 (6G18117-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Nitrate-N | 1.19 | 0.15 | 0.080 | mg/l | 1.13 | ND | 105 | 80-120 | | | |
| Nitrite-N | 1.82 | 0.15 | 0.080 | mg/l | 1.52 | ND | 120 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18117-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Nitrate-N | 1.24 | 0.15 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | 4 | 20 | |
| Nitrite-N | 1.87 | 0.15 | 0.080 | mg/l | 1.52 | ND | 123 | 80-120 | 3 | 20 | MI |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | 620 | | | 1 | 5 | |
| Batch: 6G19077 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19077-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 Report Number: IPG1413

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|-----------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G19077 Extracted: 07/19/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19077-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 994 | 10 | 10 | mg/l | 1000 | | 99 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19077-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 243 | 10 | 10 | mg/l | | Source: IPG1408-01 240 | | | 1 | 10 | |
| <u>Batch: 6G19093 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19093-DUP1) | | | | | | | | | | | |
| pH | 8.13 | NA | N/A | pH Units | | Source: IPG1411-04 8.12 | | | 0 | 5 | |
| <u>Batch: 6G19094 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19094-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19094-DUP1) | | | | | | | | | | | |
| Turbidity | 15.9 | 1.0 | 0.040 | NTU | | Source: IPG1405-01 16 | | | 1 | 20 | |
| <u>Batch: 6G19117 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | Source: IPG0469-03 1.0 | | | 2 | 20 | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | Source: IPG1381-01 0.99 | | | 0 | 20 | |

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 Report Number: IPG1413

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20074 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20074-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| Batch: 6G21001 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21001-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21001-BS1) | | | | | | | | | | | |
| Oil & Grease | 19.1 | 5.0 | 0.94 | mg/l | 20.0 | | 96 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21001-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.7 | 5.0 | 0.94 | mg/l | 20.0 | | 94 | 65-120 | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1413

Sampled: 07/18/06
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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21108 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21108-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21108-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 11.0 | 1.0 | 0.25 | mg/l | 10.0 | | 110 | 90-110 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21108-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.69 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21108-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.67 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | 0 | 20 | |
| Batch: 6G21144 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21144-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21144-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 978 | 10 | 10 | mg/l | 1000 | | 98 | 85-115 | | | |
| Duplicate Analyzed: 07/21/2006 (6G21144-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1365-01 | | | | | |
| Total Suspended Solids | 86.0 | 10 | 10 | mg/l | | 92 | | | 7 | 10 | |
| Batch: 6G25117 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25117-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G25117 Extracted: 07/25/06 | | | | | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25117-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.6 | 0.50 | 0.43 | mg/l | 20.0 | | 98 | 85-120 | 2 | 15 | |
| Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1800-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1800-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 0 | 15 | |
| Batch: 6G26083 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26083-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1430-01 | | | | | |
| Alkalinity as CaCO3 | 196 | 2.0 | 2.0 | mg/l | | 200 | | | 2 | 20 | |
| Reference Analyzed: 07/26/2006 (6G26083-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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Report Number: IPG1413

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1413-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

IR 1143

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

| Client Name/Address: | | Project: | | ANALYSIS REQUIRED | | | | | | | | | | Field readings: | | | |
|---|---------------|---|------------|---|---|----------------------|--------------------------|-------------------------|--|------------------------------|--------------------------------|---|--------------------------|-----------------|----------|--|--|
| MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test | | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N) | Turbidity, TSS, Conductivity | Ammonia-N (NH ₃ -N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn | TCDD (and all congeners) | Temp = pH= | Comments | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | | | | | | | | | | | |
| V-EFF | W | Poly-1L | 1 | 7/18/06 | HNO3 | 1 | X | | | | | | | | | | |
| V-EFF | W | Poly-1L | 1 | 7/18/06 | None | 2 | X | | | | | | | | | | |
| V-EFF | W | VOAs | 2 | | HCl | 3A, 3B | | | | | | | | | | | |
| V-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | X | | | | | | | | | | |
| V-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | X | | | | | | | | | |
| V-EFF | W | Poly-500 ml | 1 | | None | 6 | | | X | | | | | | | | |
| V-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | X | | | | | | | |
| V-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | X | | | | | | |
| V-EFF | W | Poly-1L | 1 | 7/18/06 | None | 9 | | | | | | X | | | | | |
| V-EFF | W | 1L Amber | 2 | 7/18/06 | None | 10A, 10B | | | | | | | X | | | | |
| Relinquished By | | | | Date/Time: | Received By | | Date/Time: | | | | | | | | | Turn around Time: (check) 24 Hours _____ 5 Days _____ | |
| Relinquished By | | | | 7/18/06 | Relinquished By | | 7-18-06 | | | | | | | | | 48 Hours _____ 10 Days _____ | |
| Relinquished By | | | | 7-18-06 1725 | Relinquished By | | 7-18-06 | | | | | | | | | 72 Hours _____ Normal X | |
| Relinquished By | | | | | Relinquished By | | | | | | | | | | | Perchlorate Only 72 Hours _____ | |
| Relinquished By | | | | | Relinquished By | | | | | | | | | | | Metals Only 72 Hours _____ | |
| Relinquished By | | | | | Relinquished By | | | | | | | | | | | Sample Integrity: (Check) On Ice: X 100 | |

0602030

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric,
Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
Thanks,
Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks,

Eric Walker
MWH Americas, Inc.
300 North Lake Avenue, Suite 1200
Pasadena, California 91101
(626) 786-0093 Mobile
(626) 568-6852 Direct Line
(626) 568-6515 FAX

Note: The information contained in this e-mail is intended only for the individual or entity to whom it is addressed. Its contents (including any attachments) may contain confidential and/or privileged information. If you are not an intended recipient you must not use, disclose, disseminate, copy or print its contents. If you receive this e-mail in error, please notify the sender by reply e-mail and delete and destroy the message.

"Michele Chamberlin"
<mchamberlin@testamericainc.com>

To "Eric Walker" <Eric.Walker@us.mwhglobal.com>
cc "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>

07/20/2006 03:14 PM

Subject Sample Temp for 7/18/06 R2A Pond Pilot Test

7/20/2006

Hi Eric,

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks,
Michele

7/20/2006



July 27, 2006

Alta Project I.D.: 27888

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1413". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27888-001

IPG1413-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | |
|---------------------|--------------|-----------------|-------------------|---------------------|---|-----------------------|----------------------|------------|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-MB001 | | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000132 | | | IS 13C-2,3,7,8-TCDD | 73.0 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000145 | | | 13C-1,2,3,7,8-PeCDD | 70.0 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000396 | | | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,6,7,8-HxCDD | 66.5 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,4,6,7,8-HpCDD | 66.3 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000206 | | | 13C-OCDD | 49.4 | 17 - 157 | |
| OCDD | ND | | 0.00000597 | | 13C-2,3,7,8-TCDF | 69.1 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDF | 68.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000124 | | | 13C-2,3,4,7,8-PeCDF | 69.7 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000115 | | | 13C-1,2,3,4,7,8-HxCDF | 73.6 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000781 | | | 13C-1,2,3,6,7,8-HxCDF | 74.2 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000644 | | | 13C-2,3,4,6,7,8-HxCDF | 71.0 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000784 | | | 13C-1,2,3,7,8,9-HxCDF | 58.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000137 | | | 13C-1,2,3,4,6,7,8-HpCDF | 64.2 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000129 | | | 13C-OCDF | 45.8 | 17 - 157 | |
| OCDF | ND | 0.00000345 | | | CRS 37Cl-2,3,7,8-TCDD | 78.8 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000132 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000145 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | 0.00000238 | | | c. Method detection limit. | | | |
| Total HpCDD | ND | 0.00000206 | | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000171 | | | | | | |
| Total PeCDF | ND | 0.00000120 | | | | | | |
| Total HxCDF | ND | 0.000000895 | | | | | | |
| Total HpCDF | ND | 0.00000123 | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:15

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.1 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 66.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 49.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 69.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 51.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 49.7 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 64.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 51.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 66.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 52.2 | 35 - 70 | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 100 | 101 | 78 - 144 | 13C-2,3,7,8-TCDF | 62.3 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 51.5 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 65.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.3 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 76.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.4 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.9 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 71.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 54.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.2 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.4 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 60.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.4 | 39 - 69 | 13C-OCDF | 37.8 | 17 - 157 | |
| OCDF | 100 | 102 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 74.5 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:15

| Sample ID: IPG1413-01 | | | | | EPA Method 1613 | | | |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27888-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1413 | | Sample Size: | 1.04 L | QC Batch No.: | 8205 | Date Extracted: | 21-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 25-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1335 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000167 | | | IS 13C-2,3,7,8-TCDD | 61.8 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000188 | | | 13C-1,2,3,7,8-PeCDD | 58.2 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000494 | | | 13C-1,2,3,4,7,8-HxCDD | 58.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000214 | | | 13C-1,2,3,6,7,8-HxCDD | 55.5 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000213 | | | 13C-1,2,3,4,6,7,8-HpCDD | 56.5 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 0.0000158 | | | J | 13C-OCDD | 38.2 | 17 - 157 | |
| OCDD | 0.000148 | | | | 13C-2,3,7,8-TCDF | 60.0 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000206 | | | 13C-1,2,3,7,8-PeCDF | 57.6 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000150 | | | 13C-2,3,4,7,8-PeCDF | 56.4 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000140 | | | 13C-1,2,3,4,7,8-HxCDF | 63.7 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000115 | | | 13C-1,2,3,6,7,8-HxCDF | 61.2 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000103 | | | 13C-2,3,4,6,7,8-HxCDF | 60.2 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000124 | | | 13C-1,2,3,7,8,9-HxCDF | 50.9 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000210 | | | 13C-1,2,3,4,6,7,8-HpCDF | 53.7 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | | 0.00000209 | | 13C-1,2,3,4,7,8,9-HpCDF | 52.0 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000211 | | | 13C-OCDF | 36.6 | 17 - 157 | |
| OCDF | 0.00000659 | | | J | CRS 37Cl-2,3,7,8-TCDD | 73.4 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000167 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000188 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | 0.00000478 | | | | c. Method detection limit. | | | |
| Total HpCDD | 0.0000321 | | | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000206 | | | | | | |
| Total PeCDF | ND | 0.00000145 | | | | | | |
| Total HxCDF | ND | 0.00000138 | | | | | | |
| Total HpCDF | 0.00000344 | | 0.00000553 | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:15

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPG1413

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Alta Analytical - SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone : (916) 933-1640
Fax: (916) 673-0106

27888 0.4c

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

| Analysis | Expiration | Comments |
|-----------------------------|-------------------------|--|
| Sample ID: IPG1413-01 Water | Sampled: 07/18/06 13:35 | |
| 1613-Dioxin-HR-Alta | 07/25/06 13:35 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta |
| Level 4 + EDD-OUT | 08/15/06 13:35 | Excel EDD email to pm. Include Std logs for Lvl IV |
| Containers Supplied: | | |
| 1 L Amber (IPG1413-01N) | | |
| 1 L Amber (IPG1413-01O) | | |

BOUNTY EDD
MC
7/20/06

SAMPLE INTEGRITY:

All containers intact: Yes No Sample labels/COC agree: Yes No Samples Received On Ice: Yes No
 Custody Seals Present: Yes No Samples Preserved Properly: Yes No Samples Received at (temp): _____

Released By: _____ Date: _____ Time: _____ Received By: *Bethna J. Benedict* Date: *7/20/06* Time: *0925*

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27888

| | | | |
|------------------|---|---|-----------------------------------|
| Samples Arrival: | Date/Time 7/20/06 0925 | Initials: UBSB | Location: WR-2 Shelf/Rack: N/A |
| Logged In: | Date/Time 7/20/06 1136 | Initials: FEB | Location: WR-2 Shelf/Rack: C-5 |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | <input type="checkbox"/> DHL | <input type="checkbox"/> Hand Delivered | <input type="checkbox"/> Other |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | <input type="checkbox"/> None | | |
| Temp °C | 0.4°C | Time: 0925 1025 UBSB | Thermometer ID: DT-20 DT-1 |

| | YES | NO | NA |
|--|----------------|--|---------|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # | 7915 0101 2280 | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | | ✓ |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| Shipping Container | Alta | <input checked="" type="checkbox"/> Client | Retain |
| | | <input checked="" type="checkbox"/> Return | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/31/06 19:00

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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.

LABORATORY ID
IPG1381-01

CLIENT ID
S-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1381-01 (S-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G19073 | 0.0088 | 0.040 | 0.18 | 1 | 07/19/06 | 07/21/06 | |
| Sample ID: IPG1381-01 (S-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G19076 | 0.18 | 2.0 | 0.35 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7 | 6G19073 | 3.8 | 5.0 | 5.9 | 1 | 07/19/06 | 07/31/06 | |
| Beryllium | EPA 200.7 | 6G19073 | 0.62 | 2.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Cadmium | EPA 200.8 | 6G19076 | 0.015 | 1.0 | 0.016 | 1 | 07/19/06 | 07/19/06 | J |
| Chromium | EPA 200.7 | 6G19073 | 0.68 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Copper | EPA 200.8 | 6G19076 | 0.49 | 2.0 | 0.83 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8 | 6G19076 | 0.13 | 1.0 | 0.31 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G19073 | 3.2 | 20 | 29 | 1 | 07/19/06 | 07/21/06 | |
| Mercury | EPA 245.1 | 6G19085 | 0.063 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7 | 6G19073 | 2.0 | 10 | ND | 1 | 07/19/06 | 07/21/06 | |
| Selenium | EPA 200.8 | 6G19076 | 0.36 | 2.0 | 0.53 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8 | 6G19076 | 0.089 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8 | 6G19076 | 0.075 | 1.0 | 0.095 | 1 | 07/19/06 | 07/20/06 | J |
| Zinc | EPA 200.7 | 6G19073 | 3.7 | 20 | ND | 1 | 07/19/06 | 07/21/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1381-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G18141 | 0.015 | 0.040 | 0.028 | 1 | 07/18/06 | 07/21/06 | J |
| Sample ID: IPG1381-01 (S-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G19078 | 0.050 | 2.0 | 0.37 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7-Diss | 6G18141 | 4.4 | 5.0 | 6.2 | 1 | 07/18/06 | 07/21/06 | |
| Beryllium | EPA 200.7-Diss | 6G18141 | 0.90 | 2.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Cadmium | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7-Diss | 6G18141 | 2.0 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Copper | EPA 200.8-Diss | 6G19078 | 0.25 | 2.0 | 0.74 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8-Diss | 6G19078 | 0.040 | 1.0 | 0.070 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7-Diss | 6G18141 | 7.0 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |
| Mercury | EPA 245.1-Diss | 6G19086 | 0.15 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7-Diss | 6G18141 | 2.0 | 10 | ND | 1 | 07/18/06 | 07/21/06 | |
| Selenium | EPA 200.8-Diss | 6G19078 | 0.30 | 2.0 | 0.41 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8-Diss | 6G19078 | 0.15 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G18141 | 15 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1381-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 0.99 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1381-01 (S-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G31067 | 0.43 | 0.50 | 1.4 | 1 | 07/31/06 | 07/31/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G24062 | 2.0 | 2.0 | 180 | 1 | 07/24/06 | 07/24/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 1.1 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G19073 | 1.0 | 1.0 | 200 | 1 | 07/19/06 | 07/21/06 | |
| Nitrate-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/18/06 | |
| Nitrite-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/18/06 | M1 |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18117 | 0.072 | 0.26 | ND | 1 | 07/18/06 | 07/18/06 | |
| Oil & Grease | EPA 413.1 | 6G19064 | 0.89 | 4.7 | ND | 1 | 07/19/06 | 07/19/06 | |
| Sulfate | EPA 300.0 | 6G18117 | 0.36 | 1.0 | 68 | 2 | 07/18/06 | 07/18/06 | M-3 |
| Total Dissolved Solids | SM2540C | 6G19075 | 10 | 10 | 360 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G21108 | 0.50 | 1.0 | 11 | 1 | 07/21/06 | 07/21/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21118 | 10 | 10 | ND | 1 | 07/21/06 | 07/21/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1381-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19091 | 0.040 | 1.0 | 3.3 | 1 | 07/19/06 | 07/19/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1381-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.62 | 1 | 07/19/06 | 07/19/06 | |

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 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1381-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 620 | 1 | 07/19/06 | 07/19/06 | |

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Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: S-EFF (IPG1381-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/18/2006 13:05 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 13:05 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 13:05 | 07/18/2006 17:25 | 07/18/2006 21:00 | 07/18/2006 21:07 |

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 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 3.8 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G19073-BS1) | | | | | | | | | | | |
| Arsenic | 500 | 5.0 | 3.8 | ug/l | 500 | | 100 | 85-115 | | | |
| Beryllium | 507 | 2.0 | 0.62 | ug/l | 500 | | 101 | 85-115 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | | 100 | 85-115 | | | |
| Iron | 0.505 | 0.040 | 0.0088 | mg/l | 0.500 | | 101 | 85-115 | | | |
| Manganese | 499 | 20 | 3.2 | ug/l | 500 | | 100 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 490 | 20 | 3.7 | ug/l | 500 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 518 | 5.0 | 3.8 | ug/l | 500 | 5.9 | 102 | 70-130 | | | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Chromium | 493 | 5.0 | 0.68 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.688 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 102 | 70-130 | | | |
| Manganese | 523 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Zinc | 502 | 20 | 3.7 | ug/l | 500 | ND | 100 | 70-130 | | | |

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 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Arsenic | 516 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Beryllium | 513 | 2.0 | 0.62 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | 0.69 | 100 | 70-130 | | | |
| Iron | 0.970 | 0.040 | 0.0088 | mg/l | 0.500 | 0.46 | 102 | 70-130 | | | |
| Manganese | 560 | 20 | 3.2 | ug/l | 500 | 70 | 98 | 70-130 | | | |
| Nickel | 493 | 10 | 2.0 | ug/l | 500 | 2.2 | 98 | 70-130 | | | |
| Zinc | 509 | 20 | 3.7 | ug/l | 500 | ND | 102 | 70-130 | | | |

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Matrix Spike Dup Analyzed: 07/21/2006 (6G19073-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 513 | 5.0 | 3.8 | ug/l | 500 | 5.9 | 101 | 70-130 | 1 | 20 | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | 0 | 20 | |
| Chromium | 498 | 5.0 | 0.68 | ug/l | 500 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 0.677 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 99 | 70-130 | 2 | 20 | |
| Manganese | 524 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | 0 | 20 | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 1 | 20 | |
| Zinc | 494 | 20 | 3.7 | ug/l | 500 | ND | 99 | 70-130 | 2 | 20 | |

Batch: 6G19076 Extracted: 07/19/06

| Analyte | Result | Reporting Limit | MDL | Units |
|---|--------|-----------------|-------|-------|
| Blank Analyzed: 07/19/2006-07/20/2006 (6G19076-BLK1) | | | | |
| Antimony | ND | 2.0 | 0.18 | ug/l |
| Cadmium | ND | 1.0 | 0.015 | ug/l |
| Copper | ND | 2.0 | 0.49 | ug/l |
| Lead | ND | 1.0 | 0.13 | ug/l |
| Selenium | ND | 2.0 | 0.36 | ug/l |
| Silver | ND | 1.0 | 0.089 | ug/l |
| Thallium | ND | 1.0 | 0.075 | ug/l |

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 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19076-BS1) | | | | | | | | | | | |
| Antimony | 82.8 | 2.0 | 0.18 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 86.5 | 1.0 | 0.015 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Copper | 80.7 | 2.0 | 0.49 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Lead | 82.5 | 1.0 | 0.13 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 87.8 | 2.0 | 0.36 | ug/l | 80.0 | | 110 | 85-115 | | | |
| Silver | 83.9 | 1.0 | 0.089 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 86.6 | 1.0 | 0.075 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 103 | 70-130 | | | |
| Cadmium | 84.7 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 78.7 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 97 | 70-130 | | | |
| Lead | 80.7 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Selenium | 85.7 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 106 | 70-130 | | | |
| Silver | 82.2 | 1.0 | 0.089 | ug/l | 80.0 | ND | 103 | 70-130 | | | |
| Thallium | 85.6 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 107 | 70-130 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS2) Source: IPG1385-01 | | | | | | | | | | | |
| Antimony | 84.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.18 | 105 | 70-130 | | | |
| Cadmium | 84.8 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 79.3 | 2.0 | 0.49 | ug/l | 80.0 | 1.1 | 98 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.13 | ug/l | 80.0 | 0.53 | 101 | 70-130 | | | |
| Selenium | 85.8 | 2.0 | 0.36 | ug/l | 80.0 | 0.38 | 107 | 70-130 | | | |
| Silver | 81.5 | 1.0 | 0.089 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 85.4 | 1.0 | 0.075 | ug/l | 80.0 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19076-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.8 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 104 | 70-130 | 1 | 20 | |
| Cadmium | 84.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 105 | 70-130 | 1 | 20 | |
| Copper | 79.2 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 98 | 70-130 | 1 | 20 | |
| Lead | 80.2 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | 1 | 20 | |
| Selenium | 86.2 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 107 | 70-130 | 1 | 20 | |
| Silver | 79.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 84.7 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 106 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19085 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19085-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19085-BS1) | | | | | | | | | | | |
| Mercury | 8.53 | 0.20 | 0.063 | ug/l | 8.00 | | 107 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19085-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.75 | 0.20 | 0.063 | ug/l | 8.00 | ND | 109 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19085-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.62 | 0.20 | 0.063 | ug/l | 8.00 | ND | 108 | 70-130 | 1 | 20 | |

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METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18141 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G18141-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G18141-BS1) | | | | | | | | | | | |
| Arsenic | 1030 | 5.0 | 4.4 | ug/l | 1000 | | 103 | 85-115 | | | |
| Beryllium | 1030 | 2.0 | 0.90 | ug/l | 1000 | | 103 | 85-115 | | | |
| Chromium | 1030 | 5.0 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G18141-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | | | |
| Beryllium | 1050 | 2.0 | 0.90 | ug/l | 1000 | ND | 105 | 70-130 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G18141-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | 0 | 20 | |
| Beryllium | 1060 | 2.0 | 0.90 | ug/l | 1000 | ND | 106 | 70-130 | 1 | 20 | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | 0 | 20 | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | 0 | 20 | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | 0 | 20 | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | 0 | 20 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1381

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19078 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19078-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19078-BS1) | | | | | | | | | | | |
| Antimony | 81.5 | 2.0 | 0.050 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Cadmium | 85.5 | 1.0 | 0.025 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Copper | 79.9 | 2.0 | 0.25 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Lead | 81.8 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 85.9 | 2.0 | 0.30 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Silver | 89.0 | 1.0 | 0.025 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Thallium | 86.7 | 1.0 | 0.15 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19078-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 104 | 70-130 | | | |
| Cadmium | 84.9 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | | | |
| Copper | 83.6 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 104 | 70-130 | | | |
| Lead | 81.2 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 101 | 70-130 | | | |
| Selenium | 86.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 107 | 70-130 | | | |
| Silver | 86.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Thallium | 86.1 | 1.0 | 0.15 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19078-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 82.4 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 103 | 70-130 | 2 | 20 | |
| Cadmium | 83.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 104 | 70-130 | 2 | 20 | |
| Copper | 77.3 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 96 | 70-130 | 8 | 20 | |
| Lead | 79.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 99 | 70-130 | 2 | 20 | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 103 | 70-130 | 4 | 20 | |
| Silver | 85.1 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |
| Thallium | 84.6 | 1.0 | 0.15 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19086 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19086-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19086-BS1) | | | | | | | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19086-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.44 | 0.20 | 0.15 | ug/l | 8.00 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19086-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.59 | 0.20 | 0.15 | ug/l | 8.00 | ND | 107 | 70-130 | 2 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18117 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18117-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18117-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.20 | 0.15 | 0.080 | mg/l | 1.13 | ND | 106 | 90-110 | | | |
| Nitrite-N | 1.58 | 0.15 | 0.080 | mg/l | 1.52 | ND | 104 | 90-110 | | | |
| Sulfate | 9.70 | 0.50 | 0.18 | mg/l | 10.0 | ND | 97 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/18/2006 (6G18117-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Nitrate-N | 1.19 | 0.15 | 0.080 | mg/l | 1.13 | ND | 105 | 80-120 | | | |
| Nitrite-N | 1.82 | 0.15 | 0.080 | mg/l | 1.52 | ND | 120 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18117-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.15 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | 4 | 20 | |
| Nitrite-N | 1.87 | 0.15 | 0.080 | mg/l | 1.52 | ND | 123 | 80-120 | 3 | 20 | MI |
| Batch: 6G19064 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19064-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19064-BS1) M-NR1 | | | | | | | | | | | |
| Oil & Grease | 17.7 | 5.0 | 0.94 | mg/l | 20.0 | | 88 | 65-120 | | | |
| LCS Dup Analyzed: 07/19/2006 (6G19064-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.1 | 5.0 | 0.94 | mg/l | 20.0 | | 90 | 65-120 | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-----|----------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| <u>Batch: 6G19071 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) | | | | | | Source: IPG1381-01 | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | 620 | | | 1 | 5 | |
| <u>Batch: 6G19073 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |
| <u>Batch: 6G19075 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19075-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19075-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19075-DUP1) | | | | | | Source: IPG1345-10 | | | | | |
| Total Dissolved Solids | 207 | 10 | 10 | mg/l | | 210 | | | 1 | 10 | |
| <u>Batch: 6G19089 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | Source: IPG1353-01 | | | | | |
| pH | 7.24 | NA | N/A | pH Units | | 7.22 | | | 0 | 5 | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | Source: IPG1387-01 | | | | | |
| pH | 7.93 | NA | N/A | pH Units | | 7.91 | | | 0 | 5 | |

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 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G19091 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19091-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19091-DUP1) | | | | | | | | | | | |
| Turbidity | 3.36 | 1.0 | 0.040 | NTU | | 3.3 | | | 2 | 20 | |
| <u>Batch: 6G19117 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | 1.0 | | | 2 | 20 | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| <u>Batch: 6G20108 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1381

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21108 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21108-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21108-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 11.0 | 1.0 | 0.25 | mg/l | 10.0 | | 110 | 90-110 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21108-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.69 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21108-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.67 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | 0 | 20 | |
| Batch: 6G21118 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21118-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21118-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 970 | 10 | 10 | mg/l | 1000 | | 97 | 85-115 | | | |
| Duplicate Analyzed: 07/21/2006 (6G21118-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1363-04 | | | | | |
| Total Suspended Solids | 96.0 | 10 | 10 | mg/l | | 100 | | | 4 | 10 | |
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/24/2006 (6G24062-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1738-01 | | | | | |
| Alkalinity as CaCO3 | 180 | 2.0 | 2.0 | mg/l | | 180 | | | 0 | 20 | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Reference Analyzed: 07/24/2006 (6G24062-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO ₃ | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |
| Batch: 6G31067 Extracted: 07/31/06 | | | | | | | | | | | |
| Blank Analyzed: 07/31/2006 (6G31067-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/31/2006 (6G31067-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/31/2006 (6G31067-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/31/2006 (6G31067-MS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/31/2006 (6G31067-MSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |

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DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1381-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

IPGT1381

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|--|------------|---|--------------|---------------------------|--|---|----------------------|--------------------------|-------------------------|--|------------------------------|--------------------------------|--|--------------------------|------|---------------------------|-----------------|----------------------|--|---------------------------|--|-----------|--|-----|--|
| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test | | Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | Sampler: R. Barnes | | Field readings: Temp = _____ pH = _____ Comments | | | | | | | | | | | | | | | | | | | |
| ANALYSIS REQUIRED | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N) | Turbidity, TSS, Conductivity | Ammonia-N (NH ₃ -N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn | TCDD (and all congeners) | Temp | mc/l | Field readings: | | | | | | | | |
| S-EFF | W | Poly-1L | 1 | 7/18/06 1345 | HNO3 | 1 | X | X | | | | | | | | | | | | | | | | | | | |
| S-EFF | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | | | | | | | | | | | | |
| S-EFF | W | VOCs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | | | | | | | | | | | |
| S-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | X | | | | | | | | | | | | | | | | | |
| S-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | | X | | | | | | | | | | | | | | | | |
| S-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | | X | | | | | | | | | | | | | | | |
| S-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | X | | | | | | | | | | | | | | |
| S-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | | X | | | | | | | | | | | | | |
| S-EFF | W | Poly-1L | 1 | | None | 9 | | | | | | | | | | | | | | | | | | | | | |
| S-EFF | W | 1L Amber | 2 | 7/18/06 1345 | None | 10A, 10B | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By | | Date/Time: | | Received By | | Date/Time: | | Turn around Time: (check) | | 5 Days | | 10 Days | | Normal | | X | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity: (Check) | | On Ice: X | | 9°C | |
| R. Barnes | | 7/18/06 1420 | | C. De... 7-18-06 | | 1420 | | 24 Hours | | 48 Hours | | 72 Hours | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity: (Check) | | On Ice: X | | 9°C | | | | | |
| D. L. H. | | 7-18-06 1725 | | B. Barnes 7-18-06 | | 1725 | | 24 Hours | | 48 Hours | | 72 Hours | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity: (Check) | | On Ice: X | | 9°C | | | | | |
| Relinquished By | | Date/Time: | | Received By | | Date/Time: | | Turn around Time: (check) | | 5 Days | | 10 Days | | Normal | | X | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity: (Check) | | On Ice: X | | 9°C | |
| D. L. H. | | 7-18-06 1725 | | B. Barnes 7-18-06 | | 1725 | | 24 Hours | | 48 Hours | | 72 Hours | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity: (Check) | | On Ice: X | | 9°C | | | | | |

DNV1945

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric,
Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed
Thanks.
Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks,

Eric Walker
MWH Americas, Inc.
300 North Lake Avenue, Suite 1200
Pasadena, California 91101
(626) 786-0093 Mobile
(626) 568-6852 Direct Line
(626) 568-6515 FAX

Note: The information contained in this e-mail is intended only for the individual or entity to whom it is addressed. Its contents (including any attachments) may contain confidential and/or privileged information. If you are not an intended recipient you must not use, disclose, disseminate, copy or print its contents. If you receive this e-mail in error, please notify the sender by reply e-mail and delete and destroy the message.

"Michele Chamberlin"
<mchamberlin@testamericainc.com>

07/20/2006 03:14 PM

To "Eric Walker" <Eric.Walker@us.mwhglobal.com>
cc "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>
Subject Sample Temp for 7/18/06 R2A Pond Pilot Test

7/20/2006

Hi Eric

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks,
Michele



July 28, 2006

Alta Project I.D.: 27895

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1381". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27895-001

IPG1381-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8206 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 22-Jul-06 | | | | | | |
| Analyte | Conc. (Ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000125 | | | IS 13C-2,3,7,8-TCDD | 84.9 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000107 | | | 13C-1,2,3,7,8-PeCDD | 88.0 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000110 | | | 13C-1,2,3,4,7,8-HxCDD | 73.1 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000110 | | | 13C-1,2,3,6,7,8-HxCDD | 76.4 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000106 | | | 13C-1,2,3,4,6,7,8-HpCDD | 69.9 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000130 | | | 13C-OCDD | 57.7 | 17 - 157 | | |
| OCDD | ND | 0.00000259 | | | 13C-2,3,7,8-TCDF | 84.0 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000136 | | | 13C-1,2,3,7,8-PeCDF | 92.8 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000187 | | | 13C-2,3,4,7,8-PeCDF | 97.3 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000166 | | | 13C-1,2,3,4,7,8-HxCDF | 79.1 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000457 | | | 13C-1,2,3,6,7,8-HxCDF | 76.7 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000457 | | | 13C-2,3,4,6,7,8-HxCDF | 76.5 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000483 | | | 13C-1,2,3,7,8,9-HxCDF | 73.7 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.000000657 | | | 13C-1,2,3,4,6,7,8-HpCDF | 71.1 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.000000949 | | | 13C-1,2,3,4,7,8,9-HpCDF | 73.5 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.000000940 | | | 13C-OCDF | 59.4 | 17 - 157 | | |
| OCDF | ND | 0.00000342 | | | CRS 37Cl-2,3,7,8-TCDD | 94.8 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000125 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000107 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000108 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000130 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000136 | | | | | | | |
| Total PeCDF | ND | 0.00000176 | | | | | | | |
| Total HxCDF | ND | 0.000000506 | | | | | | | |
| Total HpCDF | ND | 0.000000945 | | | | | | | |

Analyst: DMS

Approved By: William J. Luksemburg 28-Jul-2006 09:07

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8206 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 22-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 9.68 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 84.6 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 47.9 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 93.1 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 48.5 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 73.4 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 48.4 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 80.5 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 48.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 71.9 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 50.1 | 35 - 70 | 13C-OCDD | 62.6 | 17 - 157 | |
| OCDD | 100 | 96.2 | 78 - 144 | 13C-2,3,7,8-TCDF | 78.1 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 9.72 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 87.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 48.0 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 90.6 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 48.1 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 78.4 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 49.0 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 80.9 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 47.2 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 78.1 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 47.7 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 74.5 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 48.4 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 76.7 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 45.5 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 77.9 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 46.6 | 39 - 69 | 13C-OCDF | 66.7 | 17 - 157 | |
| OCDF | 100 | 91.6 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 91.8 | 35 - 197 | |

Analyst: DMS

Approved By: William J. Luksemburg 28-Jul-2006 09:07

| Sample ID: IPG1381-01 | | | | | EPA Method 1613 | | | |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27895-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1381 | | Sample Size: | 1.01 L | QC Batch No.: | 8206 | Date Extracted: | 22-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1305 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000161 | | | IS 13C-2,3,7,8-TCDD | 83.3 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000164 | | | 13C-1,2,3,7,8-PeCDD | 91.2 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000204 | | | 13C-1,2,3,4,7,8-HxCDD | 74.7 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000214 | | | 13C-1,2,3,6,7,8-HxCDD | 78.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000202 | | | 13C-1,2,3,4,6,7,8-HpCDD | 74.7 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | | 0.00000852 | | 13C-OCDD | 61.5 | 17 - 157 | |
| OCDD | 0.0000755 | | | | 13C-2,3,7,8-TCDF | 84.1 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000140 | | | 13C-1,2,3,7,8-PeCDF | 94.7 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000179 | | | 13C-2,3,4,7,8-PeCDF | 97.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000167 | | | 13C-1,2,3,4,7,8-HxCDF | 78.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000117 | | | 13C-1,2,3,6,7,8-HxCDF | 77.3 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000109 | | | 13C-2,3,4,6,7,8-HxCDF | 74.6 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000132 | | | 13C-1,2,3,7,8,9-HxCDF | 77.1 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000165 | | | 13C-1,2,3,4,6,7,8-HpCDF | 74.9 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | | 0.00000168 | | 13C-1,2,3,4,7,8,9-HpCDF | 81.0 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.000000814 | | | 13C-OCDF | 64.9 | 17 - 157 | |
| OCDF | 0.00000833 | | | J | CRS 37Cl-2,3,7,8-TCDD | 94.6 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000161 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000164 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | 0.00000206 | | | c. Method detection limit. | | | |
| Total HpCDD | ND | | 0.0000164 | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000140 | | | | | | |
| Total PeCDF | ND | 0.00000173 | | | | | | |
| Total HxCDF | ND | 0.00000129 | | | | | | |
| Total HpCDF | ND | | 0.00000432 | | | | | |

Analyst: RAS

Approved By: William J. Luksemburg 28-Jul-2006 09:07

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

27895
0°C

SUBCONTRACT ORDER - PROJECT # IPG1381

| | |
|--|--|
| <p>SENDING LABORATORY:</p> <p>TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Chamberlin</p> | <p>RECEIVING LABORATORY:</p> <p>Alta Analytical - SUB 1104 Windfield Way El Dorado Hills, CA 95762 Phone : (916) 933-1640 Fax: (916) 673-0106</p> |
|--|--|

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

| Analysis | Expiration | Comments |
|------------------------------|---------------------------|--|
| Sample ID: IPG1381-01 Water | Sampled: 07/18/06 13:05 | |
| 1613-Dioxin-HR-Alta | 07/25/06 13:05 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta |
| Level 4 = EDD-OUT | 08/15/06 13:05 | Excl EDD email to pm, include Std logs for Lvl IV |

Boling EDD
NC 7/20/06

Containers Supplied:
1 L Amber (IPG1381-01N)
1 L Amber (IPG1381-01O)

SAMPLE INTEGRITY:

| | | | | | |
|------------------------|--|-----------------------------|--|-----------------------------|--|
| All containers intact: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Sample labels/COC agree: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received On Ice: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Custody Seals Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Preserved Properly: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received at (temp): | _____ |

~~Released By _____ Date _____ Time _____~~ *Bethna A. Bomedes* 7/20/06 0925

Received By _____ Date _____ Time _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27895

| | | | |
|------------------|---|-----------------------------------|---|
| Samples Arrival: | Date/Time 7/20/06 0925 | Initials: BBB | Location: WR-2 |
| | | | Shelf/Rack: _____ |
| Logged In: | Date/Time 7/20/06 1310 | Initials: BBB | Location: WR-2 |
| | | | Shelf/Rack: C-4 |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | | <input type="checkbox"/> DHL | <input type="checkbox"/> Hand Delivered |
| | <input type="checkbox"/> Other | | |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | | <input type="checkbox"/> None | |
| Temp °C | 0°C | Time: 0955 | Thermometer ID: DT-20 |

DT-14328

| | YES | NO | NA |
|--|------|--|---------|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # 7927 99970554 | | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| Shipping Container | Alta | <input checked="" type="checkbox"/> Client | Retain |
| | | <input checked="" type="checkbox"/> Return | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/30/06 17:36

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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: Enclosed are complete final results.

LABORATORY ID
IPG1385-01

CLIENT ID
P-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1385-01 (P-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G19073 | 0.0088 | 0.040 | 0.46 | 1 | 07/19/06 | 07/21/06 | |
| Sample ID: IPG1385-01 (P-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G19076 | 0.18 | 2.0 | 0.18 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7 | 6G19073 | 3.8 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Beryllium | EPA 200.7 | 6G19073 | 0.62 | 2.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Cadmium | EPA 200.8 | 6G19076 | 0.015 | 1.0 | 0.016 | 1 | 07/19/06 | 07/19/06 | J |
| Chromium | EPA 200.7 | 6G19073 | 0.68 | 5.0 | 0.69 | 1 | 07/19/06 | 07/21/06 | J |
| Copper | EPA 200.8 | 6G19076 | 0.49 | 2.0 | 1.1 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8 | 6G19076 | 0.13 | 1.0 | 0.53 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G19073 | 3.2 | 20 | 70 | 1 | 07/19/06 | 07/21/06 | |
| Mercury | EPA 245.1 | 6G19085 | 0.063 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7 | 6G19073 | 2.0 | 10 | 2.2 | 1 | 07/19/06 | 07/21/06 | J |
| Selenium | EPA 200.8 | 6G19076 | 0.36 | 2.0 | 0.38 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8 | 6G19076 | 0.089 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8 | 6G19076 | 0.075 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7 | 6G19073 | 3.7 | 20 | ND | 1 | 07/19/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1385-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G18141 | 0.015 | 0.040 | 0.027 | 1 | 07/18/06 | 07/21/06 | J |
| Sample ID: IPG1385-01 (P-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G19078 | 0.050 | 2.0 | 0.38 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7-Diss | 6G18141 | 4.4 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Beryllium | EPA 200.7-Diss | 6G18141 | 0.90 | 2.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Cadmium | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7-Diss | 6G18141 | 2.0 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Copper | EPA 200.8-Diss | 6G19078 | 0.25 | 2.0 | 0.62 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8-Diss | 6G19078 | 0.040 | 1.0 | 0.060 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7-Diss | 6G18141 | 7.0 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |
| Mercury | EPA 245.1-Diss | 6G19086 | 0.15 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7-Diss | 6G18141 | 2.0 | 10 | 2.1 | 1 | 07/18/06 | 07/21/06 | J |
| Selenium | EPA 200.8-Diss | 6G19078 | 0.30 | 2.0 | 0.55 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8-Diss | 6G19078 | 0.15 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G18141 | 15 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1385-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 1.0 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1385-01 (P-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G22040 | 0.43 | 0.50 | 1.1 | 1 | 07/22/06 | 07/22/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G24062 | 2.0 | 2.0 | 180 | 1 | 07/24/06 | 07/24/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 1.1 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G19073 | 1.0 | 1.0 | 200 | 1 | 07/19/06 | 07/21/06 | |
| Nitrate-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | 0.096 | 1 | 07/18/06 | 07/19/06 | J |
| Nitrite-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18116 | 0.072 | 0.26 | 0.096 | 1 | 07/18/06 | 07/19/06 | J |
| Oil & Grease | EPA 413.1 | 6G19064 | 0.89 | 4.7 | ND | 1 | 07/19/06 | 07/19/06 | |
| Sulfate | EPA 300.0 | 6G18116 | 1.8 | 5.0 | 71 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19075 | 10 | 10 | 360 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G21108 | 0.50 | 1.0 | 11 | 1 | 07/21/06 | 07/21/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21118 | 10 | 10 | ND | 1 | 07/21/06 | 07/21/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1385-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19091 | 0.040 | 1.0 | 7.4 | 1 | 07/19/06 | 07/19/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1385-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.63 | 1 | 07/19/06 | 07/19/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1385-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 610 | 1 | 07/19/06 | 07/19/06 | |

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Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: P-EFF (IPG1385-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/18/2006 13:15 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 13:15 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 13:15 | 07/18/2006 17:25 | 07/18/2006 21:30 | 07/19/2006 05:19 |

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 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---------|--------|-----------------|-----|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
|---------|--------|-----------------|-----|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|

Batch: 6G19073 Extracted: 07/19/06

Blank Analyzed: 07/21/2006 (6G19073-BLK1)

| | | | | | | | | | | | |
|-----------|----|-------|--------|------|--|--|--|--|--|--|--|
| Arsenic | ND | 5.0 | 3.8 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |

LCS Analyzed: 07/21/2006 (6G19073-BS1)

| | | | | | | | | | | | |
|-----------|-------|-------|--------|------|-------|--|-----|--------|--|--|--|
| Arsenic | 500 | 5.0 | 3.8 | ug/l | 500 | | 100 | 85-115 | | | |
| Beryllium | 507 | 2.0 | 0.62 | ug/l | 500 | | 101 | 85-115 | | | |
| Calcium | 2.45 | 0.10 | N/A | mg/l | 2.50 | | 98 | 85-115 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | | 100 | 85-115 | | | |
| Iron | 0.505 | 0.040 | 0.0088 | mg/l | 0.500 | | 101 | 85-115 | | | |
| Magnesium | 2.50 | 0.020 | N/A | mg/l | 2.50 | | 100 | 85-115 | | | |
| Manganese | 499 | 20 | 3.2 | ug/l | 500 | | 100 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 490 | 20 | 3.7 | ug/l | 500 | | 98 | 85-115 | | | |

Matrix Spike Analyzed: 07/21/2006 (6G19073-MS1)

Source: IPG1381-01

| | | | | | | | | | | | |
|-----------|-------|-------|--------|------|-------|------|-----|--------|--|--|------|
| Arsenic | 518 | 5.0 | 3.8 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Calcium | 57.5 | 0.10 | N/A | mg/l | 2.50 | 54 | 140 | 70-130 | | | M-HA |
| Chromium | 493 | 5.0 | 0.68 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.688 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 523 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Zinc | 502 | 20 | 3.7 | ug/l | 500 | ND | 100 | 70-130 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Arsenic | 516 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Beryllium | 513 | 2.0 | 0.62 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Calcium | 57.9 | 0.10 | N/A | mg/l | 2.50 | 55 | 116 | 70-130 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | 0.69 | 100 | 70-130 | | | |
| Iron | 0.970 | 0.040 | 0.0088 | mg/l | 0.500 | 0.46 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 560 | 20 | 3.2 | ug/l | 500 | 70 | 98 | 70-130 | | | |
| Nickel | 493 | 10 | 2.0 | ug/l | 500 | 2.2 | 98 | 70-130 | | | |
| Zinc | 509 | 20 | 3.7 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G19073-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 513 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | 1 | 20 | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | 0 | 20 | |
| Calcium | 57.8 | 0.10 | N/A | mg/l | 2.50 | 54 | 152 | 70-130 | 1 | 20 | M-HA |
| Chromium | 498 | 5.0 | 0.68 | ug/l | 500 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 0.677 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 99 | 70-130 | 2 | 20 | |
| Magnesium | 17.5 | 0.020 | N/A | mg/l | 2.50 | 15 | 100 | 70-130 | 1 | 20 | |
| Manganese | 524 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | 0 | 20 | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 1 | 20 | |
| Zinc | 494 | 20 | 3.7 | ug/l | 500 | ND | 99 | 70-130 | 2 | 20 | |
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006-07/20/2006 (6G19076-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.18 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.015 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.49 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.13 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.36 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.089 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.075 | ug/l | | | | | | | |

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 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19076-BS1) | | | | | | | | | | | |
| Antimony | 82.8 | 2.0 | 0.18 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 86.5 | 1.0 | 0.015 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Copper | 80.7 | 2.0 | 0.49 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Lead | 82.5 | 1.0 | 0.13 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 87.8 | 2.0 | 0.36 | ug/l | 80.0 | | 110 | 85-115 | | | |
| Silver | 83.9 | 1.0 | 0.089 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 86.6 | 1.0 | 0.075 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS1) | | | | | | Source: IPG1381-01 | | | | | |
| Antimony | 83.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 103 | 70-130 | | | |
| Cadmium | 84.7 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 78.7 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 97 | 70-130 | | | |
| Lead | 80.7 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Selenium | 85.7 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 106 | 70-130 | | | |
| Silver | 82.2 | 1.0 | 0.089 | ug/l | 80.0 | ND | 103 | 70-130 | | | |
| Thallium | 85.6 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 107 | 70-130 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Antimony | 84.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.18 | 105 | 70-130 | | | |
| Cadmium | 84.8 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 79.3 | 2.0 | 0.49 | ug/l | 80.0 | 1.1 | 98 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.13 | ug/l | 80.0 | 0.53 | 101 | 70-130 | | | |
| Selenium | 85.8 | 2.0 | 0.36 | ug/l | 80.0 | 0.38 | 107 | 70-130 | | | |
| Silver | 81.5 | 1.0 | 0.089 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 85.4 | 1.0 | 0.075 | ug/l | 80.0 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19076-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Antimony | 83.8 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 104 | 70-130 | 1 | 20 | |
| Cadmium | 84.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 105 | 70-130 | 1 | 20 | |
| Copper | 79.2 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 98 | 70-130 | 1 | 20 | |
| Lead | 80.2 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | 1 | 20 | |
| Selenium | 86.2 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 107 | 70-130 | 1 | 20 | |
| Silver | 79.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 84.7 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 106 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19085 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19085-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19085-BS1) | | | | | | | | | | | |
| Mercury | 8.53 | 0.20 | 0.063 | ug/l | 8.00 | | 107 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19085-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.75 | 0.20 | 0.063 | ug/l | 8.00 | ND | 109 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19085-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.62 | 0.20 | 0.063 | ug/l | 8.00 | ND | 108 | 70-130 | 1 | 20 | |

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 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18141 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G18141-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G18141-BS1) | | | | | | | | | | | |
| Arsenic | 1030 | 5.0 | 4.4 | ug/l | 1000 | | 103 | 85-115 | | | |
| Beryllium | 1030 | 2.0 | 0.90 | ug/l | 1000 | | 103 | 85-115 | | | |
| Chromium | 1030 | 5.0 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G18141-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | | | |
| Beryllium | 1050 | 2.0 | 0.90 | ug/l | 1000 | ND | 105 | 70-130 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G18141-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | 0 | 20 | |
| Beryllium | 1060 | 2.0 | 0.90 | ug/l | 1000 | ND | 106 | 70-130 | 1 | 20 | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | 0 | 20 | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | 0 | 20 | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | 0 | 20 | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | 0 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19078 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19078-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19078-BS1) | | | | | | | | | | | |
| Antimony | 81.5 | 2.0 | 0.050 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Cadmium | 85.5 | 1.0 | 0.025 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Copper | 79.9 | 2.0 | 0.25 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Lead | 81.8 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 85.9 | 2.0 | 0.30 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Silver | 89.0 | 1.0 | 0.025 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Thallium | 86.7 | 1.0 | 0.15 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19078-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 104 | 70-130 | | | |
| Cadmium | 84.9 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | | | |
| Copper | 83.6 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 104 | 70-130 | | | |
| Lead | 81.2 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 101 | 70-130 | | | |
| Selenium | 86.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 107 | 70-130 | | | |
| Silver | 86.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Thallium | 86.1 | 1.0 | 0.15 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19078-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 82.4 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 103 | 70-130 | 2 | 20 | |
| Cadmium | 83.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 104 | 70-130 | 2 | 20 | |
| Copper | 77.3 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 96 | 70-130 | 8 | 20 | |
| Lead | 79.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 99 | 70-130 | 2 | 20 | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 103 | 70-130 | 4 | 20 | |
| Silver | 85.1 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |
| Thallium | 84.6 | 1.0 | 0.15 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19086 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19086-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19086-BS1) | | | | | | | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19086-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.44 | 0.20 | 0.15 | ug/l | 8.00 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19086-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.59 | 0.20 | 0.15 | ug/l | 8.00 | ND | 107 | 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 Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G18116 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18116-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18116-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.12 | 0.15 | 0.080 | mg/l | 1.13 | | 99 | 90-110 | | | |
| Nitrite-N | 1.45 | 0.15 | 0.080 | mg/l | 1.52 | | 95 | 90-110 | | | |
| Sulfate | 9.53 | 0.50 | 0.18 | mg/l | 10.0 | | 95 | 90-110 | | | |
| Matrix Spike Analyzed: 07/18/2006 (6G18116-MS1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.3 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | | | |
| Nitrite-N | 19.4 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | | | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18116-MSD1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.4 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | 1 | 20 | |
| Nitrite-N | 19.5 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | 1 | 20 | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | 0 | 20 | |
| Batch: 6G19064 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19064-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19064-BS1) M-NR1 | | | | | | | | | | | |
| Oil & Grease | 17.7 | 5.0 | 0.94 | mg/l | 20.0 | | 88 | 65-120 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19064 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Dup Analyzed: 07/19/2006 (6G19064-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.1 | 5.0 | 0.94 | mg/l | 20.0 | | 90 | 65-120 | 2 | 20 | |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) | | | | | | | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | Source: IPG1381-01 620 | | | 1 | 5 | |
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |
| Batch: 6G19075 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19075-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19075-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19075-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 207 | 10 | 10 | mg/l | | Source: IPG1345-10 210 | | | 1 | 10 | |
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | | | | | | |
| pH | 7.24 | NA | N/A | pH Units | | Source: IPG1353-01 7.22 | | | 0 | 5 | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | | | | | | |
| pH | 7.93 | NA | N/A | pH Units | | 7.91 | | | 0 | 5 | |
| Batch: 6G19091 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19091-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19091-DUP1) | | | | | | | | | | | |
| Turbidity | 3.36 | 1.0 | 0.040 | NTU | | 3.3 | | | 2 | 20 | |
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | 1.0 | | | 2 | 20 | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |

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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: 6G20108 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | Source: IPG1381-01 | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| <u>Batch: 6G21108 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21108-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21108-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 11.0 | 1.0 | 0.25 | mg/l | 10.0 | | 110 | 90-110 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21108-MS1) | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.69 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21108-MSD1) | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.67 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | 0 | 20 | |
| <u>Batch: 6G21118 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21118-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21118-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 970 | 10 | 10 | mg/l | 1000 | | 97 | 85-115 | | | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21118 Extracted: 07/21/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/21/2006 (6G21118-DUP1) | | | | | | Source: IPG1363-04 | | | | | |
| Total Suspended Solids | 96.0 | 10 | 10 | mg/l | | 100 | | | 4 | 10 | |
| Batch: 6G22040 Extracted: 07/22/06 | | | | | | | | | | | |
| Blank Analyzed: 07/22/2006 (6G22040-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/22/2006 (6G22040-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| Matrix Spike Analyzed: 07/22/2006 (6G22040-MS1) | | | | | | Source: IPG1099-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.84 | 98 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/22/2006 (6G22040-MSD1) | | | | | | Source: IPG1099-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.84 | 101 | 85-120 | 3 | 15 | |
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/24/2006 (6G24062-DUP1) | | | | | | Source: IPG1738-01 | | | | | |
| Alkalinity as CaCO3 | 180 | 2.0 | 2.0 | mg/l | | 180 | | | 0 | 20 | |
| Reference Analyzed: 07/24/2006 (6G24062-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1385

Sampled: 07/18/06
Received: 07/18/06

DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1385

Sampled: 07/18/06
 Received: 07/18/06

Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1385-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

IR 41385

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

| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | |
|---|---------------|--|------------|--|--------------|----------|
| Project Manager: Bronwyn Kelly | | Sampler: <i>Burns</i> | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # |
| P-EFF | W | Poly-1L | 1 | 7/18/06 1315 | HNO3 | 1 |
| P-EFF | W | Poly-1L | 1 | | None | 2 |
| P-EFF | W | VOAs | 2 | | HCl | 3A, 3B |
| P-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B |
| P-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 |
| P-EFF | W | Poly-500 ml | 1 | | None | 6 |
| P-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B |
| P-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 |
| P-EFF | W | Poly-1L | 1 | 7/18/06 1315 | None | 9 |
| P-EFF | W | 1L Amber | 2 | | None | 10A, 10B |

| | | | |
|------------------------------------|----------------------------|-------------------------------|----------------------------|
| Relinquished By <i>R. Burns</i> | Date/Time: 7/18/06 1420 | Received By <i>Carl</i> | Date/Time: 7-18-06 1420 |
| Relinquished By <i>Carl</i> | Date/Time: 7-18-06 1725 | Received By <i>Shirley</i> | Date/Time: 7-18-06 1725 |
| Relinquished By | Date/Time: | Received By | Date/Time: |

| | | |
|---|--|---|
| ANALYSIS REQUIRED Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method), Total Organic Carbon, Oil & Grease (EPA 413.1), Total Kjeldahl Nitrogen, SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N), Turbidity, TSS, Conductivity, Ammonia-N (NH3-N), Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn | | Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/> |
| Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method), Total Organic Carbon, Oil & Grease (EPA 413.1), Total Kjeldahl Nitrogen, SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N), Turbidity, TSS, Conductivity, Ammonia-N (NH3-N), Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn | | Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) On Ice: <input checked="" type="checkbox"/> 4°C |

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric,
Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
Thanks,
Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks.

Eric Walker
MWH Americas, Inc.
300 North Lake Avenue, Suite 1200
Pasadena, California 91101
(626) 786-0093 Mobile
(626) 568-6852 Direct Line
(626) 568-6515 FAX

Note: The information contained in this e-mail is intended only for the individual or entity to whom it is addressed. Its contents (including any attachments) may contain confidential and/or privileged information. If you are not an intended recipient you must not use, disclose, disseminate, copy or print its contents. If you receive this e-mail in error, please notify the sender by reply e-mail and delete and destroy the message.

"Michele Chamberlin"
<mchamberlin@testamericainc.com>

07/20/2006 03:14 PM

To "Eric Walker" <Eric.Walker@us.mwhglobal.com>
cc "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>
Subject: Sample Tempo for 7/18/06 R2A Pond Pilot Test

Hi Eric,

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks,
Michele



July 27, 2006

Alta Project I.D.: 27893

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1385". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27893-001

IPG1385-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000132 | | | IS 13C-2,3,7,8-TCDD | 73.0 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000145 | | | 13C-1,2,3,7,8-PeCDD | 70.0 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000396 | | | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,6,7,8-HxCDD | 66.5 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,4,6,7,8-HpCDD | 66.3 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000206 | | | 13C-OCDD | 49.4 | 17 - 157 | | |
| OCDD | ND | | 0.00000597 | | 13C-2,3,7,8-TCDF | 69.1 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDF | 68.8 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000124 | | | 13C-2,3,4,7,8-PeCDF | 69.7 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000115 | | | 13C-1,2,3,4,7,8-HxCDF | 73.6 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000781 | | | 13C-1,2,3,6,7,8-HxCDF | 74.2 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000644 | | | 13C-2,3,4,6,7,8-HxCDF | 71.0 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000784 | | | 13C-1,2,3,7,8,9-HxCDF | 58.3 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000137 | | | 13C-1,2,3,4,6,7,8-HpCDF | 64.2 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000129 | | | 13C-OCDF | 45.8 | 17 - 157 | | |
| OCDF | ND | 0.00000345 | | | CRS 37Cl-2,3,7,8-TCDD | 78.8 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000132 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000145 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000238 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000206 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000171 | | | | | | | |
| Total PeCDF | ND | 0.00000120 | | | | | | | |
| Total HxCDF | ND | 0.000000895 | | | | | | | |
| Total HpCDF | ND | 0.00000123 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 14:49

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.1 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 66.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 49.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 69.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 51.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 49.7 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 64.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 51.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 66.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 52.2 | 35 - 70 | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 100 | 101 | 78 - 144 | 13C-2,3,7,8-TCDF | 62.3 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 51.5 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 65.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.3 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 76.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.4 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.9 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 71.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 54.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.2 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.4 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 60.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.4 | 39 - 69 | 13C-OCDF | 37.8 | 17 - 157 | |
| OCDF | 100 | 102 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 74.5 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 14:49

| Sample ID: IPG1385-01 | | | | | EPA Method 1613 | | | |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27893-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1385 | | Sample Size: | 1.04 L | QC Batch No.: | 8205 | Date Extracted: | 21-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 25-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1315 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000154 | | | IS 13C-2,3,7,8-TCDD | 53.7 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000180 | | | 13C-1,2,3,7,8-PeCDD | 50.5 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000468 | | | 13C-1,2,3,4,7,8-HxCDD | 49.5 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000228 | | | 13C-1,2,3,6,7,8-HxCDD | 48.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000222 | | | 13C-1,2,3,4,6,7,8-HpCDD | 48.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 0.0000232 | | | J | 13C-OCDD | 34.2 | 17 - 157 | |
| OCDD | 0.000214 | | | | 13C-2,3,7,8-TCDF | 51.9 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000210 | | | 13C-1,2,3,7,8-PeCDF | 49.6 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000169 | | | 13C-2,3,4,7,8-PeCDF | 50.4 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000154 | | | 13C-1,2,3,4,7,8-HxCDF | 53.6 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000136 | | | 13C-1,2,3,6,7,8-HxCDF | 52.2 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000127 | | | 13C-2,3,4,6,7,8-HxCDF | 50.4 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000146 | | | 13C-1,2,3,7,8,9-HxCDF | 45.0 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000247 | | | 13C-1,2,3,4,6,7,8-HpCDF | 45.5 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000215 | | | 13C-1,2,3,4,7,8,9-HpCDF | 47.5 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000199 | | | 13C-OCDF | 34.2 | 17 - 157 | |
| OCDF | ND | 0.00000371 | | | CRS 37Cl-2,3,7,8-TCDD | 76.7 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000154 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000180 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | 0.00000537 | | 0.0000106 | | c. Method detection limit. | | | |
| Total HpCDD | 0.0000232 | | 0.0000449 | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000210 | | | | | | |
| Total PeCDF | ND | 0.00000162 | | | | | | |
| Total HxCDF | ND | 0.00000164 | | | | | | |
| Total HpCDF | ND | 0.00000515 | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 28-Jul-2006 11:24

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPG1385

| | |
|--|--|
| <p>SENDING LABORATORY: TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Chamberlin</p> | <p>RECEIVING LABORATORY: Alta Analytical - SUB 1104 Windfield Way El Dorado Hills, CA 95762 Phone: (916) 933-1640 Fax: (916) 673-0106</p> <p style="font-size: 2em; text-align: right;">27893 OC</p> |
|--|--|

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

| Analysis | Expiration | Comments |
|-----------------------------|-------------------------|---|
| Sample ID: IPG1385-01 Water | Sampled: 07/18/06 13:15 | |
| 1613-Dioxin-HR-Alta | 07/25/06 13:15 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta Excel EDD email to pm, include Std logs for Lvl IV |
| Level 4 + EDD-OUT | 08/15/06 13:15 | |
| Containers Supplied: | | |
| 1 L Amber (IPG1385-01N) | | |
| 1 L Amber (IPG1385-01O) | | |

*Boeing EOP.
MC
7/20/06*

SAMPLE INTEGRITY:

| | | |
|---|--|---|
| All containers intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | Sample labels/COC agree: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Custody Seals Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Preserved Properly: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received at (temp): _____ |

Released By: _____ Date: _____ Time: _____ Received By: *Bettina D. Benedict* Date: *7/20/06* Time: *0925*

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27893

| | | | | | | |
|------------------|---------------------------|------------------|-------------------|-----|----------------------------------|-------|
| Samples Arrival: | Date/Time 7/20/06 0925 | Initials: BBB | Location: WR-2 | | | |
| | | | Shelf/Rack: _____ | | | |
| Logged In: | Date/Time 7/20/06 1251 | Initials: BBB | Location: WR-2 | | | |
| | | | Shelf/Rack: C-4 | | | |
| Delivered By: | <u>FedEx</u> | UPS | Cal | DHL | Hand Delivered | Other |
| Preservation: | <u>Ice</u> | Blue Ice | Dry Ice | | None | |
| Temp °C | 0°C | Time: | 0955 | | Thermometer ID: DT-20 | |

DT-14BBB

| | YES | NO | NA |
|--|------|---------------|---------------|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # 7927 99970554 | | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | <u>None</u> |
| COC | | | |
| Sample Container | | | |
| Shipping Container | Alta | <u>Client</u> | Retain |
| | | | <u>Return</u> |
| | | | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/31/06 19:05

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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.

LABORATORY ID
IPG1386-01

CLIENT ID
Z-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1386-01 (Z-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G19073 | 0.0088 | 0.040 | 0.36 | 1 | 07/19/06 | 07/21/06 | |
| Sample ID: IPG1386-01 (Z-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G19076 | 0.18 | 2.0 | 0.37 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7 | 6G19073 | 3.8 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Beryllium | EPA 200.7 | 6G19073 | 0.62 | 2.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Cadmium | EPA 200.8 | 6G19076 | 0.015 | 1.0 | 0.023 | 1 | 07/19/06 | 07/19/06 | J |
| Chromium | EPA 200.7 | 6G19073 | 0.68 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Copper | EPA 200.8 | 6G19076 | 0.49 | 2.0 | 0.78 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8 | 6G19076 | 0.13 | 1.0 | 0.52 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G19073 | 3.2 | 20 | 58 | 1 | 07/19/06 | 07/21/06 | |
| Mercury | EPA 245.1 | 6G19085 | 0.063 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7 | 6G19073 | 2.0 | 10 | 2.0 | 1 | 07/19/06 | 07/21/06 | J |
| Selenium | EPA 200.8 | 6G19076 | 0.36 | 2.0 | 0.65 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8 | 6G19076 | 0.089 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8 | 6G19076 | 0.075 | 1.0 | 0.20 | 1 | 07/19/06 | 07/20/06 | J |
| Zinc | EPA 200.7 | 6G19073 | 3.7 | 20 | ND | 1 | 07/19/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1386-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G18141 | 0.015 | 0.040 | 0.025 | 1 | 07/18/06 | 07/21/06 | J |
| Sample ID: IPG1386-01 (Z-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G19078 | 0.050 | 2.0 | 0.25 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7-Diss | 6G18141 | 4.4 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Beryllium | EPA 200.7-Diss | 6G18141 | 0.90 | 2.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Cadmium | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7-Diss | 6G18141 | 2.0 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Copper | EPA 200.8-Diss | 6G19078 | 0.25 | 2.0 | 0.71 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8-Diss | 6G19078 | 0.040 | 1.0 | 0.081 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7-Diss | 6G18141 | 7.0 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |
| Mercury | EPA 245.1-Diss | 6G19086 | 0.15 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7-Diss | 6G18141 | 2.0 | 10 | 2.0 | 1 | 07/18/06 | 07/21/06 | J |
| Selenium | EPA 200.8-Diss | 6G19078 | 0.30 | 2.0 | 0.39 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8-Diss | 6G19078 | 0.15 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G18141 | 15 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1386-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 0.99 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1386-01 (Z-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G31067 | 0.43 | 0.50 | 2.2 | 1 | 07/31/06 | 07/31/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G24062 | 2.0 | 2.0 | 180 | 1 | 07/24/06 | 07/24/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 1.1 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G19073 | 1.0 | 1.0 | 180 | 1 | 07/19/06 | 07/21/06 | |
| Nitrate-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | 0.095 | 1 | 07/18/06 | 07/19/06 | J |
| Nitrite-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18116 | 0.072 | 0.26 | 0.095 | 1 | 07/18/06 | 07/19/06 | J |
| Oil & Grease | EPA 413.1 | 6G19064 | 0.90 | 4.8 | ND | 1 | 07/19/06 | 07/19/06 | |
| Sulfate | EPA 300.0 | 6G18116 | 1.8 | 5.0 | 70 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19075 | 10 | 10 | 350 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G21146 | 0.50 | 1.0 | 11 | 1 | 07/21/06 | 07/21/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21118 | 10 | 10 | ND | 1 | 07/21/06 | 07/21/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1386-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19091 | 0.040 | 1.0 | 6.2 | 1 | 07/19/06 | 07/19/06 | |

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 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1386-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.69 | 1 | 07/19/06 | 07/19/06 | |

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Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1386-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 630 | 1 | 07/19/06 | 07/19/06 | |

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Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: Z-EFF (IPG1386-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/18/2006 13:15 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 13:15 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 13:15 | 07/18/2006 17:25 | 07/18/2006 21:30 | 07/19/2006 05:44 |

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 R-2A Pond Pilot Test
 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 3.8 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G19073-BS1) | | | | | | | | | | | |
| Arsenic | 500 | 5.0 | 3.8 | ug/l | 500 | | 100 | 85-115 | | | |
| Beryllium | 507 | 2.0 | 0.62 | ug/l | 500 | | 101 | 85-115 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | | 100 | 85-115 | | | |
| Iron | 0.505 | 0.040 | 0.0088 | mg/l | 0.500 | | 101 | 85-115 | | | |
| Manganese | 499 | 20 | 3.2 | ug/l | 500 | | 100 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 490 | 20 | 3.7 | ug/l | 500 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 518 | 5.0 | 3.8 | ug/l | 500 | 5.9 | 102 | 70-130 | | | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Chromium | 493 | 5.0 | 0.68 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.688 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 102 | 70-130 | | | |
| Manganese | 523 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Zinc | 502 | 20 | 3.7 | ug/l | 500 | ND | 100 | 70-130 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Arsenic | 516 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Beryllium | 513 | 2.0 | 0.62 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | 0.69 | 100 | 70-130 | | | |
| Iron | 0.970 | 0.040 | 0.0088 | mg/l | 0.500 | 0.46 | 102 | 70-130 | | | |
| Manganese | 560 | 20 | 3.2 | ug/l | 500 | 70 | 98 | 70-130 | | | |
| Nickel | 493 | 10 | 2.0 | ug/l | 500 | 2.2 | 98 | 70-130 | | | |
| Zinc | 509 | 20 | 3.7 | ug/l | 500 | ND | 102 | 70-130 | | | |

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Matrix Spike Dup Analyzed: 07/21/2006 (6G19073-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 513 | 5.0 | 3.8 | ug/l | 500 | 5.9 | 101 | 70-130 | 1 | 20 | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | 0 | 20 | |
| Chromium | 498 | 5.0 | 0.68 | ug/l | 500 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 0.677 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 99 | 70-130 | 2 | 20 | |
| Manganese | 524 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | 0 | 20 | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 1 | 20 | |
| Zinc | 494 | 20 | 3.7 | ug/l | 500 | ND | 99 | 70-130 | 2 | 20 | |

Batch: 6G19076 Extracted: 07/19/06

| Analyte | Result | Reporting Limit | MDL | Units |
|---|--------|-----------------|-------|-------|
| Blank Analyzed: 07/19/2006-07/20/2006 (6G19076-BLK1) | | | | |
| Antimony | ND | 2.0 | 0.18 | ug/l |
| Cadmium | ND | 1.0 | 0.015 | ug/l |
| Copper | ND | 2.0 | 0.49 | ug/l |
| Lead | ND | 1.0 | 0.13 | ug/l |
| Selenium | ND | 2.0 | 0.36 | ug/l |
| Silver | ND | 1.0 | 0.089 | ug/l |
| Thallium | ND | 1.0 | 0.075 | ug/l |

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R-2A Pond Pilot Test
Report Number: IPG1386

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19076-BS1) | | | | | | | | | | | |
| Antimony | 82.8 | 2.0 | 0.18 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 86.5 | 1.0 | 0.015 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Copper | 80.7 | 2.0 | 0.49 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Lead | 82.5 | 1.0 | 0.13 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 87.8 | 2.0 | 0.36 | ug/l | 80.0 | | 110 | 85-115 | | | |
| Silver | 83.9 | 1.0 | 0.089 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 86.6 | 1.0 | 0.075 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS1) | | | | | | Source: IPG1381-01 | | | | | |
| Antimony | 83.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 103 | 70-130 | | | |
| Cadmium | 84.7 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 78.7 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 97 | 70-130 | | | |
| Lead | 80.7 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Selenium | 85.7 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 106 | 70-130 | | | |
| Silver | 82.2 | 1.0 | 0.089 | ug/l | 80.0 | ND | 103 | 70-130 | | | |
| Thallium | 85.6 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 107 | 70-130 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Antimony | 84.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.18 | 105 | 70-130 | | | |
| Cadmium | 84.8 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 79.3 | 2.0 | 0.49 | ug/l | 80.0 | 1.1 | 98 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.13 | ug/l | 80.0 | 0.53 | 101 | 70-130 | | | |
| Selenium | 85.8 | 2.0 | 0.36 | ug/l | 80.0 | 0.38 | 107 | 70-130 | | | |
| Silver | 81.5 | 1.0 | 0.089 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 85.4 | 1.0 | 0.075 | ug/l | 80.0 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19076-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Antimony | 83.8 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 104 | 70-130 | 1 | 20 | |
| Cadmium | 84.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 105 | 70-130 | 1 | 20 | |
| Copper | 79.2 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 98 | 70-130 | 1 | 20 | |
| Lead | 80.2 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | 1 | 20 | |
| Selenium | 86.2 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 107 | 70-130 | 1 | 20 | |
| Silver | 79.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 84.7 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 106 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19085 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19085-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19085-BS1) | | | | | | | | | | | |
| Mercury | 8.53 | 0.20 | 0.063 | ug/l | 8.00 | | 107 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19085-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.75 | 0.20 | 0.063 | ug/l | 8.00 | ND | 109 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19085-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.62 | 0.20 | 0.063 | ug/l | 8.00 | ND | 108 | 70-130 | 1 | 20 | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18141 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G18141-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G18141-BS1) | | | | | | | | | | | |
| Arsenic | 1030 | 5.0 | 4.4 | ug/l | 1000 | | 103 | 85-115 | | | |
| Beryllium | 1030 | 2.0 | 0.90 | ug/l | 1000 | | 103 | 85-115 | | | |
| Chromium | 1030 | 5.0 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G18141-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | | | |
| Beryllium | 1050 | 2.0 | 0.90 | ug/l | 1000 | ND | 105 | 70-130 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G18141-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | 0 | 20 | |
| Beryllium | 1060 | 2.0 | 0.90 | ug/l | 1000 | ND | 106 | 70-130 | 1 | 20 | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | 0 | 20 | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | 0 | 20 | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | 0 | 20 | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | 0 | 20 | |

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 Report Number: IPG1386

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 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19078 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19078-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19078-BS1) | | | | | | | | | | | |
| Antimony | 81.5 | 2.0 | 0.050 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Cadmium | 85.5 | 1.0 | 0.025 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Copper | 79.9 | 2.0 | 0.25 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Lead | 81.8 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 85.9 | 2.0 | 0.30 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Silver | 89.0 | 1.0 | 0.025 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Thallium | 86.7 | 1.0 | 0.15 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19078-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 104 | 70-130 | | | |
| Cadmium | 84.9 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | | | |
| Copper | 83.6 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 104 | 70-130 | | | |
| Lead | 81.2 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 101 | 70-130 | | | |
| Selenium | 86.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 107 | 70-130 | | | |
| Silver | 86.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Thallium | 86.1 | 1.0 | 0.15 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19078-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 82.4 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 103 | 70-130 | 2 | 20 | |
| Cadmium | 83.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 104 | 70-130 | 2 | 20 | |
| Copper | 77.3 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 96 | 70-130 | 8 | 20 | |
| Lead | 79.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 99 | 70-130 | 2 | 20 | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 103 | 70-130 | 4 | 20 | |
| Silver | 85.1 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |
| Thallium | 84.6 | 1.0 | 0.15 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19086 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19086-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19086-BS1) | | | | | | | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19086-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.44 | 0.20 | 0.15 | ug/l | 8.00 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19086-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.59 | 0.20 | 0.15 | ug/l | 8.00 | ND | 107 | 70-130 | 2 | 20 | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18116 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18116-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18116-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.12 | 0.15 | 0.080 | mg/l | 1.13 | | 99 | 90-110 | | | |
| Nitrite-N | 1.45 | 0.15 | 0.080 | mg/l | 1.52 | | 95 | 90-110 | | | |
| Sulfate | 9.53 | 0.50 | 0.18 | mg/l | 10.0 | | 95 | 90-110 | | | |
| Matrix Spike Analyzed: 07/18/2006 (6G18116-MS1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.3 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | | | |
| Nitrite-N | 19.4 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | | | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18116-MSD1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.4 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | 1 | 20 | |
| Nitrite-N | 19.5 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | 1 | 20 | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | 0 | 20 | |
| Batch: 6G19064 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19064-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19064-BS1) M-NR1 | | | | | | | | | | | |
| Oil & Grease | 17.7 | 5.0 | 0.94 | mg/l | 20.0 | | 88 | 65-120 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1386

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19064 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Dup Analyzed: 07/19/2006 (6G19064-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.1 | 5.0 | 0.94 | mg/l | 20.0 | | 90 | 65-120 | 2 | 20 | |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) | | | | | | | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | Source: IPG1381-01 620 | | | 1 | 5 | |
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |
| Batch: 6G19075 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19075-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19075-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19075-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 207 | 10 | 10 | mg/l | | Source: IPG1345-10 210 | | | 1 | 10 | |
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | | | | | | |
| pH | 7.24 | NA | N/A | pH Units | | Source: IPG1353-01 7.22 | | | 0 | 5 | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | | | | | | |
| pH | 7.93 | NA | N/A | pH Units | | 7.91 | | | 0 | 5 | |
| Batch: 6G19091 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19091-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19091-DUP1) | | | | | | | | | | | |
| Turbidity | 3.36 | 1.0 | 0.040 | NTU | | 3.3 | | | 2 | 20 | |
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | 1.0 | | | 2 | 20 | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |

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Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | Source: IPG1381-01 | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| Batch: 6G21118 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21118-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21118-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 970 | 10 | 10 | mg/l | 1000 | | 97 | 85-115 | | | |
| Duplicate Analyzed: 07/21/2006 (6G21118-DUP1) | | | | | | Source: IPG1363-04 | | | | | |
| Total Suspended Solids | 96.0 | 10 | 10 | mg/l | | 100 | | | 4 | 10 | |
| Batch: 6G21146 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21146-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21146-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.7 | 1.0 | 0.25 | mg/l | 10.0 | | 107 | 90-110 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21146-MS1) | | | | | | Source: IPG1372-03 | | | | | |
| Total Organic Carbon | 12.0 | 1.0 | 0.25 | mg/l | 5.00 | 7.7 | 86 | 80-120 | | | |

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 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G21146 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21146-MSD1) | | | | | | Source: IPG1372-03 | | | | | |
| Total Organic Carbon | 12.1 | 1.0 | 0.25 | mg/l | 5.00 | 7.7 | 88 | 80-120 | 1 | 20 | |
| <u>Batch: 6G24062 Extracted: 07/24/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/24/2006 (6G24062-DUP1) | | | | | | Source: IPG1738-01 | | | | | |
| Alkalinity as CaCO ₃ | 180 | 2.0 | 2.0 | mg/l | | 180 | | | 0 | 20 | |
| Reference Analyzed: 07/24/2006 (6G24062-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO ₃ | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |
| <u>Batch: 6G31067 Extracted: 07/31/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/31/2006 (6G31067-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/31/2006 (6G31067-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/31/2006 (6G31067-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/31/2006 (6G31067-MS1) | | | | | | Source: IPG1962-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/31/2006 (6G31067-MSD1) | | | | | | Source: IPG1962-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1386

Sampled: 07/18/06
Received: 07/18/06

DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1386

Sampled: 07/18/06
 Received: 07/18/06

Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1386-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

IPG 1386 Page 1 of 1

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

| | | | | | |
|--|-------------------------|---|--|--|-----------------------------------|
| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | |
| Project Manager: Bronwyn Kelly | | Sample Matrix: W | | Sample Description: Z-EFF | |
| Container Type: Poly-1L | Sample Matrix: W | Container Type: Poly-1L | Sample Date/Time: 7-18-06 14:15 | Preservative: HNO3 | Bottle #: 1 |
| Container Type: VOAs | Sample Matrix: W | Container Type: VOAs | Sample Date/Time: | Preservative: HCl | Bottle #: 2 |
| Container Type: 1L Amber | Sample Matrix: W | Container Type: 1L Amber | Sample Date/Time: | Preservative: HCl | Bottle #: 3A, 3B 4A, 4B |
| Container Type: Poly-500 ml | Sample Matrix: W | Container Type: Poly-500 ml | Sample Date/Time: | Preservative: H2SO4 | Bottle #: 5 |
| Container Type: Poly-500 ml | Sample Matrix: W | Container Type: Poly-500 ml | Sample Date/Time: | Preservative: None | Bottle #: 6 |
| Container Type: Poly-500 ml | Sample Matrix: W | Container Type: Poly-500 ml | Sample Date/Time: | Preservative: None | Bottle #: 7A, 7B |
| Container Type: Poly-500 ml | Sample Matrix: W | Container Type: Poly-500 ml | Sample Date/Time: | Preservative: H2SO4 | Bottle #: 8 |
| Container Type: Poly-1L | Sample Matrix: W | Container Type: Poly-1L | Sample Date/Time: | Preservative: None | Bottle #: 9 |
| Container Type: 1L Amber | Sample Matrix: W | Container Type: 1L Amber | Sample Date/Time: 7-18-06 13:15 | Preservative: None | Bottle #: 10A, 10B |

ANALYSIS REQUIRED

| Field readings: | Temp = | pH = | Comments |
|---|--------|------|----------|
| TCDD (and all congeners) | | | |
| Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn | | | |
| Ammonia-N (NH3-N) | | | |
| Turbidity, TSS, Conductivity | | | |
| SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | | | |
| Total Kjeldahl Nitrogen | | | |
| Oil & Grease (EPA 413.1) | | | |
| Total Organic Carbon (ASTM Method) | | | |
| Alkalinity, Suspended Solids, pH | | | |
| Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn, Hardness | | | |

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) On Ice: 4°C

Relinquished By: *[Signature]* Date/Time: 7-18-06 14:20
 Received By: *[Signature]* Date/Time: 7-18-06 14:20
 Relinquished By: *[Signature]* Date/Time: 7-18-06 17:25
 Received By: *[Signature]* Date/Time: 7-18-06 17:25
 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

210

In

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric.
 Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
 Thanks.
 Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks.

Eric Walker
 MWH Americas, Inc.
 300 North Lake Avenue, Suite 1200
 Pasadena, California 91101
 (626) 786-0093 Mobile
 (626) 568-6852 Direct Line
 (626) 568-6515 FAX

Note: The information contained in this e-mail is intended only for the individual or entity to whom it is addressed. Its contents (including any attachments) may contain confidential and/or privileged information. If you are not an intended recipient you must not use, disclose, disseminate, copy or print its contents. If you receive this e-mail in error, please notify the sender by reply e-mail and delete and destroy the message.

"Michele Chamberlin"
 <mchamberlin@testamericainc.com>

To: "Eric Walker" <Eric.Walker@us.mwhglobal.com>
 cc: "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai"
 <Eric.S.Tsai@us.mwhglobal.com>

07/20/2006 03:14 PM

Subject: Sample Temp for 7/18/06 R2A Pond Pilot Test

7/20/2006

in

Hi Eric,

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks,
Michele



July 28, 2006

Alta Project I.D.: 27886

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1386-01". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27886-001

IPG1386-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000132 | | | IS 13C-2,3,7,8-TCDD | 73.0 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000145 | | | 13C-1,2,3,7,8-PeCDD | 70.0 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000396 | | | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,6,7,8-HxCDD | 66.5 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,4,6,7,8-HpCDD | 66.3 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000206 | | | 13C-OCDD | 49.4 | 17 - 157 | | |
| OCDD | ND | | 0.00000597 | | 13C-2,3,7,8-TCDF | 69.1 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDF | 68.8 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000124 | | | 13C-2,3,4,7,8-PeCDF | 69.7 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000115 | | | 13C-1,2,3,4,7,8-HxCDF | 73.6 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000781 | | | 13C-1,2,3,6,7,8-HxCDF | 74.2 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000644 | | | 13C-2,3,4,6,7,8-HxCDF | 71.0 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000784 | | | 13C-1,2,3,7,8,9-HxCDF | 58.3 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000137 | | | 13C-1,2,3,4,6,7,8-HpCDF | 64.2 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000129 | | | 13C-OCDF | 45.8 | 17 - 157 | | |
| OCDF | ND | 0.00000345 | | | CRS 37Cl-2,3,7,8-TCDD | 78.8 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000132 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000145 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000238 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000206 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000171 | | | | | | | |
| Total PeCDF | ND | 0.00000120 | | | | | | | |
| Total HxCDF | ND | 0.000000895 | | | | | | | |
| Total HpCDF | ND | 0.00000123 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 28-Jul-2006 13:20

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.1 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 66.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 49.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 69.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 51.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 49.7 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 64.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 51.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 66.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 52.2 | 35 - 70 | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 100 | 101 | 78 - 144 | 13C-2,3,7,8-TCDF | 62.3 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 51.5 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 65.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.3 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 76.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.4 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.9 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 71.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 54.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.2 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.4 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 60.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.4 | 39 - 69 | 13C-OCDF | 37.8 | 17 - 157 | |
| OCDF | 100 | 102 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 74.5 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 28-Jul-2006 13:20

| Sample ID: IPG1386-01 | | | | | EPA Method 1613 | | | |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27886-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1386 | | Sample Size: | 1.02 L | QC Batch No.: | 8205 | Date Extracted: | 21-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1315 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000186 | | | IS 13C-2,3,7,8-TCDD | 68.7 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000189 | | | 13C-1,2,3,7,8-PeCDD | 66.3 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000484 | | | 13C-1,2,3,4,7,8-HxCDD | 68.0 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000230 | | | 13C-1,2,3,6,7,8-HxCDD | 66.3 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000227 | | | 13C-1,2,3,4,6,7,8-HpCDD | 64.8 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 0.0000197 | | | J | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 0.000211 | | | | 13C-2,3,7,8-TCDF | 66.4 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000221 | | | 13C-1,2,3,7,8-PeCDF | 65.6 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000148 | | | 13C-2,3,4,7,8-PeCDF | 64.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000150 | | | 13C-1,2,3,4,7,8-HxCDF | 75.0 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000128 | | | 13C-1,2,3,6,7,8-HxCDF | 72.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000110 | | | 13C-2,3,4,6,7,8-HxCDF | 70.1 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000126 | | | 13C-1,2,3,7,8,9-HxCDF | 59.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000225 | | | 13C-1,2,3,4,6,7,8-HpCDF | 62.6 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000197 | | | 13C-1,2,3,4,7,8,9-HpCDF | 65.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000215 | | | 13C-OCDF | 42.6 | 17 - 157 | |
| OCDF | ND | 0.00000491 | | | CRS 37Cl-2,3,7,8-TCDD | 78.4 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000186 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000189 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | 0.00000548 | | | | c. Method detection limit. | | | |
| Total HpCDD | 0.0000465 | | | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000221 | | | | | | |
| Total PeCDF | ND | 0.00000149 | | | | | | |
| Total HxCDF | ND | 0.00000147 | | | | | | |
| Total HpCDF | ND | 0.00000206 | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 28-Jul-2006 13:20

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPG1386

SENDING LABORATORY:

TestAmerica - Irvine, CA
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 261-1228
 Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Alta Analytical - SUB
 1104 Windfield Way
 El Dorado Hills, CA 95762
 Phone: (916) 933-1640
 Fax: (916) 673-0106

27886 0.4°C

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

| Analysis | Expiration | Comments |
|------------------------------|---------------------------|--|
| Sample ID: IPG1386-01 Water | Sampled: 07/18/06 13:15 | |
| 1613-Dioxin-HR-Alta | 07/25/06 13:15 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta, <i>Being EDD</i> Excel EDD email to pm, include Std logs for Lvl IV, <i>ME</i> <i>7/20/06</i> |
| Level 4 + EDD-OUT | 08/15/06 13:15 | |
| Containers Supplied: | | |
| 1 L Amber (IPG1386-01N) | | |
| 1 L Amber (IPG1386-01O) | | |

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): _____

~~Released By: _____ Date: _____ Time: _____~~
 Received By: *Bethmich Benedict* Date: *7/20/06* Time: *0925*

Released By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27886

| | | | |
|------------------|---|-----------------------------------|-----------------------------------|
| Samples Arrival: | Date/Time 7/20/06 0925 | Initials: UBSB | Location: WR-2 Shelf/Rack: N/A |
| Logged In: | Date/Time 7/20/06 1115 | Initials: FEB | Location: WR-2 Shelf/Rack: C-5 |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | <input type="checkbox"/> Hand Delivered | <input type="checkbox"/> DHL | <input type="checkbox"/> Other |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | <input type="checkbox"/> None | | |
| Temp °C | 0.4°C | Time: 0925 1025 UBSB | Thermometer ID: DT-20 DT-1 |

| | YES | NO | NA |
|--|------|--|---------|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # 7915 0101 2280 | | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | | ✓ |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| Shipping Container | Alta | <input checked="" type="checkbox"/> Client | Retain |
| | | <input checked="" type="checkbox"/> Return | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/30/06 17:49

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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: Enclosed are complete final results.

LABORATORY ID
IPG1387-01

CLIENT ID
AC-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1387-01 (AC-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G19073 | 0.0088 | 0.040 | 0.23 | 1 | 07/19/06 | 07/21/06 | |
| Sample ID: IPG1387-01 (AC-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G19076 | 0.18 | 2.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Arsenic | EPA 200.7 | 6G19073 | 3.8 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Beryllium | EPA 200.7 | 6G19073 | 0.62 | 2.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Cadmium | EPA 200.8 | 6G19076 | 0.015 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7 | 6G19073 | 0.68 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Copper | EPA 200.8 | 6G19076 | 0.49 | 2.0 | 0.53 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8 | 6G19076 | 0.13 | 1.0 | 0.34 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G19073 | 3.2 | 20 | 42 | 1 | 07/19/06 | 07/21/06 | |
| Mercury | EPA 245.1 | 6G19085 | 0.063 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7 | 6G19073 | 2.0 | 10 | ND | 1 | 07/19/06 | 07/21/06 | |
| Selenium | EPA 200.8 | 6G19076 | 0.36 | 2.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Silver | EPA 200.8 | 6G19076 | 0.089 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8 | 6G19076 | 0.075 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7 | 6G19073 | 3.7 | 20 | ND | 1 | 07/19/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1387-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G18141 | 0.015 | 0.040 | 0.022 | 1 | 07/18/06 | 07/21/06 | J |
| Sample ID: IPG1387-01 (AC-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G19078 | 0.050 | 2.0 | 0.058 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7-Diss | 6G18141 | 4.4 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Beryllium | EPA 200.7-Diss | 6G18141 | 0.90 | 2.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Cadmium | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7-Diss | 6G18141 | 2.0 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Copper | EPA 200.8-Diss | 6G19078 | 0.25 | 2.0 | 0.32 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8-Diss | 6G19078 | 0.040 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Manganese | EPA 200.7-Diss | 6G18141 | 7.0 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |
| Mercury | EPA 245.1-Diss | 6G19086 | 0.15 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7-Diss | 6G18141 | 2.0 | 10 | ND | 1 | 07/18/06 | 07/21/06 | |
| Selenium | EPA 200.8-Diss | 6G19078 | 0.30 | 2.0 | 0.38 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8-Diss | 6G19078 | 0.15 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G18141 | 15 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1387-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 1.0 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1387-01 (AC-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G24106 | 0.43 | 0.50 | 1.1 | 1 | 07/24/06 | 07/24/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G24062 | 2.0 | 2.0 | 180 | 1 | 07/24/06 | 07/24/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 0.84 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G19073 | 1.0 | 1.0 | 200 | 1 | 07/19/06 | 07/21/06 | |
| Nitrate-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrite-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18116 | 0.072 | 0.26 | ND | 1 | 07/18/06 | 07/19/06 | |
| Oil & Grease | EPA 413.1 | 6G21001 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G18116 | 1.8 | 5.0 | 70 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19075 | 10 | 10 | 330 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G21108 | 0.50 | 1.0 | 3.9 | 1 | 07/21/06 | 07/21/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21118 | 10 | 10 | ND | 1 | 07/21/06 | 07/21/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1387-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19091 | 0.040 | 1.0 | 3.7 | 1 | 07/19/06 | 07/19/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1387-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.91 | 1 | 07/19/06 | 07/19/06 | |

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 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1387-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 580 | 1 | 07/19/06 | 07/19/06 | |

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Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|---|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: AC-EFF (IPG1387-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/18/2006 13:30 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 13:30 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 13:30 | 07/18/2006 17:25 | 07/18/2006 21:30 | 07/19/2006 06:08 |

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 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 3.8 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G19073-BS1) | | | | | | | | | | | |
| Arsenic | 500 | 5.0 | 3.8 | ug/l | 500 | | 100 | 85-115 | | | |
| Beryllium | 507 | 2.0 | 0.62 | ug/l | 500 | | 101 | 85-115 | | | |
| Calcium | 2.45 | 0.10 | N/A | mg/l | 2.50 | | 98 | 85-115 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | | 100 | 85-115 | | | |
| Iron | 0.505 | 0.040 | 0.0088 | mg/l | 0.500 | | 101 | 85-115 | | | |
| Magnesium | 2.50 | 0.020 | N/A | mg/l | 2.50 | | 100 | 85-115 | | | |
| Manganese | 499 | 20 | 3.2 | ug/l | 500 | | 100 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 490 | 20 | 3.7 | ug/l | 500 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 518 | 5.0 | 3.8 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Calcium | 57.5 | 0.10 | N/A | mg/l | 2.50 | 54 | 140 | 70-130 | | | M-HA |
| Chromium | 493 | 5.0 | 0.68 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.688 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 523 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Zinc | 502 | 20 | 3.7 | ug/l | 500 | ND | 100 | 70-130 | | | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Arsenic | 516 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Beryllium | 513 | 2.0 | 0.62 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Calcium | 57.9 | 0.10 | N/A | mg/l | 2.50 | 55 | 116 | 70-130 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | 0.69 | 100 | 70-130 | | | |
| Iron | 0.970 | 0.040 | 0.0088 | mg/l | 0.500 | 0.46 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 560 | 20 | 3.2 | ug/l | 500 | 70 | 98 | 70-130 | | | |
| Nickel | 493 | 10 | 2.0 | ug/l | 500 | 2.2 | 98 | 70-130 | | | |
| Zinc | 509 | 20 | 3.7 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G19073-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 513 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | 1 | 20 | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | 0 | 20 | |
| Calcium | 57.8 | 0.10 | N/A | mg/l | 2.50 | 54 | 152 | 70-130 | 1 | 20 | M-HA |
| Chromium | 498 | 5.0 | 0.68 | ug/l | 500 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 0.677 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 99 | 70-130 | 2 | 20 | |
| Magnesium | 17.5 | 0.020 | N/A | mg/l | 2.50 | 15 | 100 | 70-130 | 1 | 20 | |
| Manganese | 524 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | 0 | 20 | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 1 | 20 | |
| Zinc | 494 | 20 | 3.7 | ug/l | 500 | ND | 99 | 70-130 | 2 | 20 | |
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006-07/20/2006 (6G19076-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.18 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.015 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.49 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.13 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.36 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.089 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.075 | ug/l | | | | | | | |

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Report Number: IPG1387

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METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19076-BS1) | | | | | | | | | | | |
| Antimony | 82.8 | 2.0 | 0.18 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 86.5 | 1.0 | 0.015 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Copper | 80.7 | 2.0 | 0.49 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Lead | 82.5 | 1.0 | 0.13 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 87.8 | 2.0 | 0.36 | ug/l | 80.0 | | 110 | 85-115 | | | |
| Silver | 83.9 | 1.0 | 0.089 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 86.6 | 1.0 | 0.075 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 103 | 70-130 | | | |
| Cadmium | 84.7 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 78.7 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 97 | 70-130 | | | |
| Lead | 80.7 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Selenium | 85.7 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 106 | 70-130 | | | |
| Silver | 82.2 | 1.0 | 0.089 | ug/l | 80.0 | ND | 103 | 70-130 | | | |
| Thallium | 85.6 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 107 | 70-130 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS2) Source: IPG1385-01 | | | | | | | | | | | |
| Antimony | 84.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.18 | 105 | 70-130 | | | |
| Cadmium | 84.8 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 79.3 | 2.0 | 0.49 | ug/l | 80.0 | 1.1 | 98 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.13 | ug/l | 80.0 | 0.53 | 101 | 70-130 | | | |
| Selenium | 85.8 | 2.0 | 0.36 | ug/l | 80.0 | 0.38 | 107 | 70-130 | | | |
| Silver | 81.5 | 1.0 | 0.089 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 85.4 | 1.0 | 0.075 | ug/l | 80.0 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19076-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.8 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 104 | 70-130 | 1 | 20 | |
| Cadmium | 84.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 105 | 70-130 | 1 | 20 | |
| Copper | 79.2 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 98 | 70-130 | 1 | 20 | |
| Lead | 80.2 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | 1 | 20 | |
| Selenium | 86.2 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 107 | 70-130 | 1 | 20 | |
| Silver | 79.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 84.7 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 106 | 70-130 | 1 | 20 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19085 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19085-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19085-BS1) | | | | | | | | | | | |
| Mercury | 8.53 | 0.20 | 0.063 | ug/l | 8.00 | | 107 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19085-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.75 | 0.20 | 0.063 | ug/l | 8.00 | ND | 109 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19085-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.62 | 0.20 | 0.063 | ug/l | 8.00 | ND | 108 | 70-130 | 1 | 20 | |

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 Report Number: IPG1387

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 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18141 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G18141-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G18141-BS1) | | | | | | | | | | | |
| Arsenic | 1030 | 5.0 | 4.4 | ug/l | 1000 | | 103 | 85-115 | | | |
| Beryllium | 1030 | 2.0 | 0.90 | ug/l | 1000 | | 103 | 85-115 | | | |
| Chromium | 1030 | 5.0 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G18141-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | | | |
| Beryllium | 1050 | 2.0 | 0.90 | ug/l | 1000 | ND | 105 | 70-130 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G18141-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | 0 | 20 | |
| Beryllium | 1060 | 2.0 | 0.90 | ug/l | 1000 | ND | 106 | 70-130 | 1 | 20 | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | 0 | 20 | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | 0 | 20 | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | 0 | 20 | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | 0 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19078 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19078-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19078-BS1) | | | | | | | | | | | |
| Antimony | 81.5 | 2.0 | 0.050 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Cadmium | 85.5 | 1.0 | 0.025 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Copper | 79.9 | 2.0 | 0.25 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Lead | 81.8 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 85.9 | 2.0 | 0.30 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Silver | 89.0 | 1.0 | 0.025 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Thallium | 86.7 | 1.0 | 0.15 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19078-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 104 | 70-130 | | | |
| Cadmium | 84.9 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | | | |
| Copper | 83.6 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 104 | 70-130 | | | |
| Lead | 81.2 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 101 | 70-130 | | | |
| Selenium | 86.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 107 | 70-130 | | | |
| Silver | 86.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Thallium | 86.1 | 1.0 | 0.15 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19078-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 82.4 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 103 | 70-130 | 2 | 20 | |
| Cadmium | 83.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 104 | 70-130 | 2 | 20 | |
| Copper | 77.3 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 96 | 70-130 | 8 | 20 | |
| Lead | 79.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 99 | 70-130 | 2 | 20 | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 103 | 70-130 | 4 | 20 | |
| Silver | 85.1 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |
| Thallium | 84.6 | 1.0 | 0.15 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |

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 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19086 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19086-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19086-BS1) | | | | | | | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19086-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.44 | 0.20 | 0.15 | ug/l | 8.00 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19086-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.59 | 0.20 | 0.15 | ug/l | 8.00 | ND | 107 | 70-130 | 2 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18116 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18116-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18116-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.12 | 0.15 | 0.080 | mg/l | 1.13 | | 99 | 90-110 | | | |
| Nitrite-N | 1.45 | 0.15 | 0.080 | mg/l | 1.52 | | 95 | 90-110 | | | |
| Sulfate | 9.53 | 0.50 | 0.18 | mg/l | 10.0 | | 95 | 90-110 | | | |
| Matrix Spike Analyzed: 07/18/2006 (6G18116-MS1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.3 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | | | |
| Nitrite-N | 19.4 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | | | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18116-MSD1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.4 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | 1 | 20 | |
| Nitrite-N | 19.5 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | 1 | 20 | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | 0 | 20 | |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) Source: IPG1381-01 | | | | | | | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | 620 | | | 1 | 5 | |
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD | Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|-----------|--------|-----|-----|-------|-----------------|
| Batch: 6G19075 Extracted: 07/19/06 | | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19075-BLK1) | | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19075-BS1) | | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19075-DUP1) | | | | | | | | | | | | |
| Total Dissolved Solids | 207 | 10 | 10 | mg/l | | Source: IPG1345-10 210 | | | 1 | | 10 | |
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | | | | | | | |
| pH | 7.24 | NA | N/A | pH Units | | Source: IPG1353-01 7.22 | | | 0 | | 5 | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | | | | | | | |
| pH | 7.93 | NA | N/A | pH Units | | Source: IPG1387-01 7.91 | | | 0 | | 5 | |
| Batch: 6G19091 Extracted: 07/19/06 | | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19091-BLK1) | | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19091-DUP1) | | | | | | | | | | | | |
| Turbidity | 3.36 | 1.0 | 0.040 | NTU | | Source: IPG1381-01 3.3 | | | 2 | | 20 | |
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | Source: IPG0469-03 1.0 | | | 2 | | 20 | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | Source: IPG1381-01 | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | Source: IPG1381-01 | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| Batch: 6G21001 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21001-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21001-BS1) | | | | | | | | | | | |
| Oil & Grease | 19.1 | 5.0 | 0.94 | mg/l | 20.0 | | 96 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21001-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.7 | 5.0 | 0.94 | mg/l | 20.0 | | 94 | 65-120 | 2 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21108 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21108-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21108-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 11.0 | 1.0 | 0.25 | mg/l | 10.0 | | 110 | 90-110 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21108-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.69 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21108-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.67 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | 0 | 20 | |
| Batch: 6G21118 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21118-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21118-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 970 | 10 | 10 | mg/l | 1000 | | 97 | 85-115 | | | |
| Duplicate Analyzed: 07/21/2006 (6G21118-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1363-04 | | | | | |
| Total Suspended Solids | 96.0 | 10 | 10 | mg/l | | 100 | | | 4 | 10 | |
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/24/2006 (6G24062-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1738-01 | | | | | |
| Alkalinity as CaCO3 | 180 | 2.0 | 2.0 | mg/l | | 180 | | | 0 | 20 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Reference Analyzed: 07/24/2006 (6G24062-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |
| Batch: 6G24106 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24106-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24106-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.6 | 0.50 | 0.43 | mg/l | 20.0 | | 98 | 85-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1387-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 1.1 | 95 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1387-01 | | | | | |
| Total Kjeldahl Nitrogen | 11.2 | 0.50 | 0.43 | mg/l | 10.0 | 1.1 | 101 | 85-120 | 6 | 15 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1387

Sampled: 07/18/06
Received: 07/18/06

DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1387

Sampled: 07/18/06
 Received: 07/18/06

Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1387-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

Del Mar Analytical

Version 04/28/06

CHAIN OF CUSTODY FORM

IP 1387

| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | | | | | | | | | | | | | | | | | |
|--|---------------|--|--------------|---------------------------|----------------------|----------|---|---|----------------------|--------------------------|-------------------------|--|----------------|--------------|--------------------------------|---|--------------------------|-----------------------------------|----------|--|
| Project Manager: Bronwyn Kelly | | Phone Number: (626) 568-6691 | | | | | | | | | | | | | | | | | | |
| Sampler: | | Fax Number: (626) 568-6515 | | | | | | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N) | Turbidity, TSS | Conductivity | Ammonia-N (NH ₃ -N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn | TCDD (and all congeners) | Field readings: Temp = pH = | Comments | |
| AC-EFF | W | Poly-1L | 1 | 7-18-06 13:30 | HNO3 | 1 | X | | | | | | | | | | | | | |
| AC-EFF | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | | | | | |
| AC-EFF | W | VOCs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | | | | |
| AC-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | X | | | | | | | | | | | |
| AC-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | X | | | | | | | | | | |
| AC-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | X | | | | | | | | | |
| AC-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | X | | | | | | | | |
| AC-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | | | X | | | | | |
| AC-EFF | W | Poly-1L | 1 | 7-18-06 13:30 | None | 9 | | | | | | | | | | X | | | | |
| AC-EFF | W | 1L Amber | 2 | | None | 10A, 10B | | | | | | | | | | | X | | | |
| Relinquished By | Date/Time | Received By | Date/Time | Turn around Time: (check) | | | | | | | | | | | | | | | | |
| Kim B... | 7-18-06 1420 | Colin D... | 7-18-06 1420 | 24 Hours | 5 Days | | | | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | 48 Hours | 10 Days | | | | | | | | | | | | | | | |
| Colin D... | 7-18-06 1725 | Manaf... | 7-18-06 1725 | 72 Hours | Normal | | | | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | Perchlorate Only 72 Hours | Metals Only 72 Hours | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | |

MA 2010

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric,
Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
Thanks,
Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks.

Eric Walker
MWH Americas, Inc.
300 North Lake Avenue, Suite 1200
Pasadena, California 91101
(626) 786-0093 Mobile
(626) 568-6852 Direct Line
(626) 568-6515 FAX

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"Michele Chamberlin"
<mchamberlin@testamericainc.com>

07/20/2006 03:14 PM

To: "Eric Walker" <Eric.Walker@us.mwhglobal.com>
cc: "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai" <Eric.S.Tsai@us.mwhglobal.com>
Subject: Sample Temp for 7/18/06 R2A Pond Pilot Test

7/29/2006

In

Hi Eric,

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks.

Michele



July 27, 2006

Alta Project I.D.: 27892

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1387". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27892-001

IPG1387-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | |
|---------------------|--------------|-----------------|-------------------|---------------------|---|-----------------------|----------------------|------------|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-MB001 | | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000132 | | | IS 13C-2,3,7,8-TCDD | 73.0 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000145 | | | 13C-1,2,3,7,8-PeCDD | 70.0 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000396 | | | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,6,7,8-HxCDD | 66.5 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,4,6,7,8-HpCDD | 66.3 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000206 | | | 13C-OCDD | 49.4 | 17 - 157 | |
| OCDD | ND | | 0.00000597 | | 13C-2,3,7,8-TCDF | 69.1 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDF | 68.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000124 | | | 13C-2,3,4,7,8-PeCDF | 69.7 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000115 | | | 13C-1,2,3,4,7,8-HxCDF | 73.6 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000781 | | | 13C-1,2,3,6,7,8-HxCDF | 74.2 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000644 | | | 13C-2,3,4,6,7,8-HxCDF | 71.0 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000784 | | | 13C-1,2,3,7,8,9-HxCDF | 58.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000137 | | | 13C-1,2,3,4,6,7,8-HpCDF | 64.2 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000129 | | | 13C-OCDF | 45.8 | 17 - 157 | |
| OCDF | ND | 0.00000345 | | | CRS 37Cl-2,3,7,8-TCDD | 78.8 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000132 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000145 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | 0.00000238 | | | c. Method detection limit. | | | |
| Total HpCDD | ND | 0.00000206 | | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000171 | | | | | | |
| Total PeCDF | ND | 0.00000120 | | | | | | |
| Total HxCDF | ND | 0.000000895 | | | | | | |
| Total HpCDF | ND | 0.00000123 | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 14:58

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.1 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 66.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 49.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 69.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 51.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 49.7 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 64.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 51.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 66.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 52.2 | 35 - 70 | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 100 | 101 | 78 - 144 | 13C-2,3,7,8-TCDF | 62.3 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 51.5 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 65.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.3 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 76.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.4 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.9 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 71.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 54.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.2 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.4 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 60.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.4 | 39 - 69 | 13C-OCDF | 37.8 | 17 - 157 | |
| OCDF | 100 | 102 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 74.5 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 14:58

| Sample ID: IPG1387-01 | | | | | EPA Method 1613 | | | |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27892-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1387 | | Sample Size: | 1.01 L | QC Batch No.: | 8205 | Date Extracted: | 21-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 25-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1330 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000143 | | | IS 13C-2,3,7,8-TCDD | 59.6 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000175 | | | 13C-1,2,3,7,8-PeCDD | 53.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000601 | | | 13C-1,2,3,4,7,8-HxCDD | 51.5 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000238 | | | 13C-1,2,3,6,7,8-HxCDD | 49.5 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000237 | | | 13C-1,2,3,4,6,7,8-HpCDD | 45.2 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 0.0000169 | | | J | 13C-OCDD | 28.3 | 17 - 157 | |
| OCDD | 0.000152 | | | | 13C-2,3,7,8-TCDF | 58.9 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000184 | | | 13C-1,2,3,7,8-PeCDF | 52.7 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000158 | | | 13C-2,3,4,7,8-PeCDF | 54.9 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000147 | | | 13C-1,2,3,4,7,8-HxCDF | 56.2 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000928 | | | 13C-1,2,3,6,7,8-HxCDF | 55.1 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000868 | | | 13C-2,3,4,6,7,8-HxCDF | 50.5 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000103 | | | 13C-1,2,3,7,8,9-HxCDF | 43.5 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000171 | | | 13C-1,2,3,4,6,7,8-HpCDF | 41.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000172 | | | 13C-1,2,3,4,7,8,9-HpCDF | 44.2 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000177 | | | 13C-OCDF | 27.3 | 17 - 157 | |
| OCDF | ND | 0.00000569 | | | CRS 37Cl-2,3,7,8-TCDD | 79.9 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000143 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | 0.00000752 | | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | 0.00000901 | | | | c. Method detection limit. | | | |
| Total HpCDD | 0.0000352 | | | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000184 | | | | | | |
| Total PeCDF | ND | 0.00000152 | | | | | | |
| Total HxCDF | ND | 0.00000113 | | | | | | |
| Total HpCDF | 0.00000391 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 28-Jul-2006 11:28

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPG1387

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Alta Analytical - SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone: (916) 933-1640
Fax: (916) 673-0106

27892
OC

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

| Analysis | Expiration | Comments |
|-------------------------------|---------------------------|---|
| Sample ID: IPG1387-01 Water | Sampled: 07/18/06 13:30 | |
| 1613-Dioxin-HR-Alta | 07/25/06 13:30 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta |
| Level 4 + EDD, OUT | 08/15/06 13:30 | Excl EDD email to pm, Include Std logs for Lvl IV |

Containers Supplied:
1 L Amber (IPG1387-01N)
1 L Amber (IPG1387-01O)

BOEING EDD MC 7/20/06

SAMPLE INTEGRITY:

All containers intact: Yes No
 Custody Seals Present: Yes No
 Sample labels/COC agree: Yes No
 Samples Preserved Properly: Yes No
 Samples Received On Ice: Yes No
 Samples Received at (temp): _____

Released By: _____ Date: _____ Time: _____
 Received By: *Bethina J. Benedict* Date: 7/20/06 Time: 0925

Released By: Project 27892 Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27892

| | | | |
|------------------|---|-----------------------------------|---|
| Samples Arrival: | Date/Time 7/20/06 0925 | Initials: PBB | Location: WR-2 |
| | | | Shelf/Rack: _____ |
| Logged In: | Date/Time 7/20/06 1234 | Initials: PBB | Location: WR-2 |
| | | | Shelf/Rack: C-4 |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | | <input type="checkbox"/> DHL | <input type="checkbox"/> Hand Delivered |
| | <input type="checkbox"/> Other | | |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | | <input type="checkbox"/> None | |
| Temp °C | 0°C | Time: 0955 | Thermometer ID: DT-20 |

DT-14PBB

| | YES | NO | NA |
|--|------|--|--|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # 7927 99970554 | | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| COC | | | |
| Sample Container | | | |
| Shipping Container | Alta | <input checked="" type="checkbox"/> Client | Retain |
| | | | <input checked="" type="checkbox"/> Return |
| | | | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/30/06 17:53

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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: Enclosed are complete final results.

LABORATORY ID
IPG1390-01

CLIENT ID
S-DUP-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G19073 | 0.0088 | 0.040 | 0.18 | 1 | 07/19/06 | 07/21/06 | |
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G19076 | 0.18 | 2.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Arsenic | EPA 200.7 | 6G19073 | 3.8 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Beryllium | EPA 200.7 | 6G19073 | 0.62 | 2.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Cadmium | EPA 200.8 | 6G19076 | 0.015 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7 | 6G19073 | 0.68 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Copper | EPA 200.8 | 6G19076 | 0.49 | 2.0 | 0.76 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8 | 6G19076 | 0.13 | 1.0 | 0.29 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G19073 | 3.2 | 20 | 29 | 1 | 07/19/06 | 07/21/06 | |
| Mercury | EPA 245.1 | 6G19085 | 0.063 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7 | 6G19073 | 2.0 | 10 | 2.1 | 1 | 07/19/06 | 07/21/06 | J |
| Selenium | EPA 200.8 | 6G19076 | 0.36 | 2.0 | 0.68 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8 | 6G19076 | 0.089 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8 | 6G19076 | 0.075 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7 | 6G19073 | 3.7 | 20 | ND | 1 | 07/19/06 | 07/21/06 | |

TestAmerica - Irvine, CA
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 Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G18141 | 0.015 | 0.040 | 0.028 | 1 | 07/18/06 | 07/21/06 | J |
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G19078 | 0.050 | 2.0 | 0.11 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7-Diss | 6G18141 | 4.4 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Beryllium | EPA 200.7-Diss | 6G18141 | 0.90 | 2.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Cadmium | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7-Diss | 6G18141 | 2.0 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Copper | EPA 200.8-Diss | 6G19078 | 0.25 | 2.0 | 0.61 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8-Diss | 6G19078 | 0.040 | 1.0 | 0.051 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7-Diss | 6G18141 | 7.0 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |
| Mercury | EPA 245.1-Diss | 6G19086 | 0.15 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7-Diss | 6G18141 | 2.0 | 10 | ND | 1 | 07/18/06 | 07/21/06 | |
| Selenium | EPA 200.8-Diss | 6G19078 | 0.30 | 2.0 | 0.30 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8-Diss | 6G19078 | 0.15 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G18141 | 15 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 0.99 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G24106 | 0.43 | 0.50 | 2.8 | 1 | 07/24/06 | 07/24/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G24062 | 2.0 | 2.0 | 170 | 1 | 07/24/06 | 07/24/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 0.84 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G19073 | 1.0 | 1.0 | 200 | 1 | 07/19/06 | 07/21/06 | |
| Nitrate-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | 0.086 | 1 | 07/18/06 | 07/19/06 | J |
| Nitrite-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18116 | 0.072 | 0.26 | 0.086 | 1 | 07/18/06 | 07/19/06 | J |
| Oil & Grease | EPA 413.1 | 6G21001 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G18116 | 1.8 | 5.0 | 71 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19075 | 10 | 10 | 360 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G21108 | 0.50 | 1.0 | 11 | 1 | 07/21/06 | 07/21/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21118 | 10 | 10 | ND | 1 | 07/21/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19091 | 0.040 | 1.0 | 3.2 | 1 | 07/19/06 | 07/19/06 | |

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Report Number: IPG1390

Sampled: 07/18/06
Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.75 | 1 | 07/19/06 | 07/19/06 | |

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 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1390-01 (S-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 620 | 1 | 07/19/06 | 07/19/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1390

Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: S-DUP-EFF (IPG1390-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/18/2006 12:40 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 12:40 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 12:40 | 07/18/2006 17:25 | 07/18/2006 22:00 | 07/19/2006 06:32 |

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 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 3.8 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G19073-BS1) | | | | | | | | | | | |
| Arsenic | 500 | 5.0 | 3.8 | ug/l | 500 | | 100 | 85-115 | | | |
| Beryllium | 507 | 2.0 | 0.62 | ug/l | 500 | | 101 | 85-115 | | | |
| Calcium | 2.45 | 0.10 | N/A | mg/l | 2.50 | | 98 | 85-115 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | | 100 | 85-115 | | | |
| Iron | 0.505 | 0.040 | 0.0088 | mg/l | 0.500 | | 101 | 85-115 | | | |
| Magnesium | 2.50 | 0.020 | N/A | mg/l | 2.50 | | 100 | 85-115 | | | |
| Manganese | 499 | 20 | 3.2 | ug/l | 500 | | 100 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 490 | 20 | 3.7 | ug/l | 500 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 518 | 5.0 | 3.8 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Calcium | 57.5 | 0.10 | N/A | mg/l | 2.50 | 54 | 140 | 70-130 | | | M-HA |
| Chromium | 493 | 5.0 | 0.68 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.688 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 523 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Zinc | 502 | 20 | 3.7 | ug/l | 500 | ND | 100 | 70-130 | | | |

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 Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Arsenic | 516 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Beryllium | 513 | 2.0 | 0.62 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Calcium | 57.9 | 0.10 | N/A | mg/l | 2.50 | 55 | 116 | 70-130 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | 0.69 | 100 | 70-130 | | | |
| Iron | 0.970 | 0.040 | 0.0088 | mg/l | 0.500 | 0.46 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 560 | 20 | 3.2 | ug/l | 500 | 70 | 98 | 70-130 | | | |
| Nickel | 493 | 10 | 2.0 | ug/l | 500 | 2.2 | 98 | 70-130 | | | |
| Zinc | 509 | 20 | 3.7 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G19073-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 513 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | 1 | 20 | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | 0 | 20 | |
| Calcium | 57.8 | 0.10 | N/A | mg/l | 2.50 | 54 | 152 | 70-130 | 1 | 20 | M-HA |
| Chromium | 498 | 5.0 | 0.68 | ug/l | 500 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 0.677 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 99 | 70-130 | 2 | 20 | |
| Magnesium | 17.5 | 0.020 | N/A | mg/l | 2.50 | 15 | 100 | 70-130 | 1 | 20 | |
| Manganese | 524 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | 0 | 20 | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 1 | 20 | |
| Zinc | 494 | 20 | 3.7 | ug/l | 500 | ND | 99 | 70-130 | 2 | 20 | |
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006-07/20/2006 (6G19076-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.18 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.015 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.49 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.13 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.36 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.089 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.075 | ug/l | | | | | | | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19076-BS1) | | | | | | | | | | | |
| Antimony | 82.8 | 2.0 | 0.18 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 86.5 | 1.0 | 0.015 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Copper | 80.7 | 2.0 | 0.49 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Lead | 82.5 | 1.0 | 0.13 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 87.8 | 2.0 | 0.36 | ug/l | 80.0 | | 110 | 85-115 | | | |
| Silver | 83.9 | 1.0 | 0.089 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 86.6 | 1.0 | 0.075 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS1) | | | | | | Source: IPG1381-01 | | | | | |
| Antimony | 83.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 103 | 70-130 | | | |
| Cadmium | 84.7 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 78.7 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 97 | 70-130 | | | |
| Lead | 80.7 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Selenium | 85.7 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 106 | 70-130 | | | |
| Silver | 82.2 | 1.0 | 0.089 | ug/l | 80.0 | ND | 103 | 70-130 | | | |
| Thallium | 85.6 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 107 | 70-130 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Antimony | 84.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.18 | 105 | 70-130 | | | |
| Cadmium | 84.8 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 79.3 | 2.0 | 0.49 | ug/l | 80.0 | 1.1 | 98 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.13 | ug/l | 80.0 | 0.53 | 101 | 70-130 | | | |
| Selenium | 85.8 | 2.0 | 0.36 | ug/l | 80.0 | 0.38 | 107 | 70-130 | | | |
| Silver | 81.5 | 1.0 | 0.089 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 85.4 | 1.0 | 0.075 | ug/l | 80.0 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19076-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Antimony | 83.8 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 104 | 70-130 | 1 | 20 | |
| Cadmium | 84.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 105 | 70-130 | 1 | 20 | |
| Copper | 79.2 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 98 | 70-130 | 1 | 20 | |
| Lead | 80.2 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | 1 | 20 | |
| Selenium | 86.2 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 107 | 70-130 | 1 | 20 | |
| Silver | 79.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 84.7 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 106 | 70-130 | 1 | 20 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19085 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19085-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19085-BS1) | | | | | | | | | | | |
| Mercury | 8.53 | 0.20 | 0.063 | ug/l | 8.00 | | 107 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19085-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.75 | 0.20 | 0.063 | ug/l | 8.00 | ND | 109 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19085-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.62 | 0.20 | 0.063 | ug/l | 8.00 | ND | 108 | 70-130 | 1 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1390

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Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18141 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G18141-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G18141-BS1) | | | | | | | | | | | |
| Arsenic | 1030 | 5.0 | 4.4 | ug/l | 1000 | | 103 | 85-115 | | | |
| Beryllium | 1030 | 2.0 | 0.90 | ug/l | 1000 | | 103 | 85-115 | | | |
| Chromium | 1030 | 5.0 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G18141-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | | | |
| Beryllium | 1050 | 2.0 | 0.90 | ug/l | 1000 | ND | 105 | 70-130 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G18141-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | 0 | 20 | |
| Beryllium | 1060 | 2.0 | 0.90 | ug/l | 1000 | ND | 106 | 70-130 | 1 | 20 | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | 0 | 20 | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | 0 | 20 | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | 0 | 20 | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | 0 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1390

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19078 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19078-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19078-BS1) | | | | | | | | | | | |
| Antimony | 81.5 | 2.0 | 0.050 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Cadmium | 85.5 | 1.0 | 0.025 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Copper | 79.9 | 2.0 | 0.25 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Lead | 81.8 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 85.9 | 2.0 | 0.30 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Silver | 89.0 | 1.0 | 0.025 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Thallium | 86.7 | 1.0 | 0.15 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19078-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 104 | 70-130 | | | |
| Cadmium | 84.9 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | | | |
| Copper | 83.6 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 104 | 70-130 | | | |
| Lead | 81.2 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 101 | 70-130 | | | |
| Selenium | 86.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 107 | 70-130 | | | |
| Silver | 86.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Thallium | 86.1 | 1.0 | 0.15 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19078-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 82.4 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 103 | 70-130 | 2 | 20 | |
| Cadmium | 83.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 104 | 70-130 | 2 | 20 | |
| Copper | 77.3 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 96 | 70-130 | 8 | 20 | |
| Lead | 79.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 99 | 70-130 | 2 | 20 | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 103 | 70-130 | 4 | 20 | |
| Silver | 85.1 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |
| Thallium | 84.6 | 1.0 | 0.15 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19086 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19086-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19086-BS1) | | | | | | | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19086-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.44 | 0.20 | 0.15 | ug/l | 8.00 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19086-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.59 | 0.20 | 0.15 | ug/l | 8.00 | ND | 107 | 70-130 | 2 | 20 | |

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 Report Number: IPG1390

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18116 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18116-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18116-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.12 | 0.15 | 0.080 | mg/l | 1.13 | | 99 | 90-110 | | | |
| Nitrite-N | 1.45 | 0.15 | 0.080 | mg/l | 1.52 | | 95 | 90-110 | | | |
| Sulfate | 9.53 | 0.50 | 0.18 | mg/l | 10.0 | | 95 | 90-110 | | | |
| Matrix Spike Analyzed: 07/18/2006 (6G18116-MS1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.3 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | | | |
| Nitrite-N | 19.4 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | | | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18116-MSD1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.4 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | 1 | 20 | |
| Nitrite-N | 19.5 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | 1 | 20 | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | 0 | 20 | |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) Source: IPG1381-01 | | | | | | | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | 620 | | | 1 | 5 | |
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19075 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19075-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19075-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19075-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 207 | 10 | 10 | mg/l | | Source: IPG1345-10 210 | | | 1 | 10 | |
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | | | | | | |
| pH | 7.24 | NA | N/A | pH Units | | Source: IPG1353-01 7.22 | | | 0 | 5 | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | | | | | | |
| pH | 7.93 | NA | N/A | pH Units | | Source: IPG1387-01 7.91 | | | 0 | 5 | |
| Batch: 6G19091 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19091-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19091-DUP1) | | | | | | | | | | | |
| Turbidity | 3.36 | 1.0 | 0.040 | NTU | | Source: IPG1381-01 3.3 | | | 2 | 20 | |
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | Source: IPG0469-03 1.0 | | | 2 | 20 | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| Batch: 6G21001 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21001-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21001-BS1) | | | | | | | | | | | |
| Oil & Grease | 19.1 | 5.0 | 0.94 | mg/l | 20.0 | | 96 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21001-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.7 | 5.0 | 0.94 | mg/l | 20.0 | | 94 | 65-120 | 2 | 20 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21108 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21108-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21108-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 11.0 | 1.0 | 0.25 | mg/l | 10.0 | | 110 | 90-110 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21108-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.69 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21108-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.67 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | 0 | 20 | |
| Batch: 6G21118 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21118-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21118-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 970 | 10 | 10 | mg/l | 1000 | | 97 | 85-115 | | | |
| Duplicate Analyzed: 07/21/2006 (6G21118-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1363-04 | | | | | |
| Total Suspended Solids | 96.0 | 10 | 10 | mg/l | | 100 | | | 4 | 10 | |
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/24/2006 (6G24062-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1738-01 | | | | | |
| Alkalinity as CaCO3 | 180 | 2.0 | 2.0 | mg/l | | 180 | | | 0 | 20 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Reference Analyzed: 07/24/2006 (6G24062-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |
| Batch: 6G24106 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24106-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24106-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.6 | 0.50 | 0.43 | mg/l | 20.0 | | 98 | 85-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1387-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 1.1 | 95 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1387-01 | | | | | |
| Total Kjeldahl Nitrogen | 11.2 | 0.50 | 0.43 | mg/l | 10.0 | 1.1 | 101 | 85-120 | 6 | 15 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1390

Sampled: 07/18/06
Received: 07/18/06

DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1390

Sampled: 07/18/06
 Received: 07/18/06

Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1390-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

IPG 1390

CHAIN OF CUSTODY FORM

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

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

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

Sampler: *Barn*

| Sample Description | Sample Matrix | Container Type | # of Cont. | Preservative | Bottle # |
|--------------------|---------------|----------------|------------|--------------|----------|
| S-DUP-EFF | W | Poly-1L | 1 | HNO3 | 1 |
| S-DUP-EFF | W | Poly-1L | 1 | None | 2 |
| S-DUP-EFF | W | VOAs | 2 | HCl | 3A, 3B |
| S-DUP-EFF | W | 1L Amber | 2 | HCl | 4A, 4B |
| S-DUP-EFF | W | Poly-500 ml | 1 | H2SO4 | 5 |
| S-DUP-EFF | W | Poly-500 ml | 1 | None | 6 |
| S-DUP-EFF | W | Poly-500 ml | 2 | None | 7A, 7B |
| S-DUP-EFF | W | Poly-500 ml | 1 | H2SO4 | 8 |
| S-DUP-EFF | W | Poly-1L | 1 | None | 9 |
| S-DUP-EFF | W | 1L Amber | 2 | None | 10A, 10B |

| ANALYSIS REQUIRED | | Field readings: | |
|---|-------------------------------------|-----------------|---|
| Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn, Hardness | <input checked="" type="checkbox"/> | Temp = pH = | |
| Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | <input checked="" type="checkbox"/> | | |
| Total Organic Carbon | <input checked="" type="checkbox"/> | | |
| Oil & Grease (EPA 413.1) | <input checked="" type="checkbox"/> | | |
| Total Kjeldahl Nitrogen | <input checked="" type="checkbox"/> | | |
| SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | <input checked="" type="checkbox"/> | | |
| Turbidity, TSS, Conductivity | <input checked="" type="checkbox"/> | | |
| Ammonia-N (NH3-N) | <input checked="" type="checkbox"/> | | |
| Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn | <input checked="" type="checkbox"/> | | |
| TCDD (and all congeners) | <input checked="" type="checkbox"/> | | |
| | | | Comments <i>Temp 7/18/06 MCL 100</i> |
| | | | |
| | | | |

INDUOUS

Relinquished By: *Barn* Date/Time: 7/18/06 1420
Received By: *W. L.* Date/Time: 7-18-06 1420

Relinquished By: *W. L.* Date/Time: 7-18-06 1725
Received By: *Plompher* Date/Time: 7-18-06 1725

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

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

Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____

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

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric,
 Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
 Thanks,
 Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/05 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks,

Eric Walker
 MWH Americas, Inc.
 300 North Lake Avenue, Suite 1200
 Pasadena, California 91101
 (626) 786-0093 Mobile
 (626) 568-6852 Direct Line
 (626) 568-6515 FAX

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"Michele Chamberlin"
 <mchamberlin@testamericainc.com>

To "Eric Walker" <Eric.Walker@us.mwhglobal.com>
 cc "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai"
 <Eric.S.Tsai@us.mwhglobal.com>
 Subject Sample Temp for 7/18/06 R2A Pond Pilot Test

07/20/2006 03:14 PM

7/20/2006

Hi Eric,

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks,

Michele



July 28, 2006

Alta Project I.D.: 27887

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

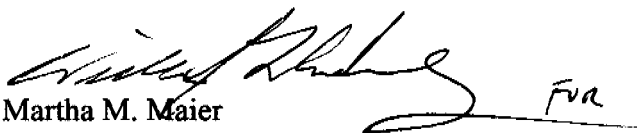
Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1390". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,


Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27887-001

IPG1390-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000132 | | | IS 13C-2,3,7,8-TCDD | 73.0 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000145 | | | 13C-1,2,3,7,8-PeCDD | 70.0 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000396 | | | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,6,7,8-HxCDD | 66.5 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,4,6,7,8-HpCDD | 66.3 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000206 | | | 13C-OCDD | 49.4 | 17 - 157 | | |
| OCDD | ND | | 0.00000597 | | 13C-2,3,7,8-TCDF | 69.1 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDF | 68.8 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000124 | | | 13C-2,3,4,7,8-PeCDF | 69.7 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000115 | | | 13C-1,2,3,4,7,8-HxCDF | 73.6 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000781 | | | 13C-1,2,3,6,7,8-HxCDF | 74.2 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000644 | | | 13C-2,3,4,6,7,8-HxCDF | 71.0 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000784 | | | 13C-1,2,3,7,8,9-HxCDF | 58.3 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000137 | | | 13C-1,2,3,4,6,7,8-HpCDF | 64.2 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000129 | | | 13C-OCDF | 45.8 | 17 - 157 | | |
| OCDF | ND | 0.00000345 | | | CRS 37Cl-2,3,7,8-TCDD | 78.8 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000132 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000145 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000238 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000206 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000171 | | | | | | | |
| Total PeCDF | ND | 0.00000120 | | | | | | | |
| Total HxCDF | ND | 0.000000895 | | | | | | | |
| Total HpCDF | ND | 0.00000123 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:18

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.1 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 66.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 49.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 69.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 51.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 49.7 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 64.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 51.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 66.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 52.2 | 35 - 70 | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 100 | 101 | 78 - 144 | 13C-2,3,7,8-TCDF | 62.3 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 51.5 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 65.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.3 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 76.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.4 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.9 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 71.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 54.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.2 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.4 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 60.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.4 | 39 - 69 | 13C-OCDF | 37.8 | 17 - 157 | |
| OCDF | 100 | 102 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 74.5 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:18

| Sample ID: IPG1390-01 | | | | | EPA Method 1613 | | | |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27887-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1390 | | Sample Size: | 1.03 L | QC Batch No.: | 8205 | Date Extracted: | 21-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 25-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1240 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000158 | | | IS 13C-2,3,7,8-TCDD | 61.4 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000201 | | | 13C-1,2,3,7,8-PeCDD | 56.6 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000431 | | | 13C-1,2,3,4,7,8-HxCDD | 55.1 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000222 | | | 13C-1,2,3,6,7,8-HxCDD | 53.3 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000224 | | | 13C-1,2,3,4,6,7,8-HpCDD | 51.0 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | | 0.0000101 | | 13C-OCDD | 35.4 | 17 - 157 | |
| OCDD | 0.000114 | | | | 13C-2,3,7,8-TCDF | 56.5 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000235 | | | 13C-1,2,3,7,8-PeCDF | 55.2 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000167 | | | 13C-2,3,4,7,8-PeCDF | 55.4 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000148 | | | 13C-1,2,3,4,7,8-HxCDF | 60.1 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000128 | | | 13C-1,2,3,6,7,8-HxCDF | 57.6 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000120 | | | 13C-2,3,4,6,7,8-HxCDF | 56.6 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000132 | | | 13C-1,2,3,7,8,9-HxCDF | 48.4 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000223 | | | 13C-1,2,3,4,6,7,8-HpCDF | 51.1 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000220 | | | 13C-1,2,3,4,7,8,9-HpCDF | 49.3 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000251 | | | 13C-OCDF | 34.6 | 17 - 157 | |
| OCDF | ND | 0.00000418 | | | CRS 37Cl-2,3,7,8-TCDD | 83.4 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000158 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | | 0.00000325 | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | 0.00000292 | | | c. Method detection limit. | | | |
| Total HpCDD | 0.0000123 | | 0.0000225 | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000235 | | | | | | |
| Total PeCDF | ND | 0.00000158 | | | | | | |
| Total HxCDF | ND | 0.00000151 | | | | | | |
| Total HpCDF | ND | 0.00000236 | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:18

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPG1390

SENDING LABORATORY:
 TestAmerica - Irvine, CA
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 261-1228
 Project Manager: Michele Chamberlin

RECEIVING LABORATORY:
 Alta Analytical - SUB
 1104 Windfield Way
 El Dorado Hills, CA 95762
 Phone: (916) 933-1640
 Fax: (916) 675-0106

27887 0.4°C

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

| Analysis | Expiration | Comments |
|------------------------------|---------------------------|---|
| Sample ID: IPG1390-01 Water | Sampled: 07/18/06 12:40 | |
| 1613-Dioxin-HR-Alta | 07/25/06 12:40 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta |
| Level 4 + EDD-OUT | 08/15/06 12:40 | Excel EDD email to pm, include Std logs for J v1. IV / |

Containers Supplied:
 1 L Amber (IPG1390-01N)
 1 L Amber (IPG1390-01O)

*Boeing EDD
MC 7/20/06*

SAMPLE INTEGRITY:

| | | |
|---|--|---|
| All containers intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | Sample labels/COC agree: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Custody Seals Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Preserved Properly: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received at (temp): _____ |

Released By: _____ Date: _____ Time: _____ Received By: *Bettina D. Benedict* Date: *7/20/06* Time: *0905*

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27887

| | | | |
|----------------------|---|---|---|
| Samples Arrival: | Date/Time <u>7/20/06 0925</u> | Initials: <u>UBSB</u> | Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u> |
| Logged In: | Date/Time <u>7/20/06 1115</u> | Initials: <u>FEB</u> | Location: <u>WR-2</u> Shelf/Rack: <u>C-5</u> |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | <input type="checkbox"/> Hand Delivered | <input type="checkbox"/> DHL | <input type="checkbox"/> Other |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | <input type="checkbox"/> None | | |
| Temp °C <u>0.4°C</u> | Time: <u>0925 1025</u> <u>UBSB</u> | Thermometer ID: <u>DT-20</u> <u>UBSB</u> <u>DT-1</u> | |

| | YES | NO | NA |
|--|------|--|--|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # <u>7915 0101 2280</u> | | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | | ✓ |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| Shipping Container | Alta | <input checked="" type="checkbox"/> Client | <input checked="" type="checkbox"/> Return |
| | | Retain | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/30/06 17:57

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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: Enclosed are complete final results.

LABORATORY ID
IPG1394-01

CLIENT ID
PM-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1394-01 (PM-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G19073 | 0.0088 | 0.040 | 0.12 | 1 | 07/19/06 | 07/21/06 | |
| Sample ID: IPG1394-01 (PM-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G19076 | 0.18 | 2.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Arsenic | EPA 200.7 | 6G19073 | 3.8 | 5.0 | 5.3 | 1 | 07/19/06 | 07/21/06 | |
| Beryllium | EPA 200.7 | 6G19073 | 0.62 | 2.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Cadmium | EPA 200.8 | 6G19076 | 0.015 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7 | 6G19073 | 0.68 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Copper | EPA 200.8 | 6G19076 | 0.49 | 2.0 | 0.69 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8 | 6G19076 | 0.13 | 1.0 | 0.21 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G19073 | 3.2 | 20 | 30 | 1 | 07/19/06 | 07/21/06 | |
| Mercury | EPA 245.1 | 6G19085 | 0.063 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7 | 6G19073 | 2.0 | 10 | ND | 1 | 07/19/06 | 07/21/06 | |
| Selenium | EPA 200.8 | 6G19076 | 0.36 | 2.0 | 0.50 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8 | 6G19076 | 0.089 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8 | 6G19076 | 0.075 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7 | 6G19073 | 3.7 | 20 | ND | 1 | 07/19/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1394-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G18141 | 0.015 | 0.040 | 0.028 | 1 | 07/18/06 | 07/21/06 | J |
| Sample ID: IPG1394-01 (PM-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G19078 | 0.050 | 2.0 | 0.091 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7-Diss | 6G18141 | 4.4 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Beryllium | EPA 200.7-Diss | 6G18141 | 0.90 | 2.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Cadmium | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7-Diss | 6G18141 | 2.0 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Copper | EPA 200.8-Diss | 6G19078 | 0.25 | 2.0 | 0.65 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8-Diss | 6G19078 | 0.040 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Manganese | EPA 200.7-Diss | 6G18141 | 7.0 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |
| Mercury | EPA 245.1-Diss | 6G19086 | 0.15 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7-Diss | 6G18141 | 2.0 | 10 | ND | 1 | 07/18/06 | 07/21/06 | |
| Selenium | EPA 200.8-Diss | 6G19078 | 0.30 | 2.0 | 0.41 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8-Diss | 6G19078 | 0.15 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G18141 | 15 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1394-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 1.0 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1394-01 (PM-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G24106 | 0.43 | 0.50 | 2.5 | 1 | 07/24/06 | 07/24/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G24062 | 2.0 | 2.0 | 170 | 1 | 07/24/06 | 07/24/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 0.56 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G19073 | 1.0 | 1.0 | 190 | 1 | 07/19/06 | 07/21/06 | |
| Nitrate-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | 0.084 | 1 | 07/18/06 | 07/19/06 | J |
| Nitrite-N | EPA 300.0 | 6G18116 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18116 | 0.072 | 0.26 | 0.084 | 1 | 07/18/06 | 07/19/06 | J |
| Oil & Grease | EPA 413.1 | 6G21001 | 0.91 | 4.9 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G18116 | 1.8 | 5.0 | 72 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19075 | 10 | 10 | 360 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G21108 | 0.50 | 1.0 | 13 | 1 | 07/21/06 | 07/21/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21118 | 10 | 10 | ND | 1 | 07/21/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1394-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19091 | 0.040 | 1.0 | 2.3 | 1 | 07/19/06 | 07/19/06 | |

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 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1394-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.60 | 1 | 07/19/06 | 07/19/06 | |

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Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1394-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 620 | 1 | 07/19/06 | 07/19/06 | |

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Report Number: IPG1394

Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| Sample ID: PM-EFF (IPG1394-01) - Water | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1 | 1 | 07/18/2006 13:00 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 13:00 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 13:00 | 07/18/2006 17:25 | 07/18/2006 22:00 | 07/19/2006 07:21 |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 3.8 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G19073-BS1) | | | | | | | | | | | |
| Arsenic | 500 | 5.0 | 3.8 | ug/l | 500 | | 100 | 85-115 | | | |
| Beryllium | 507 | 2.0 | 0.62 | ug/l | 500 | | 101 | 85-115 | | | |
| Calcium | 2.45 | 0.10 | N/A | mg/l | 2.50 | | 98 | 85-115 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | | 100 | 85-115 | | | |
| Iron | 0.505 | 0.040 | 0.0088 | mg/l | 0.500 | | 101 | 85-115 | | | |
| Magnesium | 2.50 | 0.020 | N/A | mg/l | 2.50 | | 100 | 85-115 | | | |
| Manganese | 499 | 20 | 3.2 | ug/l | 500 | | 100 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 490 | 20 | 3.7 | ug/l | 500 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 518 | 5.0 | 3.8 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Calcium | 57.5 | 0.10 | N/A | mg/l | 2.50 | 54 | 140 | 70-130 | | | M-HA |
| Chromium | 493 | 5.0 | 0.68 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.688 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 523 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Zinc | 502 | 20 | 3.7 | ug/l | 500 | ND | 100 | 70-130 | | | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Arsenic | 516 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Beryllium | 513 | 2.0 | 0.62 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Calcium | 57.9 | 0.10 | N/A | mg/l | 2.50 | 55 | 116 | 70-130 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | 0.69 | 100 | 70-130 | | | |
| Iron | 0.970 | 0.040 | 0.0088 | mg/l | 0.500 | 0.46 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 560 | 20 | 3.2 | ug/l | 500 | 70 | 98 | 70-130 | | | |
| Nickel | 493 | 10 | 2.0 | ug/l | 500 | 2.2 | 98 | 70-130 | | | |
| Zinc | 509 | 20 | 3.7 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G19073-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 513 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | 1 | 20 | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | 0 | 20 | |
| Calcium | 57.8 | 0.10 | N/A | mg/l | 2.50 | 54 | 152 | 70-130 | 1 | 20 | M-HA |
| Chromium | 498 | 5.0 | 0.68 | ug/l | 500 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 0.677 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 99 | 70-130 | 2 | 20 | |
| Magnesium | 17.5 | 0.020 | N/A | mg/l | 2.50 | 15 | 100 | 70-130 | 1 | 20 | |
| Manganese | 524 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | 0 | 20 | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 1 | 20 | |
| Zinc | 494 | 20 | 3.7 | ug/l | 500 | ND | 99 | 70-130 | 2 | 20 | |
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006-07/20/2006 (6G19076-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.18 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.015 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.49 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.13 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.36 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.089 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.075 | ug/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19076-BS1) | | | | | | | | | | | |
| Antimony | 82.8 | 2.0 | 0.18 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 86.5 | 1.0 | 0.015 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Copper | 80.7 | 2.0 | 0.49 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Lead | 82.5 | 1.0 | 0.13 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 87.8 | 2.0 | 0.36 | ug/l | 80.0 | | 110 | 85-115 | | | |
| Silver | 83.9 | 1.0 | 0.089 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 86.6 | 1.0 | 0.075 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS1) | | | | | | Source: IPG1381-01 | | | | | |
| Antimony | 83.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 103 | 70-130 | | | |
| Cadmium | 84.7 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 78.7 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 97 | 70-130 | | | |
| Lead | 80.7 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Selenium | 85.7 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 106 | 70-130 | | | |
| Silver | 82.2 | 1.0 | 0.089 | ug/l | 80.0 | ND | 103 | 70-130 | | | |
| Thallium | 85.6 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 107 | 70-130 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Antimony | 84.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.18 | 105 | 70-130 | | | |
| Cadmium | 84.8 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 79.3 | 2.0 | 0.49 | ug/l | 80.0 | 1.1 | 98 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.13 | ug/l | 80.0 | 0.53 | 101 | 70-130 | | | |
| Selenium | 85.8 | 2.0 | 0.36 | ug/l | 80.0 | 0.38 | 107 | 70-130 | | | |
| Silver | 81.5 | 1.0 | 0.089 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 85.4 | 1.0 | 0.075 | ug/l | 80.0 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19076-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Antimony | 83.8 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 104 | 70-130 | 1 | 20 | |
| Cadmium | 84.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 105 | 70-130 | 1 | 20 | |
| Copper | 79.2 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 98 | 70-130 | 1 | 20 | |
| Lead | 80.2 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | 1 | 20 | |
| Selenium | 86.2 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 107 | 70-130 | 1 | 20 | |
| Silver | 79.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 84.7 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 106 | 70-130 | 1 | 20 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19085 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19085-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19085-BS1) | | | | | | | | | | | |
| Mercury | 8.53 | 0.20 | 0.063 | ug/l | 8.00 | | 107 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19085-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.75 | 0.20 | 0.063 | ug/l | 8.00 | ND | 109 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19085-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.62 | 0.20 | 0.063 | ug/l | 8.00 | ND | 108 | 70-130 | 1 | 20 | |

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 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18141 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G18141-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G18141-BS1) | | | | | | | | | | | |
| Arsenic | 1030 | 5.0 | 4.4 | ug/l | 1000 | | 103 | 85-115 | | | |
| Beryllium | 1030 | 2.0 | 0.90 | ug/l | 1000 | | 103 | 85-115 | | | |
| Chromium | 1030 | 5.0 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G18141-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | | | |
| Beryllium | 1050 | 2.0 | 0.90 | ug/l | 1000 | ND | 105 | 70-130 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G18141-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | 0 | 20 | |
| Beryllium | 1060 | 2.0 | 0.90 | ug/l | 1000 | ND | 106 | 70-130 | 1 | 20 | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | 0 | 20 | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | 0 | 20 | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | 0 | 20 | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | 0 | 20 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19078 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19078-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19078-BS1) | | | | | | | | | | | |
| Antimony | 81.5 | 2.0 | 0.050 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Cadmium | 85.5 | 1.0 | 0.025 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Copper | 79.9 | 2.0 | 0.25 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Lead | 81.8 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 85.9 | 2.0 | 0.30 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Silver | 89.0 | 1.0 | 0.025 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Thallium | 86.7 | 1.0 | 0.15 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19078-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 104 | 70-130 | | | |
| Cadmium | 84.9 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | | | |
| Copper | 83.6 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 104 | 70-130 | | | |
| Lead | 81.2 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 101 | 70-130 | | | |
| Selenium | 86.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 107 | 70-130 | | | |
| Silver | 86.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Thallium | 86.1 | 1.0 | 0.15 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19078-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 82.4 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 103 | 70-130 | 2 | 20 | |
| Cadmium | 83.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 104 | 70-130 | 2 | 20 | |
| Copper | 77.3 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 96 | 70-130 | 8 | 20 | |
| Lead | 79.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 99 | 70-130 | 2 | 20 | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 103 | 70-130 | 4 | 20 | |
| Silver | 85.1 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |
| Thallium | 84.6 | 1.0 | 0.15 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19086 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19086-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19086-BS1) | | | | | | | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19086-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.44 | 0.20 | 0.15 | ug/l | 8.00 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19086-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.59 | 0.20 | 0.15 | ug/l | 8.00 | ND | 107 | 70-130 | 2 | 20 | |

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18116 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18116-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18116-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.12 | 0.15 | 0.080 | mg/l | 1.13 | | 99 | 90-110 | | | |
| Nitrite-N | 1.45 | 0.15 | 0.080 | mg/l | 1.52 | | 95 | 90-110 | | | |
| Sulfate | 9.53 | 0.50 | 0.18 | mg/l | 10.0 | | 95 | 90-110 | | | |
| Matrix Spike Analyzed: 07/18/2006 (6G18116-MS1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.3 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | | | |
| Nitrite-N | 19.4 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | | | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18116-MSD1) Source: IPG1363-01 | | | | | | | | | | | |
| Nitrate-N | 18.4 | 1.5 | 0.80 | mg/l | 11.3 | 7.5 | 96 | 80-120 | 1 | 20 | |
| Nitrite-N | 19.5 | 1.5 | 0.80 | mg/l | 15.2 | ND | 128 | 80-120 | 1 | 20 | MI |
| Sulfate | 314 | 5.0 | 1.8 | mg/l | 100 | 230 | 84 | 80-120 | 0 | 20 | |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) Source: IPG1381-01 | | | | | | | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | 620 | | | 1 | 5 | |
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19075 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19075-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19075-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19075-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 207 | 10 | 10 | mg/l | | Source: IPG1345-10 210 | | | 1 | 10 | |
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | | | | | | |
| pH | 7.24 | NA | N/A | pH Units | | Source: IPG1353-01 7.22 | | | 0 | 5 | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | | | | | | |
| pH | 7.93 | NA | N/A | pH Units | | Source: IPG1387-01 7.91 | | | 0 | 5 | |
| Batch: 6G19091 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19091-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19091-DUP1) | | | | | | | | | | | |
| Turbidity | 3.36 | 1.0 | 0.040 | NTU | | Source: IPG1381-01 3.3 | | | 2 | 20 | |
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | Source: IPG0469-03 1.0 | | | 2 | 20 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| Batch: 6G21001 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21001-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21001-BS1) | | | | | | | | | | | |
| Oil & Grease | 19.1 | 5.0 | 0.94 | mg/l | 20.0 | | 96 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21001-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.7 | 5.0 | 0.94 | mg/l | 20.0 | | 94 | 65-120 | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21108 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21108-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21108-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 11.0 | 1.0 | 0.25 | mg/l | 10.0 | | 110 | 90-110 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21108-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.69 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21108-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.67 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | 0 | 20 | |
| Batch: 6G21118 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21118-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21118-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 970 | 10 | 10 | mg/l | 1000 | | 97 | 85-115 | | | |
| Duplicate Analyzed: 07/21/2006 (6G21118-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1363-04 | | | | | |
| Total Suspended Solids | 96.0 | 10 | 10 | mg/l | | 100 | | | 4 | 10 | |
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/24/2006 (6G24062-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1738-01 | | | | | |
| Alkalinity as CaCO3 | 180 | 2.0 | 2.0 | mg/l | | 180 | | | 0 | 20 | |

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 Project Manager

MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Reference Analyzed: 07/24/2006 (6G24062-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |
| Batch: 6G24106 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24106-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24106-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.6 | 0.50 | 0.43 | mg/l | 20.0 | | 98 | 85-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1387-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 1.1 | 95 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1387-01 | | | | | |
| Total Kjeldahl Nitrogen | 11.2 | 0.50 | 0.43 | mg/l | 10.0 | 1.1 | 101 | 85-120 | 6 | 15 | |

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R-2A Pond Pilot Test
Report Number: IPG1394

Sampled: 07/18/06
Received: 07/18/06

DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NRI** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1394

Sampled: 07/18/06
 Received: 07/18/06

Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1394-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

IPG 1394

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

| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | | | | | | | | | | | | | | | | |
|--|---------------|--|------------|--------------------------|--------------|----------|--|--|----------------------------------|--------------------------|-------------------------|--|------------------------------|-------------------|--|--------------------------|-----------------------------------|----------|--|
| Project Manager: Bronwyn Kelly | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | | | | | | | | | | | | | | | | |
| Sampler: | | | | | | | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon (EPA 413.1) | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn | TCDD (and all congeners) | Field readings: Temp = pH = | Comments | |
| PM-EFF | W | Poly-1L | 1 | 7-18-06 13:00 | HNO3 | 1 | X | X | | | | | | | | | | | |
| PM-EFF | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | | | | |
| PM-EFF | W | VOCAs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | | | |
| PM-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | X | | | | | | | | | |
| PM-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | | X | | | | | | | | |
| PM-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | | X | | | | | | | |
| PM-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | X | | | | | | |
| PM-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | | X | | | | | |
| PM-EFF | W | Poly-1L | 1 | | None | 9 | | | | | | | | | X | | | | |
| PM-EFF | W | 1L Amber | 2 | | None | 10A, 10B | | | | | | | | | | X | | | |
| Relinquished By | | | | Date/Time: 7-18-06 14:20 | | | | | | | | | | | | | | | |
| Relinquished By | | | | Date/Time: 7-18-06 17:25 | | | | | | | | | | | | | | | |
| Relinquished By | | | | Date/Time: | | | | | | | | | | | | | | | |
| Received By: [Signature] | | | | | | | Date/Time: 7-18-06 14:20 | Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ | | | | | | | | | | | |
| Received By: [Signature] | | | | | | | Date/Time: 7-18-06 17:25 | Sample Integrity: (Check) Intact _____ On Ice: _____ X 4°C | | | | | | | | | | | |
| Received By: [Signature] | | | | | | | Date/Time: | | | | | | | | | | | | |

PAZALS

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric.
Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
Thanks.
Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks,

Eric Walker
MWH Americas, Inc
300 North Lake Avenue, Suite 1200
Pasadena, California 91101
(626) 786-0093 Mobile
(626) 568-6852 Direct Line
(626) 568-6515 FAX

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"Michele Chamberlin"
<mchamberlin@testamericainc.com>

07/20/2006 03:14 PM

To: "Eric Walker" <Eric.Walker@us.mwhglobal.com>
cc: "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai" <Eric.S.Tsai@us.mwhglobal.com>
Subject: Sample Temp for 7/18/06 R2A Pond Pilot Test

7/20/2006

to

Hi Eric,

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks.
Michele



July 27, 2006

Alta Project I.D.: 27891

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1394". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27891-001

IPG1394-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000132 | | | IS 13C-2,3,7,8-TCDD | 73.0 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000145 | | | 13C-1,2,3,7,8-PeCDD | 70.0 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000396 | | | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,6,7,8-HxCDD | 66.5 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,4,6,7,8-HpCDD | 66.3 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000206 | | | 13C-OCDD | 49.4 | 17 - 157 | | |
| OCDD | ND | | 0.00000597 | | 13C-2,3,7,8-TCDF | 69.1 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDF | 68.8 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000124 | | | 13C-2,3,4,7,8-PeCDF | 69.7 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000115 | | | 13C-1,2,3,4,7,8-HxCDF | 73.6 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000781 | | | 13C-1,2,3,6,7,8-HxCDF | 74.2 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000644 | | | 13C-2,3,4,6,7,8-HxCDF | 71.0 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000784 | | | 13C-1,2,3,7,8,9-HxCDF | 58.3 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000137 | | | 13C-1,2,3,4,6,7,8-HpCDF | 64.2 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000129 | | | 13C-OCDF | 45.8 | 17 - 157 | | |
| OCDF | ND | 0.00000345 | | | CRS 37Cl-2,3,7,8-TCDD | 78.8 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000132 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000145 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000238 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000206 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000171 | | | | | | | |
| Total PeCDF | ND | 0.00000120 | | | | | | | |
| Total HxCDF | ND | 0.000000895 | | | | | | | |
| Total HpCDF | ND | 0.00000123 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:02

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.1 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 66.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 49.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 69.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 51.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 49.7 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 64.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 51.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 66.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 52.2 | 35 - 70 | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 100 | 101 | 78 - 144 | 13C-2,3,7,8-TCDF | 62.3 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 51.5 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 65.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.3 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 76.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.4 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.9 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 71.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 54.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.2 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.4 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 60.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.4 | 39 - 69 | 13C-OCDF | 37.8 | 17 - 157 | |
| OCDF | 100 | 102 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 74.5 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:02

| Sample ID: IPG1394-01 | | | | | EPA Method 1613 | | | |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27891-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1394 | | Sample Size: | 1.00 L | QC Batch No.: | 8205 | Date Extracted: | 21-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 25-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1300 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000152 | | | IS 13C-2,3,7,8-TCDD | 65.5 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000177 | | | 13C-1,2,3,7,8-PeCDD | 60.1 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000405 | | | 13C-1,2,3,4,7,8-HxCDD | 57.7 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000207 | | | 13C-1,2,3,6,7,8-HxCDD | 55.8 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000203 | | | 13C-1,2,3,4,6,7,8-HpCDD | 54.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | | 0.00000857 | | 13C-OCDD | 38.5 | 17 - 157 | |
| OCDD | 0.0000851 | | | | 13C-2,3,7,8-TCDF | 64.2 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000186 | | | 13C-1,2,3,7,8-PeCDF | 59.0 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000128 | | | 13C-2,3,4,7,8-PeCDF | 60.7 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000125 | | | 13C-1,2,3,4,7,8-HxCDF | 62.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000115 | | | 13C-1,2,3,6,7,8-HxCDF | 60.8 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000106 | | | 13C-2,3,4,6,7,8-HxCDF | 59.1 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000120 | | | 13C-1,2,3,7,8,9-HxCDF | 52.4 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000191 | | | 13C-1,2,3,4,6,7,8-HpCDF | 53.2 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000176 | | | 13C-1,2,3,4,7,8,9-HpCDF | 55.4 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000189 | | | 13C-OCDF | 38.2 | 17 - 157 | |
| OCDF | ND | 0.00000383 | | | CRS 37Cl-2,3,7,8-TCDD | 73.7 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000152 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | | 0.00000316 | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | 0.00000272 | | | c. Method detection limit. | | | |
| Total HpCDD | ND | | 0.0000163 | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000186 | | | | | | |
| Total PeCDF | ND | 0.00000126 | | | | | | |
| Total HxCDF | ND | 0.00000133 | | | | | | |
| Total HpCDF | ND | 0.00000182 | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:02

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPG1394

| SENDING LABORATORY: | RECEIVING LABORATORY: |
|---|--|
| TestAmerica - Irvine, CA 17461 Dorian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Chamberlin | Alta Analytical - SUB 1104 Windfield Way El Dorado Hills, CA 95762 Phone: (916) 933-1640 Fax: (916) 673-0106 <div style="text-align: right; font-size: 2em;">27891</div> <div style="text-align: right; font-size: 1.5em;">oC</div> |

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

| Analysis | Expiration | Comments |
|--|---|---|
| Sample ID: IPG1394-01 Water 1613-Dioxin-HR-Alta Level 4 + EDD OUP | 07/25/06 13:00 08/15/06 19:00 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta Excel EDD email to pm, include Std logs for Lvl IV <div style="text-align: right; font-size: 1.2em;">Being EDD me 7/20/06</div> |
| Containers Supplied: 1 L Amber (IPG1394-01N) 1 L Amber (IPG1394-01O) | | |

SAMPLE INTEGRITY:

| | | | | | |
|------------------------|--|-----------------------------|--|-----------------------------|--|
| All containers intact: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Sample labels/COC agree: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received On Ice: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Custody Seals Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Preserved Properly: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received at (temp): | _____ |

Released By: _____ Date: _____ Time: _____ Received By: *Bethna A. Benedict* Date: *7/20/06* Time: *0925*

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27891

| | | | |
|------------------|---|-----------------------------------|---|
| Samples Arrival: | Date/Time 7/20/06 0925 | Initials: CBB | Location: WR-2 |
| | | | Shelf/Rack: _____ |
| Logged In: | Date/Time 7/20/06 1159 | Initials: CBB | Location: WR-2 |
| | | | Shelf/Rack: C-4 |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | | <input type="checkbox"/> DHL | <input type="checkbox"/> Hand Delivered |
| | <input type="checkbox"/> Other | | |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | | <input type="checkbox"/> None | |
| Temp °C | 0°C | Time: 0955 | Thermometer ID: DT-20 |

DT-1-CBB

| | YES | NO | NA |
|--|------|--------|------------------|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # 7927 99970554 | | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| | | COC | Sample Container |
| Shipping Container | Alta | Client | Return |
| | | Retain | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/30/06 18:02

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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: Enclosed are complete final results.

LABORATORY ID
IPG1397-01

CLIENT ID
LC-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1397-01 (LC-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G19073 | 0.0088 | 0.040 | 0.25 | 1 | 07/19/06 | 07/21/06 | |
| Sample ID: IPG1397-01 (LC-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G19076 | 0.18 | 2.0 | 0.20 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7 | 6G19073 | 3.8 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Beryllium | EPA 200.7 | 6G19073 | 0.62 | 2.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Cadmium | EPA 200.8 | 6G19076 | 0.015 | 1.0 | 0.032 | 1 | 07/19/06 | 07/19/06 | J |
| Chromium | EPA 200.7 | 6G19073 | 0.68 | 5.0 | ND | 1 | 07/19/06 | 07/21/06 | |
| Copper | EPA 200.8 | 6G19076 | 0.49 | 2.0 | 2.9 | 1 | 07/19/06 | 07/19/06 | |
| Lead | EPA 200.8 | 6G19076 | 0.13 | 1.0 | 0.58 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G19073 | 3.2 | 20 | 48 | 1 | 07/19/06 | 07/21/06 | |
| Mercury | EPA 245.1 | 6G19085 | 0.063 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7 | 6G19073 | 2.0 | 10 | ND | 1 | 07/19/06 | 07/21/06 | |
| Selenium | EPA 200.8 | 6G19076 | 0.36 | 2.0 | 0.37 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8 | 6G19076 | 0.089 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8 | 6G19076 | 0.075 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7 | 6G19073 | 3.7 | 20 | 4.1 | 1 | 07/19/06 | 07/21/06 | J |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1397-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G18141 | 0.015 | 0.040 | 0.028 | 1 | 07/18/06 | 07/21/06 | J |
| Sample ID: IPG1397-01 (LC-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G19078 | 0.050 | 2.0 | 0.20 | 1 | 07/19/06 | 07/19/06 | J |
| Arsenic | EPA 200.7-Diss | 6G18141 | 4.4 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Beryllium | EPA 200.7-Diss | 6G18141 | 0.90 | 2.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Cadmium | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Chromium | EPA 200.7-Diss | 6G18141 | 2.0 | 5.0 | ND | 1 | 07/18/06 | 07/21/06 | |
| Copper | EPA 200.8-Diss | 6G19078 | 0.25 | 2.0 | 1.6 | 1 | 07/19/06 | 07/19/06 | J |
| Lead | EPA 200.8-Diss | 6G19078 | 0.040 | 1.0 | 0.082 | 1 | 07/19/06 | 07/20/06 | J |
| Manganese | EPA 200.7-Diss | 6G18141 | 7.0 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |
| Mercury | EPA 245.1-Diss | 6G19086 | 0.15 | 0.20 | ND | 1 | 07/19/06 | 07/19/06 | C |
| Nickel | EPA 200.7-Diss | 6G18141 | 2.0 | 10 | ND | 1 | 07/18/06 | 07/21/06 | |
| Selenium | EPA 200.8-Diss | 6G19078 | 0.30 | 2.0 | 0.59 | 1 | 07/19/06 | 07/19/06 | J |
| Silver | EPA 200.8-Diss | 6G19078 | 0.025 | 1.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Thallium | EPA 200.8-Diss | 6G19078 | 0.15 | 1.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G18141 | 15 | 20 | ND | 1 | 07/18/06 | 07/21/06 | |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1397-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 1.0 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1397-01 (LC-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | 15 | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G25117 | 0.43 | 0.50 | 1.4 | 1 | 07/25/06 | 07/25/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G24062 | 2.0 | 2.0 | 170 | 1 | 07/24/06 | 07/24/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 1.1 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G19073 | 1.0 | 1.0 | 190 | 1 | 07/19/06 | 07/21/06 | |
| Nitrate-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrite-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18117 | 0.072 | 0.26 | ND | 1 | 07/18/06 | 07/19/06 | |
| Oil & Grease | EPA 413.1 | 6G21001 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G18117 | 1.8 | 5.0 | 71 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19075 | 10 | 10 | 370 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G26138 | 0.50 | 1.0 | 13 | 1 | 07/26/06 | 07/26/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21144 | 10 | 10 | 15 | 1 | 07/21/06 | 07/21/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1397-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19091 | 0.040 | 1.0 | 5.4 | 1 | 07/19/06 | 07/19/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1397-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.63 | 1 | 07/19/06 | 07/19/06 | |

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 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1397-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 620 | 1 | 07/19/06 | 07/19/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1397

Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| Sample ID: LC-EFF (IPG1397-01) - Water | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1 | 1 | 07/18/2006 13:55 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 13:55 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 13:55 | 07/18/2006 17:25 | 07/18/2006 23:00 | 07/19/2006 00:00 |

TestAmerica - Irvine, CA
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Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 3.8 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G19073-BS1) | | | | | | | | | | | |
| Arsenic | 500 | 5.0 | 3.8 | ug/l | 500 | | 100 | 85-115 | | | |
| Beryllium | 507 | 2.0 | 0.62 | ug/l | 500 | | 101 | 85-115 | | | |
| Calcium | 2.45 | 0.10 | N/A | mg/l | 2.50 | | 98 | 85-115 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | | 100 | 85-115 | | | |
| Iron | 0.505 | 0.040 | 0.0088 | mg/l | 0.500 | | 101 | 85-115 | | | |
| Magnesium | 2.50 | 0.020 | N/A | mg/l | 2.50 | | 100 | 85-115 | | | |
| Manganese | 499 | 20 | 3.2 | ug/l | 500 | | 100 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 490 | 20 | 3.7 | ug/l | 500 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS1) | | | | | | | | | | | |
| Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 518 | 5.0 | 3.8 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | | | |
| Calcium | 57.5 | 0.10 | N/A | mg/l | 2.50 | 54 | 140 | 70-130 | | | M-HA |
| Chromium | 493 | 5.0 | 0.68 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.688 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 523 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | | | |
| Nickel | 496 | 10 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Zinc | 502 | 20 | 3.7 | ug/l | 500 | ND | 100 | 70-130 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G19073-MS2) | | | | | | Source: IPG1385-01 | | | | | |
| Arsenic | 516 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Beryllium | 513 | 2.0 | 0.62 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Calcium | 57.9 | 0.10 | N/A | mg/l | 2.50 | 55 | 116 | 70-130 | | | |
| Chromium | 499 | 5.0 | 0.68 | ug/l | 500 | 0.69 | 100 | 70-130 | | | |
| Iron | 0.970 | 0.040 | 0.0088 | mg/l | 0.500 | 0.46 | 102 | 70-130 | | | |
| Magnesium | 17.4 | 0.020 | N/A | mg/l | 2.50 | 15 | 96 | 70-130 | | | |
| Manganese | 560 | 20 | 3.2 | ug/l | 500 | 70 | 98 | 70-130 | | | |
| Nickel | 493 | 10 | 2.0 | ug/l | 500 | 2.2 | 98 | 70-130 | | | |
| Zinc | 509 | 20 | 3.7 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G19073-MSD1) | | | | | | Source: IPG1381-01 | | | | | |
| Arsenic | 513 | 5.0 | 3.8 | ug/l | 500 | ND | 103 | 70-130 | 1 | 20 | |
| Beryllium | 520 | 2.0 | 0.62 | ug/l | 500 | ND | 104 | 70-130 | 0 | 20 | |
| Calcium | 57.8 | 0.10 | N/A | mg/l | 2.50 | 54 | 152 | 70-130 | 1 | 20 | M-HA |
| Chromium | 498 | 5.0 | 0.68 | ug/l | 500 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 0.677 | 0.040 | 0.0088 | mg/l | 0.500 | 0.18 | 99 | 70-130 | 2 | 20 | |
| Magnesium | 17.5 | 0.020 | N/A | mg/l | 2.50 | 15 | 100 | 70-130 | 1 | 20 | |
| Manganese | 524 | 20 | 3.2 | ug/l | 500 | 29 | 99 | 70-130 | 0 | 20 | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 1 | 20 | |
| Zinc | 494 | 20 | 3.7 | ug/l | 500 | ND | 99 | 70-130 | 2 | 20 | |
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006-07/20/2006 (6G19076-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.18 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.015 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.49 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.13 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.36 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.089 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.075 | ug/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19076 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19076-BS1) | | | | | | | | | | | |
| Antimony | 82.8 | 2.0 | 0.18 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 86.5 | 1.0 | 0.015 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Copper | 80.7 | 2.0 | 0.49 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Lead | 82.5 | 1.0 | 0.13 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 87.8 | 2.0 | 0.36 | ug/l | 80.0 | | 110 | 85-115 | | | |
| Silver | 83.9 | 1.0 | 0.089 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 86.6 | 1.0 | 0.075 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 103 | 70-130 | | | |
| Cadmium | 84.7 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 78.7 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 97 | 70-130 | | | |
| Lead | 80.7 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Selenium | 85.7 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 106 | 70-130 | | | |
| Silver | 82.2 | 1.0 | 0.089 | ug/l | 80.0 | ND | 103 | 70-130 | | | |
| Thallium | 85.6 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 107 | 70-130 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19076-MS2) Source: IPG1385-01 | | | | | | | | | | | |
| Antimony | 84.1 | 2.0 | 0.18 | ug/l | 80.0 | 0.18 | 105 | 70-130 | | | |
| Cadmium | 84.8 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 106 | 70-130 | | | |
| Copper | 79.3 | 2.0 | 0.49 | ug/l | 80.0 | 1.1 | 98 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.13 | ug/l | 80.0 | 0.53 | 101 | 70-130 | | | |
| Selenium | 85.8 | 2.0 | 0.36 | ug/l | 80.0 | 0.38 | 107 | 70-130 | | | |
| Silver | 81.5 | 1.0 | 0.089 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 85.4 | 1.0 | 0.075 | ug/l | 80.0 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19076-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.8 | 2.0 | 0.18 | ug/l | 80.0 | 0.35 | 104 | 70-130 | 1 | 20 | |
| Cadmium | 84.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.016 | 105 | 70-130 | 1 | 20 | |
| Copper | 79.2 | 2.0 | 0.49 | ug/l | 80.0 | 0.83 | 98 | 70-130 | 1 | 20 | |
| Lead | 80.2 | 1.0 | 0.13 | ug/l | 80.0 | 0.31 | 100 | 70-130 | 1 | 20 | |
| Selenium | 86.2 | 2.0 | 0.36 | ug/l | 80.0 | 0.53 | 107 | 70-130 | 1 | 20 | |
| Silver | 79.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 84.7 | 1.0 | 0.075 | ug/l | 80.0 | 0.095 | 106 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19085 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19085-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19085-BS1) | | | | | | | | | | | |
| Mercury | 8.53 | 0.20 | 0.063 | ug/l | 8.00 | | 107 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19085-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.75 | 0.20 | 0.063 | ug/l | 8.00 | ND | 109 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19085-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1299-01 | | | | | |
| Mercury | 8.62 | 0.20 | 0.063 | ug/l | 8.00 | ND | 108 | 70-130 | 1 | 20 | |

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 Report Number: IPG1397

Sampled: 07/18/06
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METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18141 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G18141-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G18141-BS1) | | | | | | | | | | | |
| Arsenic | 1030 | 5.0 | 4.4 | ug/l | 1000 | | 103 | 85-115 | | | |
| Beryllium | 1030 | 2.0 | 0.90 | ug/l | 1000 | | 103 | 85-115 | | | |
| Chromium | 1030 | 5.0 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G18141-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | | | |
| Beryllium | 1050 | 2.0 | 0.90 | ug/l | 1000 | ND | 105 | 70-130 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G18141-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Arsenic | 1070 | 5.0 | 4.4 | ug/l | 1000 | 6.2 | 106 | 70-130 | 0 | 20 | |
| Beryllium | 1060 | 2.0 | 0.90 | ug/l | 1000 | ND | 106 | 70-130 | 1 | 20 | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | ND | 102 | 70-130 | 0 | 20 | |
| Iron | 1.06 | 0.040 | 0.015 | mg/l | 1.00 | 0.028 | 103 | 70-130 | 0 | 20 | |
| Manganese | 1020 | 20 | 7.0 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | ND | 103 | 70-130 | 0 | 20 | |
| Zinc | 1070 | 20 | 15 | ug/l | 1000 | ND | 107 | 70-130 | 0 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1397

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19078 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19078-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006-07/20/2006 (6G19078-BS1) | | | | | | | | | | | |
| Antimony | 81.5 | 2.0 | 0.050 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Cadmium | 85.5 | 1.0 | 0.025 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Copper | 79.9 | 2.0 | 0.25 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Lead | 81.8 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 85.9 | 2.0 | 0.30 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Silver | 89.0 | 1.0 | 0.025 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Thallium | 86.7 | 1.0 | 0.15 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006-07/20/2006 (6G19078-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 83.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 104 | 70-130 | | | |
| Cadmium | 84.9 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | | | |
| Copper | 83.6 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 104 | 70-130 | | | |
| Lead | 81.2 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 101 | 70-130 | | | |
| Selenium | 86.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 107 | 70-130 | | | |
| Silver | 86.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Thallium | 86.1 | 1.0 | 0.15 | ug/l | 80.0 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006-07/20/2006 (6G19078-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Antimony | 82.4 | 2.0 | 0.050 | ug/l | 80.0 | 0.37 | 103 | 70-130 | 2 | 20 | |
| Cadmium | 83.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 104 | 70-130 | 2 | 20 | |
| Copper | 77.3 | 2.0 | 0.25 | ug/l | 80.0 | 0.74 | 96 | 70-130 | 8 | 20 | |
| Lead | 79.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.070 | 99 | 70-130 | 2 | 20 | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.41 | 103 | 70-130 | 4 | 20 | |
| Silver | 85.1 | 1.0 | 0.025 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |
| Thallium | 84.6 | 1.0 | 0.15 | ug/l | 80.0 | ND | 106 | 70-130 | 2 | 20 | |

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 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19086 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19086-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19086-BS1) | | | | | | | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19086-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.44 | 0.20 | 0.15 | ug/l | 8.00 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19086-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Mercury | 8.59 | 0.20 | 0.15 | ug/l | 8.00 | ND | 107 | 70-130 | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1397

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18117 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18117-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18117-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.20 | 0.15 | 0.080 | mg/l | 1.13 | ND | 106 | 90-110 | | | |
| Nitrite-N | 1.58 | 0.15 | 0.080 | mg/l | 1.52 | ND | 104 | 90-110 | | | |
| Sulfate | 9.70 | 0.50 | 0.18 | mg/l | 10.0 | ND | 97 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/18/2006 (6G18117-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Nitrate-N | 1.19 | 0.15 | 0.080 | mg/l | 1.13 | ND | 105 | 80-120 | | | |
| Nitrite-N | 1.82 | 0.15 | 0.080 | mg/l | 1.52 | ND | 120 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18117-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.15 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | 4 | 20 | |
| Nitrite-N | 1.87 | 0.15 | 0.080 | mg/l | 1.52 | ND | 123 | 80-120 | 3 | 20 | MI |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) Source: IPG1381-01 | | | | | | | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | 620 | | | 1 | 5 | |
| Batch: 6G19073 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G19073-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19075 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19075-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19075-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19075-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 207 | 10 | 10 | mg/l | | Source: IPG1345-10 210 | | | 1 | 10 | |
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | | | | | | |
| pH | 7.24 | NA | N/A | pH Units | | Source: IPG1353-01 7.22 | | | 0 | 5 | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | | | | | | |
| pH | 7.93 | NA | N/A | pH Units | | Source: IPG1387-01 7.91 | | | 0 | 5 | |
| Batch: 6G19091 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19091-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19091-DUP1) | | | | | | | | | | | |
| Turbidity | 3.36 | 1.0 | 0.040 | NTU | | Source: IPG1381-01 3.3 | | | 2 | 20 | |
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | Source: IPG0469-03 1.0 | | | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| Batch: 6G21001 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21001-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21001-BS1) | | | | | | | | | | | |
| Oil & Grease | 19.1 | 5.0 | 0.94 | mg/l | 20.0 | | 96 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21001-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.7 | 5.0 | 0.94 | mg/l | 20.0 | | 94 | 65-120 | 2 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21144 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21144-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21144-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 978 | 10 | 10 | mg/l | 1000 | | 98 | 85-115 | | | |
| Duplicate Analyzed: 07/21/2006 (6G21144-DUP1) | | | | | | | | | | | |
| Total Suspended Solids | 86.0 | 10 | 10 | mg/l | | Source: IPG1365-01 92 | | | 7 | 10 | |
| Batch: 6G24062 Extracted: 07/24/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/24/2006 (6G24062-DUP1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 180 | 2.0 | 2.0 | mg/l | | Source: IPG1738-01 180 | | | 0 | 20 | |
| Reference Analyzed: 07/24/2006 (6G24062-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |
| Batch: 6G25117 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25117-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25117-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.6 | 0.50 | 0.43 | mg/l | 20.0 | | 98 | 85-120 | 2 | 15 | |

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 Pasadena, CA 91101
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G25117 Extracted: 07/25/06</u> | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1) | | | | | | Source: IPG1800-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1) | | | | | | Source: IPG1800-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 0 | 15 | |
| <u>Batch: 6G26138 Extracted: 07/26/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26138-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26138-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.2 | 1.0 | 0.25 | mg/l | 10.0 | | 102 | 90-110 | | | |
| Matrix Spike Analyzed: 07/26/2006 (6G26138-MS1) | | | | | | Source: IPG2014-02 | | | | | |
| Total Organic Carbon | 10.7 | 1.0 | 0.25 | mg/l | 5.00 | 5.4 | 106 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26138-MSD1) | | | | | | Source: IPG2014-02 | | | | | |
| Total Organic Carbon | 10.3 | 1.0 | 0.25 | mg/l | 5.00 | 5.4 | 98 | 80-120 | 4 | 20 | |

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1397

Sampled: 07/18/06
Received: 07/18/06

DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1397

Sampled: 07/18/06
 Received: 07/18/06

Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1397-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric.
Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
Thanks,
Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks,

Eric Walker
MWH Americas, Inc.
300 North Lake Avenue, Suite 1200
Pasadena, California 91101
(626) 786-0093 Mobile
(626) 568-6852 Direct Line
(626) 568-6515 FAX

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"Michele Chamberlin"
<mchamberlin@testamericainc.com>

07/20/2006 03:14 PM

To "Eric Walker" <Eric.Walker@us.mwhglobal.com>
cc "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>
Subject Sample Temp for 7/18/06 R2A Pond Pilot Test

7/20/2006

Hi Eric,

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks,
Michele



July 27, 2006

Alta Project I.D.: 27890

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1397". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27890-001

IPG1397-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000132 | | | IS 13C-2,3,7,8-TCDD | 73.0 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000145 | | | 13C-1,2,3,7,8-PeCDD | 70.0 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000396 | | | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,6,7,8-HxCDD | 66.5 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,4,6,7,8-HpCDD | 66.3 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000206 | | | 13C-OCDD | 49.4 | 17 - 157 | | |
| OCDD | ND | | 0.00000597 | | 13C-2,3,7,8-TCDF | 69.1 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDF | 68.8 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000124 | | | 13C-2,3,4,7,8-PeCDF | 69.7 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000115 | | | 13C-1,2,3,4,7,8-HxCDF | 73.6 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000781 | | | 13C-1,2,3,6,7,8-HxCDF | 74.2 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000644 | | | 13C-2,3,4,6,7,8-HxCDF | 71.0 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000784 | | | 13C-1,2,3,7,8,9-HxCDF | 58.3 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000137 | | | 13C-1,2,3,4,6,7,8-HpCDF | 64.2 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000129 | | | 13C-OCDF | 45.8 | 17 - 157 | | |
| OCDF | ND | 0.00000345 | | | CRS 37Cl-2,3,7,8-TCDD | 78.8 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000132 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000145 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000238 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000206 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000171 | | | | | | | |
| Total PeCDF | ND | 0.00000120 | | | | | | | |
| Total HxCDF | ND | 0.000000895 | | | | | | | |
| Total HpCDF | ND | 0.00000123 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:09

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.1 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 66.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 49.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 69.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 51.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 49.7 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 64.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 51.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 66.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 52.2 | 35 - 70 | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 100 | 101 | 78 - 144 | 13C-2,3,7,8-TCDF | 62.3 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 51.5 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 65.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.3 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 76.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.4 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.9 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 71.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 54.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.2 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.4 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 60.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.4 | 39 - 69 | 13C-OCDF | 37.8 | 17 - 157 | |
| OCDF | 100 | 102 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 74.5 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:09

| Sample ID: IPG1397-01 | | | | | EPA Method 1613 | | | |
|-----------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27890-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1397 | | Sample Size: | 1.04 L | QC Batch No.: | 8205 | Date Extracted: | 21-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 25-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1355 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000139 | | | IS 13C-2,3,7,8-TCDD | 70.4 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000183 | | | 13C-1,2,3,7,8-PeCDD | 65.2 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000552 | | | 13C-1,2,3,4,7,8-HxCDD | 64.7 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000196 | | | 13C-1,2,3,6,7,8-HxCDD | 62.2 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000198 | | | 13C-1,2,3,4,6,7,8-HpCDD | 62.8 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 0.0000142 | | | J | 13C-OCDD | 42.4 | 17 - 157 | |
| OCDD | 0.000123 | | | | 13C-2,3,7,8-TCDF | 69.0 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000155 | | | 13C-1,2,3,7,8-PeCDF | 64.7 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000140 | | | 13C-2,3,4,7,8-PeCDF | 66.2 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000122 | | | 13C-1,2,3,4,7,8-HxCDF | 71.5 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000950 | | | 13C-1,2,3,6,7,8-HxCDF | 68.8 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000834 | | | 13C-2,3,4,6,7,8-HxCDF | 66.6 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000101 | | | 13C-1,2,3,7,8,9-HxCDF | 57.5 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000167 | | | 13C-1,2,3,4,6,7,8-HpCDF | 57.2 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000160 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.5 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000151 | | | 13C-OCDF | 41.6 | 17 - 157 | |
| OCDF | 0.00000645 | | | J | CRS 37Cl-2,3,7,8-TCDD | 76.4 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000139 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | | 0.00000345 | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | 0.00000315 | | | c. Method detection limit. | | | |
| Total HpCDD | 0.0000142 | | 0.0000270 | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000155 | | | | | | |
| Total PeCDF | ND | 0.00000131 | | | | | | |
| Total HxCDF | ND | 0.00000112 | | | | | | |
| Total HpCDF | 0.00000353 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:09

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPG1397

| SENDING LABORATORY: | RECEIVING LABORATORY: |
|---|---|
| TestAmerica - Irvine, CA 17461 Deegan Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Chamberlin | Alta Analytical - SUB 1104 Windfield Way El Dorado Hills, CA 95762 Phone: (916) 933-1640 Fax: (916) 673-0106 <div style="text-align: right; font-size: 2em;">27890 0.4°C</div> |

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

| Analysis | Expiration | Comments |
|-----------------------------|-------------------------|---|
| Sample ID: IPG1397-01 Water | Sampled: 07/18/06 13:55 | |
| 1613-Dioxin-HR-Alta | 07/25/06 13:55 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta |
| Level 4 + EDD-OUT | 08/15/06 13:55 | Excel EDD email to pm, include Std logs for LVIIV |

Containers Supplied:
 1 L Amber (IPG1397-01N)
 1 L Amber (IPG1397-01O)

*Beijing EDO
me
7/20/06*

| SAMPLE INTEGRITY: | | | | | |
|------------------------|--|-----------------------------|--|-----------------------------|--|
| All containers intact: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Sample labels/COC agree: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received On Ice: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Custody Seals Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Preserved Properly: | <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received at (temp): | _____ |

Released By: ~~_____~~ Date: _____ Time: _____ Received By: *Bettina A. Benedict* Date: *7/20/06* Time: *0925*

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27890

| | | | |
|----------------------|---|---|----------------------------------|
| Samples Arrival: | Date/Time <u>7/20/06 0925</u> | Initials: <u>UBSB</u> | Location: <u>WR-2</u> |
| Logged In: | Date/Time <u>7/20/06 1155</u> | Initials: <u>FEB</u> | Location: <u>WR-2</u> |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | <input type="checkbox"/> DHL | <input type="checkbox"/> Hand Delivered | <input type="checkbox"/> Other |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | <input type="checkbox"/> None | | |
| Temp °C <u>0.4°C</u> | Time: <u>0925 1025</u> | Thermometer ID: <u>DT-20</u> | |

| | YES | NO | NA |
|--|------|--------|---------|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # <u>7915 0101 2280</u> | | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | | ✓ |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| Shipping Container | Alta | Client | Retain |
| | | Return | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/30/06 18:11

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 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 4°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: Enclosed are complete final results.

LABORATORY ID
IPG1402-01

CLIENT ID
BST-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1402-01 (BST-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G20074 | 0.0088 | 0.040 | 0.55 | 1 | 07/20/06 | 07/20/06 | |
| Sample ID: IPG1402-01 (BST-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G20072 | 0.18 | 2.0 | 0.38 | 1 | 07/20/06 | 07/20/06 | J |
| Arsenic | EPA 200.7 | 6G20074 | 3.8 | 5.0 | 4.3 | 1 | 07/20/06 | 07/20/06 | B, J |
| Beryllium | EPA 200.7 | 6G20074 | 0.62 | 2.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Cadmium | EPA 200.8 | 6G20072 | 0.015 | 1.0 | 0.030 | 1 | 07/20/06 | 07/20/06 | J |
| Chromium | EPA 200.7 | 6G20074 | 0.68 | 5.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Copper | EPA 200.8 | 6G20072 | 0.49 | 2.0 | 0.97 | 1 | 07/20/06 | 07/20/06 | J |
| Lead | EPA 200.8 | 6G20072 | 0.13 | 1.0 | 0.60 | 1 | 07/20/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G20074 | 3.2 | 20 | 98 | 1 | 07/20/06 | 07/20/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.063 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G20074 | 2.0 | 10 | 2.2 | 1 | 07/20/06 | 07/20/06 | J |
| Selenium | EPA 200.8 | 6G20072 | 0.36 | 2.0 | 0.45 | 1 | 07/20/06 | 07/20/06 | J |
| Silver | EPA 200.8 | 6G20072 | 0.089 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Thallium | EPA 200.8 | 6G20072 | 0.075 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Zinc | EPA 200.7 | 6G20074 | 3.7 | 20 | ND | 1 | 07/20/06 | 07/20/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1402-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G19101 | 0.015 | 0.040 | 0.023 | 1 | 07/19/06 | 07/19/06 | J |
| Sample ID: IPG1402-01 (BST-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G20073 | 0.050 | 2.0 | 0.60 | 1 | 07/20/06 | 07/20/06 | J |
| Arsenic | EPA 200.7-Diss | 6G19101 | 4.4 | 5.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Beryllium | EPA 200.7-Diss | 6G19101 | 0.90 | 2.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Cadmium | EPA 200.8-Diss | 6G20073 | 0.025 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Chromium | EPA 200.7-Diss | 6G19101 | 2.0 | 5.0 | ND | 1 | 07/19/06 | 07/19/06 | |
| Copper | EPA 200.8-Diss | 6G20073 | 0.25 | 2.0 | 0.60 | 1 | 07/20/06 | 07/20/06 | J |
| Lead | EPA 200.8-Diss | 6G20073 | 0.040 | 1.0 | 0.056 | 1 | 07/20/06 | 07/20/06 | J |
| Manganese | EPA 200.7-Diss | 6G19101 | 7.0 | 20 | ND | 1 | 07/19/06 | 07/19/06 | |
| Mercury | EPA 245.1-Diss | 6G20093 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7-Diss | 6G19101 | 2.0 | 10 | 2.2 | 1 | 07/19/06 | 07/19/06 | J |
| Selenium | EPA 200.8-Diss | 6G20073 | 0.30 | 2.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Silver | EPA 200.8-Diss | 6G20073 | 0.025 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Thallium | EPA 200.8-Diss | 6G20073 | 0.15 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G19101 | 15 | 20 | ND | 1 | 07/19/06 | 07/19/06 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1402-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 1.0 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1402-01 (BST-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27081 | 10 | 10 | 22 | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G25117 | 0.43 | 0.50 | 0.84 | 1 | 07/25/06 | 07/25/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G26083 | 2.0 | 2.0 | 160 | 1 | 07/26/06 | 07/26/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | 0.56 | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G20074 | 1.0 | 1.0 | 200 | 1 | 07/20/06 | 07/20/06 | |
| Nitrate-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrite-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18117 | 0.072 | 0.26 | ND | 1 | 07/18/06 | 07/19/06 | |
| Oil & Grease | EPA 413.1 | 6G21001 | 0.90 | 4.8 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G18117 | 1.8 | 5.0 | 68 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19075 | 10 | 10 | 360 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G21108 | 0.50 | 1.0 | 14 | 1 | 07/21/06 | 07/21/06 | |
| Total Suspended Solids | EPA 160.2 | 6G21144 | 10 | 10 | 22 | 1 | 07/21/06 | 07/21/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1402

Sampled: 07/18/06
Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1402-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19091 | 0.040 | 1.0 | 9.4 | 1 | 07/19/06 | 07/19/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1402-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.65 | 1 | 07/19/06 | 07/19/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1402-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | N/A | 1.0 | 620 | 1 | 07/19/06 | 07/19/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1402

Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| Sample ID: BST-EFF (IPG1402-01) - Water | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|---|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1 | 1 | 07/18/2006 13:35 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 13:35 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 13:35 | 07/18/2006 17:25 | 07/18/2006 23:00 | 07/19/2006 00:42 |

TestAmerica - Irvine, CA
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20072 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20072-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20072-BS1) | | | | | | | | | | | |
| Antimony | 80.6 | 2.0 | 0.050 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Copper | 82.7 | 2.0 | 0.25 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Lead | 82.1 | 1.0 | 0.040 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Silver | 82.7 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Thallium | 83.3 | 1.0 | 0.075 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20072-MS1) Source: IPG1519-01 | | | | | | | | | | | |
| Antimony | 86.5 | 2.0 | 0.18 | ug/l | 80.0 | 0.46 | 108 | 70-130 | | | |
| Cadmium | 80.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.079 | 100 | 70-130 | | | |
| Copper | 78.2 | 2.0 | 0.49 | ug/l | 80.0 | 4.6 | 92 | 70-130 | | | |
| Lead | 78.3 | 1.0 | 0.13 | ug/l | 80.0 | 0.62 | 97 | 70-130 | | | |
| Selenium | 144 | 2.0 | 0.36 | ug/l | 80.0 | 66 | 98 | 70-130 | | | |
| Silver | 75.6 | 1.0 | 0.089 | ug/l | 80.0 | ND | 94 | 70-130 | | | |
| Thallium | 78.5 | 1.0 | 0.075 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20072-MSD1) Source: IPG1519-01 | | | | | | | | | | | |
| Antimony | 86.9 | 2.0 | 0.18 | ug/l | 80.0 | 0.46 | 108 | 70-130 | 1 | 20 | |
| Cadmium | 80.2 | 1.0 | 0.015 | ug/l | 80.0 | 0.079 | 100 | 70-130 | 0 | 20 | |
| Copper | 79.1 | 2.0 | 0.49 | ug/l | 80.0 | 4.6 | 93 | 70-130 | 1 | 20 | |
| Lead | 77.4 | 1.0 | 0.13 | ug/l | 80.0 | 0.62 | 96 | 70-130 | 1 | 20 | |
| Selenium | 143 | 2.0 | 0.36 | ug/l | 80.0 | 66 | 96 | 70-130 | 1 | 20 | |
| Silver | 75.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 95 | 70-130 | 0 | 20 | |
| Thallium | 78.2 | 1.0 | 0.075 | ug/l | 80.0 | ND | 98 | 70-130 | 0 | 20 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20074 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20074-BLK1) | | | | | | | | | | | |
| Arsenic | 4.28 | 5.0 | 3.8 | ug/l | | | | | | | J |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20074-BS1) | | | | | | | | | | | |
| Arsenic | 486 | 5.0 | 3.8 | ug/l | 500 | | 97 | 85-115 | | | |
| Beryllium | 486 | 2.0 | 0.62 | ug/l | 500 | | 97 | 85-115 | | | |
| Calcium | 2.47 | 0.10 | N/A | mg/l | 2.50 | | 99 | 85-115 | | | |
| Chromium | 489 | 5.0 | 0.68 | ug/l | 500 | | 98 | 85-115 | | | |
| Iron | 0.495 | 0.040 | 0.0088 | mg/l | 0.500 | | 99 | 85-115 | | | |
| Magnesium | 2.46 | 0.020 | N/A | mg/l | 2.50 | | 98 | 85-115 | | | |
| Manganese | 496 | 20 | 3.2 | ug/l | 500 | | 99 | 85-115 | | | |
| Nickel | 482 | 10 | 2.0 | ug/l | 500 | | 96 | 85-115 | | | |
| Zinc | 481 | 20 | 3.7 | ug/l | 500 | | 96 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20074-MS1) | | | | | | | | | | | |
| Source: IPG1496-01 | | | | | | | | | | | |
| Arsenic | 505 | 5.0 | 3.8 | ug/l | 500 | 8.2 | 99 | 70-130 | | | |
| Beryllium | 497 | 2.0 | 0.62 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Calcium | 19.5 | 0.10 | N/A | mg/l | 2.50 | 17 | 100 | 70-130 | | | |
| Chromium | 495 | 5.0 | 0.68 | ug/l | 500 | 2.0 | 99 | 70-130 | | | |
| Iron | 0.506 | 0.040 | 0.0088 | mg/l | 0.500 | ND | 101 | 70-130 | | | |
| Magnesium | 3.77 | 0.020 | N/A | mg/l | 2.50 | 1.3 | 99 | 70-130 | | | |
| Manganese | 497 | 20 | 3.2 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | | | |
| Zinc | 507 | 20 | 3.7 | ug/l | 500 | ND | 101 | 70-130 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20074 Extracted: 07/20/06 | | | | | | | | | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20074-MSD1) | | | | | | Source: IPG1496-01 | | | | | |
| Arsenic | 504 | 5.0 | 3.8 | ug/l | 500 | 8.2 | 99 | 70-130 | 0 | 20 | |
| Beryllium | 497 | 2.0 | 0.62 | ug/l | 500 | ND | 99 | 70-130 | 0 | 20 | |
| Calcium | 19.6 | 0.10 | N/A | mg/l | 2.50 | 17 | 104 | 70-130 | 1 | 20 | |
| Chromium | 503 | 5.0 | 0.68 | ug/l | 500 | 2.0 | 100 | 70-130 | 2 | 20 | |
| Iron | 0.513 | 0.040 | 0.0088 | mg/l | 0.500 | ND | 103 | 70-130 | 1 | 20 | |
| Magnesium | 3.83 | 0.020 | N/A | mg/l | 2.50 | 1.3 | 101 | 70-130 | 2 | 20 | |
| Manganese | 496 | 20 | 3.2 | ug/l | 500 | ND | 99 | 70-130 | 0 | 20 | |
| Nickel | 498 | 10 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | 2 | 20 | |
| Zinc | 514 | 20 | 3.7 | ug/l | 500 | ND | 103 | 70-130 | 1 | 20 | |

Batch: 6G20092 Extracted: 07/20/06

Blank Analyzed: 07/20/2006 (6G20092-BLK1)

| | | | | | | | | | | | |
|---------|----|------|-------|------|--|--|--|--|--|--|--|
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
|---------|----|------|-------|------|--|--|--|--|--|--|--|

LCS Analyzed: 07/20/2006 (6G20092-BS1)

| | | | | | | | | | | | |
|---------|------|------|-------|------|------|--|-----|--------|--|--|--|
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
|---------|------|------|-------|------|------|--|-----|--------|--|--|--|

Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1)

| | | | | | | | | | | | |
|---------|------|------|-------|------|------|----|----|--------|--|--|--|
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
|---------|------|------|-------|------|------|----|----|--------|--|--|--|

Source: IPG1337-01

Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1)

| | | | | | | | | | | | |
|---------|------|------|-------|------|------|----|----|--------|---|----|--|
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
|---------|------|------|-------|------|------|----|----|--------|---|----|--|

Source: IPG1337-01

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R-2A Pond Pilot Test
Report Number: IPG1402

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19101 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19101-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19101-BS1) | | | | | | | | | | | |
| Arsenic | 1010 | 5.0 | 4.4 | ug/l | 1000 | | 101 | 85-115 | | | |
| Beryllium | 986 | 2.0 | 0.90 | ug/l | 1000 | | 99 | 85-115 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19101-MS1) Source: IPG1402-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.023 | 99 | 70-130 | | | |
| Manganese | 987 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 983 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19101-MSD1) Source: IPG1402-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | 0 | 20 | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.023 | 100 | 70-130 | 1 | 20 | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Nickel | 991 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | ND | 104 | 70-130 | 1 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1402

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20073 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20073-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20073-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.7 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 81.5 | 2.0 | 0.25 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Lead | 81.6 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 80.9 | 2.0 | 0.30 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Silver | 80.8 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Thallium | 81.9 | 1.0 | 0.15 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20073-MS1) Source: IPG1402-01 | | | | | | | | | | | |
| Antimony | 81.7 | 2.0 | 0.050 | ug/l | 80.0 | 0.60 | 101 | 70-130 | | | |
| Cadmium | 78.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Copper | 79.2 | 2.0 | 0.25 | ug/l | 80.0 | 0.60 | 98 | 70-130 | | | |
| Lead | 78.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.056 | 98 | 70-130 | | | |
| Selenium | 77.9 | 2.0 | 0.30 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Silver | 77.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20073-MSD1) Source: IPG1402-01 | | | | | | | | | | | |
| Antimony | 83.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.60 | 104 | 70-130 | 2 | 20 | |
| Cadmium | 80.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 100 | 70-130 | 2 | 20 | |
| Copper | 81.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.60 | 101 | 70-130 | 3 | 20 | |
| Lead | 79.9 | 1.0 | 0.040 | ug/l | 80.0 | 0.056 | 100 | 70-130 | 2 | 20 | |
| Selenium | 79.5 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | 2 | 20 | |
| Silver | 79.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 80.7 | 1.0 | 0.15 | ug/l | 80.0 | ND | 101 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20093 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20093-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20093-BS1) | | | | | | | | | | | |
| Mercury | 7.86 | 0.20 | 0.15 | ug/l | 8.00 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20093-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Mercury | 7.25 | 0.20 | 0.15 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20093-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Mercury | 7.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 90 | 70-130 | 1 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18117 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18117-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18117-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.20 | 0.15 | 0.080 | mg/l | 1.13 | ND | 106 | 90-110 | | | |
| Nitrite-N | 1.58 | 0.15 | 0.080 | mg/l | 1.52 | ND | 104 | 90-110 | | | |
| Sulfate | 9.70 | 0.50 | 0.18 | mg/l | 10.0 | ND | 97 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/18/2006 (6G18117-MS1) Source: IPG1381-01 | | | | | | | | | | | |
| Nitrate-N | 1.19 | 0.15 | 0.080 | mg/l | 1.13 | ND | 105 | 80-120 | | | |
| Nitrite-N | 1.82 | 0.15 | 0.080 | mg/l | 1.52 | ND | 120 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18117-MSD1) Source: IPG1381-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.15 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | 4 | 20 | |
| Nitrite-N | 1.87 | 0.15 | 0.080 | mg/l | 1.52 | ND | 123 | 80-120 | 3 | 20 | MI |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) Source: IPG1381-01 | | | | | | | | | | | |
| Specific Conductance | 613 | 1.0 | N/A | umhos/cm | | 620 | | | 1 | 5 | |
| Batch: 6G19075 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19075-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 Report Number: IPG1402

Sampled: 07/18/06
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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G19075 Extracted: 07/19/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19075-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19075-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 207 | 10 | 10 | mg/l | | Source: IPG1345-10 210 | | | 1 | 10 | |
| <u>Batch: 6G19089 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | | | | | | |
| pH | 7.24 | NA | N/A | pH Units | | Source: IPG1353-01 7.22 | | | 0 | 5 | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | | | | | | |
| pH | 7.93 | NA | N/A | pH Units | | Source: IPG1387-01 7.91 | | | 0 | 5 | |
| <u>Batch: 6G19091 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19091-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19091-DUP1) | | | | | | | | | | | |
| Turbidity | 3.36 | 1.0 | 0.040 | NTU | | Source: IPG1381-01 3.3 | | | 2 | 20 | |
| <u>Batch: 6G19117 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | Source: IPG0469-03 1.0 | | | 2 | 20 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G19117 Extracted: 07/19/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| <u>Batch: 6G20074 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20074-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |
| <u>Batch: 6G20108 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| <u>Batch: 6G21001 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21001-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G21001 Extracted: 07/21/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21001-BS1) | | | | | | | | | | | |
| Oil & Grease | 19.1 | 5.0 | 0.94 | mg/l | 20.0 | | 96 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21001-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.7 | 5.0 | 0.94 | mg/l | 20.0 | | 94 | 65-120 | 2 | 20 | |
| <u>Batch: 6G21108 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21108-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | ND | 1.0 | 0.25 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21108-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 11.0 | 1.0 | 0.25 | mg/l | 10.0 | | 110 | 90-110 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21108-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.69 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21108-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1432-01 | | | | | |
| Total Organic Carbon | 5.67 | 1.0 | 0.25 | mg/l | 5.00 | 0.87 | 96 | 80-120 | 0 | 20 | |
| <u>Batch: 6G21144 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21144-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21144-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 978 | 10 | 10 | mg/l | 1000 | | 98 | 85-115 | | | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21144 Extracted: 07/21/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/21/2006 (6G21144-DUP1) | | | | | | Source: IPG1365-01 | | | | | |
| Total Suspended Solids | 86.0 | 10 | 10 | mg/l | | 92 | | | 7 | 10 | |
| Batch: 6G25117 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25117-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25117-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.6 | 0.50 | 0.43 | mg/l | 20.0 | | 98 | 85-120 | 2 | 15 | |
| Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 0 | 15 | |
| Batch: 6G26083 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26083-DUP1) | | | | | | Source: IPG1430-01 | | | | | |
| Alkalinity as CaCO3 | 196 | 2.0 | 2.0 | mg/l | | 200 | | | 2 | 20 | |
| Reference Analyzed: 07/26/2006 (6G26083-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
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Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1402

Sampled: 07/18/06
Received: 07/18/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1402

Sampled: 07/18/06
 Received: 07/18/06

Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1402-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

Del Mar Analytical

Version 04/28/06

IPG 1402

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

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

Project Manager: Bronwyn Kelly

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

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn | TCDD (and all congeners) | Field readings: Temp = pH = | Comments |
|--------------------|---------------|----------------|------------|--------------------|--------------|----------|---|---|----------------------|--------------------------|-------------------------|--|------------------------------|-------------------|---|--------------------------|-----------------------------------|----------|
| BST-EFF | W | Poly-1L | 1 | 7-18-06 13:35 | HNO3 | 1 | X | | | | | | | | | | | |
| BST-EFF | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | | | |
| BST-EFF | W | VOCs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | | |
| BST-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | X | | | | | | | | |
| BST-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | | X | | | | | | | |
| BST-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | | X | | | | | | |
| BST-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | X | | | | | |
| BST-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | | X | | | | |
| BST-EFF | W | Poly-1L | 1 | | None | 9 | | | | | | | | | X | | | |
| BST-EFF | W | 1L Amber | 2 | | None | 10A, 10B | | | | | | | | | | X | | |

Relinquished By: [Signature] **Date/Time:** 7-18-06 1420
Received By: [Signature] **Date/Time:** 7-18-06 1420

Relinquished By: [Signature] **Date/Time:** 7-18-06 1725
Received By: [Signature] **Date/Time:** 7-18-06 1725

Relinquished By: [Signature] **Date/Time:** _____
Received By: [Signature] **Date/Time:** _____

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) On Ice: 4 °C

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric,
Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
Thanks,
Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks.

Eric Walker
MWH Americas, Inc.
300 North Lake Avenue, Suite 1200
Pasadena, California 91101
(626) 786-0093 Mobile
(626) 568-6852 Direct Line
(626) 568-6515 FAX

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"Michele Chamberlin"
<mchamberlin@testamericainc.com>

To "Eric Walker" <Eric.Walker@us.mwhglobal.com>

cc "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>

07/20/2006 03:14 PM

Subject: Sample Temp for 7/18/06 R2A Pond Pilot Test

7/20/2006

Hi Eric,

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks.

Michele



July 27, 2006

Alta Project I.D.: 27889

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1402". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27889-001

IPG1402-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000132 | | | IS 13C-2,3,7,8-TCDD | 73.0 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000145 | | | 13C-1,2,3,7,8-PeCDD | 70.0 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000396 | | | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,6,7,8-HxCDD | 66.5 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000159 | | | 13C-1,2,3,4,6,7,8-HpCDD | 66.3 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000206 | | | 13C-OCDD | 49.4 | 17 - 157 | | |
| OCDD | ND | | 0.00000597 | | 13C-2,3,7,8-TCDF | 69.1 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDF | 68.8 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000124 | | | 13C-2,3,4,7,8-PeCDF | 69.7 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000115 | | | 13C-1,2,3,4,7,8-HxCDF | 73.6 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000781 | | | 13C-1,2,3,6,7,8-HxCDF | 74.2 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000644 | | | 13C-2,3,4,6,7,8-HxCDF | 71.0 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000784 | | | 13C-1,2,3,7,8,9-HxCDF | 58.3 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000137 | | | 13C-1,2,3,4,6,7,8-HpCDF | 64.2 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000117 | | | 13C-1,2,3,4,7,8,9-HpCDF | 61.2 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000129 | | | 13C-OCDF | 45.8 | 17 - 157 | | |
| OCDF | ND | 0.00000345 | | | CRS 37Cl-2,3,7,8-TCDD | 78.8 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000132 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000145 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000238 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000206 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000171 | | | | | | | |
| Total PeCDF | ND | 0.00000120 | | | | | | | |
| Total HxCDF | ND | 0.000000895 | | | | | | | |
| Total HpCDF | ND | 0.00000123 | | | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:13

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 8205 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 21-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | |
| 2,3,7,8-TCDD | 10.0 | 10.1 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 66.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 49.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 69.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 51.3 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 68.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 49.7 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 64.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 51.9 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 66.6 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 52.2 | 35 - 70 | 13C-OCDD | 46.3 | 17 - 157 | |
| OCDD | 100 | 101 | 78 - 144 | 13C-2,3,7,8-TCDF | 62.3 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 10.5 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 51.5 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 65.0 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.3 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 76.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.4 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 77.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.9 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 71.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 51.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 54.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.2 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 64.4 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.4 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 60.6 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.4 | 39 - 69 | 13C-OCDF | 37.8 | 17 - 157 | |
| OCDF | 100 | 102 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 74.5 | 35 - 197 | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:13

| Sample ID: IPG1402-01 | | | | | EPA Method 1613 | | | |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine | | Matrix: | Aqueous | Lab Sample: | 27889-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1402 | | Sample Size: | 1.04 L | QC Batch No.: | 8205 | Date Extracted: | 21-Jul-06 |
| Date Collected: | 18-Jul-06 | | | | Date Analyzed DB-5: | 25-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1335 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000140 | | | IS 13C-2,3,7,8-TCDD | 65.9 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000166 | | | 13C-1,2,3,7,8-PeCDD | 64.4 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000491 | | | 13C-1,2,3,4,7,8-HxCDD | 63.9 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000209 | | | 13C-1,2,3,6,7,8-HxCDD | 61.2 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000205 | | | 13C-1,2,3,4,6,7,8-HpCDD | 60.1 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 0.0000200 | | | J | 13C-OCDD | 42.2 | 17 - 157 | |
| OCDD | 0.000170 | | | | 13C-2,3,7,8-TCDF | 65.1 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000182 | | | 13C-1,2,3,7,8-PeCDF | 64.3 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000149 | | | 13C-2,3,4,7,8-PeCDF | 64.4 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000140 | | | 13C-1,2,3,4,7,8-HxCDF | 68.4 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000113 | | | 13C-1,2,3,6,7,8-HxCDF | 65.6 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000970 | | | 13C-2,3,4,6,7,8-HxCDF | 65.2 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000112 | | | 13C-1,2,3,7,8,9-HxCDF | 57.9 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000177 | | | 13C-1,2,3,4,6,7,8-HpCDF | 58.1 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 0.00000256 | | | J | 13C-1,2,3,4,7,8,9-HpCDF | 57.7 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000213 | | | 13C-OCDF | 41.0 | 17 - 157 | |
| OCDF | 0.00000565 | | | J | CRS 37Cl-2,3,7,8-TCDD | 78.6 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000140 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000166 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | | 0.00000776 | | c. Method detection limit. | | | |
| Total HpCDD | 0.0000410 | | | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000182 | | | | | | |
| Total PeCDF | ND | 0.00000144 | | | | | | |
| Total HxCDF | ND | 0.00000125 | | | | | | |
| Total HpCDF | 0.00000256 | | 0.00000626 | | | | | |

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2006 15:13

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPG1402

SENDING LABORATORY:
 TestAmerica - Irvine, CA
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 261-1228
 Project Manager: Michele Chamberlin

RECEIVING LABORATORY:
 Alta Analytical - SUB
 1104 Windfield Way
 El Dorado Hills, CA 95762
 Phone : (916) 933-1640
 Fax: (916) 673-0106

27889 0.4°C

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

| Analysis | Expiration | Comments |
|------------------------------|---------------------------|--|
| Sample ID: IPG1402-01 Water | Sampled: 07/18/06 13:35 | |
| 1613-Dioxin-HR-Alta | 07/25/06 13:35 | J flags, 17 congeners, no TEQ, ug/L, sub=Alta |
| Level 4 + EDD-OUT | 08/15/06 13:35 | Excl EDD equal to pm, include Std logs for Lvl IV |

Containers Supplied:
 1 L Amber (IPG1402-01N)
 1 L Amber (IPG1402-01O)

*Boeing EOD
mc
7/20/06*

SAMPLE INTEGRITY:

All containers intact: Yes No
 Custody Seals Present: Yes No
 Sample labels/COC agree: Yes No
 Samples Preserved Properly: Yes No
 Samples Received On Ice: Yes No
 Samples Received at (temp): _____

Released By: _____ Date: _____ Time: _____
 Received By: *Bettina J. Benedict* Date: *4/20/06* Time: *0925*

Released By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27889

| | | | |
|----------------------|---|--|----------------------------------|
| Samples Arrival: | Date/Time <u>7/20/06 0925</u> | Initials: <u>UBSB</u> | Location: <u>WR-2</u> |
| Logged In: | Date/Time <u>7/20/06 1144</u> | Initials: <u>FEB</u> | Location: <u>WR-2</u> |
| Delivered By: | <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> Cal |
| | <input type="checkbox"/> DHL | <input type="checkbox"/> Hand Delivered | <input type="checkbox"/> Other |
| Preservation: | <input checked="" type="checkbox"/> Ice | <input type="checkbox"/> Blue Ice | <input type="checkbox"/> Dry Ice |
| | <input type="checkbox"/> None | | |
| Temp °C <u>0.4°C</u> | Time: <u>0925 1025</u> | Thermometer ID: <u>DT-20</u> <u>UBSB</u> | |
| | | <u>DT-1</u> | |

| | YES | NO | NA |
|--|------|--|--|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | ✓ | | |
| Trk # <u>7915 0101 2280</u> | | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | | ✓ |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| Shipping Container | Alta | <input checked="" type="checkbox"/> Client | <input checked="" type="checkbox"/> Retain |
| | | <input checked="" type="checkbox"/> Return | <input type="checkbox"/> Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/18/06
Received: 07/18/06
Issued: 07/24/06 17:00

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 4 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 4°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: Enclosed are complete final results.

LABORATORY ID
IPG1405-01

CLIENT ID
PT-INF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1405-01 (PT-INF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G20074 | 0.0088 | 0.040 | 1.0 | 1 | 07/20/06 | 07/20/06 | |
| Sample ID: IPG1405-01 (PT-INF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G20072 | 0.18 | 2.0 | 0.63 | 1 | 07/20/06 | 07/20/06 | J |
| Arsenic | EPA 200.7 | 6G20074 | 3.8 | 5.0 | 5.1 | 1 | 07/20/06 | 07/20/06 | |
| Beryllium | EPA 200.7 | 6G20074 | 0.62 | 2.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Cadmium | EPA 200.8 | 6G20072 | 0.015 | 1.0 | 0.049 | 1 | 07/20/06 | 07/20/06 | J |
| Chromium | EPA 200.7 | 6G20074 | 0.68 | 5.0 | 0.81 | 1 | 07/20/06 | 07/20/06 | J |
| Copper | EPA 200.8 | 6G20072 | 0.49 | 2.0 | 1.4 | 1 | 07/20/06 | 07/20/06 | J |
| Lead | EPA 200.8 | 6G20072 | 0.13 | 1.0 | 0.96 | 1 | 07/20/06 | 07/20/06 | J |
| Manganese | EPA 200.7 | 6G20074 | 3.2 | 20 | 140 | 1 | 07/20/06 | 07/20/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.063 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G20074 | 2.0 | 10 | 2.8 | 1 | 07/20/06 | 07/20/06 | J |
| Selenium | EPA 200.8 | 6G20072 | 0.36 | 2.0 | 0.59 | 1 | 07/20/06 | 07/20/06 | J |
| Silver | EPA 200.8 | 6G20072 | 0.089 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Thallium | EPA 200.8 | 6G20072 | 0.075 | 1.0 | 0.075 | 1 | 07/20/06 | 07/20/06 | J |
| Zinc | EPA 200.7 | 6G20074 | 3.7 | 20 | 14 | 1 | 07/20/06 | 07/20/06 | J |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1405-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G19101 | 0.015 | 0.040 | 0.029 | 1 | 07/19/06 | 07/20/06 | J |
| Sample ID: IPG1405-01 (PT-INF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G20073 | 0.050 | 2.0 | 0.59 | 1 | 07/20/06 | 07/20/06 | J |
| Arsenic | EPA 200.7-Diss | 6G19101 | 4.4 | 5.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Beryllium | EPA 200.7-Diss | 6G19101 | 0.90 | 2.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Cadmium | EPA 200.8-Diss | 6G20073 | 0.025 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Chromium | EPA 200.7-Diss | 6G19101 | 2.0 | 5.0 | ND | 1 | 07/19/06 | 07/20/06 | |
| Copper | EPA 200.8-Diss | 6G20073 | 0.25 | 2.0 | 0.53 | 1 | 07/20/06 | 07/20/06 | J |
| Lead | EPA 200.8-Diss | 6G20073 | 0.040 | 1.0 | 0.058 | 1 | 07/20/06 | 07/20/06 | J |
| Manganese | EPA 200.7-Diss | 6G19101 | 7.0 | 20 | ND | 1 | 07/19/06 | 07/20/06 | |
| Mercury | EPA 245.1-Diss | 6G20093 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7-Diss | 6G19101 | 2.0 | 10 | 2.1 | 1 | 07/19/06 | 07/20/06 | J |
| Selenium | EPA 200.8-Diss | 6G20073 | 0.30 | 2.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Silver | EPA 200.8-Diss | 6G20073 | 0.025 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Thallium | EPA 200.8-Diss | 6G20073 | 0.15 | 1.0 | ND | 1 | 07/20/06 | 07/20/06 | |
| Zinc | EPA 200.7-Diss | 6G19101 | 15 | 20 | ND | 1 | 07/19/06 | 07/20/06 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1405-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G19117 | N/A | NA | 1.0 | 1 | 07/19/06 | 07/19/06 | |
| Sample ID: IPG1405-01 (PT-INF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G24060 | 10 | 10 | 19 | 1 | 07/24/06 | 07/24/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G19115 | 0.43 | 0.50 | 2.0 | 1 | 07/19/06 | 07/19/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G20077 | 2.0 | 2.0 | 170 | 1 | 07/20/06 | 07/20/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G20108 | 0.30 | 0.50 | ND | 1 | 07/20/06 | 07/20/06 | |
| Hardness (as CaCO3) | SM2340B | 6G20074 | 1.0 | 1.0 | 200 | 1 | 07/20/06 | 07/20/06 | |
| Nitrate-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrite-N | EPA 300.0 | 6G18117 | 0.080 | 0.15 | ND | 1 | 07/18/06 | 07/19/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G18117 | 0.072 | 0.26 | ND | 1 | 07/18/06 | 07/19/06 | |
| Oil & Grease | EPA 413.1 | 6G21001 | 0.90 | 4.8 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G18117 | 1.8 | 5.0 | 70 | 10 | 07/18/06 | 07/19/06 | |
| Total Dissolved Solids | SM2540C | 6G19077 | 10 | 10 | 370 | 1 | 07/19/06 | 07/19/06 | |
| Total Organic Carbon | EPA 415.1 | 6G19131 | 0.50 | 1.0 | 11 | 1 | 07/19/06 | 07/19/06 | |
| Total Suspended Solids | EPA 160.2 | 6G19110 | 10 | 10 | 19 | 1 | 07/19/06 | 07/19/06 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1405

Sampled: 07/18/06
Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1405-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G19094 | 0.040 | 1.0 | 16 | 1 | 07/19/06 | 07/19/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1405

Sampled: 07/18/06
Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1405-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G19089 | N/A | NA | 7.77 | 1 | 07/19/06 | 07/19/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1405-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G19071 | 1.0 | 1.0 | 610 | 1 | 07/19/06 | 07/19/06 | |

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1405

Sampled: 07/18/06
Received: 07/18/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|---|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: PT-INF (IPG1405-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/18/2006 12:45 | 07/18/2006 17:25 | 07/19/2006 09:30 | 07/19/2006 10:05 |
| EPA 180.1 | 2 | 07/18/2006 12:45 | 07/18/2006 17:25 | 07/19/2006 10:45 | 07/19/2006 11:15 |
| EPA 300.0 | 2 | 07/18/2006 12:45 | 07/18/2006 17:25 | 07/18/2006 23:00 | 07/19/2006 01:24 |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20072 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20072-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20072-BS1) | | | | | | | | | | | |
| Antimony | 80.6 | 2.0 | 0.050 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Copper | 82.7 | 2.0 | 0.25 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Lead | 82.1 | 1.0 | 0.040 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Silver | 82.7 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Thallium | 83.3 | 1.0 | 0.075 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20072-MS1) Source: IPG1519-01 | | | | | | | | | | | |
| Antimony | 86.5 | 2.0 | 0.18 | ug/l | 80.0 | 0.46 | 108 | 70-130 | | | |
| Cadmium | 80.0 | 1.0 | 0.015 | ug/l | 80.0 | 0.079 | 100 | 70-130 | | | |
| Copper | 78.2 | 2.0 | 0.49 | ug/l | 80.0 | 4.6 | 92 | 70-130 | | | |
| Lead | 78.3 | 1.0 | 0.13 | ug/l | 80.0 | 0.62 | 97 | 70-130 | | | |
| Selenium | 144 | 2.0 | 0.36 | ug/l | 80.0 | 66 | 98 | 70-130 | | | |
| Silver | 75.6 | 1.0 | 0.089 | ug/l | 80.0 | ND | 94 | 70-130 | | | |
| Thallium | 78.5 | 1.0 | 0.075 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20072-MSD1) Source: IPG1519-01 | | | | | | | | | | | |
| Antimony | 86.9 | 2.0 | 0.18 | ug/l | 80.0 | 0.46 | 108 | 70-130 | 1 | 20 | |
| Cadmium | 80.2 | 1.0 | 0.015 | ug/l | 80.0 | 0.079 | 100 | 70-130 | 0 | 20 | |
| Copper | 79.1 | 2.0 | 0.49 | ug/l | 80.0 | 4.6 | 93 | 70-130 | 1 | 20 | |
| Lead | 77.4 | 1.0 | 0.13 | ug/l | 80.0 | 0.62 | 96 | 70-130 | 1 | 20 | |
| Selenium | 143 | 2.0 | 0.36 | ug/l | 80.0 | 66 | 96 | 70-130 | 1 | 20 | |
| Silver | 75.9 | 1.0 | 0.089 | ug/l | 80.0 | ND | 95 | 70-130 | 0 | 20 | |
| Thallium | 78.2 | 1.0 | 0.075 | ug/l | 80.0 | ND | 98 | 70-130 | 0 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1405

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20074 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20074-BLK1) | | | | | | | | | | | |
| Arsenic | 4.28 | 5.0 | 3.8 | ug/l | | | | | | | J |
| Beryllium | ND | 2.0 | 0.62 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 0.68 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.0088 | mg/l | | | | | | | |
| Manganese | ND | 20 | 3.2 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 3.7 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20074-BS1) | | | | | | | | | | | |
| Arsenic | 486 | 5.0 | 3.8 | ug/l | 500 | | 97 | 85-115 | | | |
| Beryllium | 486 | 2.0 | 0.62 | ug/l | 500 | | 97 | 85-115 | | | |
| Chromium | 489 | 5.0 | 0.68 | ug/l | 500 | | 98 | 85-115 | | | |
| Iron | 0.495 | 0.040 | 0.0088 | mg/l | 0.500 | | 99 | 85-115 | | | |
| Manganese | 496 | 20 | 3.2 | ug/l | 500 | | 99 | 85-115 | | | |
| Nickel | 482 | 10 | 2.0 | ug/l | 500 | | 96 | 85-115 | | | |
| Zinc | 481 | 20 | 3.7 | ug/l | 500 | | 96 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20074-MS1) Source: IPG1496-01 | | | | | | | | | | | |
| Arsenic | 505 | 5.0 | 3.8 | ug/l | 500 | 8.2 | 99 | 70-130 | | | |
| Beryllium | 497 | 2.0 | 0.62 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Chromium | 495 | 5.0 | 0.68 | ug/l | 500 | 2.0 | 99 | 70-130 | | | |
| Iron | 0.506 | 0.040 | 0.0088 | mg/l | 0.500 | ND | 101 | 70-130 | | | |
| Manganese | 497 | 20 | 3.2 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Nickel | 490 | 10 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | | | |
| Zinc | 507 | 20 | 3.7 | ug/l | 500 | ND | 101 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20074-MSD1) Source: IPG1496-01 | | | | | | | | | | | |
| Arsenic | 504 | 5.0 | 3.8 | ug/l | 500 | 8.2 | 99 | 70-130 | 0 | 20 | |
| Beryllium | 497 | 2.0 | 0.62 | ug/l | 500 | ND | 99 | 70-130 | 0 | 20 | |
| Chromium | 503 | 5.0 | 0.68 | ug/l | 500 | 2.0 | 100 | 70-130 | 2 | 20 | |
| Iron | 0.513 | 0.040 | 0.0088 | mg/l | 0.500 | ND | 103 | 70-130 | 1 | 20 | |
| Manganese | 496 | 20 | 3.2 | ug/l | 500 | ND | 99 | 70-130 | 0 | 20 | |
| Nickel | 498 | 10 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | 2 | 20 | |
| Zinc | 514 | 20 | 3.7 | ug/l | 500 | ND | 103 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1337-01 | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1337-01 | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |

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Report Number: IPG1405

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Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19101 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19101-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19101-BS1) | | | | | | | | | | | |
| Arsenic | 1010 | 5.0 | 4.4 | ug/l | 1000 | | 101 | 85-115 | | | |
| Beryllium | 986 | 2.0 | 0.90 | ug/l | 1000 | | 99 | 85-115 | | | |
| Chromium | 1020 | 5.0 | 2.0 | ug/l | 1000 | | 102 | 85-115 | | | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Manganese | 1010 | 20 | 7.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Nickel | 1030 | 10 | 2.0 | ug/l | 1000 | | 103 | 85-115 | | | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19101-MS1) Source: IPG1402-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.023 | 99 | 70-130 | | | |
| Manganese | 987 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 983 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19101-MSD1) Source: IPG1402-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | 0 | 20 | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.023 | 100 | 70-130 | 1 | 20 | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Nickel | 991 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1040 | 20 | 15 | ug/l | 1000 | ND | 104 | 70-130 | 1 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1405

Sampled: 07/18/06
Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20073 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20073-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | ND | 2.0 | 0.25 | ug/l | | | | | | | |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20073-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.7 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 81.5 | 2.0 | 0.25 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Lead | 81.6 | 1.0 | 0.040 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Selenium | 80.9 | 2.0 | 0.30 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Silver | 80.8 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Thallium | 81.9 | 1.0 | 0.15 | ug/l | 80.0 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20073-MS1) Source: IPG1402-01 | | | | | | | | | | | |
| Antimony | 81.7 | 2.0 | 0.050 | ug/l | 80.0 | 0.60 | 101 | 70-130 | | | |
| Cadmium | 78.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Copper | 79.2 | 2.0 | 0.25 | ug/l | 80.0 | 0.60 | 98 | 70-130 | | | |
| Lead | 78.5 | 1.0 | 0.040 | ug/l | 80.0 | 0.056 | 98 | 70-130 | | | |
| Selenium | 77.9 | 2.0 | 0.30 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Silver | 77.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20073-MSD1) Source: IPG1402-01 | | | | | | | | | | | |
| Antimony | 83.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.60 | 104 | 70-130 | 2 | 20 | |
| Cadmium | 80.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 100 | 70-130 | 2 | 20 | |
| Copper | 81.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.60 | 101 | 70-130 | 3 | 20 | |
| Lead | 79.9 | 1.0 | 0.040 | ug/l | 80.0 | 0.056 | 100 | 70-130 | 2 | 20 | |
| Selenium | 79.5 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | 2 | 20 | |
| Silver | 79.8 | 1.0 | 0.025 | ug/l | 80.0 | ND | 100 | 70-130 | 3 | 20 | |
| Thallium | 80.7 | 1.0 | 0.15 | ug/l | 80.0 | ND | 101 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20093 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20093-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20093-BS1) | | | | | | | | | | | |
| Mercury | 7.86 | 0.20 | 0.15 | ug/l | 8.00 | | 98 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20093-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Mercury | 7.25 | 0.20 | 0.15 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20093-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Mercury | 7.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 90 | 70-130 | 1 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|----------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G18117 Extracted: 07/18/06 | | | | | | | | | | | |
| Blank Analyzed: 07/18/2006 (6G18117-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/18/2006 (6G18117-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.20 | 0.15 | 0.080 | mg/l | 1.13 | | 106 | 90-110 | | | |
| Nitrite-N | 1.58 | 0.15 | 0.080 | mg/l | 1.52 | | 104 | 90-110 | | | |
| Sulfate | 9.70 | 0.50 | 0.18 | mg/l | 10.0 | | 97 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/18/2006 (6G18117-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Nitrate-N | 1.19 | 0.15 | 0.080 | mg/l | 1.13 | ND | 105 | 80-120 | | | |
| Nitrite-N | 1.82 | 0.15 | 0.080 | mg/l | 1.52 | ND | 120 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/18/2006 (6G18117-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Nitrate-N | 1.24 | 0.15 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | 4 | 20 | |
| Nitrite-N | 1.87 | 0.15 | 0.080 | mg/l | 1.52 | ND | 123 | 80-120 | 3 | 20 | MI |
| Batch: 6G19071 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19071-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Specific Conductance | 613 | 1.0 | 1.0 | umhos/cm | | 620 | | | 1 | 5 | |
| Batch: 6G19077 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19077-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 Report Number: IPG1405

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 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19077 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19077-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 994 | 10 | 10 | mg/l | 1000 | | 99 | 90-110 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19077-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 243 | 10 | 10 | mg/l | | Source: IPG1408-01 240 | | | 1 | 10 | |
| Batch: 6G19089 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP1) | | | | | | | | | | | |
| pH | 7.24 | NA | 0.00 | pH Units | | Source: IPG1353-01 7.22 | | | 0 | 5 | |
| Duplicate Analyzed: 07/19/2006 (6G19089-DUP2) | | | | | | | | | | | |
| pH | 7.93 | NA | 0.00 | pH Units | | Source: IPG1387-01 7.91 | | | 0 | 5 | |
| Batch: 6G19094 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19094-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19094-DUP1) | | | | | | | | | | | |
| Turbidity | 15.9 | 1.0 | 0.040 | NTU | | Source: IPG1405-01 16 | | | 1 | 20 | |
| Batch: 6G19110 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19110-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G19110 Extracted: 07/19/06 | | | | | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19110-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 978 | 10 | 10 | mg/l | 1000 | | 98 | 85-115 | | | |
| Duplicate Analyzed: 07/19/2006 (6G19110-DUP1) Source: IPG1316-01 | | | | | | | | | | | |
| Total Suspended Solids | 11.0 | 10 | 10 | mg/l | | 13 | | | 17 | 10 | R-3 |
| Batch: 6G19115 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19115-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19115-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.6 | 0.50 | 0.43 | mg/l | 20.0 | | 98 | 85-120 | | | |
| LCS Dup Analyzed: 07/19/2006 (6G19115-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 2 | 15 | |
| Matrix Spike Analyzed: 07/19/2006 (6G19115-MS1) Source: IPG0891-02 | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19115-MSD1) Source: IPG0891-02 | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | 3 | 15 | |
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP1) Source: IPG0469-03 | | | | | | | | | | | |
| Density | 1.02 | NA | N/A | g/cc | | 1.0 | | | 2 | 20 | |

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 Pasadena, CA 91101
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19117 Extracted: 07/19/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/19/2006 (6G19117-DUP2) | | | | | | | | | | | |
| Density | 0.986 | NA | N/A | g/cc | | 0.99 | | | 0 | 20 | |
| Batch: 6G19131 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19131-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.433 | 1.0 | 0.25 | mg/l | | | | | | | J |
| LCS Analyzed: 07/19/2006 (6G19131-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.5 | 1.0 | 0.25 | mg/l | 10.0 | | 105 | 90-110 | | | |
| Matrix Spike Analyzed: 07/19/2006 (6G19131-MS1) | | | | | | | | | | | |
| Total Organic Carbon | 12.1 | 1.0 | 0.25 | mg/l | 5.00 | 7.6 | 90 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19131-MSD1) | | | | | | | | | | | |
| Total Organic Carbon | 12.4 | 1.0 | 0.25 | mg/l | 5.00 | 7.6 | 96 | 80-120 | 2 | 20 | |
| Batch: 6G20074 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20074-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |
| Batch: 6G20077 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20077-DUP1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 172 | 2.0 | 2.0 | mg/l | | 170 | | | 1 | 20 | |

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 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20077 Extracted: 07/20/06 | | | | | | | | | | | |
| Reference Analyzed: 07/20/2006 (6G20077-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |
| Batch: 6G20108 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20108-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20108-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | | 112 | 80-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20108-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20108-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1381-01 | | | | | |
| Ammonia-N (Distilled) | 11.5 | 0.50 | 0.30 | mg/l | 10.0 | 1.1 | 104 | 70-120 | 0 | 15 | |
| Batch: 6G21001 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21001-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21001-BS1) | | | | | | | | | | | |
| Oil & Grease | 19.1 | 5.0 | 0.94 | mg/l | 20.0 | | 96 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21001-BSD1) | | | | | | | | | | | |
| Oil & Grease | 18.7 | 5.0 | 0.94 | mg/l | 20.0 | | 94 | 65-120 | 2 | 20 | |

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1405

Sampled: 07/18/06
Received: 07/18/06

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1405

Sampled: 07/18/06
 Received: 07/18/06

Certification Summary

TestAmerica - Irvine, CA

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| 1613A/1613B | Water | | |
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 120.1 | Water | X | X |
| EPA 150.1 | Water | X | X |
| EPA 160.2 | Water | X | X |
| EPA 180.1 | Water | X | X |
| EPA 200.7-Diss | Water | X | X |
| EPA 200.7 | Water | X | X |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 245.1-Diss | Water | X | X |
| EPA 245.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 310.1 | Water | X | X |
| EPA 350.2 | Water | | X |
| EPA 351.3 | Water | | |
| EPA 413.1 | Water | X | X |
| EPA 415.1 | Water | X | X |
| SM2340B | Water | X | X |
| SM2540C | Water | X | X |

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

Subcontracted Laboratories

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPG1405-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

IPG 1405

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

| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test | | | | | | | | | | | | | | | | |
|--|---------------|---|------------|--------------------|--------------|----------|--|---|----------------------|--------------------------|-------------------------|--|------------------------------|-------------------|--|--------------------------|-----------------------------------|----------|
| Project Manager: Bronwyn Kelly | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | | | | | | | | | | | | | | | |
| Sampler: | | | | | | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413 1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn | TCDD (and all congeners) | Field readings: Temp = pH = | Comments |
| PT-INF | W | Poly-1L | 1 | 7-18-06 12:45 | HNO3 | 1 | X | X | | | | | | | | | | |
| PT-INF | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | | | |
| PT-INF | W | VOAs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | | |
| PT-INF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | X | | | | | | | | | |
| PT-INF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | X | | | | | | | | |
| PT-INF | W | Poly-500 ml | 1 | | None | 6 | | | | | X | | | | | | | |
| PT-INF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | X | | | | | | |
| PT-INF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | X | | | | | |
| PT-INF | W | Poly-1L | 1 | | None | 9 | | | | | | | | | | | | |
| PT-INF | W | 1L Amber | 2 | | None | 10A, 10B | | | | | | | | | | | | |
| Relinquished By | | | | 7-18-06 14:20 | | | | | | | | | | | | | | |
| Relinquished By | | | | 7-18-06 17:25 | | | | | | | | | | | | | | |
| Relinquished By | | | | | | | | | | | | | | | | | | |

Received By: *[Signature]* Date/Time: 7-18-06 14:20
 Received By: *[Signature]* Date/Time: 7-18-06 17:25
 Received By: _____ Date/Time: _____

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal X
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) On Ice: X 4°C

PPG 1405

IPG/405

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

| | | | | | | | | | | | | | | | | | | |
|---|---------------------------|---|------------------------|---|-----------------------------|--------------------------|---|---|----------------------|--------------------------|-------------------------|--|------------------------------|-------------------|---|--------------------------|--|--|
| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | ANALYSIS REQUIRED | | Field readings: Temp = _____ pH = _____ Comments _____ | | | | | | | | | | |
| Sample Description PT-INF | Sample Matrix W | Container Type Poly-1L | # of Cont. 1 | Sampling Date/Time 7-18-06 12:55 | Preservative HNO3 | Bottle # 1 | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413 1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn | TCDD (and all congeners) | Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ | |
| PT-INF | W | Poly-1L | 1 | 7-18-06 12:55 | None | 1 | X | X | | | | | | | | | | |
| PT-INF | W | Poly-1L | 1 | | None | 2 | | | | | | | | | | | | |
| PT-INF | W | VOAs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | | |
| PT-INF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | X | | | | | | | | |
| PT-INF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | | X | | | | | | | |
| PT-INF | W | Poly-500 ml | 1 | | None | 6 | | | | | | X | | | | | | |
| PT-INF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | X | | | | | |
| PT-INF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | | X | | | | |
| PT-INF | W | Poly-1L | 1 | | None | 9 | | | | | | | | | X | | | |
| PT-INF | W | 1L Amber | 2 | | None | 10A, 10B | | | | | | | | | | | | |
| Relinquished By | | | | 7-18-06 14:20 | | | | | | | | | | | | | | |
| Relinquished By | | | | 7-18-06 17:25 | | | | | | | | | | | | | | |
| Relinquished By | | | | | | | | | | | | | | | | | | |

PPASADENA

Michele Chamberlin

From: Michele Chamberlin
Sent: Thursday, July 20, 2006 3:39 PM
To: 'Eric Walker'
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: RE: Sample Temp for 7/18/06 R2A Pond Pilot Test

Hi Eric,
Sounds good and I will just add a narrative to each of the reports and that is where the temperature gets displayed.
Thanks,
Michele

From: Eric Walker [mailto:Eric.Walker@us.mwhglobal.com]
Sent: Thursday, July 20, 2006 3:34 PM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric S Tsai
Subject: Re: Sample Temp for 7/18/06 R2A Pond Pilot Test

Michele:

We need to ignore the temperature as a field reading since it's not an accurate measurement for field conditions.

Just list the temperature in the report as "received" by the lab.

Thanks,

Eric Walker
MWH Americas, Inc
300 North Lake Avenue, Suite 1200
Pasadena, California 91101
(626) 786-0093 Mobile
(626) 568-6852 Direct Line
(626) 568-6515 FAX

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"Michele Chamberlin"
<mchamberlin@testamericainc.com>

07/20/2006 03:14 PM

To: "Eric Walker" <Eric.Walker@us.mwhglobal.com>
cc: "Bronwyn K Kelly" <Bronwyn.K.Kelly@us.mwhglobal.com>, "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>
Subject: Sample Temp for 7/18/06 R2A Pond Pilot Test

7/20/2006

Hi Eric:

I wanted to let you know that the temperature measured upon receipt was taken from the cooler and was 4 degrees C for the samples. The request to take the temperature and pH was from Rick Banaga since he was unable to measure it in the field.

Do you want that in the report?

Please let me know.

Thanks,
Michele



July 28, 2006

Alta Project I.D.: 27894

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on July 20, 2006 under your Project Name "IPG1405". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
HRMS Services Director



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762
(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 7/20/2006

Alta Lab. ID

Client Sample ID

27894-001

IPG1405-01

SECTION II

| Method Blank | | EPA Method 1613 | | | | | |
|---------------------|--------------|-----------------|-------------------|---|-----------|----------------------|------------|
| Matrix: | Aqueous | QC Batch No.: | 8206 | Lab Sample: | 0-MB001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 22-Jul-06 | Date Analyzed DB-5: | 24-Jul-06 | | |
| | | | | Date Analyzed DB-225: | NA | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000125 | | IS 13C-2,3,7,8-TCDD | 84.9 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000107 | | 13C-1,2,3,7,8-PeCDD | 88.0 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000110 | | 13C-1,2,3,4,7,8-HxCDD | 73.1 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000110 | | 13C-1,2,3,6,7,8-HxCDD | 76.4 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000106 | | 13C-1,2,3,4,6,7,8-HpCDD | 69.9 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000130 | | 13C-OCDD | 57.7 | 17 - 157 | |
| OCDD | ND | 0.00000259 | | 13C-2,3,7,8-TCDF | 84.0 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000136 | | 13C-1,2,3,7,8-PeCDF | 92.8 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000187 | | 13C-2,3,4,7,8-PeCDF | 97.3 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000166 | | 13C-1,2,3,4,7,8-HxCDF | 79.1 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000457 | | 13C-1,2,3,6,7,8-HxCDF | 76.7 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000457 | | 13C-2,3,4,6,7,8-HxCDF | 76.5 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000483 | | 13C-1,2,3,7,8,9-HxCDF | 73.7 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000657 | | 13C-1,2,3,4,6,7,8-HpCDF | 71.1 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000949 | | 13C-1,2,3,4,7,8,9-HpCDF | 73.5 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000940 | | 13C-OCDF | 59.4 | 17 - 157 | |
| OCDF | ND | 0.00000342 | | CRS 37Cl-2,3,7,8-TCDD | 94.8 | 35 - 197 | |
| Totals | | | | | | | |
| Total TCDD | ND | 0.00000125 | | Footnotes | | | |
| Total PeCDD | ND | 0.00000107 | | a. Sample specific estimated detection limit. | | | |
| Total HxCDD | ND | 0.00000108 | | b. Estimated maximum possible concentration. | | | |
| Total HpCDD | ND | 0.00000130 | | c. Method detection limit. | | | |
| Total TCDF | ND | 0.00000136 | | d. Lower control limit - upper control limit. | | | |
| Total PeCDF | ND | 0.00000176 | | | | | |
| Total HxCDF | ND | 0.00000506 | | | | | |
| Total HpCDF | ND | 0.00000945 | | | | | |

Analyst: DMS

Approved By: William J. Luksemburg 28-Jul-2006 09:04

EPA Method 1613

OPR Results

| Matrix: Aqueous | | QC Batch No.: 8206 | Lab Sample: 0-OPR001 |
|---------------------|---------------------|---------------------------|-------------------------------|
| Sample Size: 1.00 L | | Date Extracted: 22-Jul-06 | Date Analyzed DB-5: 24-Jul-06 |
| Analyte | Spike Conc. (ng/mL) | OPR Limits | Labeled Standard |
| 2,3,7,8-TCDD | 10.0 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD |
| 1,2,3,7,8-PeCDD | 50.0 | 35 - 71 | 13C-1,2,3,7,8-PeCDD |
| 1,2,3,4,7,8-HxCDD | 50.0 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD |
| 1,2,3,6,7,8-HxCDD | 50.0 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD |
| 1,2,3,7,8,9-HxCDD | 50.0 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 35 - 70 | 13C-OCDD |
| OCDD | 100 | 78 - 144 | 13C-2,3,7,8-TCDF |
| 2,3,7,8-TCDF | 10.0 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF |
| 1,2,3,7,8-PeCDF | 50.0 | 40 - 67 | 13C-2,3,4,7,8-PeCDF |
| 2,3,4,7,8-PeCDF | 50.0 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF |
| 1,2,3,4,7,8-HxCDF | 50.0 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF |
| 1,2,3,6,7,8-HxCDF | 50.0 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF |
| 2,3,4,6,7,8-HxCDF | 50.0 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF |
| 1,2,3,7,8,9-HxCDF | 50.0 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 39 - 69 | 13C-OCDF |
| OCDF | 100 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD |
| | | | |
| | | | %R |
| | | | LCL-UCL |
| | | | 84.6 |
| | | | 25 - 164 |
| | | | 93.1 |
| | | | 25 - 181 |
| | | | 73.4 |
| | | | 32 - 141 |
| | | | 80.5 |
| | | | 28 - 130 |
| | | | 71.9 |
| | | | 23 - 140 |
| | | | 62.6 |
| | | | 17 - 157 |
| | | | 78.1 |
| | | | 24 - 169 |
| | | | 87.8 |
| | | | 24 - 185 |
| | | | 90.6 |
| | | | 21 - 178 |
| | | | 78.4 |
| | | | 26 - 152 |
| | | | 80.9 |
| | | | 26 - 123 |
| | | | 78.1 |
| | | | 28 - 136 |
| | | | 74.5 |
| | | | 29 - 147 |
| | | | 76.7 |
| | | | 28 - 143 |
| | | | 77.9 |
| | | | 26 - 138 |
| | | | 66.7 |
| | | | 17 - 157 |
| | | | 91.8 |
| | | | 35 - 197 |

Analyst: DMS

Approved By: William J. Luksemburg 28-Jul-2006 09:04

Sample ID: **IPG1405-01**

EPA Method **1613**

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|---------------------|--------------|---------|---------------------|-----------|-----------------------|-----------|
| Name: | Test America-Irvine | Matrix: | Aqueous | Lab Sample: | 27894-001 | Date Received: | 20-Jul-06 |
| Project: | IPG1405 | Sample Size: | 1.01 L | QC Batch No.: | 8206 | Date Extracted: | 22-Jul-06 |
| Date Collected: | 18-Jul-06 | | | Date Analyzed DB-5: | 24-Jul-06 | Date Analyzed DB-225: | NA |
| Time Collected: | 1245 | | | | | | |

| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
|---------------------|--------------|-----------------|-------------------|------------|-------------------------|------|----------------------|------------|
| 2,3,7,8-TCDD | ND | 0.00000146 | | | 13C-2,3,7,8-TCDD | 87.1 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000236 | | | 13C-1,2,3,7,8-PeCDD | 90.9 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000284 | | | 13C-1,2,3,4,7,8-HxCDD | 77.6 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000279 | | | 13C-1,2,3,6,7,8-HxCDD | 79.7 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000273 | | | 13C-1,2,3,4,6,7,8-HpCDD | 74.5 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 0.0000372 | | | | 13C-OCDD | 65.4 | 17 - 157 | |
| OCDD | 0.000344 | | | | 13C-2,3,7,8-TCDF | 89.3 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000199 | | | 13C-1,2,3,7,8-PeCDF | 98.3 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000231 | | | 13C-2,3,4,7,8-PeCDF | 101 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000221 | | | 13C-1,2,3,4,7,8-HxCDF | 82.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000961 | | | 13C-1,2,3,6,7,8-HxCDF | 81.3 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000931 | | | 13C-2,3,4,6,7,8-HxCDF | 78.6 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000108 | | | 13C-1,2,3,7,8,9-HxCDF | 78.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000138 | | | 13C-1,2,3,4,6,7,8-HpCDF | 78.7 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 0.00000555 | | | J | 13C-1,2,3,4,7,8,9-HpCDF | 79.1 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000168 | | | 13C-OCDF | 68.3 | 17 - 157 | |
| OCDF | 0.0000115 | | | J | CRS 37Cl-2,3,7,8-TCDD | 92.5 | 35 - 197 | |

Totals

| | | | | | | | | |
|-------------|------------|------------|--|--|--|--|--|--|
| Total TCDD | ND | 0.00000146 | | | | | | |
| Total PeCDD | ND | 0.00000236 | | | | | | |
| Total HxCDD | 0.0000132 | | | | | | | |
| Total HpCDD | 0.0000783 | | | | | | | |
| Total TCDF | 0.00000494 | | | | | | | |
| Total PeCDF | ND | 0.00000226 | | | | | | |
| Total HxCDF | 0.00000528 | | | | | | | |
| Total HpCDF | 0.0000158 | | | | | | | |

Footnotes
a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Method detection limit.
d. Lower control limit - upper control limit.

Analyst: RAS

Approved By: William J. Luksemburg 28-Jul-2006 09:04

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

| | |
|-------|--|
| B | This compound was also detected in the method blank. |
| D | The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference. |
| E | The reported value exceeds the calibration range of the instrument. |
| H | The signal-to-noise ratio is greater than 10:1. |
| I | Chemical interference |
| J | The amount detected is below the Lower Calibration Limit of the instrument. |
| * | See Cover Letter |
| Conc. | Concentration |
| DL | Sample-specific estimated Detection Limit |
| MDL | The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested. |
| EMPC | Estimated Maximum Possible Concentration |
| NA | Not applicable |
| RL | Reporting Limit – concentrations that corresponds to low calibration point |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| State of Alaska, DEC | CA413-02 |
| State of Arizona | AZ0639 |
| State of Arkansas, DEQ | 05-013-0 |
| State of Arkansas, DOH | Reciprocity through CA |
| State of California – NELAP Primary AA | 02102CA |
| State of Colorado | |
| State of Connecticut | PH-0182 |
| State of Florida, DEP | E87777 |
| Commonwealth of Kentucky | 90063 |
| State of Louisiana, Health and Hospitals | LA050001 |
| State of Louisiana, DEQ | 01977 |
| State of Maine | CA0413 |
| State of Michigan | 81178087 |
| State of Mississippi | Reciprocity through CA |
| Naval Facilities Engineering Service Center | |
| State of Nevada | CA413 |
| State of New Jersey | CA003 |
| State of New Mexico | Reciprocity through CA |
| State of New York, DOH | 11411 |
| State of North Carolina | 06700 |
| State of North Dakota, DOH | R-078 |
| State of Oklahoma | D9919 |
| State of Oregon | CA200001-002 |
| State of Pennsylvania | 68-00490 |
| State of South Carolina | 87002001 |
| State of Tennessee | 02996 |
| State of Texas | TX247-2005A |
| U.S. Army Corps of Engineers | |
| State of Utah | 9169330940 |
| Commonwealth of Virginia | 00013 |
| State of Washington | C1285 |
| State of Wisconsin | 998036160 |
| State of Wyoming | 8TMS-Q |

TestAmerica

ANALYTICAL TESTING CORPORATION

27894
0°C

SUBCONTRACT ORDER - PROJECT # IPG1405

| | |
|--|---|
| <p>SENDING LABORATORY: TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Chamberlin</p> | <p>RECEIVING LABORATORY: Alta Analytical - SUB 1104 Windfield Way El Dorado Hills, CA 95762 Phone: (916) 933-1640 Fax: (916) 673-0106</p> |
|--|---|

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

| Analysis | Expiration | Comments |
|------------------------------|---------------------------|---|
| Sample ID: IPG1405-01 Water | Sampled: 07/18/06 12:45 | |
| 1613-Dioxin-HR-Alta | 07/25/06 12:45 | I flags, 17 congeners, no TEQ, ug/L, sub=Alta |
| Level 4 + EDD-OUT | 08/15/06 12:45 | Excel EDT email to pm, include Std logs for L&IV |

*BOILING EOP.
MC
7/20/06*

Containers Supplied:
1 L Amber (IPG1405-01N)
1 L Amber (IPG1405-01O)

SAMPLE INTEGRITY:

| | | |
|---|--|---|
| All containers intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | Sample labels/COC agree: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Custody Seals Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Preserved Properly: <input type="checkbox"/> Yes <input type="checkbox"/> No | Samples Received at (temp): _____ |

Released By: _____ Date: _____ Time: _____ Received By: *Bethna J. Benedict* Date: *7/20/06* Time: *0925*

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27894

| | | | |
|------------------|-------------------------------------|--------------------------|--------------------------|
| Samples Arrival: | Date/Time: | Initials: | Location: |
| | 7/20/06 0925 | CBB | WR-2 |
| Logged In: | Date/Time: | Initials: | Location: |
| | 7/20/06 1300 | CBB | WR-2 |
| Delivered By: | FedEx | UPS | Cal |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Preservation: | Ice | Blue Ice | Dry Ice |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Temp °C | Time: | Thermometer ID: | |
| 0°C | 0955 | DT-20 | |

DT-14308

| | | YES | NO | NA |
|--|---------------------|------------------|--------|---------|
| Adequate Sample Volume Received? | | ✓ | | |
| Holding Time Acceptable? | | ✓ | | |
| Shipping Container(s) Intact? | | ✓ | | |
| Shipping Custody Seals Intact? | | ✓ | | |
| Shipping Documentation Present? | | ✓ | | |
| Airbill | Trk # 7927 90970554 | ✓ | | |
| Sample Container Intact? | | ✓ | | |
| Sample Custody Seals Intact? | | | | ✓ |
| Chain of Custody / Sample Documentation Present? | | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | COC | Sample Container | None | |
| Shipping Container | Alta | Client | Return | Dispose |

Comments:

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 18:04

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

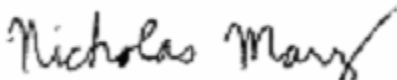
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1589-01

CLIENT ID
LC-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1589-01 (LC-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 0.38 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1589-01 (LC-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.41 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 4.6 | 1 | 07/21/06 | 07/24/06 | J |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | B |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 0.82 | 1 | 07/21/06 | 07/24/06 | J |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 0.49 | 1 | 07/21/06 | 07/24/06 | B, J |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 63 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | ND | 1 | 07/21/06 | 07/24/06 | |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.72 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | ND | 1 | 07/21/06 | 07/24/06 | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1589-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | 0.016 | 1 | 07/20/06 | 07/25/06 | J |
| Sample ID: IPG1589-01 (LC-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.38 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 0.83 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | 0.046 | 1 | 07/21/06 | 07/25/06 | J |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | 2.2 | 1 | 07/20/06 | 07/25/06 | J |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | 0.37 | 1 | 07/21/06 | 07/25/06 | J |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1589-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 1.0 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1589-01 (LC-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 0.56 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G27071 | 2.0 | 2.0 | 180 | 1 | 07/27/06 | 07/27/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G25115 | 0.30 | 0.50 | ND | 1 | 07/25/06 | 07/25/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 200 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G20041 | 0.080 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G20041 | 0.080 | 0.15 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G20041 | 0.072 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G20041 | 0.90 | 2.5 | 71 | 5 | 07/20/06 | 07/20/06 | |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 350 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24123 | 0.50 | 1.0 | 11 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25124 | 10 | 10 | ND | 1 | 07/25/06 | 07/25/06 | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1589-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 4.3 | 1 | 07/20/06 | 07/20/06 | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1589-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.84 | 1 | 07/20/06 | 07/20/06 | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1589-01 (LC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 590 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1589

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Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| Sample ID: LC-EFF (IPG1589-01) - Water | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1 | 1 | 07/19/2006 09:51 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 09:51 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 09:51 | 07/19/2006 18:10 | 07/20/2006 06:30 | 07/20/2006 10:08 |

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 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

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 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) Source: IPG1578-01 | | | | | | | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

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Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

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 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

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METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20041 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20041-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.11 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.11 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20041-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.17 | 0.11 | 0.080 | mg/l | 1.13 | | 104 | 90-110 | | | |
| Nitrite-N | 1.40 | 0.15 | 0.080 | mg/l | 1.52 | | 92 | 90-110 | | | |
| Sulfate | 9.58 | 0.50 | 0.18 | mg/l | 10.0 | | 96 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/20/2006 (6G20041-MS1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.11 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | | | |
| Nitrite-N | 1.90 | 0.15 | 0.080 | mg/l | 1.52 | ND | 125 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20041-MSD1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.25 | 0.11 | 0.080 | mg/l | 1.13 | ND | 111 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.91 | 0.15 | 0.080 | mg/l | 1.52 | ND | 126 | 80-120 | 1 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| Batch: 6G20103 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| Batch: 6G20106 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24123-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.476 | 1.0 | 0.25 | mg/l | | | | | | | J |
| LCS Analyzed: 07/24/2006 (6G24123-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.2 | 1.0 | 0.25 | mg/l | 10.0 | | 102 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS1) | | | | | | | | | | | |
| Total Organic Carbon | 7.37 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 95 | 80-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS2) | | | | | | | | | | | |
| Total Organic Carbon | 7.67 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 111 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD1) | | | | | | | | | | | |
| Total Organic Carbon | 7.50 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 98 | 80-120 | 2 | 20 | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD2) | | | | | | | | | | | |
| Total Organic Carbon | 7.36 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 105 | 80-120 | 4 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1589

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 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G25115 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25115-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25115-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1589-01 | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | ND | 112 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1589-01 | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | ND | 112 | 70-120 | 0 | 15 | |
| Batch: 6G25124 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25124-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25124-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 929 | 10 | 10 | mg/l | 1000 | | 93 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25124-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG2015-01 | | | | | |
| Total Suspended Solids | 228 | 10 | 10 | mg/l | | 210 | | | 8 | 10 | |
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |

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 Report Number: IPG1589

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |
| Batch: 6G27071 Extracted: 07/27/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/27/2006 (6G27071-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Alkalinity as CaCO3 | 228 | 2.0 | 2.0 | mg/l | | 230 | | | 1 | 20 | |
| Reference Analyzed: 07/27/2006 (6G27071-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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R-2A Pond Pilot Test
Report Number: IPG1589

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
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Sampled: 07/19/06
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Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

IPG 1589

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

| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Project Manager: Bronwyn Kelly Sampler: R. Barrow | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | ANALYSIS REQUIRED Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) Total Organic Carbon Oil & Grease (EPA 413 1) Total Kjeldahl Nitrogen SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N) Turbidity, TSS, Conductivity Ammonia-N (NH ₃ -N) Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn Field readings: Temp = 87, pH = 7.0 Comments | | | | | | | | | | | | | |
|---|---------------|---|------------|---|-----------------------------------|----------|--------------------------|---|----------------------------|--|-------------------------|--|------------------------------|---|------------------------|----------------|----------|
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413 1) | Total Kjeldahl Nitrogen | SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N) | Turbidity, TSS, Conductivity | Ammonia-N (NH ₃ -N) | Total Dissolved Metals | Field readings | Comments |
| LC-EFF | W | Poly-1L | 1 | 7/19/06 9:51 | HNO3 | 1 | X | X | | | | | | | | | |
| LC-EFF | W | Poly-1L | 1 | | None | 2 | | | | | | | | | | | |
| LC-EFF | W | VOAs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | |
| LC-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | | | | | | | | |
| LC-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | X | | | | | | | |
| LC-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | | X | | | | | |
| LC-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | X | | | | |
| LC-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | | | | | |
| LC-EFF | W | Poly-1L | 1 | 7/19/06 9:51 | None | 9 | | | | | | | | | X | | |
| Relinquished By R. Barrow | | | | Date/Time: 7/19/06 1100 | Received By <i>[Signature]</i> | | | | Date/Time: 7-19-06 | Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ 5'c | | | | Sample Integrity: (Check) On Ice: _____ | | | |
| Relinquished By <i>[Signature]</i> | | | | Date/Time: 7-19-06 1810 | Received By <i>[Signature]</i> | | | | Date/Time: 7/19/06 1810 | | | | | | | | |
| Relinquished By | | | | Date/Time: | Received By | | | | Date/Time: | | | | | | | | |

10230C

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 17:53

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

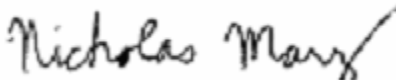
This is a revised report to correct the MDL discrepancy between total and dissolved metals. NAM 08/03/06

LABORATORY ID
IPG1563-01

CLIENT ID
Z-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1563-01 (Z-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 0.27 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1563-01 (Z-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.72 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 5.2 | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | B |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 4.8 | 1 | 07/21/06 | 07/24/06 | |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 0.44 | 1 | 07/21/06 | 07/24/06 | B, J |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 60 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | ND | 1 | 07/21/06 | 07/24/06 | |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.62 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | 0.25 | 1 | 07/21/06 | 07/24/06 | B, J |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | ND | 1 | 07/21/06 | 07/24/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1563-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | 0.017 | 1 | 07/20/06 | 07/24/06 | J |
| Sample ID: IPG1563-01 (Z-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.51 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/24/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/24/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/24/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 1.1 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/24/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | 2.2 | 1 | 07/20/06 | 07/24/06 | J |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | 0.20 | 1 | 07/21/06 | 07/25/06 | J |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/24/06 | |

TestAmerica - Irvine, CA
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 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1563-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 1.0 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1563-01 (Z-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 0.56 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G26085 | 2.0 | 2.0 | 170 | 1 | 07/26/06 | 07/26/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | 0.56 | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 190 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G19132 | 0.080 | 0.15 | ND | 1 | 07/19/06 | 07/19/06 | |
| Nitrite-N | EPA 300.0 | 6G19132 | 0.080 | 0.15 | ND | 1 | 07/19/06 | 07/19/06 | M1 |
| Nitrate/Nitrite-N | EPA 300.0 | 6G19132 | 0.072 | 0.26 | ND | 1 | 07/19/06 | 07/19/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.90 | 4.8 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G19132 | 0.36 | 1.0 | 70 | 2 | 07/19/06 | 07/20/06 | M-3 |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 380 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24071 | 0.50 | 1.0 | 12 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25112 | 10 | 10 | ND | 1 | 07/25/06 | 07/25/06 | |

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Sampled: 07/19/06
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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1563-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 5.6 | 1 | 07/20/06 | 07/20/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1563-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.70 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1563

Sampled: 07/19/06
Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1563-01 (Z-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 600 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1563

Sampled: 07/19/06
Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: Z-EFF (IPG1563-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/19/2006 09:25 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 09:25 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 09:25 | 07/19/2006 18:10 | 07/19/2006 22:00 | 07/19/2006 22:49 |

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 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1337-01 | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1337-01 | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

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R-2A Pond Pilot Test
Report Number: IPG1563

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1563

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) | | | | | | Source: IPG1566-01 | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) | | | | | | Source: IPG1578-01 | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) | | | | | | Source: IPG1566-01 | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1563

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

TestAmerica - Irvine, CA
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 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19132 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19132-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19132-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.12 | 0.15 | 0.080 | mg/l | 1.13 | ND | 99 | 90-110 | | | |
| Nitrite-N | 1.47 | 0.15 | 0.080 | mg/l | 1.52 | ND | 97 | 90-110 | | | |
| Sulfate | 9.14 | 0.50 | 0.18 | mg/l | 10.0 | ND | 91 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/19/2006 (6G19132-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Nitrate-N | 1.32 | 0.15 | 0.080 | mg/l | 1.13 | ND | 117 | 80-120 | | | |
| Nitrite-N | 1.99 | 0.15 | 0.080 | mg/l | 1.52 | ND | 131 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19132-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Nitrate-N | 1.33 | 0.15 | 0.080 | mg/l | 1.13 | ND | 118 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.93 | 0.15 | 0.080 | mg/l | 1.52 | ND | 127 | 80-120 | 3 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
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 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G20080 Extracted: 07/20/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| <u>Batch: 6G20103 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| <u>Batch: 6G20106 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| <u>Batch: 6G21067 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24071 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24071-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.487 | 1.0 | 0.25 | mg/l | | | | | | | J |

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Sampled: 07/19/06
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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24071 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24071-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.4 | 1.0 | 0.25 | mg/l | 10.0 | | 104 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24071-MS1) Source: IPG1972-03 | | | | | | | | | | | |
| Total Organic Carbon | 11.6 | 1.0 | 0.25 | mg/l | 5.00 | 6.9 | 94 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24071-MSD1) Source: IPG1972-03 | | | | | | | | | | | |
| Total Organic Carbon | 12.1 | 1.0 | 0.25 | mg/l | 5.00 | 6.9 | 104 | 80-120 | 4 | 20 | |
| Batch: 6G25112 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25112-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25112-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 892 | 10 | 10 | mg/l | 1000 | | 89 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25112-DUP1) Source: IPG1543-02 | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | ND | | | | 10 | |
| Batch: 6G26085 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26085-DUP1) Source: IPG1685-05 | | | | | | | | | | | |
| Alkalinity as CaCO3 | 220 | 2.0 | 2.0 | mg/l | | 220 | | | 0 | 20 | |
| Reference Analyzed: 07/26/2006 (6G26085-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1563

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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 R-2A Pond Pilot Test
 Report Number: IPG1563

Sampled: 07/19/06
 Received: 07/19/06

Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

IRG 1563

CHAIN OF CUSTODY FORM

Version 04/28/06

Del Mar Analytical

| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | Field readings: Temp = 80 pH = 7.0 | | | | | | | | | | | | | |
|---|---------------|---|------------|---|--------------|-------------|---|---|----------------------|---------------------------|-------------------------|--|------------------------------|---------------------------------|---|-------------------|--|
| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | Comments: | | | | | | | | | | | | | |
| Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | Sampler: <i>R. Bayak</i> | | | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn | Field readings: | |
| Z-EFF | W | Poly-1L | 1 | 7-19-06 09:35 | HNO3 | 1 | X | X | | | | | | | | | |
| Z-EFF | W | Poly-1L | 1 | | None | 2 | | X | X | | | | | | | | |
| Z-EFF | W | VOAs | 2 | | HCl | 3A, 3B | | | | | | | | | | | |
| Z-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | X | | | | | | | | |
| Z-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | X | | | | | | | |
| Z-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | X | | | | | | |
| Z-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | X | | | | |
| Z-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | | X | | | |
| Z-EFF | W | Poly-1L | 1 | 7-19-06 09:25 | None | 9 | | | | | | | | | X | | |
| Relinquished By | | 7-19-06 | | Date/Time: 1100 | | Received By | | Date/Time: 7-19-06 1100 | | Turn around Time: (check) | | 24 Hours | | 5 Days | | | |
| Relinquished By | | 7-19-06 | | Date/Time: 1810 | | Received By | | Date/Time: 7-19-06 1810 | | 48 Hours | | 10 Days | | Normal | | X | |
| Relinquished By | | | | Date/Time: | | Received By | | Date/Time: | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity (Check) Intact | | On Ice: <i>SI</i> | |

M2223

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 17:55

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

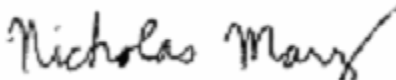
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1565-01

CLIENT ID
BST-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1565

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1565-01 (BST-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 0.74 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1565-01 (BST-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.50 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 5.4 | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.037 | 1 | 07/21/06 | 07/24/06 | B, J |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 3.1 | 1 | 07/21/06 | 07/24/06 | |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 1.1 | 1 | 07/21/06 | 07/24/06 | B |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 100 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | ND | 1 | 07/21/06 | 07/24/06 | |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.69 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.030 | 1 | 07/21/06 | 07/24/06 | J |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | ND | 1 | 07/21/06 | 07/24/06 | |

TestAmerica - Irvine, CA
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1565

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1565-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | 0.024 | 1 | 07/20/06 | 07/25/06 | J |
| Sample ID: IPG1565-01 (BST-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.54 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 0.58 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | 2.4 | 1 | 07/20/06 | 07/25/06 | J |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | 0.17 | 1 | 07/21/06 | 07/25/06 | J |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1565

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1565-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 0.99 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1565-01 (BST-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | 20 | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 1.7 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G26085 | 2.0 | 2.0 | 170 | 1 | 07/26/06 | 07/26/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | 0.56 | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 200 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G19132 | 0.080 | 0.15 | ND | 1 | 07/19/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G19132 | 0.080 | 0.15 | ND | 1 | 07/19/06 | 07/20/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G19132 | 0.072 | 0.26 | ND | 1 | 07/19/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.89 | 4.7 | 1.0 | 1 | 07/21/06 | 07/21/06 | J |
| Sulfate | EPA 300.0 | 6G19132 | 3.6 | 10 | 69 | 20 | 07/19/06 | 07/20/06 | |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 340 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24071 | 0.50 | 1.0 | 11 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25112 | 10 | 10 | 20 | 1 | 07/25/06 | 07/25/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1565-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 14 | 1 | 07/20/06 | 07/20/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1565-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.70 | 1 | 07/20/06 | 07/20/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1565-01 (BST-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 580 | 1 | 07/20/06 | 07/20/06 | |

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Report Number: IPG1565

Sampled: 07/19/06
Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: BST-EFF (IPG1565-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/19/2006 10:15 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 10:15 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 10:15 | 07/19/2006 18:10 | 07/19/2006 22:00 | 07/20/2006 02:33 |

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 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1337-01 | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1337-01 | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

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R-2A Pond Pilot Test
Report Number: IPG1565

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

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 R-2A Pond Pilot Test
 Report Number: IPG1565

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) | | | | | | Source: IPG1566-01 | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) | | | | | | Source: IPG1578-01 | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) | | | | | | Source: IPG1566-01 | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

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Report Number: IPG1565

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1565

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPG1565

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19132 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19132-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19132-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.12 | 0.15 | 0.080 | mg/l | 1.13 | ND | 99 | 90-110 | | | |
| Nitrite-N | 1.47 | 0.15 | 0.080 | mg/l | 1.52 | ND | 97 | 90-110 | | | |
| Sulfate | 9.14 | 0.50 | 0.18 | mg/l | 10.0 | ND | 91 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/19/2006 (6G19132-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Nitrate-N | 1.32 | 0.15 | 0.080 | mg/l | 1.13 | ND | 117 | 80-120 | | | |
| Nitrite-N | 1.99 | 0.15 | 0.080 | mg/l | 1.52 | ND | 131 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19132-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Nitrate-N | 1.33 | 0.15 | 0.080 | mg/l | 1.13 | ND | 118 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.93 | 0.15 | 0.080 | mg/l | 1.52 | ND | 127 | 80-120 | 3 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 Report Number: IPG1565

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 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G20080 Extracted: 07/20/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| <u>Batch: 6G20103 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| <u>Batch: 6G20106 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| <u>Batch: 6G21067 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 Report Number: IPG1565

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 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24071 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24071-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.487 | 1.0 | 0.25 | mg/l | | | | | | | J |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24071 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24071-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.4 | 1.0 | 0.25 | mg/l | 10.0 | | 104 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24071-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1972-03 | | | | | |
| Total Organic Carbon | 11.6 | 1.0 | 0.25 | mg/l | 5.00 | 6.9 | 94 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24071-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1972-03 | | | | | |
| Total Organic Carbon | 12.1 | 1.0 | 0.25 | mg/l | 5.00 | 6.9 | 104 | 80-120 | 4 | 20 | |
| Batch: 6G25112 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25112-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25112-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 892 | 10 | 10 | mg/l | 1000 | | 89 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25112-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1543-02 | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | ND | | | | 10 | |
| Batch: 6G26085 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26085-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1685-05 | | | | | |
| Alkalinity as CaCO3 | 220 | 2.0 | 2.0 | mg/l | | 220 | | | 0 | 20 | |
| Reference Analyzed: 07/26/2006 (6G26085-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
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 Project Manager

IPGAS&S

CHAIN OF CUSTODY FORM

Version 04/28/06

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

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

Project Manager: Bronwyn Kelly
Sampler: R. Baraja

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

ANALYSIS REQUIRED

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn | Field readings: Temp = 77 pH = 7.7 | Comments |
|--------------------|---------------|----------------|------------|--------------------|--------------|----------|---|---|--------------------------|-------------------------|--|------------------------------|-------------------|---|--|----------|
| BST-EFF | W | Poly-1L | 1 | 7-19-06 10:15 | HNO3 | 1 | X | X | | | | | | | | |
| BST-EFF | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | |
| BST-EFF | W | VOAs | 2 | | HCl | 3A, 3B | | | X | | | | | | | |
| BST-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | X | | | | | | | |
| BST-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | X | | | | | | |
| BST-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | X | | | | | |
| BST-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | X | | | | |
| BST-EFF | W | Poly-500 ml | 1 | 7-19-06 10:15 | H2SO4 | 8 | | | | | | | X | | | |
| BST-EFF | W | Poly-1L | 1 | | None | 9 | | | | | | | | X | | |

Relinquished By: *[Signature]* **Date/Time:** 7-19-06 11:00
Received By: *[Signature]* **Date/Time:** 7-19-06 11:00

Relinquished By: *[Signature]* **Date/Time:** 7-19-06 18:00
Received By: *[Signature]* **Date/Time:** 7/19/06 18:00

Relinquished By: *[Signature]* **Date/Time:** _____
Received By: *[Signature]* **Date/Time:** _____

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

[Handwritten initials]

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 17:57

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

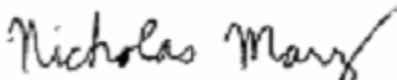
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1566-01

CLIENT ID
AC-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1566-01 (AC-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 0.20 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1566-01 (AC-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.70 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 7.8 | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.31 | 1 | 07/21/06 | 07/24/06 | J, B |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 0.63 | 1 | 07/21/06 | 07/24/06 | J |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 0.63 | 1 | 07/21/06 | 07/24/06 | B, J |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 47 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | ND | 1 | 07/21/06 | 07/24/06 | |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.73 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.30 | 1 | 07/21/06 | 07/24/06 | B, J |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | 0.35 | 1 | 07/21/06 | 07/24/06 | B, J |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | ND | 1 | 07/21/06 | 07/24/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1566-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | ND | 1 | 07/20/06 | 07/25/06 | |
| Sample ID: IPG1566-01 (AC-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.28 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 0.83 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | ND | 1 | 07/20/06 | 07/25/06 | |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1566-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 1.0 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1566-01 (AC-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 0.84 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G26085 | 2.0 | 2.0 | 170 | 1 | 07/26/06 | 07/26/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | ND | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 200 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G19132 | 0.080 | 0.15 | ND | 1 | 07/19/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G19132 | 0.080 | 0.15 | ND | 1 | 07/19/06 | 07/20/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G19132 | 0.072 | 0.26 | ND | 1 | 07/19/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G19132 | 3.6 | 10 | 66 | 20 | 07/19/06 | 07/20/06 | |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 380 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24071 | 0.50 | 1.0 | 6.0 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25112 | 10 | 10 | ND | 1 | 07/25/06 | 07/25/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1566-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 3.7 | 1 | 07/20/06 | 07/20/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1566-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.89 | 1 | 07/20/06 | 07/20/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1566-01 (AC-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 580 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1566

Sampled: 07/19/06
Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| Sample ID: AC-EFF (IPG1566-01) - Water | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1 | 1 | 07/19/2006 09:45 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 09:45 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 09:45 | 07/19/2006 18:10 | 07/19/2006 22:00 | 07/20/2006 03:15 |

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 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

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R-2A Pond Pilot Test
Report Number: IPG1566

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

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 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) | | | | | | Source: IPG1566-01 | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) | | | | | | Source: IPG1578-01 | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) | | | | | | Source: IPG1566-01 | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1566

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G19132 Extracted: 07/19/06 | | | | | | | | | | | |
| Blank Analyzed: 07/19/2006 (6G19132-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/19/2006 (6G19132-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.12 | 0.15 | 0.080 | mg/l | 1.13 | ND | 99 | 90-110 | | | |
| Nitrite-N | 1.47 | 0.15 | 0.080 | mg/l | 1.52 | ND | 97 | 90-110 | | | |
| Sulfate | 9.14 | 0.50 | 0.18 | mg/l | 10.0 | ND | 91 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/19/2006 (6G19132-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Nitrate-N | 1.32 | 0.15 | 0.080 | mg/l | 1.13 | ND | 117 | 80-120 | | | |
| Nitrite-N | 1.99 | 0.15 | 0.080 | mg/l | 1.52 | ND | 131 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/19/2006 (6G19132-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Nitrate-N | 1.33 | 0.15 | 0.080 | mg/l | 1.13 | ND | 118 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.93 | 0.15 | 0.080 | mg/l | 1.52 | ND | 127 | 80-120 | 3 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G20080 Extracted: 07/20/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| <u>Batch: 6G20103 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| <u>Batch: 6G20106 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| <u>Batch: 6G21067 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24071 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24071-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.487 | 1.0 | 0.25 | mg/l | | | | | | | J |

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 Report Number: IPG1566

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24071 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24071-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.4 | 1.0 | 0.25 | mg/l | 10.0 | | 104 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24071-MS1) Source: IPG1972-03 | | | | | | | | | | | |
| Total Organic Carbon | 11.6 | 1.0 | 0.25 | mg/l | 5.00 | 6.9 | 94 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24071-MSD1) Source: IPG1972-03 | | | | | | | | | | | |
| Total Organic Carbon | 12.1 | 1.0 | 0.25 | mg/l | 5.00 | 6.9 | 104 | 80-120 | 4 | 20 | |
| Batch: 6G25112 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25112-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25112-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 892 | 10 | 10 | mg/l | 1000 | | 89 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25112-DUP1) Source: IPG1543-02 | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | ND | | | | 10 | |
| Batch: 6G26085 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26085-DUP1) Source: IPG1685-05 | | | | | | | | | | | |
| Alkalinity as CaCO3 | 220 | 2.0 | 2.0 | mg/l | | 220 | | | 0 | 20 | |
| Reference Analyzed: 07/26/2006 (6G26085-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1566

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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 R-2A Pond Pilot Test
 Report Number: IPG1566

Sampled: 07/19/06
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Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | | | | | | | | | | | | |
|--|---------------|---|------------|--|--------------|----------|--|---|----------------------------------|--------------------------|-------------------------|--|------------------------------|-------------------|---|-----------------|--|
| Project Manager: Bronwyn Kelly | | Sample Matrix: W | | Field readings: Temp = 80 pH = 7.9 | | | | | | | | | | | | | |
| Sampler: | | Sample Description: AC-EFF | | Comments: | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon (EPA 413.1) | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn | Field readings: | |
| AC-EFF | W | Poly-1L | 1 | 7-19-06 09:45 | HNO3 | 1 | X | X | | | | | | | | | |
| AC-EFF | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | | |
| AC-EFF | W | VOAs | 2 | | HCl | 3A, 3B | | | | X | | | | | | | |
| AC-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | | | | | | | | |
| AC-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | | X | | | | | | |
| AC-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | | X | | | | | |
| AC-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | X | | | | |
| AC-EFF | W | Poly-500 ml | 1 | 7-19-06 11:00 | H2SO4 | 8 | | | | | | | | | X | | |
| AC-EFF | W | Poly-1L | 1 | 7-19-06 1:50 | None | 9 | | | | | | | | | | | |
| Relinquished By | | | | 7-19-06 1100 | | | | | | | | | | | | | |
| Relinquished By | | | | 7-19-06 1810 | | | | | | | | | | | | | |
| Relinquished By | | | | | | | | | | | | | | | | | |

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

02270

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 17:58

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

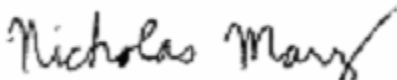
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1578-01

CLIENT ID
AC-DUP-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 0.21 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.64 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 5.0 | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 0.86 | 1 | 07/21/06 | 07/24/06 | J |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 0.35 | 1 | 07/21/06 | 07/24/06 | B, J |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 47 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | ND | 1 | 07/21/06 | 07/24/06 | |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.39 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | B |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | ND | 1 | 07/21/06 | 07/24/06 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | ND | 1 | 07/20/06 | 07/25/06 | |
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.23 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 0.31 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | ND | 1 | 07/20/06 | 07/25/06 | |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 0.99 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 2.5 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G26085 | 2.0 | 2.0 | 170 | 1 | 07/26/06 | 07/26/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | ND | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 200 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G20041 | 0.080 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G20041 | 0.080 | 0.15 | ND | 1 | 07/20/06 | 07/20/06 | M1 |
| Nitrate/Nitrite-N | EPA 300.0 | 6G20041 | 0.072 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.90 | 4.8 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G20041 | 0.90 | 2.5 | 72 | 5 | 07/20/06 | 07/20/06 | M-3 |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 390 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24071 | 0.50 | 1.0 | 5.8 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25112 | 10 | 10 | ND | 1 | 07/25/06 | 07/25/06 | |

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 3.9 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1578

Sampled: 07/19/06
Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.93 | 1 | 07/20/06 | 07/20/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1578-01 (AC-DUP-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 600 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1578

Sampled: 07/19/06
Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|---|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: AC-DUP-EFF (IPG1578-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/19/2006 09:45 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 09:45 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 09:45 | 07/19/2006 18:10 | 07/20/2006 06:30 | 07/20/2006 07:32 |

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 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1578

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) Source: IPG1578-01 | | | | | | | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20041 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20041-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.11 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.11 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20041-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.17 | 0.11 | 0.080 | mg/l | 1.13 | | 104 | 90-110 | | | |
| Nitrite-N | 1.40 | 0.15 | 0.080 | mg/l | 1.52 | | 92 | 90-110 | | | |
| Sulfate | 9.58 | 0.50 | 0.18 | mg/l | 10.0 | | 96 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/20/2006 (6G20041-MS1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.11 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | | | |
| Nitrite-N | 1.90 | 0.15 | 0.080 | mg/l | 1.52 | ND | 125 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20041-MSD1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.25 | 0.11 | 0.080 | mg/l | 1.13 | ND | 111 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.91 | 0.15 | 0.080 | mg/l | 1.52 | ND | 126 | 80-120 | 1 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| Batch: 6G20103 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| Batch: 6G20106 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24071 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24071-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.487 | 1.0 | 0.25 | mg/l | | | | | | | J |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24071 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24071-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.4 | 1.0 | 0.25 | mg/l | 10.0 | | 104 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24071-MS1) Source: IPG1972-03 | | | | | | | | | | | |
| Total Organic Carbon | 11.6 | 1.0 | 0.25 | mg/l | 5.00 | 6.9 | 94 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24071-MSD1) Source: IPG1972-03 | | | | | | | | | | | |
| Total Organic Carbon | 12.1 | 1.0 | 0.25 | mg/l | 5.00 | 6.9 | 104 | 80-120 | 4 | 20 | |
| Batch: 6G25112 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25112-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25112-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 892 | 10 | 10 | mg/l | 1000 | | 89 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25112-DUP1) Source: IPG1543-02 | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | ND | | | | 10 | |
| Batch: 6G26085 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26085-DUP1) Source: IPG1685-05 | | | | | | | | | | | |
| Alkalinity as CaCO3 | 220 | 2.0 | 2.0 | mg/l | | 220 | | | 0 | 20 | |
| Reference Analyzed: 07/26/2006 (6G26085-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1578

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPG1578

Sampled: 07/19/06
 Received: 07/19/06

Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

IPG 1578

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

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

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

Project Manager: **Bronwyn Kelly**

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

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn | Field readings: Temp = 77 pH = 7.0 | Comments |
|--------------------|---------------|----------------|------------|--------------------|--------------|----------|--|---|----------------------|--------------------------|-------------------------|--|------------------------------|-------------------|--|--|----------|
| AC-DUP-EFF | W | Poly-1L | 1 | 7-19-06 10:00 | HNO3 | 1 | X | | | | | | | | | | |
| AC-DUP-EFF | W | Poly-1L | 1 | | None | 2 | | X | | | | | | | | | |
| AC-DUP-EFF | W | VOAs | 2 | | HCl | 3A, 3B | | | X | | | | | | | | |
| AC-DUP-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | X | | | | | | | |
| AC-DUP-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | | X | | | | | | |
| AC-DUP-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | | X | | | | | |
| AC-DUP-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | X | | | | |
| AC-DUP-EFF | W | Poly-500 ml | 1 | 7-19-06 10:00 | H2SO4 | 8 | | | | | | | | X | | | |
| AC-DUP-EFF | W | Poly-1L | 1 | 7-19-06 10:00 | None | 9 | | | | | | | | | X | | |

Relinquished By: *[Signature]* Date/Time: 7-19-06 10:00

Received By: *[Signature]* Date/Time: 7-19-06 10:00

Relinquished By: *[Signature]* Date/Time: 7-19-06 10:00

Received By: *[Signature]* Date/Time: 7/19/06 1810

Relinquished By: *[Signature]* Date/Time: 7-19-06 10:00

Received By: *[Signature]* Date/Time: 7-19-06 10:00

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

Metals Only 72 Hours _____

Sample Integrity: (Check) On Ice: *SC*

IPG 1578

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 17:59

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

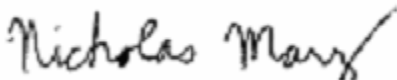
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1580-01

CLIENT ID
PM-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1580-01 (PM-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 1.2 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1580-01 (PM-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.48 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 7.7 | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.054 | 1 | 07/21/06 | 07/24/06 | J, B |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 3.2 | 1 | 07/21/06 | 07/24/06 | |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 2.0 | 1 | 07/21/06 | 07/24/06 | |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 130 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | 2.5 | 1 | 07/21/06 | 07/24/06 | J |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.56 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.090 | 1 | 07/21/06 | 07/24/06 | B, J |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | 9.8 | 1 | 07/21/06 | 07/24/06 | J |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1580-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | 0.019 | 1 | 07/20/06 | 07/25/06 | J |
| Sample ID: IPG1580-01 (PM-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.24 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 0.55 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | 2.4 | 1 | 07/20/06 | 07/25/06 | J |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1580-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 0.99 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1580-01 (PM-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | 24 | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 2.0 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G27071 | 2.0 | 2.0 | 180 | 1 | 07/27/06 | 07/27/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | ND | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 200 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G20041 | 0.080 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G20041 | 0.080 | 0.15 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G20041 | 0.072 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G20041 | 0.90 | 2.5 | 73 | 5 | 07/20/06 | 07/20/06 | |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 390 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24123 | 0.50 | 1.0 | 11 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25112 | 10 | 10 | 24 | 1 | 07/25/06 | 07/25/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1580

Sampled: 07/19/06
Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1580-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 20 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1580

Sampled: 07/19/06
Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1580-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.82 | 1 | 07/20/06 | 07/20/06 | |

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 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1580-01 (PM-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 580 | 1 | 07/20/06 | 07/20/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| Sample ID: PM-EFF (IPG1580-01) - Water | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1 | 1 | 07/19/2006 10:07 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 10:07 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 10:07 | 07/19/2006 18:10 | 07/20/2006 06:30 | 07/20/2006 07:47 |

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1337-01 | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1337-01 | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1580

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) | | | | | | Source: IPG1566-01 | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) | | | | | | Source: IPG1578-01 | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) | | | | | | Source: IPG1566-01 | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1580

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20041 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20041-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.11 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.11 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20041-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.17 | 0.11 | 0.080 | mg/l | 1.13 | | 104 | 90-110 | | | |
| Nitrite-N | 1.40 | 0.15 | 0.080 | mg/l | 1.52 | | 92 | 90-110 | | | |
| Sulfate | 9.58 | 0.50 | 0.18 | mg/l | 10.0 | | 96 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/20/2006 (6G20041-MS1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.11 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | | | |
| Nitrite-N | 1.90 | 0.15 | 0.080 | mg/l | 1.52 | ND | 125 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20041-MSD1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.25 | 0.11 | 0.080 | mg/l | 1.13 | ND | 111 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.91 | 0.15 | 0.080 | mg/l | 1.52 | ND | 126 | 80-120 | 1 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| Batch: 6G20103 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| Batch: 6G20106 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24123-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.476 | 1.0 | 0.25 | mg/l | | | | | | | J |

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 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24123-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.2 | 1.0 | 0.25 | mg/l | 10.0 | | 102 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS1) Source: IPG1430-01 | | | | | | | | | | | |
| Total Organic Carbon | 7.37 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 95 | 80-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS2) Source: IPG1597-02 | | | | | | | | | | | |
| Total Organic Carbon | 7.67 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 111 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD1) Source: IPG1430-01 | | | | | | | | | | | |
| Total Organic Carbon | 7.50 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 98 | 80-120 | 2 | 20 | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD2) Source: IPG1597-02 | | | | | | | | | | | |
| Total Organic Carbon | 7.36 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 105 | 80-120 | 4 | 20 | |
| Batch: 6G25112 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25112-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25112-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 892 | 10 | 10 | mg/l | 1000 | | 89 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25112-DUP1) Source: IPG1543-02 | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | ND | | | | 10 | |
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |
| Batch: 6G27071 Extracted: 07/27/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/27/2006 (6G27071-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Alkalinity as CaCO ₃ | 228 | 2.0 | 2.0 | mg/l | | 230 | | | 1 | 20 | |
| Reference Analyzed: 07/27/2006 (6G27071-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO ₃ | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1580

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPG1580

Sampled: 07/19/06
 Received: 07/19/06

Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

| | | | | | | | | | | | | | | | | | | | |
|--|---------------|--|--------------|---|--------------|---|--------------|-------------------------|--------------|--|--------------|------------------------------|----------|--------------------------------|----------|--|----------------------|--------------------------|--------|
| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Project Manager: Bronwyn Kelly Sampler: <i>P. Barrios</i> | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | Field readings: Temp = 80 pH = 8.8 | | | | | | | | | | | | | |
| ANALYSIS REQUIRED | | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness | | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | | Oil & Grease (EPA 413.1) | | Total Kjeldahl Nitrogen | | SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N) | | Turbidity, TSS, Conductivity | | Ammonia-N (NH ₃ -N) | | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn | | Comments | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | | | | | | | | | | | | | |
| PM-EFF | W | Poly-1L | 1 | 7/19/06 1100 | HNO3 | 1 | | | | | | | | | | | | | |
| PM-EFF | W | Poly-1L | 1 | 7/19/06 1810 | None | 2 | | | | | | | | | | | | | |
| PM-EFF | W | VOAs | 2 | | HCl | 3A, 3B | | | | | | | | | | | | | |
| PM-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | | | | | | | | | | |
| PM-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | | | | | | | | | | |
| PM-EFF | W | Poly-500 ml | 1 | | None | 6 | | | | | | | | | | | | | |
| PM-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | | | | | | | |
| PM-EFF | W | Poly-500 ml | 1 | | H2SO4 | 8 | | | | | | | | | | | | | |
| PM-EFF | W | Poly-1L | 1 | 7/19/06 1810 | None | 9 | | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | Relinquished By | Date/Time | Received By | Date/Time | Relinquished By | Date/Time | Received By | Date/Time | Turn around Time: (check) | 24 Hours | 48 Hours | 72 Hours | Perchlorate Only 72 Hours | Metals Only 72 Hours | Sample Integrity (Check) | On Ice |
| <i>P. Barrios</i> | 7/19/06 1100 | <i>W. Kelly</i> | 7/19/06 1100 | <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | 5 Days | | | | | | | |
| <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | 10 Days | | | | | | | |
| <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | Normal | | | | | | | |
| <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | <i>P. Barrios</i> | 7/19/06 1810 | <i>W. Kelly</i> | 7/19/06 1810 | | | | | | | | |

ANALYSIS REQUIRED

Temp = 80
pH = 8.8

Turn around Time: (check)
24 Hours
48 Hours
72 Hours
Perchlorate Only 72 Hours
Metals Only 72 Hours

Sample Integrity (Check)
Intact

On Ice

51C

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 18:00

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

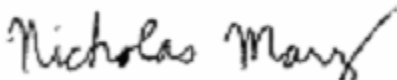
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1582-01

CLIENT ID
S-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1582-01 (S-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 0.15 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1582-01 (S-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.41 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 7.2 | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 0.53 | 1 | 07/21/06 | 07/24/06 | J |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 0.24 | 1 | 07/21/06 | 07/24/06 | B, J |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 43 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | ND | 1 | 07/21/06 | 07/24/06 | |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.54 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | ND | 1 | 07/21/06 | 07/24/06 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1582-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | ND | 1 | 07/20/06 | 07/25/06 | |
| Sample ID: IPG1582-01 (S-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.24 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 0.62 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | 2.2 | 1 | 07/20/06 | 07/25/06 | J |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1582-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 1.0 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1582-01 (S-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G31067 | 0.43 | 0.50 | 1.1 | 1 | 07/31/06 | 07/31/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G27071 | 2.0 | 2.0 | 160 | 1 | 07/27/06 | 07/27/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | 0.84 | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 200 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G20041 | 0.080 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G20041 | 0.080 | 0.15 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G20041 | 0.072 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G20041 | 0.90 | 2.5 | 72 | 5 | 07/20/06 | 07/20/06 | |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 330 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24123 | 0.50 | 1.0 | 12 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25112 | 10 | 10 | ND | 1 | 07/25/06 | 07/25/06 | |

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Sampled: 07/19/06
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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1582-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 1.7 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1582

Sampled: 07/19/06
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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1582-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.83 | 1 | 07/20/06 | 07/20/06 | |

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Sampled: 07/19/06
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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1582-01 (S-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 560 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1582

Sampled: 07/19/06
Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: S-EFF (IPG1582-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/19/2006 09:07 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 09:07 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 09:07 | 07/19/2006 18:10 | 07/20/2006 06:30 | 07/20/2006 08:02 |

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 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

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METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) Source: IPG1578-01 | | | | | | | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

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Report Number: IPG1582

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

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 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20041 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20041-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.11 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.11 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20041-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.17 | 0.11 | 0.080 | mg/l | 1.13 | ND | 104 | 90-110 | | | |
| Nitrite-N | 1.40 | 0.15 | 0.080 | mg/l | 1.52 | ND | 92 | 90-110 | | | |
| Sulfate | 9.58 | 0.50 | 0.18 | mg/l | 10.0 | ND | 96 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/20/2006 (6G20041-MS1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.11 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | | | |
| Nitrite-N | 1.90 | 0.15 | 0.080 | mg/l | 1.52 | ND | 125 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20041-MSD1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.25 | 0.11 | 0.080 | mg/l | 1.13 | ND | 111 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.91 | 0.15 | 0.080 | mg/l | 1.52 | ND | 126 | 80-120 | 1 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G20080 Extracted: 07/20/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| <u>Batch: 6G20103 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| <u>Batch: 6G20106 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| <u>Batch: 6G21067 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24123-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.476 | 1.0 | 0.25 | mg/l | | | | | | | J |

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 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24123-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.2 | 1.0 | 0.25 | mg/l | 10.0 | | 102 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS1) Source: IPG1430-01 | | | | | | | | | | | |
| Total Organic Carbon | 7.37 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 95 | 80-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS2) Source: IPG1597-02 | | | | | | | | | | | |
| Total Organic Carbon | 7.67 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 111 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD1) Source: IPG1430-01 | | | | | | | | | | | |
| Total Organic Carbon | 7.50 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 98 | 80-120 | 2 | 20 | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD2) Source: IPG1597-02 | | | | | | | | | | | |
| Total Organic Carbon | 7.36 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 105 | 80-120 | 4 | 20 | |
| Batch: 6G25112 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25112-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25112-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 892 | 10 | 10 | mg/l | 1000 | | 89 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25112-DUP1) Source: IPG1543-02 | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | ND | | | | 10 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) Source: IPG1563-01 | | | | | | | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G27071 Extracted: 07/27/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/27/2006 (6G27071-DUP1) | | | | | | Source: IPG1597-02 | | | | | |
| Alkalinity as CaCO3 | 228 | 2.0 | 2.0 | mg/l | | 230 | | | 1 | 20 | |
| Reference Analyzed: 07/27/2006 (6G27071-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |
| <u>Batch: 6G31067 Extracted: 07/31/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/31/2006 (6G31067-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |
| LCS Analyzed: 07/31/2006 (6G31067-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/31/2006 (6G31067-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/31/2006 (6G31067-MS1) | | | | | | Source: IPG1962-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/31/2006 (6G31067-MSD1) | | | | | | Source: IPG1962-01 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1582

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1582

Sampled: 07/19/06
 Received: 07/19/06

Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

IP 61582

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

| Client Name/Address: | | Project: | | ANALYSIS REQUIRED | | Field readings: | | | | | | |
|---|---------------|--|------------|---|--------------|---------------------|--------------------------|--|--|------------------------------|-------------------|---|
| MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | | Temp = 13 pH = 8 | | | | | | |
| Project Manager: Bronwyn Kelly | | Phone Number: (626) 568-6691 | | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | | Comments | | | | | | |
| Sampler: K. Pasadena | | Fax Number: (626) 568-6515 | | Oil & Grease (EPA 413.1) | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Organic Carbon | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn |
| S-EFF | W | Poly-1L | 1 | 7/19/06 11:00 | HNO3 | 1 | | | | | | |
| S-EFF | W | Poly-1L | 1 | 7/19/06 11:00 | None | 2 | X | | | | | |
| S-EFF | W | VOAs | 2 | | HCl | 3A, 3B | | | | | | |
| S-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B | X | | | | | |
| S-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | X | | | | |
| S-EFF | W | Poly-500 ml | 1 | | None | 6 | | | X | | | |
| S-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | X | | |
| S-EFF | W | Poly-500 ml | 1 | 7/19/06 11:00 | H2SO4 | 8 | | | | | X | |
| S-EFF | W | Poly-1L | 1 | 7/19/06 11:00 | None | 9 | | | | | | X |
| Relinquished By | | | | Date/Time: 7/19/06 11:00 | Received By | | Date/Time: 7/19/06 11:00 | Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal X _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ | | | | |
| Relinquished By | | | | Date/Time: 7/19/06 11:00 | Received By | | Date/Time: 7/19/06 11:00 | Sample Integrity (Check) Intact _____ On Ice: _____ | | | | |
| Relinquished By | | | | Date/Time: 7/19/06 11:00 | Received By | | Date/Time: 7/19/06 11:00 | | | | | |

MWH

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LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 18:01

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

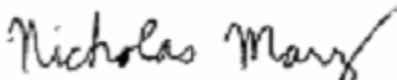
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1583-01

CLIENT ID
V-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1583-01 (V-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 0.29 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1583-01 (V-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.44 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 0.99 | 1 | 07/21/06 | 07/24/06 | J |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 0.41 | 1 | 07/21/06 | 07/24/06 | B, J |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 57 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | ND | 1 | 07/21/06 | 07/24/06 | |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.68 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | ND | 1 | 07/21/06 | 07/24/06 | |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1583-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | 0.017 | 1 | 07/20/06 | 07/25/06 | J |
| Sample ID: IPG1583-01 (V-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.39 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 0.82 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | 0.055 | 1 | 07/21/06 | 07/25/06 | J |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | 2.1 | 1 | 07/20/06 | 07/25/06 | J |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | 0.33 | 1 | 07/21/06 | 07/25/06 | J |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1583-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 1.0 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1583-01 (V-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 0.84 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G27071 | 2.0 | 2.0 | 180 | 1 | 07/27/06 | 07/27/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | ND | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 200 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G20041 | 0.080 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G20041 | 0.080 | 0.15 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G20041 | 0.072 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G20041 | 0.90 | 2.5 | 73 | 5 | 07/20/06 | 07/20/06 | |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 320 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24123 | 0.50 | 1.0 | 12 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25112 | 10 | 10 | ND | 1 | 07/25/06 | 07/25/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1583-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 3.0 | 1 | 07/20/06 | 07/20/06 | |

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Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1583-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.79 | 1 | 07/20/06 | 07/20/06 | |

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 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1583-01 (V-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 590 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1583

Sampled: 07/19/06
Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: V-EFF (IPG1583-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/19/2006 09:36 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 09:36 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 09:36 | 07/19/2006 18:10 | 07/20/2006 06:30 | 07/20/2006 08:18 |

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 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

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R-2A Pond Pilot Test
Report Number: IPG1583

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) Source: IPG1578-01 | | | | | | | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

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R-2A Pond Pilot Test
Report Number: IPG1583

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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 Report Number: IPG1583

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 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20041 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20041-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.11 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.11 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20041-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.17 | 0.11 | 0.080 | mg/l | 1.13 | | 104 | 90-110 | | | |
| Nitrite-N | 1.40 | 0.15 | 0.080 | mg/l | 1.52 | | 92 | 90-110 | | | |
| Sulfate | 9.58 | 0.50 | 0.18 | mg/l | 10.0 | | 96 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/20/2006 (6G20041-MS1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.11 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | | | |
| Nitrite-N | 1.90 | 0.15 | 0.080 | mg/l | 1.52 | ND | 125 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20041-MSD1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.25 | 0.11 | 0.080 | mg/l | 1.13 | ND | 111 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.91 | 0.15 | 0.080 | mg/l | 1.52 | ND | 126 | 80-120 | 1 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G20080 Extracted: 07/20/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| <u>Batch: 6G20103 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| <u>Batch: 6G20106 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| <u>Batch: 6G21067 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24123-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.476 | 1.0 | 0.25 | mg/l | | | | | | | J |

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 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24123-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.2 | 1.0 | 0.25 | mg/l | 10.0 | | 102 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS1) Source: IPG1430-01 | | | | | | | | | | | |
| Total Organic Carbon | 7.37 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 95 | 80-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS2) Source: IPG1597-02 | | | | | | | | | | | |
| Total Organic Carbon | 7.67 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 111 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD1) Source: IPG1430-01 | | | | | | | | | | | |
| Total Organic Carbon | 7.50 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 98 | 80-120 | 2 | 20 | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD2) Source: IPG1597-02 | | | | | | | | | | | |
| Total Organic Carbon | 7.36 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 105 | 80-120 | 4 | 20 | |
| Batch: 6G25112 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25112-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25112-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 892 | 10 | 10 | mg/l | 1000 | | 89 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25112-DUP1) Source: IPG1543-02 | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | ND | | | | 10 | |
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |
| Batch: 6G27071 Extracted: 07/27/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/27/2006 (6G27071-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Alkalinity as CaCO ₃ | 228 | 2.0 | 2.0 | mg/l | | 230 | | | 1 | 20 | |
| Reference Analyzed: 07/27/2006 (6G27071-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO ₃ | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

TestAmerica - Irvine, CA
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R-2A Pond Pilot Test
Report Number: IPG1583

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPG1583

Sampled: 07/19/06
 Received: 07/19/06

Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

IR 1583

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

| | | | |
|--|--|--|--|
| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test | |
| Project Manager: Bronwyn Kelly | | Phone Number: (626) 568-6691 | |
| Sampler: <i>[Signature]</i> | | Fax Number: (626) 568-6515 | |

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # |
|--------------------|---------------|----------------|------------|--------------------|--------------|----------|
| V-EFF | W | Poly-1L | 1 | 7/19/06 9:36 | HNO3 | 1 |
| V-EFF | W | Poly-1L | 1 | | None | 2 |
| V-EFF | W | VOAs | 2 | | HCl | 3A, 3B |
| V-EFF | W | 1L Amber | 2 | | HCl | 4A, 4B |
| V-EFF | W | Poly-500 ml | 1 | | H2SO4 | 5 |
| V-EFF | W | Poly-500 ml | 1 | | None | 6 |
| V-EFF | W | Poly-500 ml | 2 | | None | 7A, 7B |
| V-EFF | W | Poly-500 ml | 1 | 7/19/06 9:36 | H2SO4 | 8 |
| V-EFF | W | Poly-1L | 1 | | None | 9 |

| ANALYSIS REQUIRED | | Field readings: |
|---|-------------------------------------|-----------------|
| Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | <input checked="" type="checkbox"/> | Temp = 100 |
| Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | <input checked="" type="checkbox"/> | pH = 6.7 |
| Total Organic Carbon | | Comments |
| Oil & Grease (EPA 413.1) | | |
| Total Kjeldahl Nitrogen | X | |
| SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | X | |
| Turbidity, TSS, Conductivity | X | |
| Ammonia-N (NH3-N) | X | |
| Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn | X | |

1002150

| | | | |
|---------------------------------------|----------------------------|-----------------------------------|----------------------------|
| Relinquished By <i>[Signature]</i> | Date/Time: 7/19/06 1100 | Received By <i>[Signature]</i> | Date/Time: 7-19-06 1100 |
| Relinquished By <i>[Signature]</i> | Date/Time: 7-19-06 1816 | Received By <i>[Signature]</i> | Date/Time: 7/19/06 1810 |
| Relinquished By | Date/Time: | Received By | Date/Time: |

| | |
|----------------------------------|-------------------------------------|
| Turn around Time: (check) | 5 Days |
| 24 Hours | 10 Days |
| 48 Hours | Normal |
| 72 Hours | <input checked="" type="checkbox"/> |
| Perchlorate Only 72 Hours | |
| Metals Only 72 Hours | |
| Sample Integrity (Check) On Ice: | <input checked="" type="checkbox"/> |

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 18:02

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

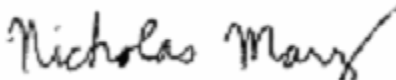
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1585-01

CLIENT ID
PT-INF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1585-01 (PT-INF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 2.0 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1585-01 (PT-INF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.43 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 12 | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.089 | 1 | 07/21/06 | 07/24/06 | J, B |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | 2.4 | 1 | 07/21/06 | 07/24/06 | J |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 3.9 | 1 | 07/21/06 | 07/24/06 | |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 2.5 | 1 | 07/21/06 | 07/24/06 | |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 180 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | 4.7 | 1 | 07/21/06 | 07/24/06 | J |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.44 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.12 | 1 | 07/21/06 | 07/24/06 | B, J |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | 27 | 1 | 07/21/06 | 07/24/06 | |

TestAmerica - Irvine, CA
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 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1585-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | 0.018 | 1 | 07/20/06 | 07/25/06 | J |
| Sample ID: IPG1585-01 (PT-INF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.39 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 0.58 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | 2.1 | 1 | 07/20/06 | 07/25/06 | J |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1585-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 1.0 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1585-01 (PT-INF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | 31 | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 1.4 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G27071 | 2.0 | 2.0 | 160 | 1 | 07/27/06 | 07/27/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | 0.56 | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 210 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G20041 | 0.080 | 0.11 | 0.24 | 1 | 07/20/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G20041 | 0.080 | 0.15 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G20041 | 0.072 | 0.11 | 0.24 | 1 | 07/20/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.90 | 4.8 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G20041 | 0.90 | 2.5 | 72 | 5 | 07/20/06 | 07/20/06 | |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 340 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24123 | 0.50 | 1.0 | 11 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25124 | 10 | 10 | 31 | 1 | 07/25/06 | 07/25/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1585

Sampled: 07/19/06
Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1585-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 18 | 1 | 07/20/06 | 07/20/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1585-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.89 | 1 | 07/20/06 | 07/20/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1585-01 (PT-INF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 590 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1585

Sampled: 07/19/06
Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|---|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: PT-INF (IPG1585-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/19/2006 09:05 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 09:05 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 09:05 | 07/19/2006 18:10 | 07/20/2006 06:30 | 07/20/2006 08:36 |

TestAmerica - Irvine, CA
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1585

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) Source: IPG1578-01 | | | | | | | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1585

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20041 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20041-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.11 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.11 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20041-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.17 | 0.11 | 0.080 | mg/l | 1.13 | | 104 | 90-110 | | | |
| Nitrite-N | 1.40 | 0.15 | 0.080 | mg/l | 1.52 | | 92 | 90-110 | | | |
| Sulfate | 9.58 | 0.50 | 0.18 | mg/l | 10.0 | | 96 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/20/2006 (6G20041-MS1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.11 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | | | |
| Nitrite-N | 1.90 | 0.15 | 0.080 | mg/l | 1.52 | ND | 125 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20041-MSD1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.25 | 0.11 | 0.080 | mg/l | 1.13 | ND | 111 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.91 | 0.15 | 0.080 | mg/l | 1.52 | ND | 126 | 80-120 | 1 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| Batch: 6G20103 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| Batch: 6G20106 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

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 Report Number: IPG1585

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24123-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.476 | 1.0 | 0.25 | mg/l | | | | | | | J |

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 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24123-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.2 | 1.0 | 0.25 | mg/l | 10.0 | | 102 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS1) | | | | | | | | | | | |
| Total Organic Carbon | 7.37 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 95 | 80-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS2) | | | | | | | | | | | |
| Total Organic Carbon | 7.67 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 111 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD1) | | | | | | | | | | | |
| Total Organic Carbon | 7.50 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 98 | 80-120 | 2 | 20 | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD2) | | | | | | | | | | | |
| Total Organic Carbon | 7.36 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 105 | 80-120 | 4 | 20 | |
| Batch: 6G25124 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25124-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25124-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 929 | 10 | 10 | mg/l | 1000 | | 93 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25124-DUP1) | | | | | | | | | | | |
| Total Suspended Solids | 228 | 10 | 10 | mg/l | | 210 | | | 8 | 10 | |
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |
| Batch: 6G27071 Extracted: 07/27/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/27/2006 (6G27071-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Alkalinity as CaCO3 | 228 | 2.0 | 2.0 | mg/l | | 230 | | | 1 | 20 | |
| Reference Analyzed: 07/27/2006 (6G27071-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1585

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1585

Sampled: 07/19/06
 Received: 07/19/06

Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

IRG 1585

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

| Client Name/Address: | | Project: | | ANALYSIS REQUIRED | | Field readings: | | | | | | | | | | | | | | | |
|--|---------------|--|------------|--|--------------|-------------------------|--|---|----------------------|--------------------------|-------------------------|--|------------------------------|-------------------|--|--|----------|----------------------|--|---|--|
| MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Boeing-SSFL BMP/INPDES R-2A Pond Filtration Pilot Test | | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness | | Temp = 80 pH = 7.5 | | | | | | | | | | | | | | | |
| Project Manager: Bronwyn Kelly | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | | Comments | | | | | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413 1) | Total Kjeldahl Nitrogen | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn | Field readings: Temp = 80 pH = 7.5 | Comments | | | | |
| PT-INF | W | Poly-1L | 1 | 7-19-06 09:05 | HNO3 | 1 | X | X | | | | | | | | | | | | | |
| PT-INF | W | Poly-1L | 1 | | None | 2 | | X | X | | | | | | | | | | | | |
| PT-INF | W | VOAs | 2 | | HCl | 3A, 3B | | | | X | | | | | | | | | | | |
| PT-INF | W | 1L Amber | 2 | | HCl | 4A, 4B | | | | | X | | | | | | | | | | |
| PT-INF | W | Poly-500 ml | 1 | | H2SO4 | 5 | | | | | | X | | | | | | | | | |
| PT-INF | W | Poly-500 ml | 1 | | None | 6 | | | | | | | X | | | | | | | | |
| PT-INF | W | Poly-500 ml | 2 | | None | 7A, 7B | | | | | | | | X | | | | | | | |
| PT-INF | W | Poly-500 ml | 1 | 7-19-06 09:05 | H2SO4 | 8 | | | | | | | | | X | | | | | | |
| PT-INF | W | Poly-1L | 1 | | None | 9 | | | | | | | | | | | | | | | |
| Relinquished By: <i>Bronwyn Kelly</i> | | Date/Time: 7-19-06 1100 | | Received By: <i>[Signature]</i> | | Date/Time: 7-19-06 1100 | | Turn around Time: (check) 5 Days | | 24 Hours | | 48 Hours | | 72 Hours | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> | |
| Relinquished By: <i>[Signature]</i> | | Date/Time: 7-19-06 1810 | | Received By: <i>[Signature]</i> | | Date/Time: 7-19-06 1810 | | Turn around Time: (check) 5 Days | | 24 Hours | | 48 Hours | | 72 Hours | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> | |
| Relinquished By: <i>[Signature]</i> | | Date/Time: 7-19-06 1810 | | Received By: <i>[Signature]</i> | | Date/Time: 7-19-06 1810 | | Turn around Time: (check) 5 Days | | 24 Hours | | 48 Hours | | 72 Hours | | Perchlorate Only 72 Hours | | Metals Only 72 Hours | | Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> | |

MWH

LABORATORY REPORT

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

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

Sampled: 07/19/06
Received: 07/19/06
Revised: 08/03/06 18:03

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

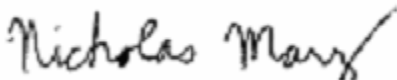
This is a revised report to correct iron MDL's. NAM 8/3/06

LABORATORY ID
IPG1587-01

CLIENT ID
P-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1587-01 (P-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7 | 6G21067 | 0.015 | 0.040 | 0.21 | 1 | 07/21/06 | 07/24/06 | |
| Sample ID: IPG1587-01 (P-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 6G21072 | 0.050 | 2.0 | 0.46 | 1 | 07/21/06 | 07/24/06 | J |
| Arsenic | EPA 200.7 | 6G21067 | 4.4 | 5.0 | 6.3 | 1 | 07/21/06 | 07/24/06 | |
| Beryllium | EPA 200.7 | 6G21067 | 0.90 | 2.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Cadmium | EPA 200.8 | 6G21072 | 0.025 | 1.0 | 0.041 | 1 | 07/21/06 | 07/24/06 | J, B |
| Chromium | EPA 200.7 | 6G21067 | 2.0 | 5.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Copper | EPA 200.8 | 6G21072 | 0.25 | 2.0 | 1.2 | 1 | 07/21/06 | 07/24/06 | J |
| Lead | EPA 200.8 | 6G21072 | 0.040 | 1.0 | 0.52 | 1 | 07/21/06 | 07/24/06 | B, J |
| Manganese | EPA 200.7 | 6G21067 | 7.0 | 20 | 46 | 1 | 07/21/06 | 07/24/06 | |
| Mercury | EPA 245.1 | 6G20092 | 0.15 | 0.20 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nickel | EPA 200.7 | 6G21067 | 2.0 | 10 | ND | 1 | 07/21/06 | 07/24/06 | |
| Selenium | EPA 200.8 | 6G21072 | 0.30 | 2.0 | 0.56 | 1 | 07/21/06 | 07/24/06 | J |
| Silver | EPA 200.8 | 6G21072 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Thallium | EPA 200.8 | 6G21072 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/24/06 | |
| Zinc | EPA 200.7 | 6G21067 | 3.7 | 20 | ND | 1 | 07/21/06 | 07/24/06 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1587-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Iron | EPA 200.7-Diss | 6G20129 | 0.015 | 0.040 | 0.017 | 1 | 07/20/06 | 07/25/06 | J |
| Sample ID: IPG1587-01 (P-EFF - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 6G21075 | 0.050 | 2.0 | 0.44 | 1 | 07/21/06 | 07/25/06 | J |
| Arsenic | EPA 200.7-Diss | 6G20129 | 4.4 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Beryllium | EPA 200.7-Diss | 6G20129 | 0.90 | 2.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Cadmium | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Chromium | EPA 200.7-Diss | 6G20129 | 2.0 | 5.0 | ND | 1 | 07/20/06 | 07/25/06 | |
| Copper | EPA 200.8-Diss | 6G21075 | 0.25 | 2.0 | 1.1 | 1 | 07/21/06 | 07/25/06 | B, J |
| Lead | EPA 200.8-Diss | 6G21075 | 0.040 | 1.0 | 0.054 | 1 | 07/21/06 | 07/25/06 | J |
| Manganese | EPA 200.7-Diss | 6G20129 | 7.0 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |
| Mercury | EPA 245.1-Diss | 6G21094 | 0.15 | 0.20 | ND | 1 | 07/21/06 | 07/21/06 | |
| Nickel | EPA 200.7-Diss | 6G20129 | 2.0 | 10 | 2.1 | 1 | 07/20/06 | 07/25/06 | J |
| Selenium | EPA 200.8-Diss | 6G21075 | 0.30 | 2.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Silver | EPA 200.8-Diss | 6G21075 | 0.025 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Thallium | EPA 200.8-Diss | 6G21075 | 0.15 | 1.0 | ND | 1 | 07/21/06 | 07/25/06 | |
| Zinc | EPA 200.7-Diss | 6G20129 | 15 | 20 | ND | 1 | 07/20/06 | 07/25/06 | |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1587-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: g/cc | | | | | | | | | |
| Density | Displacement | 6G26143 | N/A | NA | 1.0 | 1 | 07/26/06 | 07/26/06 | |
| Sample ID: IPG1587-01 (P-EFF - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sediment | ASTM D3977 | 6G27101 | 10 | 10 | ND | 1 | 07/27/06 | 07/27/06 | |
| Total Kjeldahl Nitrogen | EPA 351.3 | 6G26103 | 0.43 | 0.50 | 0.84 | 1 | 07/26/06 | 07/26/06 | |
| Alkalinity as CaCO3 | EPA 310.1 | 6G27071 | 2.0 | 2.0 | 170 | 1 | 07/27/06 | 07/27/06 | |
| Ammonia-N (Distilled) | EPA 350.2 | 6G23021 | 0.30 | 0.50 | 0.56 | 1 | 07/23/06 | 07/23/06 | |
| Hardness (as CaCO3) | SM2340B | 6G21067 | 1.0 | 1.0 | 200 | 1 | 07/21/06 | 07/24/06 | |
| Nitrate-N | EPA 300.0 | 6G20041 | 0.080 | 0.11 | ND | 1 | 07/20/06 | 07/20/06 | |
| Nitrite-N | EPA 300.0 | 6G20041 | 0.080 | 0.15 | 0.36 | 1 | 07/20/06 | 07/20/06 | |
| Nitrate/Nitrite-N | EPA 300.0 | 6G20041 | 0.072 | 0.11 | 0.43 | 1 | 07/20/06 | 07/20/06 | |
| Oil & Grease | EPA 413.1 | 6G21082 | 0.89 | 4.7 | ND | 1 | 07/21/06 | 07/21/06 | |
| Sulfate | EPA 300.0 | 6G20041 | 0.90 | 2.5 | 73 | 5 | 07/20/06 | 07/20/06 | |
| Total Dissolved Solids | SM2540C | 6G20080 | 10 | 10 | 350 | 1 | 07/20/06 | 07/20/06 | |
| Total Organic Carbon | EPA 415.1 | 6G24123 | 0.50 | 1.0 | 12 | 1 | 07/24/06 | 07/24/06 | |
| Total Suspended Solids | EPA 160.2 | 6G25124 | 10 | 10 | ND | 1 | 07/25/06 | 07/25/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1587-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: NTU | | | | | | | | | |
| Turbidity | EPA 180.1 | 6G20106 | 0.040 | 1.0 | 2.8 | 1 | 07/20/06 | 07/20/06 | |

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INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1587-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: pH Units | | | | | | | | | |
| pH | EPA 150.1 | 6G20103 | N/A | NA | 7.79 | 1 | 07/20/06 | 07/20/06 | |

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 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IPG1587-01 (P-EFF - Water) - cont. | | | | | | | | | |
| Reporting Units: umhos/cm | | | | | | | | | |
| Specific Conductance | EPA 120.1 | 6G20078 | N/A | 1.0 | 570 | 1 | 07/20/06 | 07/20/06 | |

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R-2A Pond Pilot Test
Report Number: IPG1587

Sampled: 07/19/06
Received: 07/19/06

SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|--|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Sample ID: P-EFF (IPG1587-01) - Water | | | | | |
| EPA 150.1 | 1 | 07/19/2006 09:20 | 07/19/2006 18:10 | 07/20/2006 09:45 | 07/20/2006 11:30 |
| EPA 180.1 | 2 | 07/19/2006 09:20 | 07/19/2006 18:10 | 07/20/2006 11:00 | 07/20/2006 12:20 |
| EPA 300.0 | 2 | 07/19/2006 09:20 | 07/19/2006 18:10 | 07/20/2006 06:30 | 07/20/2006 17:03 |
| <i>Nitrate-N</i> | | | | 07/20/2006 06:30 | 07/20/2006 09:53 |

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G20092 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20092-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.063 | ug/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20092-BS1) | | | | | | | | | | | |
| Mercury | 8.13 | 0.20 | 0.063 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/20/2006 (6G20092-MS1) | | | | | | | | | | | |
| Mercury | 7.30 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20092-MSD1) | | | | | | | | | | | |
| Mercury | 7.31 | 0.20 | 0.063 | ug/l | 8.00 | ND | 91 | 70-130 | 0 | 20 | |
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Calcium | ND | 0.10 | N/A | mg/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Magnesium | ND | 0.020 | N/A | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21067-BS1) | | | | | | | | | | | |
| Arsenic | 509 | 5.0 | 4.4 | ug/l | 500 | | 102 | 85-115 | | | |
| Beryllium | 498 | 2.0 | 0.90 | ug/l | 500 | | 100 | 85-115 | | | |
| Chromium | 503 | 5.0 | 2.0 | ug/l | 500 | | 101 | 85-115 | | | |
| Iron | 0.501 | 0.040 | 0.015 | mg/l | 0.500 | | 100 | 85-115 | | | |
| Manganese | 487 | 20 | 7.0 | ug/l | 500 | | 97 | 85-115 | | | |
| Nickel | 495 | 10 | 2.0 | ug/l | 500 | | 99 | 85-115 | | | |
| Zinc | 492 | 20 | 15 | ug/l | 500 | | 98 | 85-115 | | | |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1587

Sampled: 07/19/06
Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21067 Extracted: 07/21/06 | | | | | | | | | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 536 | 5.0 | 4.4 | ug/l | 500 | 11 | 105 | 70-130 | | | |
| Beryllium | 499 | 2.0 | 0.90 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Chromium | 493 | 5.0 | 2.0 | ug/l | 500 | ND | 99 | 70-130 | | | |
| Iron | 0.572 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 98 | 70-130 | | | |
| Manganese | 1310 | 20 | 7.0 | ug/l | 500 | 840 | 94 | 70-130 | | | |
| Nickel | 494 | 10 | 2.0 | ug/l | 500 | 9.5 | 97 | 70-130 | | | |
| Zinc | 531 | 20 | 15 | ug/l | 500 | 19 | 102 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21067-MS2) | | | | | | Source: IPG1530-02 | | | | | |
| Arsenic | 534 | 5.0 | 4.4 | ug/l | 500 | 12 | 104 | 70-130 | | | |
| Beryllium | 508 | 2.0 | 0.90 | ug/l | 500 | ND | 102 | 70-130 | | | |
| Chromium | 498 | 5.0 | 2.0 | ug/l | 500 | ND | 100 | 70-130 | | | |
| Iron | 0.554 | 0.040 | 0.015 | mg/l | 0.500 | 0.065 | 98 | 70-130 | | | |
| Manganese | 1150 | 20 | 7.0 | ug/l | 500 | 670 | 96 | 70-130 | | | |
| Nickel | 503 | 10 | 2.0 | ug/l | 500 | 19 | 97 | 70-130 | | | |
| Zinc | 513 | 20 | 15 | ug/l | 500 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21067-MSD1) | | | | | | Source: IPG1530-01 | | | | | |
| Arsenic | 533 | 5.0 | 4.4 | ug/l | 500 | 11 | 104 | 70-130 | 1 | 20 | |
| Beryllium | 507 | 2.0 | 0.90 | ug/l | 500 | ND | 101 | 70-130 | 2 | 20 | |
| Chromium | 491 | 5.0 | 2.0 | ug/l | 500 | ND | 98 | 70-130 | 0 | 20 | |
| Iron | 0.561 | 0.040 | 0.015 | mg/l | 0.500 | 0.083 | 96 | 70-130 | 2 | 20 | |
| Manganese | 1320 | 20 | 7.0 | ug/l | 500 | 840 | 96 | 70-130 | 1 | 20 | |
| Nickel | 489 | 10 | 2.0 | ug/l | 500 | 9.5 | 96 | 70-130 | 1 | 20 | |
| Zinc | 525 | 20 | 15 | ug/l | 500 | 19 | 101 | 70-130 | 1 | 20 | |

Batch: 6G21072 Extracted: 07/21/06

Blank Analyzed: 07/24/2006 (6G21072-BLK1)

| | | | | | | | | | | | |
|----------|-------|-----|-------|------|--|--|--|--|--|--|---|
| Antimony | 0.161 | 2.0 | 0.050 | ug/l | | | | | | | J |
| Cadmium | 0.137 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Copper | 0.253 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | 0.160 | 1.0 | 0.040 | ug/l | | | | | | | J |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | J |
| Silver | 0.127 | 1.0 | 0.025 | ug/l | | | | | | | J |
| Thallium | 0.180 | 1.0 | 0.15 | ug/l | | | | | | | J |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21072 Extracted: 07/21/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G21072-BS1) | | | | | | | | | | | |
| Antimony | 80.1 | 2.0 | 0.050 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Cadmium | 80.9 | 1.0 | 0.025 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Copper | 77.6 | 2.0 | 0.25 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Lead | 80.5 | 1.0 | 0.040 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Selenium | 80.1 | 2.0 | 0.30 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Silver | 79.3 | 1.0 | 0.025 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.15 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 83.1 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 103 | 70-130 | | | |
| Cadmium | 80.5 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 100 | 70-130 | | | |
| Copper | 76.0 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 94 | 70-130 | | | |
| Lead | 79.3 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 98 | 70-130 | | | |
| Selenium | 81.1 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 100 | 70-130 | | | |
| Silver | 77.4 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 96 | 70-130 | | | |
| Thallium | 80.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 100 | 70-130 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G21072-MS2) Source: IPG1578-01 | | | | | | | | | | | |
| Antimony | 84.3 | 2.0 | 0.050 | ug/l | 80.0 | 0.64 | 105 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 75.4 | 2.0 | 0.25 | ug/l | 80.0 | 0.86 | 93 | 70-130 | | | |
| Lead | 79.0 | 1.0 | 0.040 | ug/l | 80.0 | 0.35 | 98 | 70-130 | | | |
| Selenium | 81.3 | 2.0 | 0.30 | ug/l | 80.0 | 0.39 | 101 | 70-130 | | | |
| Silver | 78.5 | 1.0 | 0.025 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Thallium | 80.2 | 1.0 | 0.15 | ug/l | 80.0 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G21072-MSD1) Source: IPG1566-01 | | | | | | | | | | | |
| Antimony | 85.9 | 2.0 | 0.050 | ug/l | 80.0 | 0.70 | 106 | 70-130 | 3 | 20 | |
| Cadmium | 83.8 | 1.0 | 0.025 | ug/l | 80.0 | 0.31 | 104 | 70-130 | 4 | 20 | |
| Copper | 77.8 | 2.0 | 0.25 | ug/l | 80.0 | 0.63 | 96 | 70-130 | 2 | 20 | |
| Lead | 81.7 | 1.0 | 0.040 | ug/l | 80.0 | 0.63 | 101 | 70-130 | 3 | 20 | |
| Selenium | 82.9 | 2.0 | 0.30 | ug/l | 80.0 | 0.73 | 103 | 70-130 | 2 | 20 | |
| Silver | 80.3 | 1.0 | 0.025 | ug/l | 80.0 | 0.30 | 100 | 70-130 | 4 | 20 | |
| Thallium | 82.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.35 | 103 | 70-130 | 2 | 20 | |

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20129 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G20129-BLK1) | | | | | | | | | | | |
| Arsenic | ND | 5.0 | 4.4 | ug/l | | | | | | | |
| Beryllium | ND | 2.0 | 0.90 | ug/l | | | | | | | |
| Chromium | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Iron | ND | 0.040 | 0.015 | mg/l | | | | | | | |
| Manganese | ND | 20 | 7.0 | ug/l | | | | | | | |
| Nickel | ND | 10 | 2.0 | ug/l | | | | | | | |
| Zinc | ND | 20 | 15 | ug/l | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G20129-BS1) | | | | | | | | | | | |
| Arsenic | 1020 | 5.0 | 4.4 | ug/l | 1000 | | 102 | 85-115 | | | |
| Beryllium | 1000 | 2.0 | 0.90 | ug/l | 1000 | | 100 | 85-115 | | | |
| Chromium | 1000 | 5.0 | 2.0 | ug/l | 1000 | | 100 | 85-115 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Manganese | 1040 | 20 | 7.0 | ug/l | 1000 | | 104 | 85-115 | | | |
| Nickel | 1010 | 10 | 2.0 | ug/l | 1000 | | 101 | 85-115 | | | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G20129-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1040 | 5.0 | 4.4 | ug/l | 1000 | ND | 104 | 70-130 | | | |
| Beryllium | 1010 | 2.0 | 0.90 | ug/l | 1000 | ND | 101 | 70-130 | | | |
| Chromium | 991 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Iron | 1.01 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 99 | 70-130 | | | |
| Manganese | 988 | 20 | 7.0 | ug/l | 1000 | ND | 99 | 70-130 | | | |
| Nickel | 986 | 10 | 2.0 | ug/l | 1000 | 2.2 | 98 | 70-130 | | | |
| Zinc | 1020 | 20 | 15 | ug/l | 1000 | ND | 102 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G20129-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Arsenic | 1060 | 5.0 | 4.4 | ug/l | 1000 | ND | 106 | 70-130 | 2 | 20 | |
| Beryllium | 1020 | 2.0 | 0.90 | ug/l | 1000 | ND | 102 | 70-130 | 1 | 20 | |
| Chromium | 993 | 5.0 | 2.0 | ug/l | 1000 | ND | 99 | 70-130 | 0 | 20 | |
| Iron | 1.02 | 0.040 | 0.015 | mg/l | 1.00 | 0.017 | 100 | 70-130 | 1 | 20 | |
| Manganese | 997 | 20 | 7.0 | ug/l | 1000 | ND | 100 | 70-130 | 1 | 20 | |
| Nickel | 992 | 10 | 2.0 | ug/l | 1000 | 2.2 | 99 | 70-130 | 1 | 20 | |
| Zinc | 1030 | 20 | 15 | ug/l | 1000 | ND | 103 | 70-130 | 1 | 20 | |

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21075 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G21075-BLK1) | | | | | | | | | | | |
| Antimony | ND | 2.0 | 0.050 | ug/l | | | | | | | |
| Cadmium | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Copper | 0.340 | 2.0 | 0.25 | ug/l | | | | | | | J |
| Lead | ND | 1.0 | 0.040 | ug/l | | | | | | | |
| Selenium | ND | 2.0 | 0.30 | ug/l | | | | | | | |
| Silver | ND | 1.0 | 0.025 | ug/l | | | | | | | |
| Thallium | ND | 1.0 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G21075-BS1) | | | | | | | | | | | |
| Antimony | 83.3 | 2.0 | 0.050 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 82.6 | 1.0 | 0.025 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Copper | 85.2 | 2.0 | 0.25 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 82.9 | 1.0 | 0.040 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Selenium | 83.1 | 2.0 | 0.30 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Silver | 83.7 | 1.0 | 0.025 | ug/l | 80.0 | | 105 | 85-115 | | | |
| Thallium | 79.0 | 1.0 | 0.15 | ug/l | 80.0 | | 99 | 85-115 | | | |
| Matrix Spike Analyzed: 07/25/2006 (6G21075-MS1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.5 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | | | |
| Cadmium | 81.6 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.2 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 103 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Selenium | 79.1 | 2.0 | 0.30 | ug/l | 80.0 | ND | 99 | 70-130 | | | |
| Silver | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Thallium | 75.3 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/25/2006 (6G21075-MSD1) Source: IPG1563-01 | | | | | | | | | | | |
| Antimony | 85.6 | 2.0 | 0.050 | ug/l | 80.0 | 0.51 | 106 | 70-130 | 0 | 20 | |
| Cadmium | 81.3 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Copper | 81.1 | 2.0 | 0.25 | ug/l | 80.0 | 1.1 | 100 | 70-130 | 3 | 20 | |
| Lead | 82.0 | 1.0 | 0.040 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Selenium | 78.7 | 2.0 | 0.30 | ug/l | 80.0 | ND | 98 | 70-130 | 1 | 20 | |
| Silver | 81.2 | 1.0 | 0.025 | ug/l | 80.0 | ND | 102 | 70-130 | 0 | 20 | |
| Thallium | 75.5 | 1.0 | 0.15 | ug/l | 80.0 | 0.20 | 94 | 70-130 | 0 | 20 | |

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

DISSOLVED METALS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G21094 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21094-BLK1) | | | | | | | | | | | |
| Mercury | ND | 0.20 | 0.15 | ug/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21094-BS1) | | | | | | | | | | | |
| Mercury | 8.16 | 0.20 | 0.15 | ug/l | 8.00 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 07/21/2006 (6G21094-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.26 | 0.20 | 0.15 | ug/l | 8.00 | ND | 103 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 07/21/2006 (6G21094-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1735-01 | | | | | |
| Mercury | 8.17 | 0.20 | 0.15 | ug/l | 8.00 | ND | 102 | 70-130 | 1 | 20 | |

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METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G20041 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20041-BLK1) | | | | | | | | | | | |
| Nitrate-N | ND | 0.11 | 0.080 | mg/l | | | | | | | |
| Nitrite-N | ND | 0.15 | 0.080 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.11 | 0.072 | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | 0.18 | mg/l | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20041-BS1) | | | | | | | | | | | |
| Nitrate-N | 1.17 | 0.11 | 0.080 | mg/l | 1.13 | | 104 | 90-110 | | | |
| Nitrite-N | 1.40 | 0.15 | 0.080 | mg/l | 1.52 | | 92 | 90-110 | | | |
| Sulfate | 9.58 | 0.50 | 0.18 | mg/l | 10.0 | | 96 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 07/20/2006 (6G20041-MS1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.24 | 0.11 | 0.080 | mg/l | 1.13 | ND | 110 | 80-120 | | | |
| Nitrite-N | 1.90 | 0.15 | 0.080 | mg/l | 1.52 | ND | 125 | 80-120 | | | MI |
| Matrix Spike Dup Analyzed: 07/20/2006 (6G20041-MSD1) Source: IPG1578-01 | | | | | | | | | | | |
| Nitrate-N | 1.25 | 0.11 | 0.080 | mg/l | 1.13 | ND | 111 | 80-120 | 1 | 20 | |
| Nitrite-N | 1.91 | 0.15 | 0.080 | mg/l | 1.52 | ND | 126 | 80-120 | 1 | 20 | MI |
| Batch: 6G20078 Extracted: 07/20/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20078-DUP1) Source: IPG1427-03 | | | | | | | | | | | |
| Specific Conductance | 728 | 1.0 | N/A | umhos/cm | | 730 | | | 0 | 5 | |
| Batch: 6G20080 Extracted: 07/20/06 | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20080-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |

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 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|----------|-------------|----------------------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 6G20080 Extracted: 07/20/06</u> | | | | | | | | | | | |
| LCS Analyzed: 07/20/2006 (6G20080-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 996 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 07/20/2006 (6G20080-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 762 | 10 | 10 | mg/l | | Source: IPG1378-01 760 | | | 0 | 10 | |
| <u>Batch: 6G20103 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP1) | | | | | | | | | | | |
| pH | 7.72 | NA | N/A | pH Units | | Source: IPG1563-01 7.70 | | | 0 | 5 | |
| Duplicate Analyzed: 07/20/2006 (6G20103-DUP2) | | | | | | | | | | | |
| pH | 7.84 | NA | N/A | pH Units | | Source: IPG1583-01 7.79 | | | 1 | 5 | |
| <u>Batch: 6G20106 Extracted: 07/20/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/20/2006 (6G20106-BLK1) | | | | | | | | | | | |
| Turbidity | ND | 1.0 | 0.040 | NTU | | | | | | | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP1) | | | | | | | | | | | |
| Turbidity | 14.4 | 1.0 | 0.040 | NTU | | Source: IPG1544-01 15 | | | 4 | 20 | |
| Duplicate Analyzed: 07/20/2006 (6G20106-DUP2) | | | | | | | | | | | |
| Turbidity | 3.93 | 1.0 | 0.040 | NTU | | Source: IPG1578-01 3.9 | | | 1 | 20 | |
| <u>Batch: 6G21067 Extracted: 07/21/06</u> | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G21067-BLK1) | | | | | | | | | | | |
| Hardness (as CaCO3) | ND | 1.0 | 1.0 | mg/l | | | | | | | |

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 6G21082 Extracted: 07/21/06 | | | | | | | | | | | |
| Blank Analyzed: 07/21/2006 (6G21082-BLK1) | | | | | | | | | | | |
| Oil & Grease | ND | 5.0 | 0.94 | mg/l | | | | | | | |
| LCS Analyzed: 07/21/2006 (6G21082-BS1) | | | | | | | | | | | |
| Oil & Grease | 18.5 | 5.0 | 0.94 | mg/l | 20.0 | | 92 | 65-120 | | | M-NR1 |
| LCS Dup Analyzed: 07/21/2006 (6G21082-BSD1) | | | | | | | | | | | |
| Oil & Grease | 19.5 | 5.0 | 0.94 | mg/l | 20.0 | | 98 | 65-120 | 5 | 20 | |
| Batch: 6G23021 Extracted: 07/23/06 | | | | | | | | | | | |
| Blank Analyzed: 07/23/2006 (6G23021-BLK1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | ND | 0.50 | 0.30 | mg/l | | | | | | | |
| LCS Analyzed: 07/23/2006 (6G23021-BS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | | 109 | 80-115 | | | |
| Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 10.9 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 103 | 70-120 | | | |
| Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1) | | | | | | | | | | | |
| Ammonia-N (Distilled) | 11.2 | 0.50 | 0.30 | mg/l | 10.0 | 0.56 | 106 | 70-120 | 3 | 15 | |
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| Blank Analyzed: 07/24/2006 (6G24123-BLK1) | | | | | | | | | | | |
| Total Organic Carbon | 0.476 | 1.0 | 0.25 | mg/l | | | | | | | J |

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

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

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G24123 Extracted: 07/24/06 | | | | | | | | | | | |
| LCS Analyzed: 07/24/2006 (6G24123-BS1) | | | | | | | | | | | |
| Total Organic Carbon | 10.2 | 1.0 | 0.25 | mg/l | 10.0 | | 102 | 90-110 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS1) | | | | | | | | | | | |
| Total Organic Carbon | 7.37 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 95 | 80-120 | | | |
| Matrix Spike Analyzed: 07/24/2006 (6G24123-MS2) | | | | | | | | | | | |
| Total Organic Carbon | 7.67 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 111 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD1) | | | | | | | | | | | |
| Total Organic Carbon | 7.50 | 1.0 | 0.25 | mg/l | 5.00 | 2.6 | 98 | 80-120 | 2 | 20 | |
| Matrix Spike Dup Analyzed: 07/24/2006 (6G24123-MSD2) | | | | | | | | | | | |
| Total Organic Carbon | 7.36 | 1.0 | 0.25 | mg/l | 5.00 | 2.1 | 105 | 80-120 | 4 | 20 | |
| Batch: 6G25124 Extracted: 07/25/06 | | | | | | | | | | | |
| Blank Analyzed: 07/25/2006 (6G25124-BLK1) | | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 07/25/2006 (6G25124-BS1) | | | | | | | | | | | |
| Total Suspended Solids | 929 | 10 | 10 | mg/l | 1000 | | 93 | 85-115 | | | |
| Duplicate Analyzed: 07/25/2006 (6G25124-DUP1) | | | | | | | | | | | |
| Total Suspended Solids | 228 | 10 | 10 | mg/l | | 210 | | | 8 | 10 | |
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| Blank Analyzed: 07/26/2006 (6G26103-BLK1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.50 | 0.43 | mg/l | | | | | | | |

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 R-2A Pond Pilot Test
 Report Number: IPG1587

Sampled: 07/19/06
 Received: 07/19/06

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| Batch: 6G26103 Extracted: 07/26/06 | | | | | | | | | | | |
| LCS Analyzed: 07/26/2006 (6G26103-BS1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | | | |
| LCS Dup Analyzed: 07/26/2006 (6G26103-BSD1) | | | | | | | | | | | |
| Total Kjeldahl Nitrogen | 19.9 | 0.50 | 0.43 | mg/l | 20.0 | | 100 | 85-120 | 0 | 15 | |
| Matrix Spike Analyzed: 07/26/2006 (6G26103-MS1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.6 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 100 | 85-120 | | | |
| Matrix Spike Dup Analyzed: 07/26/2006 (6G26103-MSD1) | | | | | | | | | | | |
| | | | | | | Source: IPG1544-03 | | | | | |
| Total Kjeldahl Nitrogen | 10.9 | 0.50 | 0.43 | mg/l | 10.0 | 0.56 | 103 | 85-120 | 3 | 15 | |
| Batch: 6G26143 Extracted: 07/26/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/26/2006 (6G26143-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1563-01 | | | | | |
| Density | 0.972 | NA | N/A | g/cc | | 1.0 | | | 3 | 20 | |
| Batch: 6G27071 Extracted: 07/27/06 | | | | | | | | | | | |
| Duplicate Analyzed: 07/27/2006 (6G27071-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IPG1597-02 | | | | | |
| Alkalinity as CaCO3 | 228 | 2.0 | 2.0 | mg/l | | 230 | | | 1 | 20 | |
| Reference Analyzed: 07/27/2006 (6G27071-SRM1) | | | | | | | | | | | |
| Alkalinity as CaCO3 | 232 | 2.0 | 2.0 | mg/l | 231 | | 100 | 90-110 | | | |

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R-2A Pond Pilot Test
Report Number: IPG1587

Sampled: 07/19/06
Received: 07/19/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

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

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

TestAmerica - Irvine, CA
 Nicholas Marz For Michele Chamberlin
 Project Manager

11691587

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

| | | | |
|--|--|---|--|
| Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 | | Project: Boeing-SSFL BMP/PPDES R-2A Pond Filtration Pilot Test | |
| Project Manager: Bronwyn Kelly | | Phone Number: (626) 568-6691 | |
| Sampler: <i>L. Barrios</i> | | Fax Number: (626) 568-6515 | |

| Sample Description | Sample Matrix | Container Type | # of Cont. | Preservative | Bottle # | Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon (EPA 413.1) | Oil & Grease (EPA 413.1) | Total Kjeldahl Nitrogen | SC4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn | Field readings: Temp = 74 pH = 6.9 | Comments |
|--------------------|---------------|----------------|------------|--------------|----------|---|---|----------------------------------|--------------------------|-------------------------|--|------------------------------|-------------------|---|--|----------|
| P-EFF | W | Poly-1L | 1 | HNO3 | 1 | X | X | | | | | | | | | |
| P-EFF | W | Poly-1L | 1 | None | 2 | | X | | | | | | | | | |
| P-EFF | W | VOAS | 2 | HCl | 3A, 3B | | | | | | | | | | | |
| P-EFF | W | 1L Amber | 2 | HCl | 4A, 4B | | | | | | | | | | | |
| P-EFF | W | Poly-500 ml | 1 | H2SO4 | 5 | | | | | X | | | | | | |
| P-EFF | W | Poly-500 ml | 1 | None | 6 | | | | | | | | | | | |
| P-EFF | W | Poly-500 ml | 2 | None | 7A, 7B | | | | | | X | | | | | |
| P-EFF | W | Poly-500 ml | 1 | H2SO4 | 8 | | | | | | | | X | | | |
| P-EFF | W | Poly-1L | 1 | None | 9 | | | | | | | | | X | | |

| | | | |
|---------------------------------------|----------------------------|-----------------------------------|----------------------------|
| Relinquished By <i>L. Barrios</i> | Date/Time: 7/14/06 100 | Received By <i>[Signature]</i> | Date/Time: 7-19-06 100 |
| Relinquished By <i>[Signature]</i> | Date/Time: 7-19-06 1810 | Received By <i>[Signature]</i> | Date/Time: 7/19/06 1810 |
| Relinquished By _____ | Date/Time: _____ | Received By _____ | Date/Time: _____ |

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