TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

November 08, 2010

Client:

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788

Attn: Erik Corbin

Work Order: DTK0033
Project Name: Plate Rite Project
Project Number: 30281-0064

Date Received: 11/01/10

**Samples logged in at Dayton laboratory.**

An executed copy of the Chain of Custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at the number shown above.

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| PR135 | DTK0033-01 | 10/27/10 |
| PR136 | DTK0033-02 | 10/27/10 |
| PRSOIL-1 | DTK0033-03 | 11/01/10 |

Ohio Certification Number: 4074, 857

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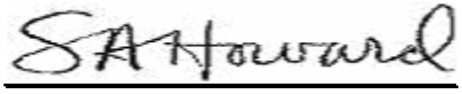
*TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.*

Report Approved By:



This report has been electronically signed.

**TestAmerica Dayton**
Shelly A. Howard
Dayton Project Manager

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EQ - Environmental Quality
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Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0033
Project: Plate Rite Project
Project Number: 30281-0064

Received: 11/01/10
Reported: 11/08/10 16:43

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | Rpt Limit | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0033-01 (PR135 - Non-aqueous)** | | | | | **Sampled: 10/27/10** | | | **Recvd: 11/01/10 17:35** | |
| Organochlorine Pesticides/PCBs | | | | | | | | | |
| PCB-1016 | <0.962 | M | mg/kg | 0.962 | 5 | 11/04/10 01:57 | jbp | 10K0118 | SW 8082 |
| PCB-1221 | <0.962 | | mg/kg | 0.962 | 5 | 11/04/10 01:57 | jbp | 10K0118 | SW 8082 |
| PCB-1232 | <0.962 | | mg/kg | 0.962 | 5 | 11/04/10 01:57 | jbp | 10K0118 | SW 8082 |
| **PCB-1242** | **288** | | mg/kg | 48.1 | 250 | 11/04/10 13:08 | jbp | 10K0118 | SW 8082 |
| PCB-1248 | <0.962 | | mg/kg | 0.962 | 5 | 11/04/10 01:57 | jbp | 10K0118 | SW 8082 |
| PCB-1254 | <0.962 | | mg/kg | 0.962 | 5 | 11/04/10 01:57 | jbp | 10K0118 | SW 8082 |
| PCB-1260 | <0.962 | M | mg/kg | 0.962 | 5 | 11/04/10 01:57 | jbp | 10K0118 | SW 8082 |
| *Surr: Tetrachloro-meta-xylene (10-194%)* | *146 %* | | | | | 11/04/10 01:57 | jbp | 10K0118 | SW 8082 |
| *Surr: Decachlorobiphenyl (10-180%)* | *113 %* | | | | | 11/04/10 01:57 | jbp | 10K0118 | SW 8082 |
| **Sample ID: DTK0033-02 (PR136 - Non-aqueous)** | | | | | **Sampled: 10/27/10** | | | **Recvd: 11/01/10 17:35** | |
| Organochlorine Pesticides/PCBs | | | | | | | | | |
| PCB-1016 | <0.917 | | mg/kg | 0.917 | 5 | 11/04/10 02:16 | jbp | 10K0118 | SW 8082 |
| PCB-1221 | <0.917 | | mg/kg | 0.917 | 5 | 11/04/10 02:16 | jbp | 10K0118 | SW 8082 |
| PCB-1232 | <0.917 | | mg/kg | 0.917 | 5 | 11/04/10 02:16 | jbp | 10K0118 | SW 8082 |
| **PCB-1242** | **562** | | mg/kg | 91.7 | 500 | 11/04/10 13:27 | jbp | 10K0118 | SW 8082 |
| PCB-1248 | <0.917 | | mg/kg | 0.917 | 5 | 11/04/10 02:16 | jbp | 10K0118 | SW 8082 |
| PCB-1254 | <0.917 | | mg/kg | 0.917 | 5 | 11/04/10 02:16 | jbp | 10K0118 | SW 8082 |
| PCB-1260 | <0.917 | | mg/kg | 0.917 | 5 | 11/04/10 02:16 | jbp | 10K0118 | SW 8082 |
| *Surr: Tetrachloro-meta-xylene (10-194%)* | *66 %* | | | | | 11/04/10 02:16 | jbp | 10K0118 | SW 8082 |
| *Surr: Decachlorobiphenyl (10-180%)* | *82 %* | | | | | 11/04/10 02:16 | jbp | 10K0118 | SW 8082 |
| **Sample ID: DTK0033-03 (PRSOIL-1 - Non-aqueous)** | | | | | **Sampled: 11/01/10** | | | **Recvd: 11/01/10 17:35** | |
| General Chemistry Parameters | | | | | | | | | |
| **Dry Weight** | **82.3** | | % | 0.100 | 1 | 11/05/10 10:19 | jlb | 10K0233 | SW 846 |
| Total Metals | | | | | | | | | |
| **Arsenic** | **13.4** | | mg/kg dry | 11.8 | 100 | 11/03/10 22:45 | BMH | 10K0097 | SW 6020A |
| **Barium** | **37.3** | | mg/kg dry | 5.90 | 100 | 11/03/10 22:45 | BMH | 10K0097 | SW 6020A |
| **Cadmium** | **3.69** | | mg/kg dry | 1.18 | 100 | 11/03/10 22:45 | BMH | 10K0097 | SW 6020A |
| **Chromium** | **86.0** | | mg/kg dry | 5.90 | 100 | 11/03/10 22:45 | BMH | 10K0097 | SW 6020A |
| **Lead** | **101** | | mg/kg dry | 1.18 | 100 | 11/03/10 22:45 | BMH | 10K0097 | SW 6020A |
| **Mercury** | **0.0355** | | mg/kg dry | 0.0199 | 2 | 11/03/10 17:34 | CAJ | 10K0112 | SW 7471A |
| Selenium | <5.90 | RL3 | mg/kg dry | 5.90 | 100 | 11/03/10 22:45 | BMH | 10K0097 | SW 6020A |
| **Silver** | **2.48** | | mg/kg dry | 0.590 | 100 | 11/03/10 22:45 | BMH | 10K0097 | SW 6020A |

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EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0033
Project: Plate Rite Project
Project Number: 30281-0064

Received: 11/01/10
Reported: 11/08/10 16:43

# LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | | | | | | | | | |
| Arsenic | 10K0097 | | | mg/kg wet | N/A | 2.00 | <2.00 | | | | | | | |
| Barium | 10K0097 | | | mg/kg wet | N/A | 1.00 | <1.00 | | | | | | | |
| Cadmium | 10K0097 | | | mg/kg wet | N/A | 0.200 | <0.200 | | | | | | | |
| Chromium | 10K0097 | | | mg/kg wet | N/A | 1.00 | <1.00 | | | | | | | |
| Lead | 10K0097 | | | mg/kg wet | N/A | 0.200 | <0.200 | | | | | | | |
| Selenium | 10K0097 | | | mg/kg wet | N/A | 2.00 | <2.00 | | | | | | | |
| Silver | 10K0097 | | | mg/kg wet | N/A | 0.100 | <0.100 | | | | | | | |
| Mercury | 10K0112 | | | mg/kg wet | N/A | 0.00833 | <0.00833 | | | | | | | |
| **Organochlorine Pesticides/PCBs** | | | | | | | | | | | | | | |
| PCB-1016 | 10K0118 | | | mg/kg | N/A | 1.00 | <1.00 | | | | | | | |
| PCB-1260 | 10K0118 | | | mg/kg | N/A | 1.00 | <1.00 | | | | | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *10K0118* | | | mg/kg | | | | | *95* | | *10-194* | | | |
| *Surrogate: Decachlorobiphenyl* | *10K0118* | | | mg/kg | | | | | *101* | | *10-180* | | | |

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Work Order: DTK0033
Project: Plate Rite Project
Project Number: 30281-0064

Received: 11/01/10
Reported: 11/08/10 16:43

# LABORATORY DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | |
| **QC Source Sample: DTK0033-03** | | | | | | | | | | | | | |
| Dry Weight | 10K0233 | 82.3 | | % | N/A | 0.100 | 83.9 | | | | 2 | 20 | |
| **QC Source Sample: DTK0200-01** | | | | | | | | | | | | | |
| Dry Weight | 10K0233 | 98.9 | | % | N/A | 0.100 | 99.0 | | | | 0 | 20 | |

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Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0033
Project: Plate Rite Project
Project Number: 30281-0064

Received: 11/01/10
Reported: 11/08/10 16:43

## LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | | | | | | | | | |
| Arsenic | 10K0097 | | 50.0 | mg/kg wet | N/A | 2.00 | 49.5 | | 99 | | 80-120 | | | |
| Barium | 10K0097 | | 50.0 | mg/kg wet | N/A | 1.00 | 51.7 | | 103 | | 80-120 | | | |
| Cadmium | 10K0097 | | 50.0 | mg/kg wet | N/A | 0.200 | 52.2 | | 104 | | 80-120 | | | |
| Chromium | 10K0097 | | 50.0 | mg/kg wet | N/A | 1.00 | 52.5 | | 105 | | 80-120 | | | |
| Lead | 10K0097 | | 50.0 | mg/kg wet | N/A | 0.200 | 51.6 | | 103 | | 80-120 | | | |
| Selenium | 10K0097 | | 50.0 | mg/kg wet | N/A | 2.00 | 48.7 | | 97 | | 80-120 | | | |
| Silver | 10K0097 | | 50.0 | mg/kg wet | N/A | 0.100 | 51.6 | | 103 | | 80-120 | | | |
| Mercury | 10K0112 | | 0.0833 | mg/kg wet | N/A | 0.00833 | 0.0872 | | 105 | | 80-120 | | | |
| **Organochlorine Pesticides/PCBs** | | | | | | | | | | | | | | |
| PCB-1016 | 10K0118 | | 5.00 | mg/kg | N/A | 1.00 | 5.14 | | 103 | | 55-150 | | | |
| PCB-1260 | 10K0118 | | 5.00 | mg/kg | N/A | 1.00 | 4.46 | | 89 | | 48-139 | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *10K0118* | | | mg/kg | | | | | *97* | | *10-194* | | | |
| *Surrogate: Decachlorobiphenyl* | *10K0118* | | | mg/kg | | | | | *100* | | *10-180* | | | |

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1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0033
Project: Plate Rite Project
Project Number: 30281-0064

Received: 11/01/10
Reported: 11/08/10 16:43

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0001-11** | | | | | | | | | | | | | | |
| Arsenic | 10K0097 | 19.1 | 50.8 | mg/kg dry | N/A | 10.2 | 71.1 | 67.8 | 102 | 95 | 75-125 | 5 | 20 | |
| Barium | 10K0097 | 108 | 50.8 | mg/kg dry | N/A | 5.08 | 174 | 155 | 130 | 90 | 75-125 | 12 | 20 | M |
| Cadmium | 10K0097 | 1.06 | 50.8 | mg/kg dry | N/A | 1.02 | 48.7 | 47.6 | 94 | 91 | 75-125 | 2 | 20 | |
| Chromium | 10K0097 | 11.5 | 50.8 | mg/kg dry | N/A | 5.08 | 59.3 | 58.9 | 94 | 92 | 75-125 | 1 | 20 | |
| Lead | 10K0097 | 359 | 50.8 | mg/kg dry | N/A | 1.02 | 359 | 344 | 0 | -30 | 75-125 | 4 | 20 | M |
| Selenium | 10K0097 | 1.46 | 50.8 | mg/kg dry | N/A | 10.2 | 46.3 | 46.4 | 88 | 88 | 75-125 | 0 | 20 | |
| Silver | 10K0097 | 0.171 | 50.8 | mg/kg dry | N/A | 0.508 | 46.9 | 45.4 | 92 | 88 | 75-125 | 3 | 20 | |
| **QC Source Sample: DTK0033-03** | | | | | | | | | | | | | | |
| Mercury | 10K0112 | 0.0355 | 0.101 | mg/kg dry | N/A | 0.0101 | 0.157 | 0.148 | 120 | 124 | 75-125 | 6 | 20 | |
| **Organochlorine Pesticides/PCBs** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0033-01** | | | | | | | | | | | | | | |
| PCB-1016 | 10K0118 | 0.00 | 4.50 | mg/kg | N/A | 0.901 | 85.3 | 112 | 1890 | 2410 | 55-150 | 27 | 24 | M |
| PCB-1260 | 10K0118 | 0.00 | 4.50 | mg/kg | N/A | 0.901 | 6.35 | 5.93 | 141 | 128 | 48-139 | 7 | 24 | M |
| *Surrogate: Tetrachloro-meta-xylene* | *10K0118* | | | mg/kg | | | | | *153* | *144* | *10-194* | | | |
| *Surrogate: Decachlorobiphenyl* | *10K0118* | | | mg/kg | | | | | *105* | *93* | *10-180* | | | |

| | | | | | |
|---|---|---|---|---|---|
| EQ - Environmental Quality | Work Order: | DTK0033 | Received: | 11/01/10 |
| 1800 Carillon Blvd. | Project: | Plate Rite Project | Reported: | 11/08/10 16:43 |
| Cincinnati, OH 45240-2788 | Project Number: | 30281-0064 | | |
| Erik Corbin | | | | |

## CERTIFICATION SUMMARY

*Any abnormalities or departures from sample acceptance policy shall be documented on the Chain of Custody and/or Case Narrative included with this report.*

*For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com*

*Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .*

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **M** | The MS, MSD, and/or RPD are outside of acceptance limits due to matrix interference. Please see Blank Spike (LCS). |
| **RL3** | Reporting limit raised due to high concentrations of non-target analytes. |

## ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted in the units.

## ANALYSIS LOCATIONS

Any analyses listed below were analyzed in satellite facilities

**TestAmerica Dayton**

# CHAIN OF CUSTODY

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**Dayton Division**
**4738 Gateway Circle**
**Dayton Ohio 45440**

**Phone: 937-294-6856**
**Toll Free: 800-572-9839**
**Fax: 937-499-1249**

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
State in which sampling occurred _____
Compliance Monitoring? Yes No
Enforcement Action? Yes No

**Client Name:** Environmental Quality Management
**Address:** 1800 Carillon Boulevard
**City/State/Zip:** Cincinnati, OH 45240
**Project Manager:** Erik Corbin
**Telephone Number:** 800-500-0575 **Fax No.:** 513-825-7495
**Sampler Name: (Print)** John Sherrard - Dynamac Corp
**Sampler Signature:**

**Project:** Plate-Rite Plating
**PO#** 30281.0064
**PM:**

| Sample ID | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: $HNO_3$ | HCl | NaOH | $H_2SO_4$ Plastic | $H_2SO_4$ Glass | None | Other | Matrix: SOIL | WATER | Analyze For: **Total PCBs** | **Total RCRA Metals** | **RUSH TAT (Pre-Schedule)** | **RUSH Due Date** | Standard 7-10 Business Days | Email Results | Electronic Deliverables | **Comments / Matrix** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PR135** | 10/27/10 | | 1 | X | | | | | | | | X | | | | **X** | | | | | | | Transformer |
| **PR136** | 10/27/10 | | 1 | X | | | | | | | | X | | | | **X** | | | | | | | Transformer |
| **PRSOIL-1** | 11/1/10 | | 1 | | X | | | | | | | X | | | | | **X** | | | | | | Composite of soil from behind building |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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**Special Instructions:** **5-working day turnaround time; please email results to Erik Corbin with EQM**

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | | | | | |
| Relinquished by: | Date | Time | Received by TestAmerica: | Date | Time |
| | | | | | |

**Laboratory Comments:**

Temperature Upon Receipt:

VOCs Free of Headspace? Y N NA

Sample Containers Intact? Y N

# CHAIN OF CUSTODY

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**Dayton Division**
**4738 Gateway Circle**
**Dayton Ohio 45440**

**Phone: 937-294-6856**
**Toll Free: 800-572-9839**
**Fax: 937-499-1249**

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

State in which sampling occurred _____

Compliance Monitoring? Yes No

Enforcement Action? Yes No

**Client Name:** Environmental Quality Management

**Address:** 1800 Carillon Boulevard

**City/State/Zip:** Cincinnati, OH 45240

**Project Manager:** Erik Corbin

**Telephone Number:** 800-500-0575 **Fax No.:** 513-825-7495

**Sampler Name: (Print)** Chris Wallace (EQM)

**Sampler Signature:**

**Project:** Plate-Rite Plating

**PO#** 30281.0064

**PM:**

| Sample ID | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: $HNO_3$ | HCl | NaOH | $H_2SO_4$ Plastic | $H_2SO_4$ Glass | None | Other | Matrix: SOIL | WATER | Analyze For: Hexavalent Chromium | Total RCRA Metals + Ni | Total Cyanide | pH | | | | | | | | | | | | RUSH TAT (Pre-Schedule) | RUSH Due Date | Standard 7-10 Business Days | Email Results | Electronic Deliverables | Comments / Matrix |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **DW-1** | 1/5/11 | 12:20pm | 1 | X | | | | | | | | X | | | | **X** | **X** | **X** | **X** | | | | | | | | | | | | | | | | | Decon Water |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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**Special Instructions:** **5-working day turnaround time; please email results to Erik Corbin with EQM**

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | | | | | |
| Relinquished by: | Date | Time | Received by TestAmerica: | Date | Time |
| | | | | | |

**Laboratory Comments:**

Temperature Upon Receipt:

VOCs Free of Headspace? Y N NA

Sample Containers Intact? Y N

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November 11, 2010

Client:

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788

Attn: Erik Corbin

Work Order: DTK0153
Project Name: Plate Rite Project
Project Number: 30281.0064

Date Received: 11/03/10

**Samples logged in at Dayton laboratory.**

An executed copy of the Chain of Custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at the number shown above.

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| PRWS-01 | DTK0153-01 | 11/02/10 |
| PRWS-02 | DTK0153-02 | 11/02/10 |
| PRWS-03 | DTK0153-03 | 11/02/10 |
| PRWS-04 | DTK0153-04 | 11/03/10 |
| PRWS-05 | DTK0153-05 | 11/03/10 |
| PRWS-06 | DTK0153-06 | 11/03/10 |

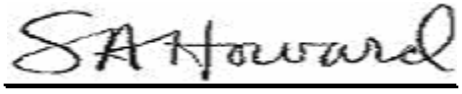
**Case Narrative:** Several partial final reports were generated to deliver data to the client as fast as possible. This final report is complete and all- inclusive.

Ohio Certification Number: 4074, 857

*Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.*

*TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.*

Report Approved By:



This report has been electronically signed.

**TestAmerica Dayton**
Shelly A. Howard
Dayton Project Manager

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Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-01 (PRWS-01 - Water - NonPotable)** | | | | | | **Sampled: 11/02/10** | | | **Recvd: 11/03/10 17:30** | |
| General Chemistry Parameters | | | | | | | | | | |
| Chromium, hexavalent | <0.0200 | H3, RL1 | mg/L | 0.00590 | 0.0200 | 1 | 11/04/10 11:21 | AKM | 10K0192 | SW 7196A |
| Cyanide, Amenable | <0.250 | | mg/L | 0.124 | 0.250 | 1 | 11/09/10 16:02 | KKH | 10K0347 | EPA 335.1/SM 4500 CN-G |
| **Cyanide, Total** | **0.250** | RL1, A-01a | mg/L | 0.124 | 0.250 | 1 | 11/05/10 14:47 | RLM | 10K0221 | SW 9012 Mod. |
| Sulfide | <10.0 | RL1 | mg/L | 2.15 | 10.0 | 100 | 11/04/10 16:10 | JAP | 10K0182 | EPA 376.2/SM 4500S-D |
| **Ignitability by Flashpoint** | **>212** | | °F | NA | NA | 1 | 11/05/10 10:25 | JLB | 10K0228 | SW 1010 (Mod) |
| **pH** | **3.98** | H3 | S.U. | 0.10 | 0.10 | 1 | 11/03/10 22:35 | ARG | 10K0196 | SW 9040C |
| **Solids, Total** | **137000** | | mg/L | 4.30 | 5000 | 1 | 11/05/10 10:39 | jlb | 10K0239 | EPA 160.3/SM18 2540B |
| **Solids, Total Suspended** | **1120** | | mg/L | 100 | 100 | 1 | 11/05/10 10:53 | jlb | 10K0243 | EPA 160.2/SM18 2540D |
| **Temperature - °C** | **20.6** | | S.U. | NA | NA | 1 | 11/03/10 22:35 | ARG | 10K0196 | SW 9040C |
| Total Metals | | | | | | | | | | |
| Arsenic | <1.30 | M4 | mg/L | 0.288 | 1.30 | 80 | 11/06/10 00:17 | BMH | 10K0227 | SW 6020A |
| **Barium** | **<1.00** | | mg/L | 0.0144 | 1.00 | 80 | 11/06/10 00:17 | BMH | 10K0227 | SW 6020A |
| Cadmium | <0.600 | | mg/L | 0.0172 | 0.600 | 80 | 11/06/10 00:17 | BMH | 10K0227 | SW 6020A |
| **Chromium** | **<2.77** | M, | mg/L | 0.0960 | 2.77 | 80 | 11/06/10 00:17 | BMH | 10K0227 | SW 6020A |
| **Lead** | **28.5** | M | mg/L | 0.0268 | 0.600 | 80 | 11/06/10 00:17 | BMH | 10K0227 | SW 6020A |
| Mercury | <0.0265 | RL1 | mg/L | 0.000901 | 0.0265 | 5 | 11/05/10 13:15 | CAJ | 10K0206 | SW 7470A |
| **Nickel** | **16300** | M | mg/L | 2.40 | 100 | 20000 | 11/08/10 16:37 | BMH | 10K0227 | SW 6020A |
| Selenium | <0.800 | M4 | mg/L | 0.276 | 0.800 | 80 | 11/06/10 00:17 | BMH | 10K0227 | SW 6020A |
| Silver | <1.40 | | mg/L | 0.00640 | 1.40 | 80 | 11/06/10 00:17 | BMH | 10K0227 | SW 6020A |
| Volatile Organic Compounds by GC/MS | | | | | | | | | | |
| Acetone | <20.0 | RL1 | mg/L | 6.25 | 20.0 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Benzene | <1.00 | RL1 | mg/L | 0.456 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Bromobenzene | <1.00 | RL1 | mg/L | 0.570 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Bromochloromethane | <1.00 | RL1 | mg/L | 0.472 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Bromodichloromethane (Dichlorobromomethane) | <1.00 | RL1 | mg/L | 0.402 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Bromoform | <1.00 | RL1 | mg/L | 0.411 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Bromomethane (Methyl bromide) | <5.00 | RL1 | mg/L | 0.645 | 5.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 2-Butanone (MEK) | <12.5 | RL1 | mg/L | 2.08 | 12.5 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| tert-Butylbenzene | <1.00 | RL1 | mg/L | 0.459 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| sec-Butylbenzene | <1.00 | RL1 | mg/L | 0.366 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| n-Butylbenzene | <1.00 | RL1 | mg/L | 0.355 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Carbon disulfide | <1.00 | RL1 | mg/L | 0.446 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Carbon tetrachloride | <1.00 | RL1 | mg/L | 0.439 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Chlorobenzene | <1.00 | RL1 | mg/L | 0.450 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Chloroethane | <5.00 | RL1 | mg/L | 0.446 | 5.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Chloroform | <1.00 | RL1 | mg/L | 0.481 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Chloromethane (Methyl chloride) | <5.00 | RL1 | mg/L | 0.490 | 5.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 4-Chlorotoluene | <1.00 | RL1 | mg/L | 0.418 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 2-Chlorotoluene | <1.00 | RL1 | mg/L | 0.555 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Dibromochloromethane (Chlorodibromomethane) | <1.00 | RL1 | mg/L | 0.457 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Dibromomethane | <1.00 | RL1 | mg/L | 0.488 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,2-Dichlorobenzene | <1.00 | RL1 | mg/L | 0.503 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

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Project: Plate Rite Project
Project Number: 30281.0064

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Reported: 11/11/10 16:57

# ANALYTICAL REPORT

**Sample ID: DTK0153-01 (PRWS-01 - Water - NonPotable) - cont.** **Sampled: 11/02/10** **Recvd: 11/03/10 17:30**

Volatile Organic Compounds by GC/MS - cont.

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | <1.00 | RL1 | mg/L | 0.435 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,3-Dichlorobenzene | <1.00 | RL1 | mg/L | 0.424 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Dichlorodifluoromethane | <1.00 | RL1 | mg/L | 0.800 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,1-Dichloroethane | <1.00 | RL1 | mg/L | 0.468 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,2-Dichloroethane | <1.00 | RL1 | mg/L | 0.534 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| cis-1,2-Dichloroethene | <1.00 | RL1 | mg/L | 0.453 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| trans-1,2-Dichloroethene | <1.00 | RL1 | mg/L | 0.449 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,1-Dichloroethene | <1.00 | RL1 | mg/L | 0.451 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,3-Dichloropropane | <1.00 | RL1 | mg/L | 0.454 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 2,2-Dichloropropane | <1.00 | RL1 | mg/L | 0.391 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,2-Dichloropropane | <1.00 | RL1 | mg/L | 0.467 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,1-Dichloropropene | <1.00 | RL1 | mg/L | 0.464 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| cis-1,3-Dichloropropene | <1.00 | RL1 | mg/L | 0.467 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| trans-1,3-Dichloropropene | <1.00 | RL1 | mg/L | 0.638 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Ethylbenzene | <1.00 | RL1 | mg/L | 0.419 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Hexachlorobutadiene | <5.00 | RL1 | mg/L | 0.938 | 5.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| n-Hexane | <5.00 | RL1 | mg/L | 1.56 | 5.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 2-Hexanone | <10.0 | RL1 | mg/L | 2.85 | 10.0 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Isopropylbenzene (Cumene) | <1.00 | RL1 | mg/L | 0.397 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| p-Isopropyltoluene | <1.00 | RL1 | mg/L | 0.363 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Methyl tert-butyl ether | <1.00 | RL1 | mg/L | 0.518 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Methylene chloride | <5.00 | RL1 | mg/L | 0.528 | 5.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 4-Methyl-2-pentanone (MIBK) | <12.5 | RL1 | mg/L | 1.53 | 12.5 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| n-Propylbenzene | <1.00 | RL1 | mg/L | 0.519 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Styrene | <1.00 | RL1 | mg/L | 0.485 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,1,1,2-Tetrachloroethane | <1.00 | RL1 | mg/L | 0.458 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,1,2,2-Tetrachloroethane | <1.00 | RL1 | mg/L | 0.953 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Tetrachloroethene | <1.00 | RL1 | mg/L | 0.450 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Toluene | <1.00 | RL1 | mg/L | 0.522 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,2,4-Trichlorobenzene | <5.00 | RL1 | mg/L | 1.31 | 5.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,1,1-Trichloroethane | <1.00 | RL1 | mg/L | 0.426 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,1,2-Trichloroethane | <1.00 | RL1 | mg/L | 0.643 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Trichloroethene | <1.00 | RL1 | mg/L | 0.453 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Trichlorofluoromethane | <1.00 | RL1 | mg/L | 0.484 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,2,4-Trimethylbenzene | <1.00 | RL1 | mg/L | 0.335 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| 1,3,5-Trimethylbenzene | <1.00 | RL1 | mg/L | 0.388 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Vinyl Acetate | <5.00 | RL1 | mg/L | 0.716 | 5.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Vinyl chloride | <1.00 | RL1 | mg/L | 0.540 | 1.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| Xylenes, Total | <2.00 | RL1 | mg/L | 0.903 | 2.00 | 1000 | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *95 %* | *RL1* | | | | | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| *Surr: Dibromofluoromethane (80-120%)* | *91 %* | *RL1* | | | | | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| *Surr: Toluene-d8 (80-120%)* | *100 %* | *RL1* | | | | | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *98 %* | *RL1* | | | | | 11/06/10 17:55 | eap | 10K0324 | SW 8260B |

Semivolatile Organics by GC/MS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.100 | | mg/L | 0.00486 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Acenaphthylene | <0.100 | | mg/L | 0.00604 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Anthracene | <0.100 | | mg/L | 0.00717 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Benzo (a) anthracene | <0.100 | | mg/L | 0.00607 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Benzo (b) fluoranthene | <0.100 | | mg/L | 0.00681 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |

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# ANALYTICAL REPORT

**Sample ID: DTK0153-01 (PRWS-01 - Water - NonPotable) - cont.** **Sampled: 11/02/10** **Recvd: 11/03/10 17:30**

Semivolatile Organics by GC/MS - cont.

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzo (g,h,i) perylene | <0.100 | | mg/L | 0.00853 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Benzo (k) fluoranthene | <0.100 | | mg/L | 0.00682 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Benzo (a) pyrene | <0.100 | | mg/L | 0.00936 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Benzoic acid | <0.500 | | mg/L | 0.0456 | 0.500 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| **Benzyl alcohol** | **0.380** | | mg/L | 0.00595 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Bis(2-chloroethoxy)methane | <0.100 | | mg/L | 0.00702 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Bis(2-chloroethyl)ether | <0.100 | | mg/L | 0.00441 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Bis(2-chloroisopropyl) ether | <0.100 | | mg/L | 0.00484 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Bis(2-ethylhexyl)phthalate | <0.0500 | | mg/L | 0.00658 | 0.0500 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 4-Bromophenyl phenyl ether | <0.100 | | mg/L | 0.00457 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Butyl benzyl phthalate | <0.100 | | mg/L | 0.00970 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 4-Chloroaniline | <0.100 | | mg/L | 0.0180 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 4-Chloro-3-methylphenol | <0.100 | | mg/L | 0.00605 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| 2-Chloronaphthalene | <0.100 | | mg/L | 0.00370 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 2-Chlorophenol | <0.100 | | mg/L | 0.00390 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| Chrysene | <0.100 | | mg/L | 0.0153 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Dibenzofuran | <0.100 | | mg/L | 0.00431 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 1,2-Dichlorobenzene | <0.100 | | mg/L | 0.00689 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 1,3-Dichlorobenzene | <0.100 | | mg/L | 0.00458 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 1,4-Dichlorobenzene | <0.100 | | mg/L | 0.00335 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Dibenz (a,h) anthracene | <0.100 | | mg/L | 0.0105 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 2,4-Dichlorophenol | <0.100 | | mg/L | 0.00518 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| Diethyl phthalate | <0.100 | | mg/L | 0.00712 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 2,4-Dimethylphenol | <0.100 | | mg/L | 0.00700 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| Dimethyl phthalate | <0.100 | | mg/L | 0.00424 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 4,6-Dinitro-2-methylphenol | <0.200 | I | mg/L | 0.0172 | 0.200 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| 2,4-Dinitrotoluene | <0.100 | | mg/L | 0.00378 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 2,6-Dinitrotoluene | <0.100 | | mg/L | 0.00402 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Di-n-octyl phthalate | <0.100 | | mg/L | 0.0101 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Fluoranthene | <0.100 | | mg/L | 0.00819 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Fluorene | <0.100 | | mg/L | 0.00402 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Hexachlorobenzene | <0.100 | | mg/L | 0.00603 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Hexachlorocyclopentadiene | <0.200 | | mg/L | 0.0169 | 0.200 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Hexachloroethane | <0.100 | | mg/L | 0.00376 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Indeno (1,2,3-cd) pyrene | <0.100 | | mg/L | 0.0113 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 2-Methylnaphthalene | <0.100 | | mg/L | 0.00627 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Isophorone | <0.100 | | mg/L | 0.00568 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 2-Methylphenol (o-Cresol) | <0.100 | | mg/L | 0.00503 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| 3&4-Methylphenol (m&p Cresol) | <0.100 | | mg/L | 0.00899 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| Naphthalene | <0.100 | | mg/L | 0.00281 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Nitrobenzene | <0.0500 | | mg/L | 0.00619 | 0.0500 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 2-Nitrophenol | <0.100 | | mg/L | 0.00439 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| N-Nitrosodi-n-propylamine | <0.100 | | mg/L | 0.00947 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| Pentachlorophenol | <0.100 | | mg/L | 0.0137 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| Phenanthrene | <0.100 | | mg/L | 0.00427 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| **Phenol** | **0.354** | | mg/L | 0.00683 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| Pyrene | <0.100 | | mg/L | 0.00980 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 1,2,4-Trichlorobenzene | <0.100 | | mg/L | 0.00463 | 0.100 | 1 | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| 2,4,5-Trichlorophenol | <0.100 | I | mg/L | 0.00421 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-01 (PRWS-01 - Water - NonPotable) - cont.** | | | | | | **Sampled: 11/02/10** | | | **Recvd: 11/03/10 17:30** | |
| Semivolatile Organics by GC/MS - cont. | | | | | | | | | | |
| 2,4,6-Trichlorophenol | <0.100 | I | mg/L | 0.00445 | 0.100 | 1 | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| *Surr: 2-Fluorophenol (21-145%)* | *111 %* | | | | | | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| *Surr: Phenol-d6 (10-149%)* | *78 %* | | | | | | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| *Surr: Nitrobenzene-d5 (35-124%)* | *17 %* | *Z6* | | | | | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| *Surr: 2-Fluorobiphenyl (43-134%)* | *37 %* | *Z6* | | | | | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| *Surr: 2,4,6-Tribromophenol (21-146%)* | *80 %* | | | | | | 11/05/10 14:14 | clh | 10K0156 | SW 8270C |
| *Surr: Terphenyl-d14 (34-149%)* | *29 %* | *Z6* | | | | | 11/07/10 00:36 | clh | 10K0156 | SW 8270C |
| **Sample ID: DTK0153-02 (PRWS-02 - Water - NonPotable)** | | | | | | **Sampled: 11/02/10** | | | **Recvd: 11/03/10 17:30** | |
| General Chemistry Parameters | | | | | | | | | | |
| **Chromium, hexavalent** | **3680** | H3 | mg/L | 295 | 1000 | 1 | 11/04/10 12:41 | AKM | 10K0192 | SW 7196A |
| **Cyanide, Total** | **<0.250** | RL1, A-01a, | mg/L | 0.124 | 0.250 | 1 | 11/05/10 14:47 | RLM | 10K0221 | SW 9012 Mod. |
| **Sulfide** | **<10.0** | RL1, | mg/L | 2.15 | 10.0 | 100 | 11/04/10 16:10 | JAP | 10K0182 | EPA 376.2/SM 4500S-D |
| **pH** | **0.32** | H3 | S.U. | 0.10 | 0.10 | 1 | 11/03/10 22:38 | ARG | 10K0196 | SW 9040C |
| **Solids, Total** | **202000** | | mg/L | 4.30 | 5000 | 1 | 11/05/10 10:39 | jlb | 10K0239 | EPA 160.3/SM18 2540B |
| **Solids, Total Suspended** | **1700** | | mg/L | 100 | 100 | 1 | 11/05/10 10:53 | jlb | 10K0243 | EPA 160.2/SM18 2540D |
| **Temperature - °C** | **20.5** | | S.U. | NA | NA | 1 | 11/03/10 22:38 | ARG | 10K0196 | SW 9040C |
| Total Metals | | | | | | | | | | |
| Arsenic | <10.0 | RL7 | mg/L | 3.60 | 10.0 | 1000 | 11/06/10 00:51 | BMH | 10K0227 | SW 6020A |
| **Barium** | **<5.00** | RL7, | mg/L | 0.180 | 5.00 | 1000 | 11/06/10 00:51 | BMH | 10K0227 | SW 6020A |
| **Cadmium** | **<1.00** | RL7, | mg/L | 0.215 | 1.00 | 1000 | 11/06/10 00:51 | BMH | 10K0227 | SW 6020A |
| **Chromium** | **34500** | | mg/L | 60.0 | 750 | 50000 | 11/08/10 16:42 | BMH | 10K0227 | SW 6020A |
| **Chromium, Trivalent** | **30800** | | mg/L | 295 | 1000 | 50000 | 11/08/10 16:42 | AKM | [CALC] | Calc |
| **Lead** | **9.98** | | mg/L | 0.335 | 1.00 | 1000 | 11/06/10 00:51 | BMH | 10K0227 | SW 6020A |
| Mercury | <0.0250 | RL1 | mg/L | 0.000850 | 0.0250 | 5 | 11/05/10 13:17 | CAJ | 10K0206 | SW 7470A |
| **Nickel** | **5650** | | mg/L | 6.00 | 250 | 50000 | 11/08/10 16:42 | BMH | 10K0227 | SW 6020A |
| **Selenium** | **<10.0** | RL7, | mg/L | 3.45 | 10.0 | 1000 | 11/06/10 00:51 | BMH | 10K0227 | SW 6020A |
| Silver | <1.40 | | mg/L | 0.0800 | 1.40 | 1000 | 11/06/10 00:51 | BMH | 10K0227 | SW 6020A |
| TCLP Metals by 1311/6000/7000 | | | | | | | | | | |
| Arsenic | <250 | RL1 | mg/L | 17.8 | 250 | 500 | 11/05/10 19:34 | MJW | 10K0247 | SW 6010B |
| Barium | <50.0 | RL1 | mg/L | 4.25 | 50.0 | 500 | 11/05/10 19:34 | MJW | 10K0247 | SW 6010B |
| Cadmium | <75.0 | RL1 | mg/L | 1.74 | 75.0 | 500 | 11/05/10 19:34 | MJW | 10K0247 | SW 6010B |
| **Chromium** | **31800** | | mg/L | 3.90 | 100 | 500 | 11/05/10 19:34 | MJW | 10K0247 | SW 6010B |
| Lead | <200 | RL1 | mg/L | 11.0 | 200 | 500 | 11/05/10 19:34 | MJW | 10K0247 | SW 6010B |
| Mercury | <0.0200 | | mg/L | 0.000680 | 0.0200 | 20 | 11/09/10 14:50 | CAJ | 10K0308 | SW 7470A |
| Selenium | <250 | RL1 | mg/L | 37.0 | 250 | 500 | 11/05/10 19:34 | MJW | 10K0247 | SW 6010B |
| Silver | <100 | RL1 | mg/L | 3.52 | 100 | 500 | 11/05/10 19:34 | MJW | 10K0247 | SW 6010B |
| 305.1_0314314x | | | | | | | | | | |
| **Acidity** | **6.8** | | % | 0.016 | 0.1 | 20 | 11/10/10 00:00 | KH | 314314 | 305.1_0314314 |

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EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-03 (PRWS-03 - Water - NonPotable)** | | | | | | **Sampled: 11/02/10** | | | **Recvd: 11/03/10 17:30** | |
| General Chemistry Parameters | | | | | | | | | | |
| **Chromium, hexavalent** | **0.530** | H3 | mg/L | 0.0590 | 0.200 | 1 | 11/04/10 11:00 | AKM | 10K0192 | SW 7196A |
| Cyanide, Amenable | <0.250 | | mg/L | 0.124 | 0.250 | 1 | 11/09/10 16:02 | KKH | 10K0347 | EPA 335.1/SM 4500 CN-G |
| **Cyanide, Total** | **0.270** | RL1, A-01a | mg/L | 0.124 | 0.250 | 1 | 11/05/10 14:47 | RLM | 10K0221 | SW 9012 Mod. |
| Sulfide | <10.0 | RL1 | mg/L | 2.15 | 10.0 | 100 | 11/04/10 16:10 | JAP | 10K0182 | EPA 376.2/SM 4500S-D |
| pH | <0.10 | H3 | S.U. | 0.10 | 0.10 | 1 | 11/03/10 22:40 | ARG | 10K0196 | SW 9040C |
| **Solids, Total** | **429000** | | mg/L | 4.30 | 5000 | 1 | 11/05/10 10:39 | jlb | 10K0239 | EPA 160.3/SM18 2540B |
| **Solids, Total Suspended** | **3250** | | mg/L | 100 | 100 | 1 | 11/05/10 10:53 | jlb | 10K0243 | EPA 160.2/SM18 2540D |
| **Temperature - °C** | **20.7** | | S.U. | NA | NA | 1 | 11/03/10 22:40 | ARG | 10K0196 | SW 9040C |
| Total Metals | | | | | | | | | | |
| Arsenic | <1.30 | | mg/L | 0.288 | 1.30 | 80 | 11/06/10 01:06 | BMH | 10K0227 | SW 6020A |
| **Barium** | **<1.00** | | mg/L | 0.0144 | 1.00 | 80 | 11/06/10 01:06 | BMH | 10K0227 | SW 6020A |
| **Cadmium** | **<0.600** | | mg/L | 0.0172 | 0.600 | 80 | 11/06/10 01:06 | BMH | 10K0227 | SW 6020A |
| **Chromium** | **933** | | mg/L | 48.0 | 600 | 40000 | 11/08/10 16:47 | BMH | 10K0227 | SW 6020A |
| **Chromium, Trivalent** | **933** | | mg/L | 48.0 | 600 | 40000 | 11/08/10 16:47 | AKM | [CALC] | Calc |
| **Lead** | **3.10** | | mg/L | 0.0268 | 0.600 | 80 | 11/06/10 01:06 | BMH | 10K0227 | SW 6020A |
| Mercury | <0.0250 | RL1, P2 | mg/L | 0.000850 | 0.0250 | 5 | 11/05/10 13:19 | CAJ | 10K0206 | SW 7470A |
| **Nickel** | **41000** | | mg/L | 4.80 | 200 | 40000 | 11/08/10 16:47 | BMH | 10K0227 | SW 6020A |
| Selenium | <0.800 | | mg/L | 0.276 | 0.800 | 80 | 11/06/10 01:06 | BMH | 10K0227 | SW 6020A |
| **Silver** | **<1.40** | | mg/L | 0.00640 | 1.40 | 80 | 11/06/10 01:06 | BMH | 10K0227 | SW 6020A |
| TCLP Metals by 1311/6000/7000 | | | | | | | | | | |
| Arsenic | <100 | RL1 | mg/L | 7.13 | 100 | 200 | 11/08/10 12:21 | MJW | 10K0247 | SW 6010B |
| Barium | <20.0 | RL1 | mg/L | 1.70 | 20.0 | 200 | 11/08/10 12:21 | MJW | 10K0247 | SW 6010B |
| Cadmium | <30.0 | RL1 | mg/L | 0.697 | 30.0 | 200 | 11/08/10 12:21 | MJW | 10K0247 | SW 6010B |
| **Chromium** | **982** | | mg/L | 1.56 | 40.0 | 200 | 11/08/10 12:21 | MJW | 10K0247 | SW 6010B |
| **Lead** | **<80.0** | RL1, | mg/L | 4.41 | 80.0 | 200 | 11/08/10 12:21 | MJW | 10K0247 | SW 6010B |
| **Mercury** | **0.0127** | | mg/L | 0.000170 | 0.00500 | 1 | 11/09/10 14:39 | CAJ | 10K0308 | SW 7470A |
| Selenium | <100 | RL1 | mg/L | 14.8 | 100 | 200 | 11/08/10 12:21 | MJW | 10K0247 | SW 6010B |
| Silver | <40.0 | RL1 | mg/L | 1.41 | 40.0 | 200 | 11/08/10 12:21 | MJW | 10K0247 | SW 6010B |
| 305.1_0314314x | | | | | | | | | | |
| **Acidity** | **14** | | % | 0.04 | 0.25 | 50 | 11/10/10 00:00 | KH | 314314 | 305.1_0314314 |

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EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-04 (PRWS-04 - Water - NonPotable)** | | | | | | **Sampled: 11/03/10** | | | **Recvd: 11/03/10 17:30** | |
| General Chemistry Parameters | | | | | | | | | | |
| **Chromium, hexavalent** | **<5.00** | RL1 | mg/L | 1.48 | 5.00 | 1 | 11/04/10 11:15 | AKM | 10K0192 | SW 7196A |
| **Cyanide, Amenable** | **67300** | | mg/L | 12.4 | 25.0 | 100 | 11/09/10 15:32 | KKH | 10K0347 | EPA 335.1/SM 4500 CN-G |
| **Cyanide, Total** | **67400** | | mg/L | 1240 | 2500 | 10000 | 11/05/10 14:47 | RLM | 10K0221 | SW 9012 Mod. |
| **Sulfide** | **<20.0** | RL1, | mg/L | 4.30 | 20.0 | 200 | 11/04/10 16:10 | JAP | 10K0182 | EPA 376.2/SM 4500S-D |
| **pH** | **13.6** | | S.U. | 0.10 | 0.10 | 1 | 11/03/10 22:43 | ARG | 10K0196 | SW 9040C |
| **Solids, Total** | **444000** | | mg/L | 4.30 | 5000 | 1 | 11/05/10 10:39 | jlb | 10K0239 | EPA 160.3/SM18 2540B |
| **Solids, Total Suspended** | **3600** | | mg/L | 200 | 200 | 1 | 11/05/10 10:53 | jlb | 10K0243 | EPA 160.2/SM18 2540D |
| **Temperature - °C** | **20.4** | | S.U. | NA | NA | 1 | 11/03/10 22:43 | ARG | 10K0196 | SW 9040C |
| Total Metals | | | | | | | | | | |
| **Arsenic** | **<1.30** | | mg/L | 0.288 | 1.30 | 80 | 11/06/10 01:16 | BMH | 10K0227 | SW 6020A |
| **Barium** | **<1.00** | | mg/L | 0.0144 | 1.00 | 80 | 11/06/10 01:16 | BMH | 10K0227 | SW 6020A |
| Cadmium | <0.600 | | mg/L | 0.0172 | 0.600 | 80 | 11/06/10 01:16 | BMH | 10K0227 | SW 6020A |
| **Chromium** | **26.0** | | mg/L | 0.0960 | 2.77 | 80 | 11/06/10 01:16 | BMH | 10K0227 | SW 6020A |
| **Chromium, Trivalent** | **23.9** | | mg/L | 1.48 | 5.00 | 80 | 11/06/10 01:16 | AKM | [CALC] | Calc |
| **Lead** | **<0.600** | | mg/L | 0.0268 | 0.600 | 80 | 11/06/10 01:16 | BMH | 10K0227 | SW 6020A |
| Mercury | <0.125 | RL1, P2 | mg/L | 0.00425 | 0.125 | 25 | 11/05/10 13:48 | CAJ | 10K0206 | SW 7470A |
| **Nickel** | **2.24** | | mg/L | 0.00960 | 0.400 | 80 | 11/08/10 16:19 | BMH | 10K0227 | SW 6020A |
| Selenium | <0.800 | | mg/L | 0.276 | 0.800 | 80 | 11/06/10 01:16 | BMH | 10K0227 | SW 6020A |
| **Silver** | **1.52** | E | mg/L | 0.00640 | 1.40 | 80 | 11/06/10 01:16 | BMH | 10K0227 | SW 6020A |
| **Silver** | **50.7** | | mg/L | 0.00800 | 1.40 | 20 | 11/09/10 19:28 | BMH | 10K0337 | SW 6020A |
| TCLP Metals by 1311/6000/7000 | | | | | | | | | | |
| Arsenic | <25.0 | RL3 | mg/L | 1.78 | 25.0 | 10 | 11/08/10 12:18 | MJW | 10K0261 | SW 6010B |
| **Barium** | **<5.00** | RL3, | mg/L | 0.425 | 5.00 | 10 | 11/08/10 12:18 | MJW | 10K0261 | SW 6010B |
| **Cadmium** | **<7.50** | RL3, | mg/L | 0.174 | 7.50 | 10 | 11/08/10 12:18 | MJW | 10K0261 | SW 6010B |
| **Chromium** | **25.8** | | mg/L | 0.390 | 10.0 | 10 | 11/08/10 12:18 | MJW | 10K0261 | SW 6010B |
| Lead | <20.0 | RL3 | mg/L | 1.10 | 20.0 | 10 | 11/08/10 12:18 | MJW | 10K0261 | SW 6010B |
| Mercury | <0.250 | | mg/L | 0.00850 | 0.250 | 50 | 11/09/10 14:43 | CAJ | 10K0308 | SW 7470A |
| Selenium | <25.0 | RL3 | mg/L | 3.70 | 25.0 | 10 | 11/08/10 12:18 | MJW | 10K0261 | SW 6010B |
| **Silver** | **21.6** | | mg/L | 0.352 | 10.0 | 10 | 11/08/10 12:18 | MJW | 10K0261 | SW 6010B |

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| | | | |
|---|---|---|---|
| EQ - Environmental Quality | Work Order: | DTK0153 | Received: 11/03/10 |
| 1800 Carillon Blvd. | Project: | Plate Rite Project | Reported: 11/11/10 16:57 |
| Cincinnati, OH 45240-2788 | Project Number: | 30281.0064 | |
| Erik Corbin | | | |

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-04 (PRWS-04 - Water - NonPotable) - cont.** | | | | | **Sampled: 11/03/10** | | | **Recvd: 11/03/10 17:30** | |
| General Chemistry | | | | | | | | | |
| Reactive Cyanide | ND | | mg/L | 0.010 | 1 | 11/11/10 13:25 | TYH | 10K0254 | EPA 7.3.3 |

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EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-05 (PRWS-05 - Water - NonPotable)** | | | | | | **Sampled: 11/03/10** | | | **Recvd: 11/03/10 17:30** | |
| General Chemistry Parameters | | | | | | | | | | |
| **Chromium, hexavalent** | **994** | | mg/L | 29.5 | 100 | 1 | 11/04/10 12:34 | AKM | 10K0192 | SW 7196A |
| **Cyanide, Total** | **5.80** | | mg/L | 0.124 | 0.250 | 1 | 11/05/10 14:47 | RLM | 10K0221 | SW 9012 Mod. |
| **Sulfide** | **<10.0** | RL1, | mg/L | 2.15 | 10.0 | 100 | 11/04/10 16:10 | JAP | 10K0182 | EPA 376.2/SM 4500S-D |
| **pH** | **13.8** | | S.U. | 0.10 | 0.10 | 1 | 11/03/10 22:45 | ARG | 10K0196 | SW 9040C |
| **Solids, Total** | **242000** | | mg/L | 4.30 | 5000 | 1 | 11/05/10 10:39 | jlb | 10K0239 | EPA 160.3/SM18 2540B |
| **Solids, Total Suspended** | **2660** | | mg/L | 200 | 200 | 1 | 11/05/10 10:53 | jlb | 10K0243 | EPA 160.2/SM18 2540D |
| **Temperature - °C** | **20.3** | | S.U. | NA | NA | 1 | 11/03/10 22:45 | ARG | 10K0196 | SW 9040C |
| Total Metals | | | | | | | | | | |
| Arsenic | <1.30 | | mg/L | 0.288 | 1.30 | 80 | 11/06/10 01:26 | BMH | 10K0227 | SW 6020A |
| **Barium** | **<1.00** | | mg/L | 0.0144 | 1.00 | 80 | 11/06/10 01:26 | BMH | 10K0227 | SW 6020A |
| Cadmium | <0.600 | | mg/L | 0.0172 | 0.600 | 80 | 11/06/10 01:26 | BMH | 10K0227 | SW 6020A |
| **Chromium** | **668** | | mg/L | 2.40 | 30.0 | 2000 | 11/08/10 16:51 | BMH | 10K0227 | SW 6020A |
| Chromium, Trivalent | <100 | | mg/L | 29.5 | 100 | 2000 | 11/08/10 16:51 | AKM | [CALC] | Calc |
| Lead | <0.600 | | mg/L | 0.0268 | 0.600 | 80 | 11/06/10 01:26 | BMH | 10K0227 | SW 6020A |
| Mercury | <0.0250 | RL1 | mg/L | 0.000850 | 0.0250 | 5 | 11/05/10 13:24 | CAJ | 10K0206 | SW 7470A |
| **Nickel** | **366** | | mg/L | 0.00960 | 0.400 | 80 | 11/06/10 01:26 | BMH | 10K0227 | SW 6020A |
| Selenium | <0.800 | | mg/L | 0.276 | 0.800 | 80 | 11/06/10 01:26 | BMH | 10K0227 | SW 6020A |
| Silver | <1.40 | | mg/L | 0.00640 | 1.40 | 80 | 11/06/10 01:26 | BMH | 10K0227 | SW 6020A |
| TCLP Metals by 1311/6000/7000 | | | | | | | | | | |
| Arsenic | <10.0 | RL1 | mg/L | 0.713 | 10.0 | 20 | 11/05/10 19:56 | MJW | 10K0247 | SW 6010B |
| **Barium** | **<2.00** | RL1, | mg/L | 0.170 | 2.00 | 20 | 11/05/10 19:56 | MJW | 10K0247 | SW 6010B |
| Cadmium | <3.00 | RL1 | mg/L | 0.0697 | 3.00 | 20 | 11/05/10 19:56 | MJW | 10K0247 | SW 6010B |
| **Chromium** | **732** | | mg/L | 0.156 | 4.00 | 20 | 11/05/10 19:56 | MJW | 10K0247 | SW 6010B |
| Lead | <8.00 | RL1 | mg/L | 0.441 | 8.00 | 20 | 11/05/10 19:56 | MJW | 10K0247 | SW 6010B |
| **Mercury** | **<0.00500** | | mg/L | 0.000170 | 0.00500 | 1 | 11/09/10 14:30 | CAJ | 10K0308 | SW 7470A |
| Selenium | <10.0 | RL1 | mg/L | 1.48 | 10.0 | 20 | 11/05/10 19:56 | MJW | 10K0247 | SW 6010B |
| Silver | <4.00 | RL1 | mg/L | 0.141 | 4.00 | 20 | 11/05/10 19:56 | MJW | 10K0247 | SW 6010B |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-06 (PRWS-06 - Non-aqueous)** | | | | | | **Sampled: 11/03/10** | | | **Recvd: 11/03/10 17:30** | |
| General Chemistry Parameters | | | | | | | | | | |
| **Chromium, hexavalent** | **<29.0** | A-01, | mg/kg dry | 1.67 | 29.0 | 10 | 11/08/10 13:06 | JLB | 10K0224 | SW 7196A |
| Cyanide, Total | <0.291 | M14 | mg/kg dry | 0.191 | 0.291 | 1 | 11/05/10 14:10 | RLM | 10K0147 | SW 9012 |
| **Paint Filter Liquids** | **Compliant** | | N/A | NA | NA | 1 | 11/05/10 10:31 | JLB | 10K0236 | SW 9095B |
| **pH** | **13.5** | | S.U. | 0.10 | 0.10 | 1 | 11/04/10 13:17 | JAP | 10K0242 | SW 9045D |
| **Dry Weight** | **85.8** | | % | NA | 0.100 | 1 | 11/05/10 10:19 | jlb | 10K0233 | SW 846 |
| **Temperature - °C** | **20.4** | | S.U. | NA | NA | 1 | 11/04/10 13:17 | JAP | 10K0242 | SW 9045D |
| Total Metals | | | | | | | | | | |
| Arsenic | <11.3 | RL1 | mg/kg dry | 2.28 | 11.3 | 100 | 11/05/10 22:41 | BMH | 10K0229 | SW 6020A |
| **Barium** | **<5.66** | RL1, | mg/kg dry | 2.51 | 5.66 | 100 | 11/05/10 22:41 | BMH | 10K0229 | SW 6020A |
| Cadmium | <1.13 | RL1 | mg/kg dry | 0.299 | 1.13 | 100 | 11/05/10 22:41 | BMH | 10K0229 | SW 6020A |
| **Chromium** | **152** | M | mg/kg dry | 2.62 | 11.3 | 100 | 11/05/10 22:41 | BMH | 10K0229 | SW 6020A |
| **Lead** | **6.14** | | mg/kg dry | 0.279 | 1.13 | 100 | 11/05/10 22:41 | BMH | 10K0229 | SW 6020A |
| Mercury | <0.0971 | RL1 | mg/kg dry | 0.00233 | 0.0971 | 5 | 11/10/10 12:19 | CAJ | 10K0388 | SW 7471A |
| **Nickel** | **1780** | M | mg/kg dry | 0.312 | 5.66 | 100 | 11/05/10 22:41 | BMH | 10K0229 | SW 6020A |
| Selenium | <11.3 | RL1 | mg/kg dry | 0.864 | 11.3 | 100 | 11/05/10 22:41 | BMH | 10K0229 | SW 6020A |
| Silver | <0.566 | RL1 | mg/kg dry | 0.174 | 0.566 | 100 | 11/05/10 22:41 | BMH | 10K0229 | SW 6020A |
| Volatile Organic Compounds by GC/MS | | | | | | | | | | |
| Acetone | <216 | RL1 | mg/kg dry | 19.5 | 216 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Benzene | <10.8 | RL1 | mg/kg dry | 2.84 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Bromobenzene | <10.8 | RL1 | mg/kg dry | 2.90 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Bromochloromethane | <10.8 | RL1 | mg/kg dry | 3.04 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Bromodichloromethane (Dichlorobromomethane) | <10.8 | RL1 | mg/kg dry | 3.28 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Bromoform | <10.8 | RL1 | mg/kg dry | 3.39 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Bromomethane (Methyl bromide) | <21.6 | RL1 | mg/kg dry | 2.79 | 21.6 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 2-Butanone (MEK) | <108 | RL1 | mg/kg dry | 8.59 | 108 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| tert-Butylbenzene | <10.8 | RL1 | mg/kg dry | 2.64 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| sec-Butylbenzene | <10.8 | RL1 | mg/kg dry | 3.77 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| n-Butylbenzene | <10.8 | RL1 | mg/kg dry | 2.88 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Carbon disulfide | <10.8 | RL1 | mg/kg dry | 2.76 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Carbon tetrachloride | <10.8 | RL1 | mg/kg dry | 2.99 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Chlorobenzene | <10.8 | RL1 | mg/kg dry | 2.82 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Chloroethane | <21.6 | RL1 | mg/kg dry | 3.04 | 21.6 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Chloroform | <10.8 | RL1 | mg/kg dry | 2.56 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Chloromethane (Methyl chloride) | <21.6 | RL1 | mg/kg dry | 2.75 | 21.6 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 4-Chlorotoluene | <10.8 | RL1 | mg/kg dry | 2.42 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 2-Chlorotoluene | <10.8 | RL1 | mg/kg dry | 2.49 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Dibromochloromethane (Chlorodibromomethane) | <10.8 | RL1 | mg/kg dry | 3.21 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Dibromomethane | <10.8 | RL1 | mg/kg dry | 3.53 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,2-Dichlorobenzene | <10.8 | RL1 | mg/kg dry | 4.12 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,4-Dichlorobenzene | <10.8 | RL1 | mg/kg dry | 2.73 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,3-Dichlorobenzene | <10.8 | RL1 | mg/kg dry | 4.09 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Dichlorodifluoromethane | <10.8 | RL1 | mg/kg dry | 2.39 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,1-Dichloroethane | <10.8 | RL1 | mg/kg dry | 2.36 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,2-Dichloroethane | <10.8 | RL1 | mg/kg dry | 3.01 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| cis-1,2-Dichloroethene | <10.8 | RL1 | mg/kg dry | 3.35 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| trans-1,2-Dichloroethene | <10.8 | RL1 | mg/kg dry | 2.90 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,1-Dichloroethene | <10.8 | RL1 | mg/kg dry | 3.34 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

**Sample ID: DTK0153-06 (PRWS-06 - Non-aqueous) - cont.** **Sampled: 11/03/10** **Recvd: 11/03/10 17:30**

Volatile Organic Compounds by GC/MS - cont.

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichloropropane | <10.8 | RL1 | mg/kg dry | 3.15 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 2,2-Dichloropropane | <10.8 | RL1 | mg/kg dry | 2.94 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,2-Dichloropropane | <10.8 | RL1 | mg/kg dry | 2.91 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,1-Dichloropropene | <10.8 | RL1 | mg/kg dry | 2.91 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| cis-1,3-Dichloropropene | <10.8 | RL1 | mg/kg dry | 2.83 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| trans-1,3-Dichloropropene | <10.8 | RL1 | mg/kg dry | 2.96 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Ethylbenzene | <10.8 | RL1 | mg/kg dry | 2.96 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Hexachlorobutadiene | <10.8 | RL1 | mg/kg dry | 3.52 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| n-Hexane | <43.2 | RL1 | mg/kg dry | 17.4 | 43.2 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 2-Hexanone | <108 | RL1 | mg/kg dry | 10.0 | 108 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Isopropylbenzene (Cumene) | <10.8 | RL1 | mg/kg dry | 2.83 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| p-Isopropyltoluene | <10.8 | RL1 | mg/kg dry | 2.72 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Methyl tert-butyl ether | <10.8 | RL1 | mg/kg dry | 4.99 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Methylene chloride | <21.6 | RL1 | mg/kg dry | 10.7 | 21.6 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 4-Methyl-2-pentanone (MIBK) | <108 | RL1 | mg/kg dry | 10.3 | 108 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| n-Propylbenzene | <10.8 | RL1 | mg/kg dry | 3.64 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Styrene | <10.8 | RL1 | mg/kg dry | 3.12 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,1,1,2-Tetrachloroethane | <10.8 | RL1 | mg/kg dry | 2.74 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,1,2,2-Tetrachloroethane | <10.8 | RL1 | mg/kg dry | 3.48 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Tetrachloroethene | <10.8 | RL1 | mg/kg dry | 3.11 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Toluene | <10.8 | RL1 | mg/kg dry | 2.92 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,2,4-Trichlorobenzene | <10.8 | RL1 | mg/kg dry | 5.11 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,1,1-Trichloroethane | <10.8 | RL1 | mg/kg dry | 2.96 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,1,2-Trichloroethane | <10.8 | RL1 | mg/kg dry | 3.18 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Trichloroethene | <10.8 | RL1 | mg/kg dry | 2.79 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Trichlorofluoromethane | <10.8 | RL1 | mg/kg dry | 3.09 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,2,4-Trimethylbenzene | <10.8 | RL1 | mg/kg dry | 3.69 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| 1,3,5-Trimethylbenzene | <10.8 | RL1 | mg/kg dry | 2.66 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Vinyl Acetate | <10.8 | RL1 | mg/kg dry | 3.03 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Vinyl chloride | <4.32 | RL1 | mg/kg dry | 3.29 | 4.32 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| Xylenes, total | <10.8 | RL1 | mg/kg dry | 5.10 | 10.8 | 1000 | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| *Surr: 1,2-Dichloroethane-d4 (80-120%)* | *93 %* | *RL1* | | | | | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| *Surr: Dibromofluoromethane (80-120%)* | *90 %* | *RL1* | | | | | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| *Surr: Toluene-d8 (80-120%)* | *100 %* | *RL1* | | | | | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |
| *Surr: 4-Bromofluorobenzene (80-120%)* | *98 %* | *RL1* | | | | | 11/06/10 17:27 | eap | 10K0320 | SW 8260A |

Semivolatile Organics by GC/MS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <3.80 | RL1 | mg/kg dry | 0.164 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Acenaphthylene | <3.80 | RL1 | mg/kg dry | 0.199 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Anthracene | <3.80 | RL1 | mg/kg dry | 0.146 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Benzo (a) anthracene | <3.80 | RL1 | mg/kg dry | 0.179 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Benzo (b) fluoranthene | <3.80 | RL1 | mg/kg dry | 0.226 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Benzo (g,h,i) perylene | <3.80 | RL1 | mg/kg dry | 0.187 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Benzo (k) fluoranthene | <3.80 | RL1 | mg/kg dry | 0.196 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Benzo (a) pyrene | <1.90 | RL1 | mg/kg dry | 0.181 | 1.90 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Benzoic acid | <19.0 | RL1 | mg/kg dry | 4.04 | 19.0 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| **Benzyl alcohol** | **<3.80** | RL1 | mg/kg dry | 0.532 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Bis(2-chloroethoxy)methane | <3.80 | RL1 | mg/kg dry | 0.448 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Bis(2-chloroethyl)ether | <3.80 | RL1 | mg/kg dry | 0.456 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Bis(2-chloroisopropyl) ether | <3.80 | RL1 | mg/kg dry | 0.417 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

**Sample ID: DTK0153-06 (PRWS-06 - Non-aqueous) - cont.** **Sampled: 11/03/10** **Recvd: 11/03/10 17:30**

Semivolatile Organics by GC/MS - cont.

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Bis(2-ethylhexyl)phthalate | <3.80 | RL1 | mg/kg dry | 0.708 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 4-Bromophenyl phenyl ether | <3.80 | RL1 | mg/kg dry | 0.303 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Butyl benzyl phthalate | <3.80 | RL1 | mg/kg dry | 0.509 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 4-Chloroaniline | <3.80 | RL1 | mg/kg dry | 0.290 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 4-Chloro-3-methylphenol | <3.80 | RL1 | mg/kg dry | 0.481 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2-Chloronaphthalene | <3.80 | RL1 | mg/kg dry | 0.386 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2-Chlorophenol | <3.80 | RL1 | mg/kg dry | 0.388 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Chrysene | <3.80 | RL1 | mg/kg dry | 0.164 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Dibenzofuran | <3.80 | RL1 | mg/kg dry | 0.326 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 1,2-Dichlorobenzene | <3.80 | RL1 | mg/kg dry | 0.376 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 1,3-Dichlorobenzene | <3.80 | RL1 | mg/kg dry | 0.375 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 1,4-Dichlorobenzene | <3.80 | RL1 | mg/kg dry | 0.360 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Dibenz (a,h) anthracene | <1.90 | RL1 | mg/kg dry | 0.206 | 1.90 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2,4-Dichlorophenol | <3.80 | RL1 | mg/kg dry | 0.377 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Diethyl phthalate | <3.80 | RL1 | mg/kg dry | 0.364 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2,4-Dimethylphenol | <3.80 | RL1 | mg/kg dry | 0.392 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Dimethyl phthalate | <3.80 | RL1 | mg/kg dry | 0.360 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 4,6-Dinitro-2-methylphenol | <3.80 | RL1 | mg/kg dry | 0.366 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2,4-Dinitrotoluene | <3.80 | RL1 | mg/kg dry | 0.378 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2,6-Dinitrotoluene | <3.80 | RL1 | mg/kg dry | 0.338 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Di-n-octyl phthalate | <3.80 | RL1 | mg/kg dry | 0.638 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Fluoranthene | <3.80 | RL1 | mg/kg dry | 0.177 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Fluorene | <3.80 | RL1 | mg/kg dry | 0.184 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Hexachlorobenzene | <3.80 | RL1 | mg/kg dry | 0.297 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Hexachlorocyclopentadiene | <7.61 | RL1 | mg/kg dry | 1.31 | 7.61 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Hexachloroethane | <3.80 | RL1 | mg/kg dry | 0.399 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Indeno (1,2,3-cd) pyrene | <3.80 | RL1 | mg/kg dry | 0.192 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Isophorone | <3.80 | RL1 | mg/kg dry | 0.432 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2-Methylnaphthalene | <3.80 | RL1 | mg/kg dry | 0.650 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2-Methylphenol (o-Cresol) | <3.80 | RL1 | mg/kg dry | 0.368 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 3&4-Methylphenol (m&p Cresol) | <3.80 | RL1 | mg/kg dry | 0.387 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Naphthalene | <3.80 | RL1 | mg/kg dry | 0.163 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Nitrobenzene | <3.80 | RL1 | mg/kg dry | 0.469 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2-Nitrophenol | <3.80 | RL1 | mg/kg dry | 0.384 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| N-Nitrosodi-n-propylamine | <3.80 | RL1 | mg/kg dry | 0.439 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Pentachlorophenol | <3.80 | RL1 | mg/kg dry | 0.367 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Phenanthrene | <3.80 | RL1 | mg/kg dry | 0.150 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Phenol | <3.80 | RL1 | mg/kg dry | 0.348 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| Pyrene | <3.80 | RL1 | mg/kg dry | 0.196 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 1,2,4-Trichlorobenzene | <3.80 | RL1 | mg/kg dry | 0.398 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2,4,5-Trichlorophenol | <3.80 | RL1 | mg/kg dry | 0.427 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| 2,4,6-Trichlorophenol | <3.80 | RL1 | mg/kg dry | 0.397 | 3.80 | 5 | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| *Surr: 2-Fluorophenol (20-135%)* | *0.05 %* | *RL1,Z6* | | | | | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| *Surr: Phenol-d6 (20-150%)* | *0.6 %* | *RL1,Z6* | | | | | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| *Surr: Nitrobenzene-d5 (30-135%)* | *1 %* | *RL1,Z6* | | | | | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| *Surr: 2-Fluorobiphenyl (40-135%)* | *89 %* | *RL1* | | | | | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| *Surr: 2,4,6-Tribromophenol (25-145%)* | *16 %* | *RL1,Z6* | | | | | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |
| *Surr: Terphenyl-d14 (40-150%)* | *76 %* | *RL1* | | | | | 11/07/10 00:10 | clh | 10K0175 | SW 8270C |

TCLP Metals by 1311/6000/7000

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-06 (PRWS-06 - Non-aqueous) - cont.** | | | | | | **Sampled: 11/03/10** | | | **Recvd: 11/03/10 17:30** | |
| TCLP Metals by 1311/6000/7000 - cont. | | | | | | | | | | |
| Arsenic | <2.50 | RL1 | mg/L | 0.178 | 2.50 | 5 | 11/08/10 12:26 | MJW | 10K0247 | SW 6010B |
| Barium | <0.500 | RL1 | mg/L | 0.0425 | 0.500 | 5 | 11/08/10 12:26 | MJW | 10K0247 | SW 6010B |
| Cadmium | <0.750 | RL1 | mg/L | 0.0174 | 0.750 | 5 | 11/08/10 12:26 | MJW | 10K0247 | SW 6010B |
| **Chromium** | **1.11** | | mg/L | 0.0390 | 1.00 | 5 | 11/08/10 12:26 | MJW | 10K0247 | SW 6010B |
| **Lead** | **<2.00** | RL1, | mg/L | 0.110 | 2.00 | 5 | 11/08/10 12:26 | MJW | 10K0247 | SW 6010B |
| **Mercury** | **<0.00100** | | mg/L | 0.0000340 | 0.00100 | 1 | 11/09/10 14:32 | CAJ | 10K0308 | SW 7470A |
| Selenium | <1.00 | RL1 | mg/L | 0.370 | 1.00 | 5 | 11/08/10 12:26 | MJW | 10K0247 | SW 6010B |
| Silver | <1.00 | RL1 | mg/L | 0.0352 | 1.00 | 5 | 11/08/10 12:26 | MJW | 10K0247 | SW 6010B |

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Received: 11/03/10
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# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | PQL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-06 (PRWS-06 - Non-aqueous) - cont.** | | | | | **Sampled: 11/03/10** | | | **Recvd: 11/03/10 17:30** | |
| 160.3 MOD_0312184x | | | | | | | | | |
| **Percent Solids** | **85.6** | | % | 10 | 1 | 11/09/10 09:08 | MS | 312184 | 160.3 MOD_0312184 |
| 9030B/9034_0312370x | | | | | | | | | |
| **Acid-soluble sulfide** | **138** | | mg/kg | 35.1 | 1 | 11/08/10 00:00 | LG | 312370 | 9030B/9034_0312370 |

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Reported: 11/11/10 16:57

# LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | | |
| Cyanide, Total | 10K0147 | | | mg/kg wet | 0.163 | 0.250 | <0.163 | | | | | | | |
| Sulfide | 10K0182 | | | mg/L | 0.0215 | 0.100 | <0.0215 | | | | | | | |
| Chromium, hexavalent | 10K0192 | | | mg/L | 0.00295 | 0.0100 | <0.00295 | | | | | | | |
| Cyanide, Total | 10K0221 | | | mg/L | 0.00247 | 0.00500 | <0.00247 | | | | | | | |
| Chromium, hexavalent | 10K0224 | | | mg/kg wet | 1.44 | 25.0 | <1.44 | | | | | | | |
| Solids, Total | 10K0239 | | | mg/L | 4.30 | 50.0 | <4.30 | | | | | | | |
| Solids, Total Suspended | 10K0243 | | | mg/L | 5.00 | 5.00 | <5.00 | | | | | | | |
| Cyanide, Amenable | 10K0347 | | | mg/L | 0.00247 | 0.00500 | <0.00247 | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | |
| Mercury | 10K0206 | | | mg/L | 0.0000068 | 0.000200 | 0.0000217 | | | | | | | J |
| Arsenic | 10K0227 | | | mg/L | 0.000720 | 0.00200 | <0.000720 | | | | | | | |
| Barium | 10K0227 | | | mg/L | 0.0000360 | 0.00100 | <0.0000360 | | | | | | | |
| Cadmium | 10K0227 | | | mg/L | 0.0000430 | 0.000200 | <0.0000430 | | | | | | | |
| Chromium | 10K0227 | | | mg/L | 0.000240 | 0.00100 | <0.000240 | | | | | | | |
| Lead | 10K0227 | | | mg/L | 0.0000670 | 0.000200 | <0.0000670 | | | | | | | |
| Nickel | 10K0227 | | | mg/L | 0.0000240 | 0.00100 | 0.000904 | | | | | | | J |
| Selenium | 10K0227 | | | mg/L | 0.000690 | 0.00200 | <0.000690 | | | | | | | |
| Silver | 10K0227 | | | mg/L | 0.0000160 | 0.000100 | <0.0000160 | | | | | | | |
| Arsenic | 10K0229 | | | mg/kg wet | 0.404 | 2.00 | <0.404 | | | | | | | |
| Barium | 10K0229 | | | mg/kg wet | 0.443 | 1.00 | <0.443 | | | | | | | |
| Cadmium | 10K0229 | | | mg/kg wet | 0.0528 | 0.200 | <0.0528 | | | | | | | |
| Chromium | 10K0229 | | | mg/kg wet | 0.464 | 2.00 | <0.464 | | | | | | | |
| Lead | 10K0229 | | | mg/kg wet | 0.0492 | 0.200 | <0.0492 | | | | | | | |
| Nickel | 10K0229 | | | mg/kg wet | 0.0552 | 1.00 | <0.0552 | | | | | | | |
| Selenium | 10K0229 | | | mg/kg wet | 0.153 | 2.00 | <0.153 | | | | | | | |
| Silver | 10K0229 | | | mg/kg wet | 0.0308 | 0.100 | <0.0308 | | | | | | | |
| Silver | 10K0337 | | | mg/L | 0.0000160 | 0.000100 | <0.0000160 | | | | | | | |
| Mercury | 10K0388 | | | mg/kg wet | 0.000200 | 0.00833 | 0.000750 | | | | | | | J |
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| Benzene | 10K0320 | | | mg/kg wet | 0.0553 | 0.210 | <0.0553 | | | | | | | |
| Bromodichloromethane (Dichlorobromomethane) | 10K0320 | | | mg/kg wet | 0.0638 | 0.210 | <0.0638 | | | | | | | |
| Bromoform | 10K0320 | | | mg/kg wet | 0.0659 | 0.210 | <0.0659 | | | | | | | |
| Bromomethane (Methyl bromide) | 10K0320 | | | mg/kg wet | 0.0543 | 0.420 | <0.0543 | | | | | | | |
| Carbon tetrachloride | 10K0320 | | | mg/kg wet | 0.0583 | 0.210 | <0.0583 | | | | | | | |
| Chlorobenzene | 10K0320 | | | mg/kg wet | 0.0549 | 0.210 | <0.0549 | | | | | | | |
| Chloroethane | 10K0320 | | | mg/kg wet | 0.0591 | 0.420 | <0.0591 | | | | | | | |
| Chloroform | 10K0320 | | | mg/kg wet | 0.0498 | 0.210 | <0.0498 | | | | | | | |
| Chloromethane (Methyl chloride) | 10K0320 | | | mg/kg wet | 0.0536 | 0.420 | <0.0536 | | | | | | | |
| Dibromochloromethane (Chlorodibromomethane) | 10K0320 | | | mg/kg wet | 0.0625 | 0.210 | <0.0625 | | | | | | | |
| 1,2-Dichlorobenzene | 10K0320 | | | mg/kg wet | 0.0802 | 0.210 | <0.0802 | | | | | | | |

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# LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 10K0320 | | | mg/kg wet | 0.0532 | 0.210 | <0.0532 | | | | | | | |
| 1,3-Dichlorobenzene | 10K0320 | | | mg/kg wet | 0.0796 | 0.210 | <0.0796 | | | | | | | |
| 1,1-Dichloroethane | 10K0320 | | | mg/kg wet | 0.0458 | 0.210 | <0.0458 | | | | | | | |
| 1,2-Dichloroethane | 10K0320 | | | mg/kg wet | 0.0586 | 0.210 | <0.0586 | | | | | | | |
| trans-1,2-Dichloroethene | 10K0320 | | | mg/kg wet | 0.0564 | 0.210 | <0.0564 | | | | | | | |
| 1,1-Dichloroethene | 10K0320 | | | mg/kg wet | 0.0649 | 0.210 | <0.0649 | | | | | | | |
| 1,2-Dichloropropane | 10K0320 | | | mg/kg wet | 0.0567 | 0.210 | <0.0567 | | | | | | | |
| cis-1,3-Dichloropropene | 10K0320 | | | mg/kg wet | 0.0551 | 0.210 | <0.0551 | | | | | | | |
| trans-1,3-Dichloropropene | 10K0320 | | | mg/kg wet | 0.0575 | 0.210 | <0.0575 | | | | | | | |
| Ethylbenzene | 10K0320 | | | mg/kg wet | 0.0577 | 0.210 | <0.0577 | | | | | | | |
| Methylene chloride | 10K0320 | | | mg/kg wet | 0.207 | 0.420 | <0.207 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10K0320 | | | mg/kg wet | 0.0677 | 0.210 | <0.0677 | | | | | | | |
| Tetrachloroethene | 10K0320 | | | mg/kg wet | 0.0605 | 0.210 | <0.0605 | | | | | | | |
| Toluene | 10K0320 | | | mg/kg wet | 0.0569 | 0.210 | <0.0569 | | | | | | | |
| 1,1,1-Trichloroethane | 10K0320 | | | mg/kg wet | 0.0575 | 0.210 | <0.0575 | | | | | | | |
| 1,1,2-Trichloroethane | 10K0320 | | | mg/kg wet | 0.0618 | 0.210 | <0.0618 | | | | | | | |
| Trichloroethene | 10K0320 | | | mg/kg wet | 0.0542 | 0.210 | <0.0542 | | | | | | | |
| Trichlorofluoromethane | 10K0320 | | | mg/kg wet | 0.0601 | 0.210 | <0.0601 | | | | | | | |
| Vinyl chloride | 10K0320 | | | mg/kg wet | 0.0640 | 0.0840 | <0.0640 | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *10K0320* | | | mg/kg wet | | | | | *91* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *10K0320* | | | mg/kg wet | | | | | *89* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *10K0320* | | | mg/kg wet | | | | | *101* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *10K0320* | | | mg/kg wet | | | | | *97* | | *80-120* | | | |
| Benzene | 10K0324 | | | mg/L | 0.000456 | 0.00100 | <0.000456 | | | | | | | |
| Bromodichloromethane (Dichlorobromomethane) | 10K0324 | | | mg/L | 0.000402 | 0.00100 | <0.000402 | | | | | | | |
| Bromoform | 10K0324 | | | mg/L | 0.000411 | 0.00100 | <0.000411 | | | | | | | |
| Bromomethane (Methyl bromide) | 10K0324 | | | mg/L | 0.000645 | 0.00500 | <0.000645 | | | | | | | |
| Carbon tetrachloride | 10K0324 | | | mg/L | 0.000439 | 0.00100 | <0.000439 | | | | | | | |
| Chlorobenzene | 10K0324 | | | mg/L | 0.000450 | 0.00100 | <0.000450 | | | | | | | |
| Chloroethane | 10K0324 | | | mg/L | 0.000446 | 0.00500 | <0.000446 | | | | | | | |
| Chloroform | 10K0324 | | | mg/L | 0.000481 | 0.00100 | <0.000481 | | | | | | | |
| Chloromethane (Methyl chloride) | 10K0324 | | | mg/L | 0.000490 | 0.00500 | <0.000490 | | | | | | | |
| Dibromochloromethane (Chlorodibromomethane) | 10K0324 | | | mg/L | 0.000457 | 0.00100 | <0.000457 | | | | | | | |
| 1,2-Dichlorobenzene | 10K0324 | | | mg/L | 0.000503 | 0.00100 | <0.000503 | | | | | | | |
| 1,4-Dichlorobenzene | 10K0324 | | | mg/L | 0.000435 | 0.00100 | <0.000435 | | | | | | | |
| 1,3-Dichlorobenzene | 10K0324 | | | mg/L | 0.000424 | 0.00100 | <0.000424 | | | | | | | |
| 1,1-Dichloroethane | 10K0324 | | | mg/L | 0.000468 | 0.00100 | <0.000468 | | | | | | | |
| 1,2-Dichloroethane | 10K0324 | | | mg/L | 0.000534 | 0.00100 | <0.000534 | | | | | | | |
| trans-1,2-Dichloroethene | 10K0324 | | | mg/L | 0.000449 | 0.00100 | <0.000449 | | | | | | | |
| 1,1-Dichloroethene | 10K0324 | | | mg/L | 0.000451 | 0.00100 | <0.000451 | | | | | | | |
| 1,2-Dichloropropane | 10K0324 | | | mg/L | 0.000467 | 0.00100 | <0.000467 | | | | | | | |
| cis-1,3-Dichloropropene | 10K0324 | | | mg/L | 0.000467 | 0.00100 | <0.000467 | | | | | | | |
| trans-1,3-Dichloropropene | 10K0324 | | | mg/L | 0.000638 | 0.00100 | <0.000638 | | | | | | | |
| Ethylbenzene | 10K0324 | | | mg/L | 0.000419 | 0.00100 | <0.000419 | | | | | | | |

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# LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| n-Hexane | 10K0324 | | | mg/L | 0.00156 | 0.00500 | <0.00156 | | | | | | | |
| Methylene chloride | 10K0324 | | | mg/L | 0.000528 | 0.00500 | <0.000528 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10K0324 | | | mg/L | 0.000953 | 0.00100 | <0.000953 | | | | | | | |
| Tetrachloroethene | 10K0324 | | | mg/L | 0.000450 | 0.00100 | <0.000450 | | | | | | | |
| Toluene | 10K0324 | | | mg/L | 0.000522 | 0.00100 | <0.000522 | | | | | | | |
| 1,1,1-Trichloroethane | 10K0324 | | | mg/L | 0.000426 | 0.00100 | <0.000426 | | | | | | | |
| 1,1,2-Trichloroethane | 10K0324 | | | mg/L | 0.000643 | 0.00100 | <0.000643 | | | | | | | |
| Trichloroethene | 10K0324 | | | mg/L | 0.000453 | 0.00100 | <0.000453 | | | | | | | |
| Trichlorofluoromethane | 10K0324 | | | mg/L | 0.000484 | 0.00100 | <0.000484 | | | | | | | |
| Vinyl chloride | 10K0324 | | | mg/L | 0.000540 | 0.00100 | <0.000540 | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *10K0324* | | | mg/L | | | | | *94* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *10K0324* | | | mg/L | | | | | *91* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *10K0324* | | | mg/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *10K0324* | | | mg/L | | | | | *98* | | *80-120* | | | |
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| Benzoic acid | 10K0156 | | | mg/L | 0.00456 | 0.0500 | <0.00456 | | | | | | | |
| 4-Chloro-3-methylphenol | 10K0156 | | | mg/L | 0.000605 | 0.0100 | <0.000605 | | | | | | | |
| 2-Chlorophenol | 10K0156 | | | mg/L | 0.000390 | 0.0100 | <0.000390 | | | | | | | |
| 2,4-Dichlorophenol | 10K0156 | | | mg/L | 0.000518 | 0.0100 | <0.000518 | | | | | | | |
| 2,4-Dimethylphenol | 10K0156 | | | mg/L | 0.000700 | 0.0100 | <0.000700 | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 10K0156 | | | mg/L | 0.00172 | 0.0200 | <0.00172 | | | | | | | |
| 2-Methylphenol (o-Cresol) | 10K0156 | | | mg/L | 0.000503 | 0.0100 | <0.000503 | | | | | | | |
| 3&4-Methylphenol (m&p Cresol) | 10K0156 | | | mg/L | 0.000899 | 0.0100 | <0.000899 | | | | | | | |
| 2-Nitrophenol | 10K0156 | | | mg/L | 0.000439 | 0.0100 | <0.000439 | | | | | | | |
| Pentachlorophenol | 10K0156 | | | mg/L | 0.00137 | 0.0100 | <0.00137 | | | | | | | |
| Phenol | 10K0156 | | | mg/L | 0.000683 | 0.0100 | <0.000683 | | | | | | | |
| 2,4,5-Trichlorophenol | 10K0156 | | | mg/L | 0.000421 | 0.0100 | <0.000421 | | | | | | | |
| 2,4,6-Trichlorophenol | 10K0156 | | | mg/L | 0.000445 | 0.0100 | <0.000445 | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *10K0156* | | | mg/L | | | | | *79* | | *21-145* | | | |
| *Surrogate: Phenol-d6* | *10K0156* | | | mg/L | | | | | *119* | | *10-149* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *10K0156* | | | mg/L | | | | | *76* | | *21-146* | | | |
| Acenaphthene | 10K0156 | | | mg/L | 0.000486 | 0.0100 | <0.000486 | | | | | | | |
| Acenaphthylene | 10K0156 | | | mg/L | 0.000604 | 0.0100 | <0.000604 | | | | | | | |
| Anthracene | 10K0156 | | | mg/L | 0.000717 | 0.0100 | <0.000717 | | | | | | | |
| Benzo (a) anthracene | 10K0156 | | | mg/L | 0.000607 | 0.0100 | <0.000607 | | | | | | | |
| Benzo (b) fluoranthene | 10K0156 | | | mg/L | 0.000681 | 0.0100 | <0.000681 | | | | | | | |
| Benzo (g,h,i) perylene | 10K0156 | | | mg/L | 0.000853 | 0.0100 | <0.000853 | | | | | | | |
| Benzo (k) fluoranthene | 10K0156 | | | mg/L | 0.000682 | 0.0100 | <0.000682 | | | | | | | |
| Benzo (a) pyrene | 10K0156 | | | mg/L | 0.000936 | 0.0100 | <0.000936 | | | | | | | |
| Benzyl alcohol | 10K0156 | | | mg/L | 0.000595 | 0.0100 | <0.000595 | | | | | | | |
| Bis(2-chloroethoxy)methane | 10K0156 | | | mg/L | 0.000702 | 0.0100 | <0.000702 | | | | | | | |
| Bis(2-chloroethyl)ether | 10K0156 | | | mg/L | 0.000441 | 0.0100 | <0.000441 | | | | | | | |
| Bis(2-chloroisopropyl) ether | 10K0156 | | | mg/L | 0.000484 | 0.0100 | <0.000484 | | | | | | | |

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| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 10K0156 | | | mg/L | 0.000658 | 0.00500 | <0.000658 | | | | | | | |
| 4-Bromophenyl phenyl ether | 10K0156 | | | mg/L | 0.000457 | 0.0100 | <0.000457 | | | | | | | |
| Butyl benzyl phthalate | 10K0156 | | | mg/L | 0.000970 | 0.0100 | <0.000970 | | | | | | | |
| 4-Chloroaniline | 10K0156 | | | mg/L | 0.00180 | 0.0100 | <0.00180 | | | | | | | |
| 2-Chloronaphthalene | 10K0156 | | | mg/L | 0.000370 | 0.0100 | <0.000370 | | | | | | | |
| Chrysene | 10K0156 | | | mg/L | 0.00153 | 0.0100 | <0.00153 | | | | | | | |
| Dibenzofuran | 10K0156 | | | mg/L | 0.000431 | 0.0100 | <0.000431 | | | | | | | |
| 1,2-Dichlorobenzene | 10K0156 | | | mg/L | 0.000689 | 0.0100 | <0.000689 | | | | | | | |
| 1,3-Dichlorobenzene | 10K0156 | | | mg/L | 0.000458 | 0.0100 | <0.000458 | | | | | | | |
| 1,4-Dichlorobenzene | 10K0156 | | | mg/L | 0.000335 | 0.0100 | <0.000335 | | | | | | | |
| Dibenz (a,h) anthracene | 10K0156 | | | mg/L | 0.00105 | 0.0100 | <0.00105 | | | | | | | |
| Diethyl phthalate | 10K0156 | | | mg/L | 0.000712 | 0.0100 | <0.000712 | | | | | | | |
| Dimethyl phthalate | 10K0156 | | | mg/L | 0.000424 | 0.0100 | <0.000424 | | | | | | | |
| 2,4-Dinitrotoluene | 10K0156 | | | mg/L | 0.000378 | 0.0100 | <0.000378 | | | | | | | |
| 2,6-Dinitrotoluene | 10K0156 | | | mg/L | 0.000402 | 0.0100 | <0.000402 | | | | | | | |
| Di-n-octyl phthalate | 10K0156 | | | mg/L | 0.00101 | 0.0100 | <0.00101 | | | | | | | |
| Fluoranthene | 10K0156 | | | mg/L | 0.000819 | 0.0100 | <0.000819 | | | | | | | |
| Fluorene | 10K0156 | | | mg/L | 0.000402 | 0.0100 | <0.000402 | | | | | | | |
| Hexachlorobenzene | 10K0156 | | | mg/L | 0.000603 | 0.0100 | <0.000603 | | | | | | | |
| Hexachlorocyclopentadiene | 10K0156 | | | mg/L | 0.00169 | 0.0200 | <0.00169 | | | | | | | |
| Hexachloroethane | 10K0156 | | | mg/L | 0.000376 | 0.0100 | <0.000376 | | | | | | | |
| Indeno (1,2,3-cd) pyrene | 10K0156 | | | mg/L | 0.00113 | 0.0100 | <0.00113 | | | | | | | |
| 2-Methylnaphthalene | 10K0156 | | | mg/L | 0.000627 | 0.0100 | <0.000627 | | | | | | | |
| Isophorone | 10K0156 | | | mg/L | 0.000568 | 0.0100 | <0.000568 | | | | | | | |
| Naphthalene | 10K0156 | | | mg/L | 0.000281 | 0.0100 | <0.000281 | | | | | | | |
| Nitrobenzene | 10K0156 | | | mg/L | 0.000619 | 0.00500 | <0.000619 | | | | | | | |
| N-Nitrosodi-n-propylamine | 10K0156 | | | mg/L | 0.000947 | 0.0100 | <0.000947 | | | | | | | |
| Phenanthrene | 10K0156 | | | mg/L | 0.000427 | 0.0100 | <0.000427 | | | | | | | |
| Pyrene | 10K0156 | | | mg/L | 0.000980 | 0.0100 | <0.000980 | | | | | | | |
| 1,2,4-Trichlorobenzene | 10K0156 | | | mg/L | 0.000463 | 0.0100 | <0.000463 | | | | | | | |
| *Surrogate: Nitrobenzene-d5* | *10K0156* | | | mg/L | | | | | *88* | | *35-124* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *10K0156* | | | mg/L | | | | | *83* | | *43-134* | | | |
| *Surrogate: Terphenyl-d14* | *10K0156* | | | mg/L | | | | | *88* | | *34-149* | | | |
| Acenaphthene | 10K0175 | | | mg/kg wet | 0.0285 | 0.660 | <0.0285 | | | | | | | |
| Acenaphthylene | 10K0175 | | | mg/kg wet | 0.0346 | 0.660 | <0.0346 | | | | | | | |
| Anthracene | 10K0175 | | | mg/kg wet | 0.0253 | 0.660 | <0.0253 | | | | | | | |
| Benzo (a) anthracene | 10K0175 | | | mg/kg wet | 0.0311 | 0.660 | <0.0311 | | | | | | | |
| Benzo (b) fluoranthene | 10K0175 | | | mg/kg wet | 0.0392 | 0.660 | <0.0392 | | | | | | | |
| Benzo (g,h,i) perylene | 10K0175 | | | mg/kg wet | 0.0324 | 0.660 | <0.0324 | | | | | | | |
| Benzo (k) fluoranthene | 10K0175 | | | mg/kg wet | 0.0341 | 0.660 | <0.0341 | | | | | | | |
| Benzo (a) pyrene | 10K0175 | | | mg/kg wet | 0.0314 | 0.330 | <0.0314 | | | | | | | |
| Benzoic acid | 10K0175 | | | mg/kg wet | 0.702 | 3.30 | <0.702 | | | | | | | |
| Benzyl alcohol | 10K0175 | | | mg/kg wet | 0.0924 | 0.660 | <0.0924 | | | | | | | |
| Bis(2-chloroethoxy)methane | 10K0175 | | | mg/kg wet | 0.0778 | 0.660 | <0.0778 | | | | | | | |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 10K0175 | | | mg/kg wet | 0.0791 | 0.660 | <0.0791 | | | | | | | |
| Bis(2-chloroisopropyl) ether | 10K0175 | | | mg/kg wet | 0.0724 | 0.660 | <0.0724 | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 10K0175 | | | mg/kg wet | 0.123 | 0.660 | <0.123 | | | | | | | |
| 4-Bromophenyl phenyl ether | 10K0175 | | | mg/kg wet | 0.0526 | 0.660 | <0.0526 | | | | | | | |
| Butyl benzyl phthalate | 10K0175 | | | mg/kg wet | 0.0884 | 0.660 | <0.0884 | | | | | | | |
| 4-Chloroaniline | 10K0175 | | | mg/kg wet | 0.0504 | 0.660 | <0.0504 | | | | | | | |
| 4-Chloro-3-methylphenol | 10K0175 | | | mg/kg wet | 0.0835 | 0.660 | <0.0835 | | | | | | | |
| 2-Chloronaphthalene | 10K0175 | | | mg/kg wet | 0.0671 | 0.660 | <0.0671 | | | | | | | |
| 2-Chlorophenol | 10K0175 | | | mg/kg wet | 0.0674 | 0.660 | <0.0674 | | | | | | | |
| Chrysene | 10K0175 | | | mg/kg wet | 0.0285 | 0.660 | <0.0285 | | | | | | | |
| Dibenzofuran | 10K0175 | | | mg/kg wet | 0.0566 | 0.660 | <0.0566 | | | | | | | |
| 1,2-Dichlorobenzene | 10K0175 | | | mg/kg wet | 0.0653 | 0.660 | <0.0653 | | | | | | | |
| 1,3-Dichlorobenzene | 10K0175 | | | mg/kg wet | 0.0651 | 0.660 | <0.0651 | | | | | | | |
| 1,4-Dichlorobenzene | 10K0175 | | | mg/kg wet | 0.0626 | 0.660 | <0.0626 | | | | | | | |
| Dibenz (a,h) anthracene | 10K0175 | | | mg/kg wet | 0.0358 | 0.330 | <0.0358 | | | | | | | |
| 2,4-Dichlorophenol | 10K0175 | | | mg/kg wet | 0.0654 | 0.660 | <0.0654 | | | | | | | |
| Diethyl phthalate | 10K0175 | | | mg/kg wet | 0.0632 | 0.660 | <0.0632 | | | | | | | |
| 2,4-Dimethylphenol | 10K0175 | | | mg/kg wet | 0.0681 | 0.660 | <0.0681 | | | | | | | |
| Dimethyl phthalate | 10K0175 | | | mg/kg wet | 0.0624 | 0.660 | <0.0624 | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 10K0175 | | | mg/kg wet | 0.0636 | 0.660 | <0.0636 | | | | | | | |
| 2,4-Dinitrotoluene | 10K0175 | | | mg/kg wet | 0.0656 | 0.660 | <0.0656 | | | | | | | |
| 2,6-Dinitrotoluene | 10K0175 | | | mg/kg wet | 0.0586 | 0.660 | <0.0586 | | | | | | | |
| Di-n-octyl phthalate | 10K0175 | | | mg/kg wet | 0.111 | 0.660 | <0.111 | | | | | | | |
| Fluoranthene | 10K0175 | | | mg/kg wet | 0.0308 | 0.660 | <0.0308 | | | | | | | |
| Fluorene | 10K0175 | | | mg/kg wet | 0.0320 | 0.660 | <0.0320 | | | | | | | |
| Hexachlorobenzene | 10K0175 | | | mg/kg wet | 0.0516 | 0.660 | <0.0516 | | | | | | | |
| Hexachlorocyclopentadiene | 10K0175 | | | mg/kg wet | 0.227 | 1.32 | <0.227 | | | | | | | |
| Hexachloroethane | 10K0175 | | | mg/kg wet | 0.0693 | 0.660 | <0.0693 | | | | | | | |
| Indeno (1,2,3-cd) pyrene | 10K0175 | | | mg/kg wet | 0.0334 | 0.660 | <0.0334 | | | | | | | |
| Isophorone | 10K0175 | | | mg/kg wet | 0.0751 | 0.660 | <0.0751 | | | | | | | |
| 2-Methylnaphthalene | 10K0175 | | | mg/kg wet | 0.113 | 0.660 | <0.113 | | | | | | | |
| 2-Methylphenol (o-Cresol) | 10K0175 | | | mg/kg wet | 0.0638 | 0.660 | <0.0638 | | | | | | | |
| 3&4-Methylphenol (m&p Cresol) | 10K0175 | | | mg/kg wet | 0.0672 | 0.660 | <0.0672 | | | | | | | |
| Naphthalene | 10K0175 | | | mg/kg wet | 0.0283 | 0.660 | <0.0283 | | | | | | | |
| Nitrobenzene | 10K0175 | | | mg/kg wet | 0.0813 | 0.660 | <0.0813 | | | | | | | |
| 2-Nitrophenol | 10K0175 | | | mg/kg wet | 0.0666 | 0.660 | <0.0666 | | | | | | | |
| N-Nitrosodi-n-propylamine | 10K0175 | | | mg/kg wet | 0.0762 | 0.660 | <0.0762 | | | | | | | |
| Pentachlorophenol | 10K0175 | | | mg/kg wet | 0.0637 | 0.660 | <0.0637 | | | | | | | |
| Phenanthrene | 10K0175 | | | mg/kg wet | 0.0260 | 0.660 | <0.0260 | | | | | | | |
| Phenol | 10K0175 | | | mg/kg wet | 0.0604 | 0.660 | <0.0604 | | | | | | | |
| Pyrene | 10K0175 | | | mg/kg wet | 0.0341 | 0.660 | <0.0341 | | | | | | | |
| 1,2,4-Trichlorobenzene | 10K0175 | | | mg/kg wet | 0.0690 | 0.660 | <0.0690 | | | | | | | |
| 2,4,5-Trichlorophenol | 10K0175 | | | mg/kg wet | 0.0741 | 0.660 | <0.0741 | | | | | | | |
| 2,4,6-Trichlorophenol | 10K0175 | | | mg/kg wet | 0.0689 | 0.660 | <0.0689 | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *10K0175* | | | mg/kg wet | | | | | *82* | | *20-135* | | | |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| *Surrogate: Phenol-d6* | *10K0175* | | | mg/kg wet | | | | | *119* | | *20-150* | | | |
| *Surrogate: Nitrobenzene-d5* | *10K0175* | | | mg/kg wet | | | | | *77* | | *30-135* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *10K0175* | | | mg/kg wet | | | | | *94* | | *40-135* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *10K0175* | | | mg/kg wet | | | | | *82* | | *25-145* | | | |
| *Surrogate: Terphenyl-d14* | *10K0175* | | | mg/kg wet | | | | | *96* | | *40-150* | | | |
| **TCLP Metals by 1311/6000/7000** | | | | | | | | | | | | | | |
| Arsenic | 10K0247 | | | mg/L | 0.0356 | 0.500 | <0.0356 | | | | | | | |
| Barium | 10K0247 | | | mg/L | 0.00850 | 0.100 | <0.00850 | | | | | | | |
| Cadmium | 10K0247 | | | mg/L | 0.00348 | 0.150 | <0.00348 | | | | | | | |
| Chromium | 10K0247 | | | mg/L | 0.00781 | 0.200 | <0.00781 | | | | | | | |
| Lead | 10K0247 | | | mg/L | 0.0221 | 0.400 | <0.0221 | | | | | | | |
| Selenium | 10K0247 | | | mg/L | 0.0740 | 0.500 | <0.0740 | | | | | | | |
| Silver | 10K0247 | | | mg/L | 0.00703 | 0.200 | <0.00703 | | | | | | | |
| Arsenic | 10K0261 | | | mg/L | 0.00713 | 0.100 | <0.00713 | | | | | | | |
| Barium | 10K0261 | | | mg/L | 0.00170 | 0.0200 | <0.00170 | | | | | | | |
| Cadmium | 10K0261 | | | mg/L | 0.000697 | 0.0300 | <0.000697 | | | | | | | |
| Chromium | 10K0261 | | | mg/L | 0.00156 | 0.0400 | <0.00156 | | | | | | | |
| Lead | 10K0261 | | | mg/L | 0.00441 | 0.0800 | <0.00441 | | | | | | | |
| Selenium | 10K0261 | | | mg/L | 0.0148 | 0.100 | <0.0148 | | | | | | | |
| Silver | 10K0261 | | | mg/L | 0.00141 | 0.0400 | <0.00141 | | | | | | | |
| Mercury | 10K0308 | | | mg/L | 0.0000068 | 0.000200 | <0.0000068 | | | | | | | |
| **General Chemistry** | | | | | | | | | | | | | | |
| Reactive Cyanide | 10K0254 | | | mg/L | N/A | 0.010 | <0.010 | | | | | | | |
| **160.3 MOD_0312184x** | | | | | | | | | | | | | | |
| Percent Solids | 312184 | | | % | N/A | 10 | <10 | | | | - | | | |
| **305.1_0314314x** | | | | | | | | | | | | | | |
| Acidity | 314314 | | | % | 0.00079 | 0.005 | <0.00079 | | | | - | | | |
| **9030B/9034_0312370x** | | | | | | | | | | | | | | |
| Acid-soluble sulfide | 312370 | | | mg/kg | N/A | 30 | <30 | | | | - | | | |

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339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# LABORATORY DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | |
| **QC Source Sample: DTJ1224-05** | | | | | | | | | | | | | |
| Sulfide | 10K0182 | <0.0215 | | mg/L | 0.0215 | 0.100 | <0.0215 | | | | | 200 | |
| **QC Source Sample: DTK0175-03** | | | | | | | | | | | | | |
| Chromium, hexavalent | 10K0192 | <0.00295 | | mg/L | 0.00295 | 0.0100 | <0.00295 | | | | | 200 | |
| **QC Source Sample: DTK0108-02** | | | | | | | | | | | | | |
| Cyanide, Total | 10K0221 | <0.00247 | | mg/L | 0.00247 | 0.00500 | <0.00247 | | | | | 25 | |
| **QC Source Sample: DTJ1181-02** | | | | | | | | | | | | | |
| Chromium, hexavalent | 10K0224 | 191 | | mg/kg wet | 2.86 | 49.7 | 189 | | | | 1 | 200 | |
| **QC Source Sample: DTK0033-03** | | | | | | | | | | | | | |
| Dry Weight | 10K0233 | 82.3 | | % | N/A | 0.100 | 83.9 | | | | 2 | 20 | |
| **QC Source Sample: DTK0200-01** | | | | | | | | | | | | | |
| Dry Weight | 10K0233 | 98.9 | | % | N/A | 0.100 | 99.0 | | | | 0 | 20 | |
| **QC Source Sample: DTK0153-06** | | | | | | | | | | | | | |
| Paint Filter Liquids | 10K0236 | Compliant | | N/A | N/A | N/A | Present | | | | | 200 | |
| **QC Source Sample: DTK0153-01** | | | | | | | | | | | | | |
| Solids, Total | 10K0239 | 137000 | | mg/L | 4.30 | 5000 | 140000 | | | | 2 | 20 | |
| **QC Source Sample: DTK0153-03** | | | | | | | | | | | | | |
| Solids, Total Suspended | 10K0243 | 3250 | | mg/L | 100 | 100 | 3260 | | | | 0 | 20 | |
| **QC Source Sample: DTK0173-02** | | | | | | | | | | | | | |
| Cyanide, Amenable | 10K0347 | 0.00830 | | mg/L | 0.00247 | 0.00500 | 0.00730 | | | | 13 | 25 | |
| **160.3 MOD_0312184x** | | | | | | | | | | | | | |
| **QC Source Sample: A0K050559008** | | | | | | | | | | | | | |
| Percent Solids | 312184 | 96.3 | | % | N/A | 10 | 97.3 | | | - | 1 | 20 | |
| **QC Source Sample: DTK0153-06** | | | | | | | | | | | | | |
| Percent Solids | 312184 | 85.6 | | % | N/A | 10 | 85.5 | | | - | 0 | 20 | |

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EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | | |
| Cyanide, Total | 10K0147 | | 2.50 | mg/kg wet | 0.163 | 0.250 | 2.52 | | 101 | | 75-123 | | | |
| Sulfide | 10K0182 | | 0.500 | mg/L | 0.0215 | 0.100 | 0.505 | | 101 | | 90-110 | | | |
| Chromium, hexavalent | 10K0192 | | 0.100 | mg/L | 0.00295 | 0.0100 | 0.0960 | | 96 | | 90-110 | | | |
| pH | 10K0196 | | 7.00 | S.U. | N/A | N/A | 7.03 | | 100 | | 98.6-101.4 | | | |
| Cyanide, Total | 10K0221 | | 0.100 | mg/L | 0.00247 | 0.00500 | 0.105 | | 105 | | 80-113 | | | |
| Chromium, hexavalent | 10K0224 | | 40.0 | mg/kg wet | 1.44 | 25.0 | 42.5 | | 106 | | 67-122 | | | |
| Chromium, hexavalent | 10K0224 | | 40.0 | mg/kg wet | 1.44 | 25.0 | 40.1 | | 100 | | 67-122 | | | |
| Ignitability by Flashpoint | 10K0228 | | 81.0 | °F | N/A | N/A | 82.0 | | 101 | | 0-200 | | | |
| Solids, Total | 10K0239 | | 330 | mg/L | 4.30 | 50.0 | 323 | | 98 | | 76-114 | | | |
| pH | 10K0242 | | 13.0 | S.U. | N/A | N/A | 13.1 | | 101 | | 98.6-101.4 | | | |
| Cyanide, Amenable | 10K0347 | | | mg/L | 0.00247 | 0.00500 | 0.101 | | | | 86-109 | | | |
| **Total Metals** | | | | | | | | | | | | | | |
| Mercury | 10K0206 | | 0.00100 | mg/L | 0.0000068 | 0.000200 | 0.00104 | | 104 | | 80-120 | | | |
| Arsenic | 10K0227 | | 0.0500 | mg/L | 0.000720 | 0.00200 | 0.0522 | | 104 | | 80-120 | | | |
| Barium | 10K0227 | | 0.0500 | mg/L | 0.0000360 | 0.00100 | 0.0512 | | 102 | | 80-120 | | | |
| Cadmium | 10K0227 | | 0.0500 | mg/L | 0.0000430 | 0.000200 | 0.0530 | | 106 | | 80-120 | | | |
| Chromium | 10K0227 | | 0.0500 | mg/L | 0.000240 | 0.00100 | 0.0521 | | 104 | | 80-120 | | | |
| Lead | 10K0227 | | 0.0500 | mg/L | 0.0000670 | 0.000200 | 0.0529 | | 106 | | 80-120 | | | |
| Nickel | 10K0227 | | 0.0500 | mg/L | 0.0000240 | 0.00100 | 0.0541 | | 108 | | 80-120 | | | |
| Selenium | 10K0227 | | 0.0500 | mg/L | 0.000690 | 0.00200 | 0.0533 | | 107 | | 80-120 | | | |
| Silver | 10K0227 | | 0.0500 | mg/L | 0.0000160 | 0.000100 | 0.0541 | | 108 | | 80-120 | | | |
| Arsenic | 10K0229 | | 50.0 | mg/kg wet | 0.404 | 2.00 | 44.7 | | 89 | | 80-120 | | | |
| Barium | 10K0229 | | 50.0 | mg/kg wet | 0.443 | 1.00 | 44.4 | | 89 | | 80-120 | | | |
| Cadmium | 10K0229 | | 50.0 | mg/kg wet | 0.0528 | 0.200 | 46.0 | | 92 | | 80-120 | | | |
| Chromium | 10K0229 | | 50.0 | mg/kg wet | 0.464 | 2.00 | 45.8 | | 92 | | 80-120 | | | |
| Lead | 10K0229 | | 50.0 | mg/kg wet | 0.0492 | 0.200 | 46.1 | | 92 | | 80-120 | | | |
| Nickel | 10K0229 | | 50.0 | mg/kg wet | 0.0552 | 1.00 | 46.0 | | 92 | | 80-120 | | | |
| Selenium | 10K0229 | | 50.0 | mg/kg wet | 0.153 | 2.00 | 43.7 | | 87 | | 80-120 | | | |
| Silver | 10K0229 | | 50.0 | mg/kg wet | 0.0308 | 0.100 | 46.1 | | 92 | | 80-120 | | | |
| Silver | 10K0337 | | 0.0500 | mg/L | 0.0000160 | 0.000100 | 0.0506 | | 101 | | 80-120 | | | |
| Mercury | 10K0388 | | 0.0833 | mg/kg wet | 0.000200 | 0.00833 | 0.0976 | | 117 | | 80-120 | | | |
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| Benzene | 10K0320 | | 5.00 | mg/kg wet | 0.329 | 1.25 | 5.54 | | 111 | | 73-120 | | | |
| Bromodichloromethane (Dichlorobromomethane) | 10K0320 | | 5.00 | mg/kg wet | 0.380 | 1.25 | 5.38 | | 108 | | 72-120 | | | |
| Bromoform | 10K0320 | | 5.00 | mg/kg wet | 0.392 | 1.25 | 4.96 | | 99 | | 61-120 | | | |
| Bromomethane (Methyl bromide) | 10K0320 | | | mg/kg wet | 0.323 | 2.50 | <0.323 | | | | 52-123 | | | |
| Carbon tetrachloride | 10K0320 | | 5.00 | mg/kg wet | 0.347 | 1.25 | 5.58 | | 112 | | 64-122 | | | |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

## LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| Chlorobenzene | 10K0320 | | 5.00 | mg/kg wet | 0.326 | 1.25 | 5.75 | | 115 | | 67-121 | | | |
| Chloroethane | 10K0320 | | | mg/kg wet | 0.352 | 2.50 | <0.352 | | | | 53-129 | | | |
| Chloroform | 10K0320 | | 5.00 | mg/kg wet | 0.296 | 1.25 | 5.30 | | 106 | | 68-122 | | | |
| Chloromethane (Methyl chloride) | 10K0320 | | | mg/kg wet | 0.319 | 2.50 | <0.319 | | | | 40-139 | | | |
| Dibromochloromethane (Chlorodibromomethane) | 10K0320 | | 5.00 | mg/kg wet | 0.372 | 1.25 | 5.66 | | 113 | | 54-152 | | | |
| 1,2-Dichlorobenzene | 10K0320 | | 5.00 | mg/kg wet | 0.478 | 1.25 | 5.62 | | 112 | | 74-120 | | | |
| 1,4-Dichlorobenzene | 10K0320 | | 5.00 | mg/kg wet | 0.316 | 1.25 | 5.76 | | 115 | | 71-120 | | | |
| 1,3-Dichlorobenzene | 10K0320 | | 5.00 | mg/kg wet | 0.474 | 1.25 | 5.74 | | 115 | | 72-120 | | | |
| 1,1-Dichloroethane | 10K0320 | | 5.00 | mg/kg wet | 0.273 | 1.25 | 4.91 | | 98 | | 63-125 | | | |
| 1,2-Dichloroethane | 10K0320 | | 5.00 | mg/kg wet | 0.349 | 1.25 | 5.12 | | 102 | | 70-120 | | | |
| trans-1,2-Dichloroethene | 10K0320 | | 5.00 | mg/kg wet | 0.336 | 1.25 | 4.63 | | 93 | | 70-120 | | | |
| 1,1-Dichloroethene | 10K0320 | | 5.00 | mg/kg wet | 0.386 | 1.25 | 4.35 | | 87 | | 57-130 | | | |
| 1,2-Dichloropropane | 10K0320 | | 5.00 | mg/kg wet | 0.337 | 1.25 | 5.37 | | 107 | | 68-120 | | | |
| cis-1,3-Dichloropropene | 10K0320 | | 5.00 | mg/kg wet | 0.328 | 1.25 | 5.32 | | 106 | | 70-121 | | | |
| trans-1,3-Dichloropropene | 10K0320 | | 5.00 | mg/kg wet | 0.342 | 1.25 | 5.97 | | 119 | | 64-120 | | | |
| Ethylbenzene | 10K0320 | | 5.00 | mg/kg wet | 0.343 | 1.25 | 5.90 | | 118 | | 69-123 | | | |
| Methylene chloride | 10K0320 | | 5.00 | mg/kg wet | 1.24 | 2.50 | 4.18 | | 84 | | 46-124 | | | |
| 1,1,2,2-Tetrachloroethane | 10K0320 | | 5.00 | mg/kg wet | 0.403 | 1.25 | 5.50 | | 110 | | 69-120 | | | |
| Tetrachloroethene | 10K0320 | | 5.00 | mg/kg wet | 0.360 | 1.25 | 5.38 | | 108 | | 58-133 | | | |
| Toluene | 10K0320 | | 5.00 | mg/kg wet | 0.338 | 1.25 | 5.64 | | 113 | | 63-126 | | | |
| 1,1,1-Trichloroethane | 10K0320 | | 5.00 | mg/kg wet | 0.342 | 1.25 | 5.54 | | 111 | | 63-125 | | | |
| 1,1,2-Trichloroethane | 10K0320 | | 5.00 | mg/kg wet | 0.368 | 1.25 | 5.79 | | 116 | | 71-120 | | | |
| Trichloroethene | 10K0320 | | 5.00 | mg/kg wet | 0.322 | 1.25 | 5.64 | | 113 | | 71-120 | | | |
| Trichlorofluoromethane | 10K0320 | | | mg/kg wet | 0.358 | 1.25 | <0.358 | | | | 60-128 | | | |
| Vinyl chloride | 10K0320 | | | mg/kg wet | 0.381 | 0.500 | <0.381 | | | | 40-140 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *10K0320* | | | mg/kg wet | | | | | *95* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *10K0320* | | | mg/kg wet | | | | | *94* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *10K0320* | | | mg/kg wet | | | | | *101* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *10K0320* | | | mg/kg wet | | | | | *99* | | *80-120* | | | |
| Benzene | 10K0324 | | 0.0200 | mg/L | 0.000456 | 0.00100 | 0.0198 | | 99 | | 79-120 | | | |
| Bromodichloromethane (Dichlorobromomethane) | 10K0324 | | 0.0200 | mg/L | 0.000402 | 0.00100 | 0.0197 | | 98 | | 76-121 | | | |
| Bromoform | 10K0324 | | 0.0200 | mg/L | 0.000411 | 0.00100 | 0.0189 | | 94 | | 69-120 | | | |
| Bromomethane (Methyl bromide) | 10K0324 | | 0.0200 | mg/L | 0.000645 | 0.00500 | 0.0181 | | 90 | | 64-120 | | | |
| Carbon tetrachloride | 10K0324 | | 0.0200 | mg/L | 0.000439 | 0.00100 | 0.0207 | | 103 | | 70-129 | | | |
| Chlorobenzene | 10K0324 | | 0.0200 | mg/L | 0.000450 | 0.00100 | 0.0196 | | 98 | | 78-120 | | | |
| Chloroethane | 10K0324 | | 0.0200 | mg/L | 0.000446 | 0.00500 | 0.0174 | | 87 | | 67-120 | | | |
| Chloroform | 10K0324 | | 0.0200 | mg/L | 0.000481 | 0.00100 | 0.0190 | | 95 | | 77-120 | | | |
| Chloromethane (Methyl chloride) | 10K0324 | | 0.0200 | mg/L | 0.000490 | 0.00500 | 0.0169 | | 85 | | 58-120 | | | |
| Dibromochloromethane (Chlorodibromomethane) | 10K0324 | | 0.0200 | mg/L | 0.000457 | 0.00100 | 0.0212 | | 106 | | 76-123 | | | |
| 1,2-Dichlorobenzene | 10K0324 | | 0.0200 | mg/L | 0.000503 | 0.00100 | 0.0201 | | 100 | | 78-123 | | | |
| 1,4-Dichlorobenzene | 10K0324 | | 0.0200 | mg/L | 0.000435 | 0.00100 | 0.0197 | | 99 | | 74-120 | | | |
| 1,3-Dichlorobenzene | 10K0324 | | 0.0200 | mg/L | 0.000424 | 0.00100 | 0.0200 | | 100 | | 76-121 | | | |
| 1,1-Dichloroethane | 10K0324 | | 0.0200 | mg/L | 0.000468 | 0.00100 | 0.0184 | | 92 | | 79-120 | | | |
| 1,2-Dichloroethane | 10K0324 | | 0.0200 | mg/L | 0.000534 | 0.00100 | 0.0194 | | 97 | | 75-120 | | | |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

## LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| trans-1,2-Dichloroethene | 10K0324 | | 0.0200 | mg/L | 0.000449 | 0.00100 | 0.0181 | | 90 | | 79-120 | | | |
| 1,1-Dichloroethene | 10K0324 | | 0.0200 | mg/L | 0.000451 | 0.00100 | 0.0167 | | 84 | | 71-121 | | | |
| 1,2-Dichloropropane | 10K0324 | | 0.0200 | mg/L | 0.000467 | 0.00100 | 0.0199 | | 99 | | 80-120 | | | |
| cis-1,3-Dichloropropene | 10K0324 | | 0.0200 | mg/L | 0.000467 | 0.00100 | 0.0204 | | 102 | | 80-120 | | | |
| trans-1,3-Dichloropropene | 10K0324 | | 0.0200 | mg/L | 0.000638 | 0.00100 | 0.0214 | | 107 | | 74-120 | | | |
| Ethylbenzene | 10K0324 | | 0.0200 | mg/L | 0.000419 | 0.00100 | 0.0202 | | 101 | | 79-120 | | | |
| n-Hexane | 10K0324 | | 0.0200 | mg/L | 0.00156 | 0.00500 | 0.0219 | | 109 | | 57-180 | | | |
| Methylene chloride | 10K0324 | | 0.0200 | mg/L | 0.000528 | 0.00500 | 0.0265 | | 133 | | 76-120 | | | L1 |
| 1,1,2,2-Tetrachloroethane | 10K0324 | | 0.0200 | mg/L | 0.000953 | 0.00100 | 0.0192 | | 96 | | 74-120 | | | |
| Tetrachloroethene | 10K0324 | | 0.0200 | mg/L | 0.000450 | 0.00100 | 0.0193 | | 96 | | 62-128 | | | |
| Toluene | 10K0324 | | 0.0200 | mg/L | 0.000522 | 0.00100 | 0.0196 | | 98 | | 79-120 | | | |
| 1,1,1-Trichloroethane | 10K0324 | | 0.0200 | mg/L | 0.000426 | 0.00100 | 0.0209 | | 105 | | 74-121 | | | |
| 1,1,2-Trichloroethane | 10K0324 | | 0.0200 | mg/L | 0.000643 | 0.00100 | 0.0202 | | 101 | | 75-120 | | | |
| Trichloroethene | 10K0324 | | 0.0200 | mg/L | 0.000453 | 0.00100 | 0.0198 | | 99 | | 77-120 | | | |
| Trichlorofluoromethane | 10K0324 | | 0.0200 | mg/L | 0.000484 | 0.00100 | 0.0190 | | 95 | | 71-136 | | | |
| Vinyl chloride | 10K0324 | | 0.0200 | mg/L | 0.000540 | 0.00100 | 0.0174 | | 87 | | 65-126 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *10K0324* | | | mg/L | | | | | *99* | | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *10K0324* | | | mg/L | | | | | *98* | | *80-120* | | | |
| *Surrogate: Toluene-d8* | *10K0324* | | | mg/L | | | | | *101* | | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *10K0324* | | | mg/L | | | | | *99* | | *80-120* | | | |
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| Acenaphthene | 10K0156 | | 0.0500 | mg/L | 0.000486 | 0.0100 | 0.0501 | | 100 | | 64-122 | | | |
| Acenaphthylene | 10K0156 | | 0.0500 | mg/L | 0.000604 | 0.0100 | 0.0501 | | 100 | | 66-130 | | | |
| Anthracene | 10K0156 | | 0.0500 | mg/L | 0.000717 | 0.0100 | 0.0491 | | 98 | | 65-123 | | | |
| Benzo (a) anthracene | 10K0156 | | 0.0500 | mg/L | 0.000607 | 0.0100 | 0.0498 | | 100 | | 65-121 | | | |
| Benzo (b) fluoranthene | 10K0156 | | 0.0500 | mg/L | 0.000681 | 0.0100 | 0.0584 | | 117 | | 65-128 | | | |
| Benzo (g,h,i) perylene | 10K0156 | | 0.0500 | mg/L | 0.000853 | 0.0100 | 0.0485 | | 97 | | 66-129 | | | |
| Benzo (k) fluoranthene | 10K0156 | | 0.0500 | mg/L | 0.000682 | 0.0100 | 0.0393 | | 79 | | 66-128 | | | |
| Benzo (a) pyrene | 10K0156 | | 0.0500 | mg/L | 0.000936 | 0.0100 | 0.0562 | | 112 | | 67-128 | | | |
| Benzoic acid | 10K0156 | | 0.0500 | mg/L | 0.00456 | 0.0500 | 0.0510 | | 102 | | 10-120 | | | |
| Benzyl alcohol | 10K0156 | | 0.0500 | mg/L | 0.000595 | 0.0100 | 0.0533 | | 107 | | 67-127 | | | |
| Bis(2-chloroethoxy)methane | 10K0156 | | 0.0500 | mg/L | 0.000702 | 0.0100 | 0.0530 | | 106 | | 64-121 | | | |
| Bis(2-chloroethyl)ether | 10K0156 | | 0.0500 | mg/L | 0.000441 | 0.0100 | 0.0498 | | 100 | | 55-120 | | | |
| Bis(2-chloroisopropyl) ether | 10K0156 | | 0.0500 | mg/L | 0.000484 | 0.0100 | 0.0374 | | 75 | | 58-120 | | | |
| Bis(2-ethylhexyl)phthalate | 10K0156 | | 0.0500 | mg/L | 0.000658 | 0.00500 | 0.0486 | | 97 | | 65-135 | | | |
| 4-Bromophenyl phenyl ether | 10K0156 | | 0.0500 | mg/L | 0.000457 | 0.0100 | 0.0446 | | 89 | | 65-129 | | | |
| Butyl benzyl phthalate | 10K0156 | | 0.0500 | mg/L | 0.000970 | 0.0100 | 0.0463 | | 93 | | 43-124 | | | |
| 4-Chloroaniline | 10K0156 | | 0.0500 | mg/L | 0.00180 | 0.0100 | 0.0477 | | 95 | | 62-123 | | | |
| 4-Chloro-3-methylphenol | 10K0156 | | 0.0500 | mg/L | 0.000605 | 0.0100 | 0.0517 | | 103 | | 60-121 | | | |
| 2-Chloronaphthalene | 10K0156 | | 0.0500 | mg/L | 0.000370 | 0.0100 | 0.0474 | | 95 | | 64-120 | | | |
| 2-Chlorophenol | 10K0156 | | 0.0500 | mg/L | 0.000390 | 0.0100 | 0.0432 | | 86 | | 53-120 | | | |
| Chrysene | 10K0156 | | 0.0500 | mg/L | 0.00153 | 0.0100 | 0.0482 | | 96 | | 65-128 | | | |
| Dibenzofuran | 10K0156 | | 0.0500 | mg/L | 0.000431 | 0.0100 | 0.0486 | | 97 | | 65-120 | | | |
| 1,2-Dichlorobenzene | 10K0156 | | 0.0500 | mg/L | 0.000689 | 0.0100 | 0.0377 | | 75 | | 48-120 | | | |

EQ - Environmental Quality
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Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

## LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 10K0156 | | 0.0500 | mg/L | 0.000458 | 0.0100 | 0.0365 | | 73 | | 47-120 | | | |
| 1,4-Dichlorobenzene | 10K0156 | | 0.0500 | mg/L | 0.000335 | 0.0100 | 0.0369 | | 74 | | 47-120 | | | |
| Dibenz (a,h) anthracene | 10K0156 | | 0.0500 | mg/L | 0.00105 | 0.0100 | 0.0499 | | 100 | | 65-128 | | | |
| 2,4-Dichlorophenol | 10K0156 | | 0.0500 | mg/L | 0.000518 | 0.0100 | 0.0494 | | 99 | | 58-120 | | | |
| Diethyl phthalate | 10K0156 | | 0.0500 | mg/L | 0.000712 | 0.0100 | 0.0477 | | 95 | | 10-120 | | | |
| 2,4-Dimethylphenol | 10K0156 | | 0.0500 | mg/L | 0.000700 | 0.0100 | 0.0457 | | 91 | | 38-120 | | | |
| Dimethyl phthalate | 10K0156 | | 0.0500 | mg/L | 0.000424 | 0.0100 | 0.0482 | | 96 | | 10-120 | | | |
| 4,6-Dinitro-2-methylphenol | 10K0156 | | 0.0500 | mg/L | 0.00172 | 0.0200 | 0.0502 | | 100 | | 36-142 | | | |
| 2,4-Dinitrotoluene | 10K0156 | | 0.0500 | mg/L | 0.000378 | 0.0100 | 0.0492 | | 98 | | 41-146 | | | |
| 2,6-Dinitrotoluene | 10K0156 | | 0.0500 | mg/L | 0.000402 | 0.0100 | 0.0494 | | 99 | | 62-137 | | | |
| Di-n-octyl phthalate | 10K0156 | | 0.0500 | mg/L | 0.00101 | 0.0100 | 0.0488 | | 98 | | 65-137 | | | |
| Fluoranthene | 10K0156 | | 0.0500 | mg/L | 0.000819 | 0.0100 | 0.0503 | | 101 | | 64-126 | | | |
| Fluorene | 10K0156 | | 0.0500 | mg/L | 0.000402 | 0.0100 | 0.0490 | | 98 | | 65-125 | | | |
| Hexachlorobenzene | 10K0156 | | 0.0500 | mg/L | 0.000603 | 0.0100 | 0.0441 | | 88 | | 65-128 | | | |
| Hexachlorocyclopentadiene | 10K0156 | | 0.0500 | mg/L | 0.00169 | 0.0200 | 0.0267 | | 53 | | 19-120 | | | |
| Hexachloroethane | 10K0156 | | 0.0500 | mg/L | 0.000376 | 0.0100 | 0.0387 | | 77 | | 41-120 | | | |
| Indeno (1,2,3-cd) pyrene | 10K0156 | | 0.0500 | mg/L | 0.00113 | 0.0100 | 0.0490 | | 98 | | 64-125 | | | |
| 2-Methylnaphthalene | 10K0156 | | 0.0500 | mg/L | 0.000627 | 0.0100 | 0.0449 | | 90 | | 0-200 | | | |
| Isophorone | 10K0156 | | 0.0500 | mg/L | 0.000568 | 0.0100 | 0.0558 | | 112 | | 62-120 | | | |
| 2-Methylphenol (o-Cresol) | 10K0156 | | 0.0500 | mg/L | 0.000503 | 0.0100 | 0.0459 | | 92 | | 57-120 | | | |
| 3&4-Methylphenol (m&p Cresol) | 10K0156 | | 0.0500 | mg/L | 0.000899 | 0.0100 | 0.0484 | | 97 | | 57-120 | | | |
| Naphthalene | 10K0156 | | 0.0500 | mg/L | 0.000281 | 0.0100 | 0.0462 | | 92 | | 58-120 | | | |
| Nitrobenzene | 10K0156 | | 0.0500 | mg/L | 0.000619 | 0.00500 | 0.0542 | | 108 | | 63-120 | | | |
| 2-Nitrophenol | 10K0156 | | 0.0500 | mg/L | 0.000439 | 0.0100 | 0.0471 | | 94 | | 49-122 | | | |
| N-Nitrosodi-n-propylamine | 10K0156 | | 0.0500 | mg/L | 0.000947 | 0.0100 | 0.0545 | | 109 | | 63-125 | | | |
| Pentachlorophenol | 10K0156 | | 0.0500 | mg/L | 0.00137 | 0.0100 | 0.0602 | | 120 | | 54-120 | | | |
| Phenanthrene | 10K0156 | | 0.0500 | mg/L | 0.000427 | 0.0100 | 0.0498 | | 100 | | 65-124 | | | |
| Phenol | 10K0156 | | 0.0500 | mg/L | 0.000683 | 0.0100 | 0.0488 | | 98 | | 53-120 | | | |
| Pyrene | 10K0156 | | 0.0500 | mg/L | 0.000980 | 0.0100 | 0.0464 | | 93 | | 65-128 | | | |
| 1,2,4-Trichlorobenzene | 10K0156 | | 0.0500 | mg/L | 0.000463 | 0.0100 | 0.0474 | | 95 | | 55-120 | | | |
| 2,4,5-Trichlorophenol | 10K0156 | | 0.0500 | mg/L | 0.000421 | 0.0100 | 0.0527 | | 105 | | 58-120 | | | |
| 2,4,6-Trichlorophenol | 10K0156 | | 0.0500 | mg/L | 0.000445 | 0.0100 | 0.0529 | | 106 | | 60-121 | | | |
| *Surrogate: 2-Fluorophenol* | *10K0156* | | | mg/L | | | | | *83* | | *21-145* | | | |
| *Surrogate: Phenol-d6* | *10K0156* | | | mg/L | | | | | *131* | | *10-149* | | | |
| *Surrogate: Nitrobenzene-d5* | *10K0156* | | | mg/L | | | | | *104* | | *35-124* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *10K0156* | | | mg/L | | | | | *99* | | *43-134* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *10K0156* | | | mg/L | | | | | *81* | | *21-146* | | | |
| *Surrogate: Terphenyl-d14* | *10K0156* | | | mg/L | | | | | *90* | | *34-149* | | | |
| Acenaphthene | 10K0175 | | 2.94 | mg/kg wet | 0.0285 | 0.660 | 2.38 | | 81 | | 30-150 | | | |
| Acenaphthylene | 10K0175 | | 2.94 | mg/kg wet | 0.0346 | 0.660 | 2.42 | | 82 | | 35-150 | | | |
| Anthracene | 10K0175 | | 2.94 | mg/kg wet | 0.0253 | 0.660 | 2.57 | | 87 | | 40-150 | | | |
| Benzo (a) anthracene | 10K0175 | | 2.94 | mg/kg wet | 0.0311 | 0.660 | 2.59 | | 88 | | 40-150 | | | |
| Benzo (b) fluoranthene | 10K0175 | | 2.94 | mg/kg wet | 0.0392 | 0.660 | 2.39 | | 81 | | 30-150 | | | |
| Benzo (g,h,i) perylene | 10K0175 | | 2.94 | mg/kg wet | 0.0324 | 0.660 | 2.46 | | 83 | | 25-150 | | | |

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## LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| Benzo (k) fluoranthene | 10K0175 | | 2.94 | mg/kg wet | 0.0341 | 0.660 | 2.55 | | 87 | | 35-150 | | | |
| Benzo (a) pyrene | 10K0175 | | 2.94 | mg/kg wet | 0.0314 | 0.330 | 2.56 | | 87 | | 35-150 | | | |
| Benzyl alcohol | 10K0175 | | 2.94 | mg/kg wet | 0.0924 | 0.660 | 2.32 | | 79 | | 20-150 | | | |
| Bis(2-chloroethoxy)methane | 10K0175 | | 2.94 | mg/kg wet | 0.0778 | 0.660 | 2.27 | | 77 | | 30-150 | | | |
| Bis(2-chloroethyl)ether | 10K0175 | | 2.94 | mg/kg wet | 0.0791 | 0.660 | 2.32 | | 79 | | 20-150 | | | |
| Bis(2-chloroisopropyl) ether | 10K0175 | | 2.94 | mg/kg wet | 0.0724 | 0.660 | 2.27 | | 77 | | 15-150 | | | |
| Bis(2-ethylhexyl)phthalate | 10K0175 | | 2.94 | mg/kg wet | 0.123 | 0.660 | 2.25 | | 76 | | 25-150 | | | |
| 4-Bromophenyl phenyl ether | 10K0175 | | 2.94 | mg/kg wet | 0.0526 | 0.660 | 2.41 | | 82 | | 35-150 | | | |
| Butyl benzyl phthalate | 10K0175 | | 2.94 | mg/kg wet | 0.0884 | 0.660 | 2.25 | | 76 | | 30-150 | | | |
| 4-Chloroaniline | 10K0175 | | 2.94 | mg/kg wet | 0.0504 | 0.660 | 2.34 | | 80 | | 15-150 | | | |
| 4-Chloro-3-methylphenol | 10K0175 | | 2.94 | mg/kg wet | 0.0835 | 0.660 | 2.30 | | 78 | | 30-150 | | | |
| 2-Chloronaphthalene | 10K0175 | | 2.94 | mg/kg wet | 0.0671 | 0.660 | 2.30 | | 78 | | 30-150 | | | |
| 2-Chlorophenol | 10K0175 | | 2.94 | mg/kg wet | 0.0674 | 0.660 | 2.19 | | 74 | | 20-150 | | | |
| Chrysene | 10K0175 | | 2.94 | mg/kg wet | 0.0285 | 0.660 | 2.57 | | 87 | | 30-150 | | | |
| Dibenzofuran | 10K0175 | | 2.94 | mg/kg wet | 0.0566 | 0.660 | 2.38 | | 81 | | 35-150 | | | |
| 1,2-Dichlorobenzene | 10K0175 | | 2.94 | mg/kg wet | 0.0653 | 0.660 | 2.19 | | 74 | | 20-150 | | | |
| 1,3-Dichlorobenzene | 10K0175 | | 2.94 | mg/kg wet | 0.0651 | 0.660 | 2.32 | | 79 | | 20-145 | | | |
| 1,4-Dichlorobenzene | 10K0175 | | 2.94 | mg/kg wet | 0.0626 | 0.660 | 2.25 | | 76 | | 25-145 | | | |
| Dibenz (a,h) anthracene | 10K0175 | | 2.94 | mg/kg wet | 0.0358 | 0.330 | 2.42 | | 82 | | 25-150 | | | |
| 2,4-Dichlorophenol | 10K0175 | | 2.94 | mg/kg wet | 0.0654 | 0.660 | 2.34 | | 80 | | 30-150 | | | |
| Diethyl phthalate | 10K0175 | | 2.94 | mg/kg wet | 0.0632 | 0.660 | 2.44 | | 83 | | 35-150 | | | |
| 2,4-Dimethylphenol | 10K0175 | | 2.94 | mg/kg wet | 0.0681 | 0.660 | 2.34 | | 80 | | 25-145 | | | |
| Dimethyl phthalate | 10K0175 | | 2.94 | mg/kg wet | 0.0624 | 0.660 | 2.34 | | 79 | | 40-150 | | | |
| 4,6-Dinitro-2-methylphenol | 10K0175 | | 2.94 | mg/kg wet | 0.0636 | 0.660 | 1.97 | | 67 | | 10-150 | | | |
| 2,4-Dinitrotoluene | 10K0175 | | 2.94 | mg/kg wet | 0.0656 | 0.660 | 2.16 | | 73 | | 35-150 | | | |
| 2,6-Dinitrotoluene | 10K0175 | | 2.94 | mg/kg wet | 0.0586 | 0.660 | 2.27 | | 77 | | 35-150 | | | |
| Di-n-octyl phthalate | 10K0175 | | 2.94 | mg/kg wet | 0.111 | 0.660 | 2.32 | | 79 | | 35-150 | | | |
| Fluoranthene | 10K0175 | | 2.94 | mg/kg wet | 0.0308 | 0.660 | 2.60 | | 88 | | 35-150 | | | |
| Fluorene | 10K0175 | | 2.94 | mg/kg wet | 0.0320 | 0.660 | 2.47 | | 84 | | 35-150 | | | |
| Hexachlorobenzene | 10K0175 | | 2.94 | mg/kg wet | 0.0516 | 0.660 | 2.35 | | 80 | | 30-150 | | | |
| Hexachlorocyclopentadiene | 10K0175 | | 2.94 | mg/kg wet | 0.227 | 1.32 | 1.94 | | 66 | | 20-130 | | | |
| Hexachloroethane | 10K0175 | | 2.94 | mg/kg wet | 0.0693 | 0.660 | 2.27 | | 77 | | 15-150 | | | |
| Indeno (1,2,3-cd) pyrene | 10K0175 | | 2.94 | mg/kg wet | 0.0334 | 0.660 | 2.41 | | 82 | | 25-150 | | | |
| Isophorone | 10K0175 | | 2.94 | mg/kg wet | 0.0751 | 0.660 | 2.34 | | 80 | | 25-150 | | | |
| 2-Methylnaphthalene | 10K0175 | | 2.94 | mg/kg wet | 0.113 | 0.660 | 2.40 | | 82 | | 30-150 | | | |
| 2-Methylphenol (o-Cresol) | 10K0175 | | 2.94 | mg/kg wet | 0.0638 | 0.660 | 2.29 | | 78 | | 20-150 | | | |
| 3&4-Methylphenol (m&p Cresol) | 10K0175 | | 2.94 | mg/kg wet | 0.0672 | 0.660 | 2.39 | | 81 | | 25-150 | | | |
| Naphthalene | 10K0175 | | 2.94 | mg/kg wet | 0.0283 | 0.660 | 2.47 | | 84 | | 30-150 | | | |
| Nitrobenzene | 10K0175 | | 2.94 | mg/kg wet | 0.0813 | 0.660 | 2.39 | | 81 | | 25-150 | | | |
| 2-Nitrophenol | 10K0175 | | 2.94 | mg/kg wet | 0.0666 | 0.660 | 2.29 | | 78 | | 25-150 | | | |
| N-Nitrosodi-n-propylamine | 10K0175 | | 2.94 | mg/kg wet | 0.0762 | 0.660 | 2.34 | | 80 | | 20-150 | | | |
| Pentachlorophenol | 10K0175 | | 2.94 | mg/kg wet | 0.0637 | 0.660 | 2.02 | | 69 | | 15-145 | | | |
| Phenanthrene | 10K0175 | | 2.94 | mg/kg wet | 0.0260 | 0.660 | 2.49 | | 85 | | 40-150 | | | |
| Phenol | 10K0175 | | 2.94 | mg/kg wet | 0.0604 | 0.660 | 2.25 | | 76 | | 20-150 | | | |
| Pyrene | 10K0175 | | 2.94 | mg/kg wet | 0.0341 | 0.660 | 2.56 | | 87 | | 35-150 | | | |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 10K0175 | | 2.94 | mg/kg wet | 0.0690 | 0.660 | 2.48 | | 84 | | 30-150 | | | |
| 2,4,5-Trichlorophenol | 10K0175 | | 2.94 | mg/kg wet | 0.0741 | 0.660 | 2.26 | | 77 | | 25-150 | | | |
| 2,4,6-Trichlorophenol | 10K0175 | | 2.94 | mg/kg wet | 0.0689 | 0.660 | 2.19 | | 74 | | 25-150 | | | |
| *Surrogate: 2-Fluorophenol* | *10K0175* | | | mg/kg wet | | | | | *69* | | *20-135* | | | |
| *Surrogate: Phenol-d6* | *10K0175* | | | mg/kg wet | | | | | *112* | | *20-150* | | | |
| *Surrogate: Nitrobenzene-d5* | *10K0175* | | | mg/kg wet | | | | | *85* | | *30-135* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *10K0175* | | | mg/kg wet | | | | | *82* | | *40-135* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *10K0175* | | | mg/kg wet | | | | | *79* | | *25-145* | | | |
| *Surrogate: Terphenyl-d14* | *10K0175* | | | mg/kg wet | | | | | *85* | | *40-150* | | | |
| **TCLP Metals by 1311/6000/7000** | | | | | | | | | | | | | | |
| Arsenic | 10K0247 | | 5.00 | mg/L | 0.0356 | 0.500 | 5.36 | | 107 | | 80-120 | | | |
| Barium | 10K0247 | | 5.00 | mg/L | 0.00850 | 0.100 | 5.56 | | 111 | | 80-120 | | | |
| Cadmium | 10K0247 | | 5.00 | mg/L | 0.00348 | 0.150 | 5.40 | | 108 | | 80-120 | | | |
| Chromium | 10K0247 | | 5.00 | mg/L | 0.00781 | 0.200 | 5.18 | | 104 | | 80-120 | | | |
| Lead | 10K0247 | | 5.00 | mg/L | 0.0221 | 0.400 | 5.21 | | 104 | | 80-120 | | | |
| Selenium | 10K0247 | | 5.00 | mg/L | 0.0740 | 0.500 | 5.43 | | 109 | | 80-120 | | | |
| Silver | 10K0247 | | 5.00 | mg/L | 0.00703 | 0.200 | 5.18 | | 104 | | 80-120 | | | |
| Arsenic | 10K0261 | | 1.00 | mg/L | 0.00713 | 0.100 | 0.951 | | 95 | | 80-120 | | | |
| Barium | 10K0261 | | 1.00 | mg/L | 0.00170 | 0.0200 | 1.00 | | 100 | | 80-120 | | | |
| Cadmium | 10K0261 | | 1.00 | mg/L | 0.000697 | 0.0300 | 0.945 | | 95 | | 80-120 | | | |
| Chromium | 10K0261 | | 1.00 | mg/L | 0.00156 | 0.0400 | 0.952 | | 95 | | 80-120 | | | |
| Lead | 10K0261 | | 1.00 | mg/L | 0.00441 | 0.0800 | 0.927 | | 93 | | 80-120 | | | |
| Selenium | 10K0261 | | 1.00 | mg/L | 0.0148 | 0.100 | 0.949 | | 95 | | 80-120 | | | |
| Silver | 10K0261 | | 1.00 | mg/L | 0.00141 | 0.0400 | 0.979 | | 98 | | 80-120 | | | |
| Mercury | 10K0308 | | 0.00100 | mg/L | .0000068( | 0.000200 | 0.000886 | | 89 | | 80-120 | | | |
| **General Chemistry** | | | | | | | | | | | | | | |
| Reactive Cyanide | 10K0254 | | 10 | mg/L | N/A | 0.010 | 3.21 | | 32 | | 5-130 | | | |
| **305.1_0314314x** | | | | | | | | | | | | | | |
| Acidity | 314314 | | | % | 0.00079 | 0.005 | 0.025 | | 101 | | 80-133 | | | |
| **9030B/9034_0312370x** | | | | | | | | | | | | | | |
| Acid-soluble sulfide | 312370 | | | mg/kg | N/A | 30 | 97.9 | | 103 | | 70-130 | | | |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0153-06** | | | | | | | | | | | | | | |
| Cyanide, Total | 10K0147 | <0.1905123 | 2.91 | mg/kg dry | 0.190 | 0.291 | 0.463 | 0.273 | 16 | 9 | 75-123 | 51 | 25 | M14,J |
| **QC Source Sample: DTK0095-03** | | | | | | | | | | | | | | |
| Sulfide | 10K0182 | <0.0215 | 0.500 | mg/L | 0.0215 | 0.100 | 0.463 | | 93 | | 75-125 | | | |
| **QC Source Sample: DTK0105-01** | | | | | | | | | | | | | | |
| Sulfide | 10K0182 | 0.0303 | 0.500 | mg/L | 0.0215 | 0.100 | 0.531 | | 100 | | 75-125 | | | |
| **QC Source Sample: DTK0175-03** | | | | | | | | | | | | | | |
| Chromium, hexavalent | 10K0192 | <0.00295 | 0.100 | mg/L | 0.00295 | 0.0100 | 0.0934 | | 93 | | 81-107 | | | |
| **QC Source Sample: DTK0124-01** | | | | | | | | | | | | | | |
| Cyanide, Total | 10K0221 | <0.00247 | 0.100 | mg/L | 0.00247 | 0.00500 | 0.0973 | | 97 | | 75-125 | | | |
| **QC Source Sample: DTK0136-01** | | | | | | | | | | | | | | |
| Cyanide, Total | 10K0221 | <0.00247 | 0.100 | mg/L | 0.00247 | 0.00500 | 0.0851 | | 85 | | 75-125 | | | |
| **QC Source Sample: DTK0190-01** | | | | | | | | | | | | | | |
| Chromium, hexavalent | 10K0224 | 9.85 | 47.1 | mg/kg dry | 1.70 | 29.5 | 37.1 | | 58 | | 75-125 | | | M2 |
| **QC Source Sample: DTK0190-01** | | | | | | | | | | | | | | |
| Chromium, hexavalent | 10K0224 | 9.85 | 47.2 | mg/kg dry | 1.70 | 29.5 | 32.8 | | 49 | | 75-125 | | | M2 |
| **Total Metals** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0020-01** | | | | | | | | | | | | | | |
| Mercury | 10K0206 | <0.0000068 | 0.00500 | mg/L | 0.0000340 | 0.00100 | 0.00478 | | 96 | | 75-125 | | | |
| **QC Source Sample: DTK0153-01** | | | | | | | | | | | | | | |
| Arsenic | 10K0227 | <0.288 | 0.250 | mg/L | 0.288 | 0.800 | <0.288 | <0.288 | | | 75-125 | | 20 | M4 |
| Barium | 10K0227 | 0.0564 | 0.250 | mg/L | 0.0144 | 0.400 | 0.293 | 0.293 | 95 | 95 | 75-125 | 0 | 20 | J |
| Cadmium | 10K0227 | <0.0172 | 0.250 | mg/L | 0.0172 | 0.0800 | 0.234 | 0.228 | 93 | 91 | 75-125 | 2 | 20 | |
| Chromium | 10K0227 | 1.00 | 0.250 | mg/L | 0.0960 | 0.400 | 1.34 | 1.51 | 133 | 204 | 75-125 | 12 | 20 | M |
| Lead | 10K0227 | 28.5 | 0.250 | mg/L | 0.0268 | 0.0800 | 29.5 | 29.5 | 412 | 419 | 75-125 | 0 | 20 | M |
| Nickel | 10K0227 | 16300 | 0.250 | mg/L | 2.40 | 100 | 16800 | 16900 | 216000 | 261000 | 75-125 | 1 | 20 | M |
| Selenium | 10K0227 | <0.276 | 0.250 | mg/L | 0.276 | 0.800 | <0.276 | <0.276 | | | 75-125 | | 20 | M4 |
| Silver | 10K0227 | <0.0064 | 0.250 | mg/L | 0.00640 | 0.0400 | 0.236 | 0.242 | 95 | 97 | 75-125 | 2 | 20 | |
| **QC Source Sample: DTK0153-06** | | | | | | | | | | | | | | |
| Arsenic | 10K0229 | <2.284309 | 57.7 | mg/kg dry | 2.33 | 11.5 | 50.2 | 47.6 | 87 | 83 | 75-125 | 5 | 20 | |
| Barium | 10K0229 | 3.05 | 57.7 | mg/kg dry | 2.56 | 5.77 | 48.9 | 49.0 | 80 | 80 | 75-125 | 0 | 20 | |
| Cadmium | 10K0229 | <0.2988393 | 57.7 | mg/kg dry | 0.305 | 1.15 | 51.4 | 50.1 | 89 | 88 | 75-125 | 3 | 20 | |
| Chromium | 10K0229 | 152 | 57.7 | mg/kg dry | 2.68 | 11.5 | 134 | 164 | -31 | 21 | 75-125 | 20 | 20 | M |
| Lead | 10K0229 | 6.14 | 57.7 | mg/kg dry | 0.284 | 1.15 | 52.6 | 52.2 | 81 | 81 | 75-125 | 1 | 20 | |
| Nickel | 10K0229 | 1780 | 57.7 | mg/kg dry | 0.319 | 5.77 | 1040 | 1410 | -1300 | -653 | 75-125 | 31 | 20 | M |
| Selenium | 10K0229 | <0.8636908 | 57.7 | mg/kg dry | 0.881 | 11.5 | 45.0 | 43.2 | 78 | 76 | 75-125 | 4 | 20 | |
| Silver | 10K0229 | <0.1743229 | 57.7 | mg/kg dry | 0.178 | 0.577 | 48.7 | 47.1 | 84 | 82 | 75-125 | 3 | 20 | |
| **QC Source Sample: DTK0268-01** | | | | | | | | | | | | | | |
| Silver | 10K0337 | 0.000272 | 0.250 | mg/L | 0.000400 | 0.00250 | 0.245 | 0.244 | 98 | 97 | 75-125 | 0 | 20 | |
| **QC Source Sample: DTJ0663-01** | | | | | | | | | | | | | | |
| Mercury | 10K0388 | 0.00847 | 0.0824 | mg/kg dry | 0.000198 | 0.00823 | 0.107 | 0.121 | 119 | 123 | 75-125 | 12 | 20 | |
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0135-01** | | | | | | | | | | | | | | |
| Benzene | 10K0320 | <0.3216723 | 4.95 | mg/kg dry | 0.326 | 1.24 | 5.79 | 5.42 | 117 | 114 | 73-120 | 7 | 30 | |
| Bromodichloromethane (Dichlorobromomethane) | 10K0320 | <0.3707658 | 4.95 | mg/kg dry | 0.376 | 1.24 | 5.81 | 5.40 | 117 | 114 | 72-120 | 7 | 30 | |
| Bromoform | 10K0320 | <0.3829781 | 4.95 | mg/kg dry | 0.388 | 1.24 | 4.79 | 4.44 | 97 | 93 | 61-120 | 8 | 30 | |
| Bromomethane (Methyl bromide) | 10K0320 | <0.3158104 | | mg/kg dry | 0.320 | 2.48 | <0.320 | <0.320 | | | 52-123 | | 30 | |
| Carbon tetrachloride | 10K0320 | <0.3387696 | 4.95 | mg/kg dry | 0.343 | 1.24 | 6.00 | 5.78 | 121 | 122 | 64-122 | 4 | 30 | |

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0135-01** | | | | | | | | | | | | | | |
| Chlorobenzene | 10K0320 | <0.3189856 | 4.95 | mg/kg dry | 0.323 | 1.24 | 5.83 | 5.43 | 118 | 114 | 67-121 | 7 | 30 | |
| Chloroethane | 10K0320 | <0.3436545 | | mg/kg dry | 0.348 | 2.48 | <0.348 | <0.348 | | | 53-129 | | 30 | |
| Chloroform | 10K0320 | <0.2894318 | 4.95 | mg/kg dry | 0.293 | 1.24 | 5.74 | 5.46 | 116 | 115 | 68-122 | 5 | 30 | |
| Chloromethane (Methyl chloride) | 10K0320 | <0.311414 | | mg/kg dry | 0.316 | 2.48 | <0.316 | <0.316 | | | 40-139 | | 30 | |
| Dibromochloromethane (Chlorodibromomethane) | 10K0320 | <0.3631942 | 4.95 | mg/kg dry | 0.368 | 1.24 | 5.35 | 4.78 | 108 | 100 | 54-152 | 11 | 30 | |
| 1,2-Dichlorobenzene | 10K0320 | <0.4665104 | 4.95 | mg/kg dry | 0.473 | 1.24 | 5.80 | 5.43 | 117 | 114 | 74-120 | 7 | 30 | |
| 1,4-Dichlorobenzene | 10K0320 | <0.3092158 | 4.95 | mg/kg dry | 0.313 | 1.24 | 5.85 | 5.44 | 118 | 114 | 71-120 | 7 | 30 | |
| 1,3-Dichlorobenzene | 10K0320 | <0.4630909 | 4.95 | mg/kg dry | 0.469 | 1.24 | 5.88 | 5.48 | 119 | 115 | 72-120 | 7 | 30 | |
| 1,1-Dichloroethane | 10K0320 | <0.2664727 | 4.95 | mg/kg dry | 0.270 | 1.24 | 5.28 | 5.04 | 107 | 106 | 63-125 | 5 | 30 | |
| 1,2-Dichloroethane | 10K0320 | <0.3407235 | 4.95 | mg/kg dry | 0.345 | 1.24 | 5.57 | 5.33 | 112 | 112 | 70-120 | 4 | 30 | |
| trans-1,2-Dichloroethene | 10K0320 | <0.328267 | 4.95 | mg/kg dry | 0.333 | 1.24 | 4.98 | 4.93 | 101 | 104 | 70-120 | 1 | 30 | |
| 1,1-Dichloroethene | 10K0320 | <0.3776047 | 4.95 | mg/kg dry | 0.383 | 1.24 | 4.57 | 4.51 | 92 | 95 | 57-130 | 1 | 30 | |
| 1,2-Dichloropropane | 10K0320 | <0.3294882 | 4.95 | mg/kg dry | 0.334 | 1.24 | 5.78 | 5.49 | 117 | 115 | 68-120 | 5 | 30 | |
| cis-1,3-Dichloropropene | 10K0320 | <0.3204511 | 4.95 | mg/kg dry | 0.325 | 1.24 | 5.61 | 5.29 | 113 | 111 | 70-121 | 6 | 30 | |
| trans-1,3-Dichloropropene | 10K0320 | <0.3346174 | 4.95 | mg/kg dry | 0.339 | 1.24 | 5.82 | 5.16 | 117 | 108 | 64-120 | 12 | 30 | |
| Ethylbenzene | 10K0320 | 0.777 | 4.95 | mg/kg dry | 0.340 | 1.24 | 6.86 | 6.40 | 123 | 118 | 69-123 | 7 | 30 | |
| Methylene chloride | 10K0320 | <1.206577 | 4.95 | mg/kg dry | 1.22 | 2.48 | 4.82 | 4.67 | 97 | 98 | 46-124 | 3 | 30 | |
| 1,1,2,2-Tetrachloroethane | 10K0320 | <0.3934807 | 4.95 | mg/kg dry | 0.399 | 1.24 | 5.47 | 5.20 | 110 | 109 | 69-120 | 5 | 30 | |
| Tetrachloroethene | 10K0320 | <0.3519589 | 4.95 | mg/kg dry | 0.357 | 1.24 | 5.27 | 4.87 | 106 | 102 | 58-133 | 8 | 30 | |
| Toluene | 10K0320 | 107 | 4.95 | mg/kg dry | 0.335 | 1.24 | 114 | 122 | 123 | 304 | 63-126 | 7 | 30 | M |
| 1,1,1-Trichloroethane | 10K0320 | <0.3343731 | 4.95 | mg/kg dry | 0.339 | 1.24 | 5.99 | 5.72 | 121 | 120 | 63-125 | 4 | 30 | |
| 1,1,2-Trichloroethane | 10K0320 | <0.3592862 | 4.95 | mg/kg dry | 0.364 | 1.24 | 5.75 | 5.15 | 116 | 108 | 71-120 | 11 | 30 | |
| Trichloroethene | 10K0320 | <0.3150777 | 4.95 | mg/kg dry | 0.319 | 1.24 | 6.01 | 5.65 | 121 | 119 | 71-120 | 6 | 30 | M |
| Trichlorofluoromethane | 10K0320 | <0.3492721 | | mg/kg dry | 0.354 | 1.24 | <0.354 | <0.354 | | | 60-128 | | 30 | |
| Vinyl chloride | 10K0320 | <0.3724755 | | mg/kg dry | 0.378 | 0.495 | <0.378 | <0.378 | | | 40-140 | | 30 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *10K0320* | | | mg/kg dry | | | | | *100* | *103* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *10K0320* | | | mg/kg dry | | | | | *99* | *102* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *10K0320* | | | mg/kg dry | | | | | *100* | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *10K0320* | | | mg/kg dry | | | | | *98* | *98* | *80-120* | | | |
| **QC Source Sample: DTK0069-01** | | | | | | | | | | | | | | |
| Benzene | 10K0324 | <0.00228 | 0.100 | mg/L | 0.00228 | 0.00500 | 0.110 | 0.0212 | 110 | 21 | 79-120 | 135 | 25 | A-01b,M |
| Bromodichloromethane (Dichlorobromomethane) | 10K0324 | <0.00201 | 0.100 | mg/L | 0.00201 | 0.00500 | 0.111 | 0.0186 | 111 | 19 | 76-121 | 143 | 25 | A-01b,M |
| Bromoform | 10K0324 | <0.002055 | 0.100 | mg/L | 0.00206 | 0.00500 | 0.107 | 0.0324 | 107 | 32 | 69-120 | 107 | 25 | A-01b,M |
| Bromomethane (Methyl bromide) | 10K0324 | <0.003225 | 0.100 | mg/L | 0.00322 | 0.0250 | 0.105 | 0.0300 | 105 | 30 | 64-120 | 111 | 25 | A-01b,M |
| Carbon tetrachloride | 10K0324 | <0.002195 | 0.100 | mg/L | 0.00220 | 0.00500 | 0.110 | 0.0175 | 110 | 18 | 70-129 | 145 | 25 | A-01b,M |
| Chlorobenzene | 10K0324 | <0.00225 | 0.100 | mg/L | 0.00225 | 0.00500 | 0.113 | 0.0200 | 113 | 20 | 78-120 | 140 | 25 | A-01b,M |
| Chloroethane | 10K0324 | <0.00223 | 0.100 | mg/L | 0.00223 | 0.0250 | 1.88 | 3.58 | 1880 | 3580 | 67-120 | 63 | 25 | A-01b,M |
| Chloroform | 10K0324 | <0.002405 | 0.100 | mg/L | 0.00240 | 0.00500 | 0.103 | 0.0194 | 103 | 19 | 77-120 | 136 | 25 | A-01b,M |
| Chloromethane (Methyl chloride) | 10K0324 | <0.00245 | 0.100 | mg/L | 0.00245 | 0.0250 | 0.109 | 0.280 | 109 | 280 | 58-120 | 88 | 25 | A-01b,M |
| Dibromochloromethane (Chlorodibromomethane) | 10K0324 | <0.002285 | 0.100 | mg/L | 0.00228 | 0.00500 | 0.121 | 0.0190 | 121 | 19 | 76-123 | 146 | 25 | A-01b,M |
| 1,2-Dichlorobenzene | 10K0324 | <0.002515 | 0.100 | mg/L | 0.00252 | 0.00500 | 0.121 | 0.0196 | 121 | 20 | 78-123 | 144 | 25 | A-01b,M |
| 1,4-Dichlorobenzene | 10K0324 | <0.002175 | 0.100 | mg/L | 0.00218 | 0.00500 | 0.118 | 0.0196 | 118 | 20 | 74-120 | 143 | 25 | A-01b,M |
| 1,3-Dichlorobenzene | 10K0324 | <0.00212 | 0.100 | mg/L | 0.00212 | 0.00500 | 0.119 | 0.0194 | 119 | 19 | 76-121 | 144 | 25 | A-01b,M |
| 1,1-Dichloroethane | 10K0324 | <0.00234 | 0.100 | mg/L | 0.00234 | 0.00500 | 0.101 | 0.0194 | 101 | 19 | 79-120 | 136 | 25 | A-01b,M |
| 1,2-Dichloroethane | 10K0324 | <0.00267 | 0.100 | mg/L | 0.00267 | 0.00500 | 0.106 | 0.0207 | 106 | 21 | 75-120 | 135 | 25 | A-01b,M |

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Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GC/MS** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0069-01** | | | | | | | | | | | | | | |
| trans-1,2-Dichloroethene | 10K0324 | <0.002245 | 0.100 | mg/L | 0.00224 | 0.00500 | 0.101 | 0.0208 | 101 | 21 | 79-120 | 132 | 25 | A-01b,M |
| 1,1-Dichloroethene | 10K0324 | <0.002255 | 0.100 | mg/L | 0.00226 | 0.00500 | 0.0951 | 0.0188 | 95 | 19 | 71-121 | 134 | 25 | A-01b,M |
| 1,2-Dichloropropane | 10K0324 | <0.002335 | 0.100 | mg/L | 0.00234 | 0.00500 | 0.110 | 0.0198 | 110 | 20 | 80-120 | 139 | 25 | A-01b,M |
| cis-1,3-Dichloropropene | 10K0324 | <0.002335 | 0.100 | mg/L | 0.00234 | 0.00500 | 0.106 | 0.0176 | 106 | 18 | 80-120 | 143 | 25 | A-01b,M |
| trans-1,3-Dichloropropene | 10K0324 | <0.00319 | 0.100 | mg/L | 0.00319 | 0.00500 | 0.112 | 0.0190 | 112 | 19 | 74-120 | 142 | 25 | A-01b,M |
| Ethylbenzene | 10K0324 | <0.002095 | 0.100 | mg/L | 0.00210 | 0.00500 | 0.116 | 0.0183 | 116 | 18 | 79-120 | 146 | 25 | A-01b,M |
| n-Hexane | 10K0324 | <0.0078 | 0.100 | mg/L | 0.00780 | 0.0250 | 0.0841 | 0.0178 | 84 | 18 | 57-180 | 130 | 25 | A-01b,M,J |
| Methylene chloride | 10K0324 | 0.00440 | 0.100 | mg/L | 0.00264 | 0.0250 | 0.144 | 0.0785 | 139 | 74 | 76-120 | 59 | 25 | A-01b,M |
| 1,1,2,2-Tetrachloroethane | 10K0324 | <0.004765 | 0.100 | mg/L | 0.00476 | 0.00500 | 0.123 | 0.0179 | 123 | 18 | 74-120 | 149 | 25 | A-01b,M |
| Tetrachloroethene | 10K0324 | <0.00225 | 0.100 | mg/L | 0.00225 | 0.00500 | 0.0990 | 0.0171 | 99 | 17 | 62-128 | 141 | 25 | A-01b,M |
| Toluene | 10K0324 | 0.00285 | 0.100 | mg/L | 0.00261 | 0.00500 | 0.123 | 0.0236 | 120 | 21 | 79-120 | 135 | 25 | A-01b,M |
| 1,1,1-Trichloroethane | 10K0324 | <0.00213 | 0.100 | mg/L | 0.00213 | 0.00500 | 0.115 | 0.0188 | 115 | 19 | 74-121 | 144 | 25 | A-01b,M |
| 1,1,2-Trichloroethane | 10K0324 | <0.003215 | 0.100 | mg/L | 0.00322 | 0.00500 | 0.117 | 0.0202 | 117 | 20 | 75-120 | 141 | 25 | A-01b,M |
| Trichloroethene | 10K0324 | <0.002265 | 0.100 | mg/L | 0.00226 | 0.00500 | 0.108 | 0.0198 | 108 | 20 | 77-120 | 138 | 25 | A-01b,M |
| Trichlorofluoromethane | 10K0324 | <0.00242 | 0.100 | mg/L | 0.00242 | 0.00500 | 0.104 | 0.0186 | 104 | 19 | 71-136 | 139 | 25 | A-01b,M |
| Vinyl chloride | 10K0324 | <0.0027 | 0.100 | mg/L | 0.00270 | 0.00500 | 0.0964 | 0.0228 | 96 | 23 | 65-126 | 123 | 25 | A-01b,M |
| *Surrogate: 1,2-Dichloroethane-d4* | *10K0324* | | | mg/L | | | | | *98* | *93* | *80-120* | | | A-01b |
| *Surrogate: Dibromofluoromethane* | *10K0324* | | | mg/L | | | | | *96* | *93* | *80-120* | | | A-01b |
| *Surrogate: Toluene-d8* | *10K0324* | | | mg/L | | | | | *101* | *101* | *80-120* | | | A-01b |
| *Surrogate: 4-Bromofluorobenzene* | *10K0324* | | | mg/L | | | | | *99* | *99* | *80-120* | | | A-01b |
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0153-06** | | | | | | | | | | | | | | |
| Acenaphthene | 10K0175 | <0.164443 | 3.39 | mg/kg dry | 0.165 | 3.81 | 1.53 | 2.56 | 45 | 75 | 30-150 | 50 | 50 | M,J |
| Acenaphthylene | 10K0175 | <0.1993598 | 3.39 | mg/kg dry | 0.200 | 3.81 | 1.41 | 2.46 | 41 | 72 | 35-150 | 54 | 50 | M,J |
| Anthracene | 10K0175 | <0.1456594 | 3.39 | mg/kg dry | 0.146 | 3.81 | 1.42 | 2.40 | 42 | 70 | 40-150 | 51 | 50 | M,J |
| Benzo (a) anthracene | 10K0175 | <0.1793086 | 3.39 | mg/kg dry | 0.180 | 3.81 | 1.46 | 2.44 | 43 | 72 | 40-150 | 50 | 50 | M,J |
| Benzo (b) fluoranthene | 10K0175 | <0.2259795 | 3.39 | mg/kg dry | 0.226 | 3.81 | 1.75 | 2.57 | 52 | 76 | 30-150 | 38 | 50 | M,J |
| Benzo (g,h,i) perylene | 10K0175 | <0.1866837 | 3.39 | mg/kg dry | 0.187 | 3.81 | 1.16 | 1.95 | 34 | 57 | 25-150 | 51 | 50 | M,J |
| Benzo (k) fluoranthene | 10K0175 | <0.1963636 | 3.39 | mg/kg dry | 0.197 | 3.81 | 1.56 | 2.52 | 46 | 74 | 35-150 | 47 | 50 | M,J |
| Benzo (a) pyrene | 10K0175 | <0.1809219 | 3.39 | mg/kg dry | 0.181 | 1.90 | 1.64 | 2.85 | 48 | 84 | 35-150 | 54 | 50 | M,J |
| Benzyl alcohol | 10K0175 | 2.34 | 3.39 | mg/kg dry | 0.533 | 3.81 | 2.39 | 2.84 | 1 | 15 | 20-150 | 17 | 50 | M,J |
| Bis(2-chloroethoxy)methane | 10K0175 | <0.4483867 | 3.39 | mg/kg dry | 0.449 | 3.81 | 1.36 | 2.37 | 40 | 70 | 30-150 | 54 | 50 | M,J |
| Bis(2-chloroethyl)ether | 10K0175 | <0.4556466 | 3.39 | mg/kg dry | 0.456 | 3.81 | 1.57 | 2.52 | 46 | 74 | 20-150 | 46 | 50 | M,J |
| Bis(2-chloroisopropyl) ether | 10K0175 | <0.416927 | 3.39 | mg/kg dry | 0.417 | 3.81 | 1.54 | 2.62 | 45 | 77 | 15-150 | 52 | 50 | M,J |
| Bis(2-ethylhexyl)phthalate | 10K0175 | <0.7083611 | 3.39 | mg/kg dry | 0.709 | 3.81 | 0.855 | 0.868 | 25 | 26 | 25-150 | 2 | 50 | M,J |
| 4-Bromophenyl phenyl ether | 10K0175 | <0.303073 | 3.39 | mg/kg dry | 0.303 | 3.81 | 1.66 | 2.41 | 49 | 71 | 35-150 | 37 | 50 | M,J |
| Butyl benzyl phthalate | 10K0175 | <0.509347 | 3.39 | mg/kg dry | 0.510 | 3.81 | <0.510 | <0.510 | | | 30-150 | | 50 | M |
| 4-Chloroaniline | 10K0175 | <0.2903969 | 3.39 | mg/kg dry | 0.291 | 3.81 | 1.48 | 2.53 | 44 | 74 | 15-150 | 52 | 50 | M,J |
| 4-Chloro-3-methylphenol | 10K0175 | <0.4813444 | 3.39 | mg/kg dry | 0.482 | 3.81 | <0.482 | <0.482 | | | 30-150 | | 50 | M |
| 2-Chloronaphthalene | 10K0175 | <0.3863892 | 3.39 | mg/kg dry | 0.387 | 3.81 | 1.49 | 2.53 | 44 | 74 | 30-150 | 52 | 50 | M,J |
| 2-Chlorophenol | 10K0175 | <0.3884635 | 3.39 | mg/kg dry | 0.389 | 3.81 | <0.389 | <0.389 | | | 20-150 | | 50 | M |
| Chrysene | 10K0175 | <0.1639821 | 3.39 | mg/kg dry | 0.164 | 3.81 | 1.48 | 2.47 | 43 | 73 | 30-150 | 50 | 50 | M,J |
| Dibenzofuran | 10K0175 | <0.3261203 | 3.39 | mg/kg dry | 0.326 | 3.81 | 1.48 | 2.44 | 44 | 72 | 35-150 | 49 | 50 | M,J |
| 1,2-Dichlorobenzene | 10K0175 | <0.3762484 | 3.39 | mg/kg dry | 0.377 | 3.81 | 1.61 | 2.49 | 47 | 73 | 20-150 | 43 | 50 | M,J |
| 1,3-Dichlorobenzene | 10K0175 | <0.3748655 | 3.39 | mg/kg dry | 0.375 | 3.81 | 1.62 | 2.58 | 48 | 76 | 20-145 | 46 | 50 | M,J |

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Cincinnati, OH 45240-2788
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Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0153-06** | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 10K0175 | <0.3604609 | 3.39 | mg/kg dry | 0.361 | 3.81 | 1.68 | 2.60 | 50 | 76 | 25-145 | 43 | 50 | M,J |
| Dibenz (a,h) anthracene | 10K0175 | <0.2061588 | 3.39 | mg/kg dry | 0.206 | 1.90 | 1.19 | 2.11 | 35 | 62 | 25-150 | 55 | 50 | M,J |
| 2,4-Dichlorophenol | 10K0175 | <0.3770551 | 3.39 | mg/kg dry | 0.377 | 3.81 | <0.377 | <0.377 | | | 30-150 | | 50 | M |
| Diethyl phthalate | 10K0175 | <0.3641485 | 3.39 | mg/kg dry | 0.365 | 3.81 | <0.365 | <0.365 | | | 35-150 | | 50 | M |
| 2,4-Dimethylphenol | 10K0175 | <0.3924968 | 3.39 | mg/kg dry | 0.393 | 3.81 | <0.393 | <0.393 | | | 25-145 | | 50 | M |
| Dimethyl phthalate | 10K0175 | <0.3595391 | 3.39 | mg/kg dry | 0.360 | 3.81 | <0.360 | <0.360 | | | 40-150 | | 50 | M |
| 4,6-Dinitro-2-methylphenol | 10K0175 | <0.3662228 | 3.39 | mg/kg dry | 0.367 | 3.81 | 1.71 | 2.07 | 50 | 61 | 10-150 | 19 | 50 | M,J |
| 2,4-Dinitrotoluene | 10K0175 | <0.3777465 | 3.39 | mg/kg dry | 0.378 | 3.81 | 3.71 | 3.87 | 109 | 114 | 35-150 | 4 | 50 | M,J |
| 2,6-Dinitrotoluene | 10K0175 | <0.337644 | 3.39 | mg/kg dry | 0.338 | 3.81 | 5.23 | 5.45 | 154 | 160 | 35-150 | 4 | 50 | M |
| Di-n-octyl phthalate | 10K0175 | <0.6377209 | 3.39 | mg/kg dry | 0.638 | 3.81 | 0.916 | 0.930 | 27 | 27 | 35-150 | 1 | 50 | M,J |
| Fluoranthene | 10K0175 | <0.1774648 | 3.39 | mg/kg dry | 0.178 | 3.81 | 1.48 | 2.59 | 44 | 76 | 35-150 | 55 | 50 | M,J |
| Fluorene | 10K0175 | <0.184379 | 3.39 | mg/kg dry | 0.185 | 3.81 | <0.185 | <0.185 | | | 35-150 | | 50 | M |
| Hexachlorobenzene | 10K0175 | <0.2973111 | 3.39 | mg/kg dry | 0.298 | 3.81 | <0.298 | <0.298 | | | 30-150 | | 50 | M |
| Hexachlorocyclopentadiene | 10K0175 | <1.309898 | 3.39 | mg/kg dry | 1.31 | 7.61 | <1.31 | <1.31 | | | 20-130 | | 50 | M |
| Hexachloroethane | 10K0175 | <0.3991805 | 3.39 | mg/kg dry | 0.400 | 3.81 | <0.400 | <0.400 | | | 15-150 | | 50 | M |
| Indeno (1,2,3-cd) pyrene | 10K0175 | <0.1922151 | 3.39 | mg/kg dry | 0.192 | 3.81 | 1.12 | 1.94 | 33 | 57 | 25-15 | 54 | 50 | M,J |
| Isophorone | 10K0175 | <0.432484 | 3.39 | mg/kg dry | 0.433 | 3.81 | <0.433 | <0.433 | | | 25-150 | | 50 | M |
| 2-Methylnaphthalene | 10K0175 | <0.649936 | 3.39 | mg/kg dry | 0.651 | 3.81 | 2.44 | 4.61 | 72 | 135 | 30-150 | 62 | 50 | M,J |
| 2-Methylphenol (o-Cresol) | 10K0175 | <0.3676056 | 3.39 | mg/kg dry | 0.368 | 3.81 | 1.71 | 2.07 | 50 | 61 | 20-150 | 19 | 50 | M,J |
| 3&4-Methylphenol (m&p Cresol) | 10K0175 | <0.3871959 | 3.39 | mg/kg dry | 0.388 | 3.81 | <0.388 | <0.388 | | | 25-150 | | 50 | M |
| Naphthalene | 10K0175 | <0.1629449 | 3.39 | mg/kg dry | 0.163 | 3.81 | 1.76 | 3.46 | 52 | 102 | 30-150 | 65 | 50 | M,J |
| Nitrobenzene | 10K0175 | <0.4685531 | 3.39 | mg/kg dry | 0.469 | 3.81 | <0.469 | <0.469 | | | 25-150 | | 50 | M |
| 2-Nitrophenol | 10K0175 | <0.383854 | 3.39 | mg/kg dry | 0.384 | 3.81 | <0.384 | <0.384 | | | 25-150 | | 50 | M |
| N-Nitrosodi-n-propylamine | 10K0175 | <0.4389372 | 3.39 | mg/kg dry | 0.439 | 3.81 | 1.39 | 2.41 | 41 | 71 | 20-150 | 54 | 50 | M,J |
| Pentachlorophenol | 10K0175 | <0.3670294 | 3.39 | mg/kg dry | 0.367 | 3.81 | <0.367 | <0.367 | | | 15-145 | | 50 | M |
| Phenanthrene | 10K0175 | <0.1498079 | 3.39 | mg/kg dry | 0.150 | 3.81 | 1.52 | 2.47 | 45 | 72 | 40-150 | 48 | 50 | M,J |
| Phenol | 10K0175 | <0.3480154 | 3.39 | mg/kg dry | 0.348 | 3.81 | <0.348 | <0.348 | | | 20-150 | | 50 | M |
| Pyrene | 10K0175 | <0.1962484 | 3.39 | mg/kg dry | 0.196 | 3.81 | 1.48 | 2.46 | 43 | 72 | 35-150 | 50 | 50 | M,J |
| 1,2,4-Trichlorobenzene | 10K0175 | <0.3976824 | 3.39 | mg/kg dry | 0.398 | 3.81 | 1.66 | 2.76 | 49 | 81 | 30-150 | 50 | 50 | M,J |
| 2,4,5-Trichlorophenol | 10K0175 | <0.4267221 | 3.39 | mg/kg dry | 0.427 | 3.81 | <0.427 | <0.427 | | | 25-150 | | 50 | M |
| 2,4,6-Trichlorophenol | 10K0175 | <0.3967606 | 3.39 | mg/kg dry | 0.397 | 3.81 | <0.397 | <0.397 | | | 25-150 | | 50 | M |
| *Surrogate: 2-Fluorophenol* | *10K0175* | | | mg/kg dry | | | | | *0* | | *20-135* | | | M |
| *Surrogate: Phenol-d6* | *10K0175* | | | mg/kg dry | | | | | *1* | *1* | *20-150* | | | M |
| *Surrogate: Nitrobenzene-d5* | *10K0175* | | | mg/kg dry | | | | | | *1* | *30-135* | | | M |
| *Surrogate: 2-Fluorobiphenyl* | *10K0175* | | | mg/kg dry | | | | | *53* | *82* | *40-135* | | | M |
| *Surrogate: 2,4,6-Tribromophenol* | *10K0175* | | | mg/kg dry | | | | | *16* | *16* | *25-145* | | | M |
| *Surrogate: Terphenyl-d14* | *10K0175* | | | mg/kg dry | | | | | *51* | *77* | *40-150* | | | M |
| **TCLP Metals by 1311/6000/7000** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0135-01** | | | | | | | | | | | | | | |
| Arsenic | 10K0247 | <0.0356365 | 5.00 | mg/L | 0.0356 | 0.500 | 5.40 | 5.40 | 108 | 108 | 75-125 | 0 | 20 | |
| Barium | 10K0247 | 0.318 | 5.00 | mg/L | 0.00850 | 0.100 | 5.87 | 5.82 | 111 | 110 | 75-125 | 1 | 20 | |
| Cadmium | 10K0247 | <0.003484 | 5.00 | mg/L | 0.00348 | 0.150 | 5.57 | 5.57 | 111 | 111 | 75-125 | 0 | 20 | |
| Chromium | 10K0247 | 0.0605 | 5.00 | mg/L | 0.00781 | 0.200 | 5.19 | 5.18 | 103 | 102 | 75-125 | 0 | 20 | |
| Lead | 10K0247 | <0.0220705 | 5.00 | mg/L | 0.0221 | 0.400 | 5.20 | 5.18 | 104 | 104 | 75-125 | 0 | 20 | |
| Selenium | 10K0247 | <0.074 | 5.00 | mg/L | 0.0740 | 0.500 | 5.53 | 5.57 | 111 | 111 | 75-125 | 1 | 20 | |
| Silver | 10K0247 | <0.007033 | 5.00 | mg/L | 0.00703 | 0.200 | 5.10 | 5.20 | 102 | 104 | 75-125 | 2 | 20 | |

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1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TCLP Metals by 1311/6000/7000** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0098-02** | | | | | | | | | | | | | | |
| Arsenic | 10K0261 | <0.0071273 | 1.00 | mg/L | 0.00713 | 0.100 | 0.990 | 1.01 | 99 | 101 | 75-125 | 2 | 20 | |
| Barium | 10K0261 | 0.0459 | 1.00 | mg/L | 0.00170 | 0.0200 | 1.08 | 1.10 | 103 | 105 | 75-125 | 2 | 20 | |
| Cadmium | 10K0261 | <0.0006968 | 1.00 | mg/L | 0.000697 | 0.0300 | 0.998 | 1.02 | 100 | 102 | 75-125 | 2 | 20 | |
| Chromium | 10K0261 | <0.0015619 | 1.00 | mg/L | 0.00156 | 0.0400 | 0.978 | 0.999 | 98 | 100 | 75-125 | 2 | 20 | |
| Lead | 10K0261 | 0.0127 | 1.00 | mg/L | 0.00441 | 0.0800 | 0.966 | 0.990 | 95 | 98 | 75-125 | 2 | 20 | |
| Selenium | 10K0261 | <0.0148 | 1.00 | mg/L | 0.0148 | 0.100 | 0.994 | 1.01 | 99 | 101 | 75-125 | 1 | 20 | |
| Silver | 10K0261 | <0.0014066 | 1.00 | mg/L | 0.00141 | 0.0400 | 1.02 | 1.03 | 102 | 103 | 75-125 | 2 | 20 | |
| **QC Source Sample: DTK0192-01** | | | | | | | | | | | | | | |
| Mercury | 10K0308 | <0.0000068 | 0.00100 | mg/L | 0.0000068 | 0.000200 | 0.00104 | 0.00103 | 104 | 103 | 75-125 | 1 | 20 | |
| **305.1_0314314x** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0153-02** | | | | | | | | | | | | | | |
| Acidity | 314314 | 6.8 | | % | 0.00079 | 0.005 | 7 | | | | 0-0 | | | NC,MSB |
| **9030B/9034_0312370x** | | | | | | | | | | | | | | |
| **QC Source Sample: A0K030532001** | | | | | | | | | | | | | | |
| Acid-soluble sulfide | 312370 | 551 | | mg/kg | N/A | **30.0 | 628 | | 81 | | 10-154 | | | |

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EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTK0153
Project: Plate Rite Project
Project Number: 30281.0064

Received: 11/03/10
Reported: 11/11/10 16:57

## MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **305.1_0314314x** | | | | | | | | | | | | | | |
| **QC Source Sample: DTK0153-02** | | | | | | | | | | | | | | |
| Acidity | 314314 | 6.8 | | % | 0.00079 | 0.005 | 6.8 | | | | 0-0 | | 0 | NC,MSB |
| **9030B/9034_0312370x** | | | | | | | | | | | | | | |
| **QC Source Sample: A0K030532001** | | | | | | | | | | | | | | |
| Acid-soluble sulfide | 312370 | 551 | | mg/kg | N/A | **30.0 | 608 | | 60 | | 10-154 | 3 | 20 | |

| | | | |
|---|---|---|---|
| EQ - Environmental Quality<br>1800 Carillon Blvd.<br>Cincinnati, OH 45240-2788<br>Erik Corbin | Work Order: DTK0153<br>Project: Plate Rite Project<br>Project Number: 30281.0064 | Received: 11/03/10<br>Reported: 11/11/10 16:57 | |

## CERTIFICATION SUMMARY

**Subcontracted Laboratories**

TestAmerica - King of Prussia Pennsylvania Cert #002

1008 West Ninth Avenue - King of Prussia, PA 19406

Method Performed: EPA 7.3.3
Samples: DTK0153-04

TestAmerica North Canton

Method Performed: 160.3 MOD_0312184
Samples: DTK0153-06

Method Performed: 305.1_0314314
Samples: DTK0153-02, DTK0153-03

Method Performed: 9030B/9034_0312370
Samples: DTK0153-06

STL - North Canton, OH

4101 Shuffel Dr. NW - North Canton, OH 44720

Analysis Performed: SUB Miscellaneous Subcontract
Samples: DTK0153-02, DTK0153-03

Analysis Performed: Sulfide SW 9034
Samples: DTK0153-06

*Any abnormalities or departures from sample acceptance policy shall be documented on the Chain of Custody and/or Case Narrative included with this report.*

*For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com*

*Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .*

| | | | | | |
|---|---|---|---|---|---|
| EQ - Environmental Quality | Work Order: | DTK0153 | Received: | 11/03/10 |
| 1800 Carillon Blvd. | Project: | Plate Rite Project | Reported: | 11/11/10 16:57 |
| Cincinnati, OH 45240-2788 | Project Number: | 30281.0064 | | |
| Erik Corbin | | | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **A-01** | Sample matrix interference caused a false positive. |
| **A-01a** | samples had a pH of <12 |
| **A-01b** | The MSD sample was analyzed outside of the 12 hour batch time. |
| **E** | Concentration exceeds the calibration range and therefore result is semi-quantitative. |
| **H3** | Sample was received and analyzed past holding time. |
| **I** | Internal Standard recovery was outside of method limits. |
| **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 unknown quality. |
| **L1** | Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits. |
| **M** | The MS, MSD, and/or RPD are outside of acceptance limits due to matrix interference. Please see Blank Spike (LCS). |
| **M14** | The MS/MSD recoveries are outside of laboratory established control limits. |
| **M2** | The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **M4** | The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS). |
| **MSB** | The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount. |
| **NC** | The recovery and/or RPD were not calculated. |
| **P2** | Sample received without chemical preservation, but preserved by the laboratory. |
| **RL1** | Reporting limit raised due to sample matrix effects. |
| **RL3** | Reporting limit raised due to high concentrations of non-target analytes. |
| **RL7** | Sample required dilution due to high concentrations of target analyte. |
| **Z6** | Surrogate recovery was below acceptance limits. |

## ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted in the units.

## ANALYSIS LOCATIONS

Any analyses listed below were analyzed in satellite facilities

**TestAmerica Dayton**

DTL0153

# CHAIN OF CUSTODY

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Dayton Division
4738 Gateway Circle
Dayton Ohio 45440
Phone: 937-294-6856
Toll Free: 800-572-9839
Fax: 937-499-1249

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
State in which sampling occurred Ohio
Compliance Monitoring? Yes No
Enforcement Action? Yes No

Client Name: Environmental Quality Management
Address: 1800 Carillon Boulevard
City/State/Zip: Cincinnati, OH 45240
Project Manager: Erik Corbin
Telephone Number: 800-500-0575 Fax No.: 513-825-7495
Sampler Name: (Print) John Sherrard - Dynamac Corp
Sampler Signature:

Project: Plate-Rite Plating Site
PO# 30281.0064
PM: Shelly Howard

| Sample ID | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: $HNO_3$ | HCl | NaOH | $H_2SO_4$ Plastic | $H_2SO_4$ Glass | None | Other | Matrix: LIQUID | SOLID | Analyze For: Total RCRA Metals + Al | TCLP RCRA Metals | Total VOCs | Total SVOCs | Total Cyanide | Total Sulfide | pH | Paint Filter | Hexavalent Chromium | Flash Point | Total Solids | Total Susp. Solids (TSS) | Trivalent Chromium | Strength of Acid | Amenable and Reac. CN | RUSH TAT (Pre-Schedule) | RUSH Due Date | Standard 7-10 Business Days | Email Results | Electronic Deliverables | Comments / Matrix |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRWS-01 | 11/2/10 | | 2 | | X | | | | | | | X | | X | | X | | X | X | X | X | X | | X | X | X | X | | | See Special Instructions. | X | | | X | | Neutral Liquid Wastestream |
| PRWS-02 | 11/2/10 | | 2 | | X | | | | | | | X | | X | | X | X | | | X | X | X | | X | | X | X | X | X | | X | | | X | | Chromic Acid Liquid Wastestream |
| PRWS-03 | 11/2/10 | | 2 | | X | | | | | | | X | | X | | X | X | | | X | X | X | | X | | X | X | X | X | | X | | | X | | Acid Liquid Wastestream |
| PRWS-04 | 11/3/10 | | 2 | | X | | | | | | | X | | X | | X | X | | | X | X | X | | X | | X | X | X | X | | X | | | X | | Cyanide Liquid Wastestream |
| PRWS-05 | 11/3/10 | | 2 | | X | | | | | | | X | | X | | X | X | | | X | X | X | | X | | X | X | X | | | X | | | X | | Caustic Liquid Wastestream |
| PRWS-06 | 11/3/10 | | 2 | | X | | | | | | | X | | | X | X | X | X | X | X | X | X | X | X | | | | | | | X | | | X | | Caustic Solid Wastestream |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:
No S.O.A. on The Cr Liq Waststream

3-business day turnaround time; please email results to Erik Corbin with EQM; If VOCs or SVOCs are detected, contact Erik Corbin, as TCLP may be requested to be analyzed. If total cyanide is detected, please run Amenable Cyanide. Reactive cyanide will be requested if total cyanide > 250 ppm; Reactive sulfide will be requested if total sulfide > 500 ppm.

Laboratory Comments:

Temperature Upon Receipt:
VOCs Free of Headspace? Y N NA
Sample Containers Intact? Y N

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| [signature] | 11/3/10 | 1340 | [signature] | 11-3-10 | 13:40 |
| [signature] | 11-3-10 | 17:30 | [signature] | 11/3/10 | 1730 |

Received by TestAmerica: [signature]

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# Cooler/Sample Receipt

☐ MSDS or Known Hazard Information Supplied by Client
☐ Bottle stickers applied ☐ ELEMENT comment entered ☐ MSDS/COC scanned/emailed to EH&S

☐ Discrepancies Client ID Environmental Quality Management

☐ Short Hold Work Order # DTK0155

☒ Rush ☐24hr ☐2day ☒3day ☐5day ☐other

Receipt evaluation performed by - Initials: RTS Date: 11-3-10 Time: 17:30

**Method of Shipment:**
☐ Walk-In Client ☒ TestAmerica Field/Courier
☐ Other Client/3rd Party Courier
☐ Fed Ex Tracking #
☐ UPS Tracking #
☐ Other

**Shipping Container Type:**
☒ Cooler ☐ Box
☐ None ☐ Other

**Packing Materials:**
☒ Plastic Bags ☐ Foam
☒ Bubble Wrap ☐ Paper
☐ Packing Peanuts ☐ None
☐ Other

**Custody Seals Intact:**
☒ Yes ☐ No
☐ N/A (not used or required)

**Cooling Materials:**
☒ Ice *(solid)* ☐ Ice *(Melted)*
☐ Blue Ice ☐ None
☐ Other

**Are there any soil samples from areas requiring USDA quarantine?** *(AL, AR, AZ, CA, FL, GA, HI, ID, LA MS, NC, NM, NY, OK, SC, TN, TX, VA, Puerto Rico, Virgin Islands, any other Non-Domestic area)* ☐ **No** ☐ **Yes** (If Yes, *Project Manager must be notified).*

**Receipt Temperatures** ☐ **Check if Additional Sheets Required**

| Thermometer ID | Observed (°C) | Corrected (°C) | Temp Blank | Sample Temp | Received on same day sampled? | Acceptable?* | Cooler ID | Note Affected Samples if temperature not acceptable |
|---|---|---|---|---|---|---|---|---|
| G IRbun | 12.1 | 11.1 | ☐ | ☒ | ☒Yes ☐No | ☒Yes ☐No | | |
| | | | ☐ | ☐ | ☐Yes ☐No | ☐Yes ☐No | | |
| | | | ☐ | ☐ | ☐Yes ☐No | ☐Yes ☐No | | |

* Receipt temperatures are considered acceptable if the samples are received on the same day they were collected & show signs that the cooling process has started. Temperature acceptance for most tests is ≤6.0°C, **but not frozen.** For additional information, please refer to SOP DT-SCA-004 ***Sample Receipt and Login, Attachment 2 – Holding Times, Preservation and Container Requirements.***

| Receipt Questions** | Y | N | n/a | "No" answers require additional comment |
|---|---|---|---|---|
| COC present & TA receipt signature, date, & time properly documented? | ✓ | | | |
| Containers & labels in good condition? *(unbroken, not leaking, appropriately filled, labels legible & attached)* | ✓ | | | |
| Appropriate containers used & adequate volume provided? | ✓ | | | |
| Number of sample containers match COC? | ✓ | | | |
| Samples received within hold time? | ✓ | | | |
| Samples submitted for GRO and Volatiles analyses (8260, 624, 524) received without headspace? | | | ✓ | |
| Was a Trip Blank received with VOA samples? | | | ✓ | |
| Were the samples free of any questionable physical conformities? For example, field duplicates or multiple bottles of the same sample do not significantly vary in appearance (color, proportion of solids, etc.) | ✓ | | | |
| Were the COC, bottle labels, and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client? | ✓ | | | |

** May not be applicable if samples are not for compliance testing

**Client Contact Record**
**Contact via:** ☐ Phone ☐ Email ☐ Other **Person Contacted:** **Date/Time:**
☐ Discrepancy allowance agreement is on record in the client project file.
**Discussion/Resolution:**

***Any additional documentation and clarification from client must be noted in the narrative and/or scanned into the COC directory.***

11/4/10
Reviewed by PM Signature Date



WI No. DT-SCA-WI-001.9
effective 10/18/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica King Of Prussia
1008 West Ninth Avenue
King of Prussia, PA 19406
Tel: 610.337.9992

TestAmerica Job ID: KTK0168
TestAmerica Sample Delivery Group: KTK0168
Client Project/Site: DTK0153
Client Project Description: Plate Rite Project

For:
TestAmerica Dayton
4738 Gateway Circle
Dayton, OH 45440

Attn: Shelly A. Howard

*Authorized for release by:*
*11/11/2010 2:18 PM*

Oswaldo Burgos
Project Manager
ozzy.burgos@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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## Glossary

| Glossary | Glossary Description |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis. |

# Analytical Data

Client: TestAmerica Dayton
Project/Site: DTK0153

TestAmerica Job ID: KTK0168
SDG: KTK0168

## Client Sample ID: DTK0153-04 (PRWS-04)

**Date Collected: 11/03/10 00:00**
**Date Received: 11/09/10 15:13**

## Lab Sample ID: KTK0168-01

**Matrix: Water - NonPotable**

### Method: EPA 7.3.3 - General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Reactive Cyanide | ND | | 0.010 | | mg/L | | 11/11/10 08:01 | 11/11/10 13:25 | 1 |

# Lab Chronicle

Client: TestAmerica Dayton
Project/Site: DTK0153

TestAmerica Job ID: KTK0168
SDG: KTK0168

## Client Sample ID: DTK0153-04 (PRWS-04)

**Date Collected: 11/03/10 00:00**
**Date Received: 11/09/10 15:13**

## Lab Sample ID: KTK0168-01

**Matrix: Water - NonPotable**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| total | Prep | General Prep WC | | 1 | 10K0254_P | 11/11/10 08:01 | TYH | TestAmerica King Of Prussia |
| total | Analysis | EPA 7.3.3 | | 1 | 10K0254 | 11/11/10 13:25 | TYH | TestAmerica King Of Prussia |

# Certification Summary

Client: TestAmerica Dayton
Project/Site: DTK0153

TestAmerica Job ID: KTK0168
SDG: KTK0168

| Laboratory | Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|---|
| TestAmerica King Of Prussia | | USDA | | P330-10-00327 | 09/21/13 |
| TestAmerica King Of Prussia | Delaware | State Program | 3 | 253 | 06/30/11 |
| TestAmerica King Of Prussia | New Jersey | NELAC | 2 | PA004 | 06/30/11 |
| TestAmerica King Of Prussia | Pennsylvania | NELAC | 3 | 46-00505 | 06/30/11 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary

Client: TestAmerica Dayton
Project/Site: DTK0153

TestAmerica Job ID: KTK0168
SDG: KTK0168

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| EPA 7.3.3 | General Chemistry | | TAL KOP |

**Protocol References:**

=

**Laboratory References:**

TAL KOP = TestAmerica King Of Prussia, 1008 West Ninth Avenue, King of Prussia, PA 19406, TEL 610.337.9992

# Sample Summary

Client: TestAmerica Dayton
Project/Site: DTK0153

TestAmerica Job ID: KTK0168
SDG: KTK0168

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| KTK0168-01 | DTK0153-04 (PRWS-04) | Water - NonPotable | 11/03/10 00:00 | 11/09/10 15:13 |

**SUBCONTRACT ORDER**
**TestAmerica Dayton**

**DTK0153**

| SENDING LABORATORY: | RECEIVING LABORATORY: |
|---|---|
| TestAmerica Dayton | TestAmerica King of Prussia |
| 4738 Gateway Circle | 1008 West Ninth Avenue |
| Dayton, OH 45440 | King of Prussia, PA 19406 |
| Phone: 800-572-9839 | Phone :610-337-9992 |
| Fax: 937-499-1249 | Fax: 610-337-9939 |
| Project Manager: Shelly A. Howard | Project Location: Ohio |
| Client: EQ - Environmental Quality | Receipt Temperature: 0 °C Ice: Y / N |

| Analysis | Units | Due | Expires | Interlab Price | Surch | Comments |
|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-04 (PRWS-04 - Water - NonPotable)** | | | Sampled: **11/03/10 00:00** | | | **Cyanide Liquid Wastestream** |
| SUB Cyanide Reactive SW 9012 | mg/L | 11/08/10 | 11/17/10 00:00 | $0.00 | 75% | |
| *Containers Supplied:* | | | | | | |

KTK0168-01

| Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| B O'Donnell | 11/05/10 1450 | Fed Ex | |
| Fed Ex | | Nick Fredetti | 11/9/10 12:00 |

Page 1 of 1

## Cooler Receipt Form

**WORK ORDER #:** KTK0168

Client: TA Dayton Project: DTK0153

Temperature Upon Receipt by IR: 0

Cooler received from: **TA Courier Client FedEx UPS Other:** _____

**For Received Shipments only:**
Number of Coolers: 1 2 3+ Custody Seals Intact? Y N
Ice Present? Y N N/A Melted Packing Material: **Bubble Wrap Other None**

**For Subcontracted Samples only:**
ALL preserved containers (except VOA) checked for correct pH and are acceptable? **Y N N/A**
Residual Chlorine checks done on each container that needs it? **Y N N/A**

Voa Vials have air bubbles > 6mm? **Y N N/A**
Sufficient volume for all analyses? Y N
All Sample Containers Intact Y N All Sample Containers labeled: Y N
All Sample Containers received: Y N All Container labels match COC: Y N
**List Discrepancies below if indicated:**

**Review COC against Sample Acceptance Checklist:**

| | | |
|---|---|---|
| 1. Client Name & Address present | Yes | No |
| 2. Project Name and/or Number included | Yes | No |
| 3. Field Sampler Name listed | Yes | No |
| 4 Field ID/Location - one sample per line | Yes | No |
| 5 Date collected (for each sample) | Yes | No |
| 6 Time collected (for each sample) | Yes | No |
| 7 Matrix (for each sample) | Yes | No |
| 8 Number & Types of bottles per sample (and preservation type) | Yes | No |
| 9 Analysis Requested | Yes | No |
| 10. Sign & Date in the Relinquished Box | Yes | No |

Discrepancies: _____

**Spec Sheet/CAR#:**_____ **PM or Client contacted? Y N N/A**

**Signature:**_____ **Date/Time:** 11/9/10

# ANALYTICAL REPORT

**PROJECT NO. DTK0153**

**DTK0153 ENVIRONMENTAL QUALITY**

**Lot #: A0K050584**

**Shelly Howard**

**TestAmerica Dayton**
**4738 Gateway Circle Drive**
**Kettering, OH 45440**

**TESTAMERICA LABORATORIES, INC.**

**Amy L. McCormick**
Project Manager
amy.mccormick@testamericainc.com

Approved for release.
Amy McCormick
Project Manager
11/11/2010 3:25 PM

**November 11, 2010**

# EXECUTIVE SUMMARY - Detection Highlights

**A0K050584**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **DTK0153-02 11/02/10 001** | | | | |
| Acidity | 6.8 | 0.10 | % | MCAWW 305.1 |
| **DTK0153-03 11/02/10 002** | | | | |
| Acidity | 14 | 0.25 | % | MCAWW 305.1 |
| **DTK0153-06 11/03/10 003** | | | | |
| Percent Solids | 85.6 | 10.0 | % | MCAWW 160.3 MOD |
| Acid-soluble sulfide | 138 | 35.1 | mg/kg | SW846 9030B/9034 |

# ANALYTICAL METHODS SUMMARY

**A0K050584**

| PARAMETER | ANALYTICAL METHOD |
|---|---|
| Acidity (Titrimetric) | MCAWW 305.1 |
| Sulfides, Total 9030B/9034 | SW846 9030B/9034 |
| Total Residue as Percent Solids | MCAWW 160.3 MOD |

**References:**

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

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

**A0K050584**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| L9ML2 | 001 | DTK0153-02 | 11/02/10 | |
| L9ML4 | 002 | DTK0153-03 | 11/02/10 | |
| L9ML6 | 003 | DTK0153-06 | 11/03/10 | |

**NOTE(S):**

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

**TestAmerica Dayton**

**Client Sample ID: DTK0153-02**

**General Chemistry**

**Lot-Sample #...:** A0K050584-001 **Work Order #...:** L9ML2 **Matrix.....:** LH
**Date Sampled...:** 11/02/10 **Date Received..:** 11/05/10
**% Moisture.....:**

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Acidity** | **6.8** | **0.10** | **%** | **MCAWW 305.1** | **11/10/10** | **0314314** |

Dilution Factor: 20 MDL.....: 0.016

**TestAmerica Dayton**

**Client Sample ID: DTK0153-03**

**General Chemistry**

**Lot-Sample #...:** A0K050584-002 **Work Order #...:** L9ML4 **Matrix.....:** LH
**Date Sampled...:** 11/02/10 **Date Received..:** 11/05/10
**% Moisture.....:**

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Acidity** | **14** | **0.25** | **%** | **MCAWW 305.1** | **11/10/10** | **0314314** |

Dilution Factor: 50 MDL.....: 0.040

**TestAmerica Dayton**

**Client Sample ID: DTK0153-06**

**General Chemistry**

**Lot-Sample #...:** A0K050584-003 **Work Order #...:** L9ML6 **Matrix.....:** SO
**Date Sampled...:** 11/03/10 **Date Received..:** 11/05/10
**% Moisture.....:** 14

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **Acid-soluble sulfide** | **138** | **35.1** | **mg/kg** | **SW846 9030B/9034** | **11/08/10** | **0312370** |
| | | Dilution Factor: 1 | | MDL.....: 25.7 | | |
| **Percent Solids** | **85.6** | **10.0** | **%** | **MCAWW 160.3 MOD** | **11/08-11/09/10** | **0312184** |
| | | Dilution Factor: 1 | | MDL.....: 10.0 | | |

**NOTE(S):**

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

# SUBCONTRACT ORDER
## TestAmerica Dayton

## DTK0153

**SENDING LABORATORY:**

TestAmerica Dayton
4738 Gateway Circle
Dayton, OH 45440
Phone: 800-572-9839
Fax: 937-499-1249
Project Manager: Shelly A. Howard
Client: EQ - Environmental Quality

**RECEIVING LABORATORY:**

TestAmerica North Canton (DT)
4101 Shuffel Dr. NW
North Canton, OH 44720
Phone :330-497-9396
Fax: 330-497-0772
Project Location: Ohio
Receipt Temperature: 1.2 °C Ice: (Y) / N

Does not need Hg TLCP. ccs Steve Letany.

| Analysis | Units | Due | Expires | Interlab Price | Surch | Comments |
|---|---|---|---|---|---|---|
| **Sample ID: DTK0153-02 (PRWS-02 - Water - NonPotable)** Sampled: 11/02/10 00:00 **Chromic Acid Liquid Wastestream** | | | | | | |
| SUB Miscellaneous Subcontract | % | 11/09/10 | 07/28/13 00:00 | $15.00 | 60% | Strenght of acid - report in % |
| *Containers Supplied:* | | | | | | |
| **Sample ID: DTK0153-03 (PRWS-03 - Water - NonPotable)** Sampled: 11/02/10 00:00 **Acid Liquid Wastestream** | | | | | | |
| SUB Miscellaneous Subcontract | % | 11/09/10 | 07/28/13 00:00 | $15.00 | 60% | Strenght of acid - report in % |
| *Containers Supplied:* | | | | | | |
| **Sample ID: DTK0153-06 (PRWS-06 - Non-aqueous)** Sampled: 11/03/10 00:00 | | | | | | |
| Sulfide SW 9034 | mg/kg | 11/09/10 | 11/10/10 00:00 | $30.00 | 60% | |
| *Containers Supplied:* | | | | | | |

| Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| B O'Donnell | 11/4/10 1545 | [illegible] | 11-5-10 9:20 |
| | | | |

**TestAmerica Cooler Receipt Form/Narrative** **Lot Number:** A0K050584
**North Canton Facility**

Client Ge lighting (Bucyrus Lamp Plant) Project DTK0153 By: [illegible]
Cooler Received on 11-5-10 Opened on 11-5-10 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 1 Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☒ No ☒ NA
   If YES, are there any exceptions? ONLY Hg samples had CS
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☐ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☐ No ☐
5. Packing material used: Bubble Wrap ☐ Foam ☐ None ☐ Other ____
6. Cooler temperature upon receipt 1.2 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☐ No ☒
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM ALM Date 11/5/10 by JB via Verbal ☐ Voice Mail ☒ Other ☐
Concerning leaking gar

*14. CHAIN OF CUSTODY*

The following discrepancies occurred:

*15. SAMPLE CONDITION*

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) DTK0153-02 leaking Put into new Jar were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

*16. SAMPLE PRESERVATION*

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 051010-$HNO_3$; Sulfuric Acid Lot# 051010-$H_2SO_4$; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? ____

| Client ID | pH | Date | Initials |
|---|---|---|---|
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**TestAmerica Cooler Receipt Form/Narrative**
**North Canton Facility**

| Client ID | pH | Date | Initials |
|---|---|---|---|
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| **Cooler #** | **Temp. °C** | **Method** | **Coolant** |
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Discrepancies Cont'd:

# *END OF REPORT*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Dayton
4738 Gateway Circle
Dayton, OH 45440
Tel: 800-572-9839

TestAmerica Job ID: DUA0134
TestAmerica Sample Delivery Group: DUA0134
Client Project/Site: 30281.0064
Client Project Description: Plate Rite Project
Revision: 1

For:
EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788

Attn: Erik Corbin

SAHoward

*Authorized for release by:*
*1/14/2011 12:15 PM*

Shelly A. Howard
Dayton Project Manager
Shelly.Howard@testamericainc.com

cc: Steve Letany

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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# Sample Summary

Client: EQ - Environmental Quality
Project/Site: 30281.0064

TestAmerica Job ID: DUA0134

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| DUA0134-01 | DW-1 | Water - NonPotable | 01/05/11 12:20 | 01/05/11 13:10 |

# Detection Summary

Client: EQ - Environmental Quality
Project/Site: 30281.0064

TestAmerica Job ID: DUA0134
SDG: DUA0134

## Client Sample ID: DW-1 — Lab Sample ID: DUA0134-01

| Analyte | Result | Qualifier | RL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00612 | | 0.00100 | mg/L | 1 | | SW 7470A | total |
| Chromium, Trivalent | 246 | | 12.5 | mg/L | 500 | | Calc | total |
| Barium | 151 | | 12.5 | mg/L | 500 | | SW 6020A | total |
| Cadmium | 0.0788 | | 0.0500 | mg/L | 10 | | SW 6020A | total |
| Chromium | 341 | | 12.5 | mg/L | 500 | | SW 6020A | total |
| Lead | 54.6 | | 0.0500 | mg/L | 10 | | SW 6020A | total |
| Nickel | 1690 | | 12.5 | mg/L | 500 | | SW 6020A | total |
| Silver | 0.0791 | | 0.0250 | mg/L | 10 | | SW 6020A | total |
| Cyanide, Total | 4.64 | | 0.500 | mg/L | 1 | | SW 9012 Mod. | total |
| Chromium, hexavalent | 95.4 | | 10.0 | mg/L | 1 | | SW 7196A | total |
| pH | 6.38 | | 0.10 | S.U. | 1 | | SW 9040C | total |
| Temperature - °C | 18.0 | | | S.U. | 1 | | SW 9040C | total |

# Analytical Data

Client: EQ - Environmental Quality
Project/Site: 30281.0064

TestAmerica Job ID: DUA0134
SDG: DUA0134

## Client Sample ID: DW-1

**Date Collected: 01/05/11 12:20**
**Date Received: 01/05/11 13:10**

## Lab Sample ID: DUA0134-01

**Matrix: Water - NonPotable**

### Method: SW 7470A - Total Metals

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00612 | | 0.00100 | mg/L | | 01/07/11 08:00 | 01/10/11 13:51 | 1 |

### Method: Calc - Total Metals

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Chromium, Trivalent | 246 | | 12.5 | mg/L | | 01/06/11 08:36 | 01/08/11 01:26 | 500 |

### Method: SW 6020A - Total Metals

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.250 | | 0.250 | mg/L | | 01/06/11 08:36 | 01/06/11 16:54 | 10 |
| Barium | 151 | | 12.5 | mg/L | | 01/06/11 08:36 | 01/06/11 18:39 | 500 |
| Cadmium | 0.0788 | | 0.0500 | mg/L | | 01/06/11 08:36 | 01/06/11 16:54 | 10 |
| Chromium | 341 | | 12.5 | mg/L | | 01/06/11 08:36 | 01/08/11 01:26 | 500 |
| Lead | 54.6 | | 0.0500 | mg/L | | 01/06/11 08:36 | 01/06/11 16:54 | 10 |
| Nickel | 1690 | | 12.5 | mg/L | | 01/06/11 08:36 | 01/08/11 01:26 | 500 |
| Selenium | <0.500 | | 0.500 | mg/L | | 01/06/11 08:36 | 01/10/11 16:47 | 10 |
| Silver | 0.0791 | | 0.0250 | mg/L | | 01/06/11 08:36 | 01/08/11 01:31 | 10 |

### Method: SW 9012 Mod. - General Chemistry Parameters

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 4.64 | | 0.500 | mg/L | | 01/07/11 06:45 | 01/07/11 10:28 | 1 |

### Method: SW 7196A - General Chemistry Parameters

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 95.4 | | 10.0 | mg/L | | 01/05/11 15:15 | 01/05/11 15:20 | 1 |

### Method: SW 9040C - General Chemistry Parameters

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| pH | 6.38 | | 0.10 | S.U. | | 01/05/11 14:30 | 01/05/11 14:30 | 1 |
| Temperature - °C | 18.0 | | | S.U. | | 01/05/11 14:30 | 01/05/11 14:30 | 1 |

## Method: SW 7470A - Total Metals

**Lab Sample ID: 11A0172-BLK1** — **Client Sample ID: 11A0172-BLK1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0172** — **Prep Batch: 11A0172_P**

| Analyte | Blank Result | Blank Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Mercury | <0.000200 | | 0.000200 | mg/L | | 01/07/11 08:00 | 01/10/11 12:53 | 1 |

**Lab Sample ID: 11A0172-BS1** — **Client Sample ID: 11A0172-BS1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0172** — **Prep Batch: 11A0172_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.0010000 | 0.00113 | | mg/L | | 113 | 80 - 120 |

**Lab Sample ID: 11A0172-MS1** — **Client Sample ID: DUA0103-01**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0172** — **Prep Batch: 11A0172_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0000634 | | 0.0010000 | 0.00113 | | mg/L | | 106 | 75 - 125 |

**Lab Sample ID: 11A0172-MSD1** — **Client Sample ID: DUA0103-01**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0172** — **Prep Batch: 11A0172_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Dup Result | Matrix Spike Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0000634 | | 0.0010000 | 0.00109 | | mg/L | | 103 | 75 - 125 | 3 | 20 |

## Method: SW 6020A - Total Metals

**Lab Sample ID: 11A0140-BLK1** — **Client Sample ID: 11A0140-BLK1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Blank Result | Blank Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.00100 | | 0.00100 | mg/L | | 01/06/11 08:36 | 01/06/11 15:29 | 1 |
| Barium | <0.00100 | | 0.00100 | mg/L | | 01/06/11 08:36 | 01/06/11 15:29 | 1 |
| Cadmium | <0.000200 | | 0.000200 | mg/L | | 01/06/11 08:36 | 01/06/11 15:29 | 1 |
| Chromium | <0.00100 | | 0.00100 | mg/L | | 01/06/11 08:36 | 01/06/11 15:29 | 1 |
| Lead | <0.000200 | | 0.000200 | mg/L | | 01/06/11 08:36 | 01/06/11 15:29 | 1 |
| Nickel | <0.00100 | | 0.00100 | mg/L | | 01/06/11 08:36 | 01/06/11 15:29 | 1 |
| Selenium | <0.00200 | | 0.00200 | mg/L | | 01/06/11 08:36 | 01/06/11 15:29 | 1 |

**Lab Sample ID: 11A0140-BLK1** — **Client Sample ID: 11A0140-BLK1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Blank Result | Blank Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Silver | <0.000100 | | 0.000100 | mg/L | | 01/06/11 08:36 | 01/08/11 00:29 | 1 |

**Lab Sample ID: 11A0140-BS1** — **Client Sample ID: 11A0140-BS1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.050000 | 0.0485 | | mg/L | | 97 | 80 - 120 |

## Method: SW 6020A - Total Metals (Continued)

**Lab Sample ID: 11A0140-BS1** — **Client Sample ID: 11A0140-BS1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Barium | 0.050000 | 0.0496 | | mg/L | | 99 | 80 - 120 |
| Cadmium | 0.050000 | 0.0488 | | mg/L | | 98 | 80 - 120 |
| Chromium | 0.050000 | 0.0500 | | mg/L | | 100 | 80 - 120 |
| Lead | 0.050000 | 0.0493 | | mg/L | | 99 | 80 - 120 |
| Nickel | 0.050000 | 0.0493 | | mg/L | | 99 | 80 - 120 |
| Selenium | 0.050000 | 0.0459 | | mg/L | | 92 | 80 - 120 |

**Lab Sample ID: 11A0140-BS1** — **Client Sample ID: 11A0140-BS1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Silver | 0.050000 | 0.0477 | | mg/L | | 95 | 80 - 120 |

**Lab Sample ID: 11A0140-MS1** — **Client Sample ID: DUA0103-01**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050000 | 0.0480 | | mg/L | | 96 | 75 - 125 |
| Barium | 0.210 | | 0.050000 | 0.254 | | mg/L | | 88 | 75 - 125 |
| Cadmium | ND | | 0.050000 | 0.0476 | | mg/L | | 95 | 75 - 125 |
| Chromium | ND | | 0.050000 | 0.0457 | | mg/L | | 91 | 75 - 125 |
| Lead | ND | | 0.050000 | 0.0436 | | mg/L | | 87 | 75 - 125 |
| Nickel | 0.00405 | | 0.050000 | 0.0499 | | mg/L | | 92 | 75 - 125 |

**Lab Sample ID: 11A0140-MS1** — **Client Sample ID: DUA0103-01**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Selenium | ND | | 0.050000 | 0.0454 | | mg/L | | 91 | 75 - 125 |
| Silver | ND | | 0.050000 | 0.0457 | | mg/L | | 91 | 75 - 125 |

**Lab Sample ID: 11A0140-MSD1** — **Client Sample ID: DUA0103-01**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Dup Result | Matrix Spike Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050000 | 0.0459 | | mg/L | | 92 | 75 - 125 | 4 | 20 |
| Barium | 0.210 | | 0.050000 | 0.251 | | mg/L | | 82 | 75 - 125 | 1 | 20 |
| Cadmium | ND | | 0.050000 | 0.0477 | | mg/L | | 95 | 75 - 125 | 0.2 | 20 |
| Chromium | ND | | 0.050000 | 0.0438 | | mg/L | | 88 | 75 - 125 | 4 | 20 |
| Lead | ND | | 0.050000 | 0.0438 | | mg/L | | 88 | 75 - 125 | 0.6 | 20 |
| Nickel | 0.00405 | | 0.050000 | 0.0496 | | mg/L | | 91 | 75 - 125 | 0.5 | 20 |

## Method: SW 6020A - Total Metals (Continued)

**Lab Sample ID: 11A0140-MSD1** — **Client Sample ID: DUA0103-01**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0140** — **Prep Batch: 11A0140_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Dup Result | Matrix Spike Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | ND | | 0.050000 | 0.0442 | | mg/L | | 88 | 75 - 125 | 3 | 20 |
| Silver | ND | | 0.050000 | 0.0446 | | mg/L | | 89 | 75 - 125 | 2 | 20 |

## Method: SW 9012 Mod. - General Chemistry Parameters

**Lab Sample ID: 11A0180-BLK1** — **Client Sample ID: 11A0180-BLK1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0180** — **Prep Batch: 11A0180_P**

| Analyte | Blank Result | Blank Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | <0.00500 | | 0.00500 | mg/L | | 01/07/11 06:45 | 01/07/11 10:28 | 1 |

**Lab Sample ID: 11A0180-BS1** — **Client Sample ID: 11A0180-BS1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0180** — **Prep Batch: 11A0180_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.10000 | 0.0923 | | mg/L | | 92 | 80 - 113 |

**Lab Sample ID: 11A0180-MS1** — **Client Sample ID: DUA0099-02**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0180** — **Prep Batch: 11A0180_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.00330 | | 0.10000 | 0.105 | | mg/L | | 101 | 75 - 125 |

**Lab Sample ID: 11A0180-DUP1** — **Client Sample ID: DUA0097-01**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0180** — **Prep Batch: 11A0180_P**

| Analyte | Sample Result | Sample Qualifier | Duplicate Result | Duplicate Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | <0.00500 | | mg/L | | | 25 |

## Method: SW 7196A - General Chemistry Parameters

**Lab Sample ID: 11A0123-BLK1** — **Client Sample ID: 11A0123-BLK1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0123** — **Prep Batch: 11A0123_P**

| Analyte | Blank Result | Blank Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | <0.0100 | | 0.0100 | mg/L | | 01/05/11 09:38 | 01/05/11 09:47 | 1 |

**Lab Sample ID: 11A0123-BS1** — **Client Sample ID: 11A0123-BS1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0123** — **Prep Batch: 11A0123_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 0.10000 | 0.0997 | | mg/L | | 100 | 90 - 110 |

## Method: SW 7196A - General Chemistry Parameters (Continued)

**Lab Sample ID: 11A0123-MS1** — **Client Sample ID: DUA0095-02**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0123** — **Prep Batch: 11A0123_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 0.0160 | | 0.10000 | 0.115 | | mg/L | | 99 | 81 - 107 | | |

**Lab Sample ID: 11A0123-DUP1** — **Client Sample ID: DUA0095-02**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0123** — **Prep Batch: 11A0123_P**

| Analyte | Sample Result | Sample Qualifier | | Duplicate Result | Duplicate Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 0.0160 | | | 0.0186 | | mg/L | | | | 15 | 200 |

## Method: SW 9040C - General Chemistry Parameters

**Lab Sample ID: 11A0130-BS1** — **Client Sample ID: 11A0130-BS1**
**Matrix: Water - NonPotable** — **Prep Type: total**
**Analysis Batch: 11A0130** — **Prep Batch: 11A0130_P**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | | | 7.0000 | 7.01 | | S.U. | | 100 | 98.6 - 101.4 | | |

# Certification Summary

Client: EQ - Environmental Quality
Project/Site: 30281.0064

TestAmerica Job ID: DUA0134
SDG: DUA0134

| Laboratory | Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|---|
| TestAmerica Dayton | Indiana | State Program | 5 | C-OH-10 | 03/13/13 |
| TestAmerica Dayton | Kentucky | Kentucky UST | 4 | 8 | 08/24/11 |
| TestAmerica Dayton | Michigan | State Program | 5 | 9931 | 01/12/13 |
| TestAmerica Dayton | Ohio | State Program | 5 | OH-00010 | 01/12/13 |
| TestAmerica Dayton | Ohio | State Program | 5 | OH-00010 | 01/13/13 |
| TestAmerica Dayton | Ohio | State Program | 5 | OH-00010 | 07/11/11 |
| TestAmerica Dayton | Ohio | State Program | 5 | OH-00010 | 10/18/11 |
| TestAmerica Dayton | Ohio | State Program | 5 | OH-00010 | 05/11/13 |
| TestAmerica Dayton | Ohio | VAP | 5 | CL0018 | 07/15/12 |
| TestAmerica Dayton | Pennsylvania | NELAC | 3 | 68-00577 | 12/31/11 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# CHAIN OF CUSTODY

DUA 0134

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Dayton Division
4738 Gateway Circle
Dayton Ohio 45440
Phone: 937-294-6856
Toll Free: 800-572-9839
Fax: 937-499-1249

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
State in which sampling occurred _____
Compliance Monitoring? Yes No
Enforcement Action? Yes No

Client Name: Environmental Quality Management
Address: 1800 Carillon Boulevard
City/State/Zip: Cincinnati, OH 45240
Project Manager: Erik Corbin
Telephone Number: 800-500-0575 Fax No.: 513-825-7495
Sampler Name: (Print) Chris Wallace (EQM)
Sampler Signature:

Project: Plate-Rite Plating
PO# 30281.0064
PM:

| Sample ID | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: $HNO_3$ | HCl | NaOH | $H_2SO_4$ Plastic | $H_2SO_4$ Glass | None | Other | Matrix: SOIL | WATER | Analyze For: Hexavalent Chromium | Total RCRA Metals + Ni | Total Cyanide | pH | RUSH TAT (Pre-Schedule) | RUSH Due Date | Standard 7-10 Business Days | Email Results | Electronic Deliverables | Comments / Matrix |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DW-1 | 1/5/11 | 12:20pm | 1 | X | | | | | | | | X | | | | X | X | X | X | | | | | | Decon Water |

Special Instructions: 5-working day turnaround time; please email results to Erik Corbin with EQM

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| [signature] | 1-5-11 | 1230 | [signature] | 1-5-10 | 12:30 |
| Relinquished by: | Date | Time | Received by TestAmerica: | Date | Time |
| [signature] | 1-5-11 | 13:10 | [signature] | 1/5/11 | 13:10 |

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y N NA
Sample Containers Intact? Y N
SR 1/5/11

01/14/2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# Cooler/Sample Receipt

☐ MSDS or Known Hazard Information Supplied by Client
☐ Bottle stickers applied ☐ ELEMENT comment entered ☐ MSDS/COC scanned/emailed to EH&S
☐ Discrepancies Client ID Environmental Quality Management
☐ Short Hold Work Order # DUA 0134
☐ Rush ☐24hr ☐2day ☐3day ☐5day ☐other
Receipt evaluation performed by - Initials: RTS Date: 1-5-11 Time: 13:10

Method of Shipment:
☐ Walk-In Client ☒ TestAmerica Field/Courier
☐ Other Client/3rd Party Courier
☐ Fed Ex Tracking #
☐ UPS Tracking #
☐ Other

Shipping Container Type:
☒ Cooler ☐ Box
☐ None ☐ Other

Packing Materials:
☐ Plastic Bags ☐ Foam
☐ Bubble Wrap ☐ Paper
☐ Packing Peanuts ☒ None
☐ Other

Custody Seals Intact:
☒ Yes ☐ No
☐ N/A (not used or required)

Cooling Materials:
☒ Ice *(solid)* ☐ Ice *(Melted)*
☐ Blue Ice ☐ None
☐ Other

Are there any soil samples from areas requiring USDA quarantine? *(AL, AR, AZ, CA, FL, GA, HI, ID, LA MS, NC, NM, NY, OK, SC, TN, TX, VA, Puerto Rico, Virgin Islands, any other Non-Domestic area)* ☒ No ☐ Yes (If Yes, *Project Manager must be notified*).

☐ Check if Additional Sheets Required

Receipt Temperatures

| Thermometer ID | Observed (°C) | Corrected (°C) | Temp Blank | Sample Temp | Received on same day sampled? | Acceptable?* | Cooler ID | Note Affected Samples if temperature not acceptable |
|---|---|---|---|---|---|---|---|---|
| G | 6.6 | 5.8 | ☐ | ☒ | ☒Yes ☐No | ☒Yes ☐No | | |
| | | | ☐ | ☐ | ☐Yes ☐No | ☐Yes ☐No | | |
| | | | ☐ | ☐ | ☐Yes ☐No | ☐Yes ☐No | | |

* Receipt temperatures are considered acceptable if the samples are received on the same day they were collected & show signs that the cooling process has started. Temperature acceptance for most tests is ≤6.0°C, but not frozen. For additional information, please refer to SOP DT-SCA-004 *Sample Receipt and Login, Attachment 2 – Holding Times, Preservation and Container Requirements.*

| Receipt Questions** | Y | N | n/a | "No" answers require additional comment |
|---|---|---|---|---|
| COC present & TA receipt signature, date, & time properly documented? | X | | | |
| Containers & labels in good condition? *(unbroken, not leaking, appropriately filled, labels legible & attached)* | X | | | |
| Appropriate containers used & adequate volume provided? | X | | | |
| Number of sample containers match COC? | X | | | |
| Samples received within hold time? | X | | | |
| Samples submitted for GRO and Volatiles analyses (8260, 624, 524) received without headspace? | | | X | |
| Was a Trip Blank received with VOA samples? | | | X | |
| Were the samples free of any questionable physical conformities? For example, field duplicates or multiple bottles of the same sample do not significantly vary in appearance (color, proportion of solids, etc.) | X | | | |
| Were the COC, bottle labels, and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client? | X | | | |

** May not be applicable if samples are not for compliance testing

Client Contact Record
Contact via: ☐ Phone ☐ Email ☐ Other Person Contacted: Date/Time:
☐ Discrepancy allowance agreement is on record in the client project file.
Discussion/Resolution:

*Any additional documentation and clarification from client must be noted in the narrative and/or scanned into the COC directory.*

SL 1/5/11 1 of 1
Reviewed by PM Signature Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

December 17, 2010

Client:

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788

Attn: Erik Corbin

Work Order: DTL0351
Project Name: Plate Rite Project
Project Number: 030281.0064

Date Received: 12/07/10

**Samples logged in at Dayton laboratory.**

An executed copy of the Chain of Custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at the number shown above.

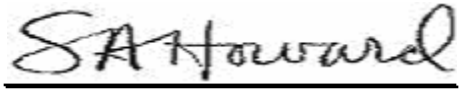
| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| PRWS-07 | DTL0351-01 | 12/07/10 10:00 |

Ohio Certification Number: 4074, 857

*Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.*

*TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.*

Report Approved By:



This report has been electronically signed.

**TestAmerica Dayton**
Shelly A. Howard
Dayton Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTL0351
Project: Plate Rite Project
Project Number: 030281.0064

Received: 12/07/10
Reported: 12/17/10 15:40

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | RL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: DTL0351-01 (PRWS-07 - Non-aqueous)** | | | | | **Sampled: 12/07/10 10:00** | | | **Recvd: 12/07/10 15:30** | |
| General Chemistry Parameters | | | | | | | | | |
| **Chromium, hexavalent** | **2760** | M4 | mg/kg dry | 1150 | 400 | 12/14/10 09:47 | JLB | 10L0502 | SW 7196A |
| **Cyanide, Total** | **2.69** | M14 | mg/kg dry | 0.289 | 1 | 12/09/10 15:16 | KKH | 10L0385 | SW 9012 |
| **pH** | **5.71** | | S.U. | 0.10 | 1 | 12/09/10 10:35 | DGR | 10L0381 | SW 9045D |
| **Paint Filter Liquids** | **Compliant** | | N/A | NA | 1 | 12/14/10 10:11 | JLB | 10L0556 | SW 9095A/B |
| **Dry Weight** | **86.4** | | % | 0.100 | 1 | 12/10/10 10:25 | jlb | 10L0443 | SW 846 |
| **Temperature - °C** | **16.9** | | S.U. | NA | 1 | 12/09/10 10:35 | DGR | 10L0381 | SW 9045D |
| Total Metals | | | | | | | | | |
| Arsenic | <22.3 | RL3 | mg/kg dry | 22.3 | 200 | 12/15/10 15:47 | BMH | 10L0507 | SW 6020A |
| **Barium** | **439** | | mg/kg dry | 11.1 | 200 | 12/15/10 15:47 | BMH | 10L0507 | SW 6020A |
| Cadmium | <2.23 | RL3 | mg/kg dry | 2.23 | 200 | 12/15/10 15:47 | BMH | 10L0507 | SW 6020A |
| **Chromium** | **7320** | | mg/kg dry | 22.3 | 200 | 12/15/10 15:47 | BMH | 10L0507 | SW 6020A |
| **Lead** | **2660** | | mg/kg dry | 2.23 | 200 | 12/15/10 15:47 | BMH | 10L0507 | SW 6020A |
| **Mercury** | **0.0628** | | mg/kg dry | 0.00964 | 1 | 12/17/10 12:22 | CAJ | 10L0504 | SW 7471A |
| **Nickel** | **36300** | | mg/kg dry | 139 | 2500 | 12/15/10 15:42 | BMH | 10L0507 | SW 6020A |
| Selenium | <22.3 | RL3 | mg/kg dry | 22.3 | 200 | 12/15/10 15:47 | BMH | 10L0507 | SW 6020A |
| **Silver** | **2.23** | | mg/kg dry | 1.11 | 200 | 12/15/10 15:47 | BMH | 10L0507 | SW 6020A |
| TCLP Metals by 1311/6000/7000 | | | | | | | | | |
| Arsenic | <5.00 | RL1 | mg/L | 5.00 | 10 | 12/15/10 15:00 | MJW | 10L0488 | SW 6010B |
| Barium | <1.00 | RL1 | mg/L | 1.00 | 10 | 12/15/10 15:00 | MJW | 10L0488 | SW 6010B |
| Cadmium | <0.500 | RL1 | mg/L | 0.500 | 10 | 12/15/10 15:00 | MJW | 10L0488 | SW 6010B |
| **Chromium** | **262** | | mg/L | 2.00 | 10 | 12/15/10 15:00 | MJW | 10L0488 | SW 6010B |
| Lead | <4.00 | RL1 | mg/L | 4.00 | 10 | 12/15/10 15:00 | MJW | 10L0488 | SW 6010B |
| **Mercury** | **0.00106** | | mg/L | 0.00100 | 1 | 12/15/10 12:33 | CAJ | 10L0445 | SW 7470A |
| **Nickel** | **2030** | | mg/L | 0.500 | 10 | 12/15/10 15:00 | MJW | 10L0488 | SW 6010B |
| Selenium | <1.00 | RL1 | mg/L | 1.00 | 10 | 12/15/10 15:00 | MJW | 10L0488 | SW 6010B |
| Silver | <2.00 | RL1 | mg/L | 2.00 | 10 | 12/15/10 15:00 | MJW | 10L0488 | SW 6010B |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTL0351
Project: Plate Rite Project
Project Number: 030281.0064

Received: 12/07/10
Reported: 12/17/10 15:40

# LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | | |
| Cyanide, Total | 10L0385 | | | mg/kg wet | N/A | 0.250 | <0.250 | | | | | | | |
| Chromium, hexavalent | 10L0502 | | | mg/kg wet | N/A | 25.0 | <25.0 | | | | | | | |
| **Total Metals** | | | | | | | | | | | | | | |
| Mercury | 10L0504 | | | mg/kg wet | N/A | 0.00833 | <0.00833 | | | | | | | |
| Arsenic | 10L0507 | | | mg/kg wet | N/A | 1.00 | <1.00 | | | | | | | |
| Barium | 10L0507 | | | mg/kg wet | N/A | 0.500 | <0.500 | | | | | | | |
| Cadmium | 10L0507 | | | mg/kg wet | N/A | 0.100 | <0.100 | | | | | | | |
| Chromium | 10L0507 | | | mg/kg wet | N/A | 1.00 | <1.00 | | | | | | | |
| Lead | 10L0507 | | | mg/kg wet | N/A | 0.100 | <0.100 | | | | | | | |
| Nickel | 10L0507 | | | mg/kg wet | N/A | 0.500 | <0.500 | | | | | | | |
| Selenium | 10L0507 | | | mg/kg wet | N/A | 1.00 | <1.00 | | | | | | | |
| Silver | 10L0507 | | | mg/kg wet | N/A | 0.0500 | <0.0500 | | | | | | | |
| **TCLP Metals by 1311/6000/7000** | | | | | | | | | | | | | | |
| Mercury | 10L0445 | | | mg/L | N/A | 0.000200 | <0.000200 | | | | | | | |
| Arsenic | 10L0488 | | | mg/L | N/A | 0.500 | <0.500 | | | | | | | |
| Barium | 10L0488 | | | mg/L | N/A | 0.100 | <0.100 | | | | | | | |
| Cadmium | 10L0488 | | | mg/L | N/A | 0.0500 | <0.0500 | | | | | | | |
| Chromium | 10L0488 | | | mg/L | N/A | 0.200 | <0.200 | | | | | | | |
| Lead | 10L0488 | | | mg/L | N/A | 0.400 | <0.400 | | | | | | | |
| Nickel | 10L0488 | | | mg/L | N/A | 0.0500 | <0.0500 | | | | | | | |
| Selenium | 10L0488 | | | mg/L | N/A | 0.100 | <0.100 | | | | | | | |
| Silver | 10L0488 | | | mg/L | N/A | 0.200 | <0.200 | | | | | | | |

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1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTL0351
Project: Plate Rite Project
Project Number: 030281.0064

Received: 12/07/10
Reported: 12/17/10 15:40

# LABORATORY DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | |
| **QC Source Sample: DTL0351-01** | | | | | | | | | | | | | |
| Cyanide, Total | 10L0385 | 2.69 | | mg/kg dry | N/A | 0.289 | 3.90 | | | | 37 | 200 | |
| **QC Source Sample: DTL0239-01** | | | | | | | | | | | | | |
| Dry Weight | 10L0443 | 94.3 | | % | N/A | 0.100 | 93.9 | | | | 1 | 20 | |
| **QC Source Sample: DTL0455-01** | | | | | | | | | | | | | |
| Dry Weight | 10L0443 | 85.2 | | % | N/A | 0.100 | 86.0 | | | | 1 | 20 | |
| **QC Source Sample: DTL0351-01** | | | | | | | | | | | | | |
| Chromium, hexavalent | 10L0502 | 2760 | | mg/kg dry | N/A | 1140 | 2830 | | | | 3 | 200 | |
| **QC Source Sample: DTL0577-03** | | | | | | | | | | | | | |
| Paint Filter Liquids | 10L0556 | 0.00 | | N/A | N/A | N/A | Present | | | | | 200 | |

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1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTL0351
Project: Plate Rite Project
Project Number: 030281.0064

Received: 12/07/10
Reported: 12/17/10 15:40

# LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | | |
| pH | 10L0381 | | 10.0 | S.U. | N/A | N/A | 10.1 | | 101 | | 98.6-101.4 | | | |
| Cyanide, Total | 10L0385 | | 2.50 | mg/kg wet | N/A | 0.250 | 2.28 | | 91 | | 75-123 | | | |
| Chromium, hexavalent | 10L0502 | | 40.0 | mg/kg wet | N/A | 25.0 | 39.5 | | 99 | | 67-122 | | | |
| Chromium, hexavalent | 10L0502 | | 40.0 | mg/kg wet | N/A | 25.0 | 33.3 | | 83 | | 67-122 | | | |
| **Total Metals** | | | | | | | | | | | | | | |
| Mercury | 10L0504 | | 0.0833 | mg/kg wet | N/A | 0.00833 | 0.0831 | | 100 | | 80-120 | | | |
| Arsenic | 10L0507 | | 50.0 | mg/kg wet | N/A | 2.00 | 47.3 | | 95 | | 80-120 | | | |
| Barium | 10L0507 | | 50.0 | mg/kg wet | N/A | 1.00 | 49.8 | | 100 | | 80-120 | | | |
| Cadmium | 10L0507 | | 50.0 | mg/kg wet | N/A | 0.200 | 47.4 | | 95 | | 80-120 | | | |
| Chromium | 10L0507 | | 50.0 | mg/kg wet | N/A | 2.00 | 47.8 | | 96 | | 80-120 | | | |
| Lead | 10L0507 | | 50.0 | mg/kg wet | N/A | 0.200 | 47.7 | | 95 | | 80-120 | | | |
| Nickel | 10L0507 | | 50.0 | mg/kg wet | N/A | 1.00 | 51.0 | | 102 | | 80-120 | | | |
| Selenium | 10L0507 | | 50.0 | mg/kg wet | N/A | 2.00 | 45.6 | | 91 | | 80-120 | | | |
| Silver | 10L0507 | | 50.0 | mg/kg wet | N/A | 0.100 | 48.2 | | 96 | | 80-120 | | | |
| **TCLP Metals by 1311/6000/7000** | | | | | | | | | | | | | | |
| Mercury | 10L0445 | | 0.00100 | mg/L | N/A | 0.000200 | 0.00118 | | 118 | | 80-120 | | | |
| Arsenic | 10L0488 | | 5.00 | mg/L | N/A | 0.500 | 5.16 | | 103 | | 80-120 | | | |
| Barium | 10L0488 | | 5.00 | mg/L | N/A | 0.100 | 5.18 | | 104 | | 80-120 | | | |
| Cadmium | 10L0488 | | 5.00 | mg/L | N/A | 0.150 | 5.23 | | 105 | | 80-120 | | | |
| Chromium | 10L0488 | | 5.00 | mg/L | N/A | 0.200 | 4.97 | | 99 | | 80-120 | | | |
| Lead | 10L0488 | | 5.00 | mg/L | N/A | 0.400 | 5.06 | | 101 | | 80-120 | | | |
| Nickel | 10L0488 | | 5.00 | mg/L | N/A | 0.0500 | 5.03 | | 101 | | 80-120 | | | |
| Selenium | 10L0488 | | 5.00 | mg/L | N/A | 0.500 | 5.21 | | 104 | | 80-120 | | | |
| Silver | 10L0488 | | 5.00 | mg/L | N/A | 0.200 | 4.99 | | 100 | | 80-120 | | | |

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EQ - Environmental Quality
1800 Carillon Blvd.
Cincinnati, OH 45240-2788
Erik Corbin

Work Order: DTL0351
Project: Plate Rite Project
Project Number: 030281.0064

Received: 12/07/10
Reported: 12/17/10 15:40

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | | |
| **QC Source Sample: DTL0351-01** | | | | | | | | | | | | | | |
| Cyanide, Total | 10L0385 | 2.69 | 2.89 | mg/kg dry | N/A | 0.289 | 6.35 | | 127 | | 75-123 | | | M14 |
| **QC Source Sample: DTL0351-01** | | | | | | | | | | | | | | |
| Chromium, hexavalent | 10L0502 | 2760 | 45.8 | mg/kg dry | N/A | 1150 | 2410 | | -754 | | 75-125 | | | M4 |
| **QC Source Sample: DTL0351-01** | | | | | | | | | | | | | | |
| Chromium, hexavalent | 10L0502 | 2760 | 46.1 | mg/kg dry | N/A | 1150 | 2300 | | -996 | | 75-125 | | | M4 |
| **Total Metals** | | | | | | | | | | | | | | |
| **QC Source Sample: DTL0555-01** | | | | | | | | | | | | | | |
| Mercury | 10L0504 | 0.131 | 0.121 | mg/kg dry | N/A | 0.0121 | 0.221 | 0.198 | 75 | 58 | 75-125 | 11 | 20 | M |
| **QC Source Sample: DTL0356-04** | | | | | | | | | | | | | | |
| Arsenic | 10L0507 | 2.80 | 164 | mg/kg dry | N/A | 6.55 | 153 | 153 | 92 | 96 | 75-125 | 1 | 20 | |
| Barium | 10L0507 | 373 | 164 | mg/kg dry | N/A | 3.28 | 565 | 596 | 118 | 143 | 75-125 | 5 | 20 | M |
| Cadmium | 10L0507 | 3.13 | 164 | mg/kg dry | N/A | 0.655 | 149 | 145 | 89 | 91 | 75-125 | 3 | 20 | |
| Chromium | 10L0507 | 48.0 | 164 | mg/kg dry | N/A | 6.55 | 202 | 206 | 94 | 101 | 75-125 | 2 | 20 | |
| Lead | 10L0507 | 20.6 | 164 | mg/kg dry | N/A | 0.655 | 169 | 164 | 91 | 92 | 75-125 | 3 | 20 | |
| Nickel | 10L0507 | 45.7 | 164 | mg/kg dry | N/A | 3.28 | 178 | 177 | 81 | 84 | 75-125 | 1 | 20 | |
| Selenium | 10L0507 | 2.56 | 164 | mg/kg dry | N/A | 6.55 | 142 | 139 | 85 | 88 | 75-125 | 2 | 20 | |
| Silver | 10L0507 | 4.18 | 164 | mg/kg dry | N/A | 0.328 | 147 | 143 | 87 | 89 | 75-125 | 2 | 20 | |
| **TCLP Metals by 1311/6000/7000** | | | | | | | | | | | | | | |
| **QC Source Sample: DTL0341-02** | | | | | | | | | | | | | | |
| Mercury | 10L0445 | 0.0000135 | 0.00100 | mg/L | N/A | 0.000200 | 0.00109 | 0.00107 | 108 | 106 | 75-125 | 2 | 20 | |
| **QC Source Sample: DTL0260-01** | | | | | | | | | | | | | | |
| Arsenic | 10L0488 | <0.5 | 5.00 | mg/L | N/A | 0.500 | 5.38 | 5.38 | 108 | 108 | 75-125 | 0 | 20 | |
| Barium | 10L0488 | 0.0885 | 5.00 | mg/L | N/A | 0.100 | 5.24 | 5.32 | 103 | 105 | 75-125 | 2 | 20 | |
| Cadmium | 10L0488 | 0.00510 | 5.00 | mg/L | N/A | 0.150 | 5.65 | 5.63 | 113 | 112 | 75-125 | 1 | 20 | |
| Chromium | 10L0488 | 0.0500 | 5.00 | mg/L | N/A | 0.200 | 4.98 | 4.98 | 99 | 99 | 75-125 | 0 | 20 | |
| Lead | 10L0488 | <0.4 | 5.00 | mg/L | N/A | 0.400 | 5.10 | 5.10 | 102 | 102 | 75-125 | 0 | 20 | |
| Nickel | 10L0488 | 0.0390 | 5.00 | mg/L | N/A | 0.0500 | 5.14 | 5.14 | 102 | 102 | 75-125 | 0 | 20 | |
| Selenium | 10L0488 | 0.222 | 5.00 | mg/L | N/A | 0.500 | 5.64 | 5.60 | 108 | 108 | 75-125 | 1 | 20 | |
| Silver | 10L0488 | <0.2 | 5.00 | mg/L | N/A | 0.200 | 5.60 | 5.18 | 112 | 104 | 75-125 | 8 | 20 | |

| | | | | | |
|---|---|---|---|---|---|
| EQ - Environmental Quality | Work Order: | DTL0351 | Received: | 12/07/10 |
| 1800 Carillon Blvd. | Project: | Plate Rite Project | Reported: | 12/17/10 15:40 |
| Cincinnati, OH 45240-2788 | Project Number: | 030281.0064 | | |
| Erik Corbin | | | | |

## CERTIFICATION SUMMARY

*Any abnormalities or departures from sample acceptance policy shall be documented on the Chain of Custody and/or Case Narrative included with this report.*

*For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com*

*Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .*

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **M** | The MS, MSD, and/or RPD are outside of acceptance limits due to matrix interference. Please see Blank Spike (LCS). |
| **M14** | The MS/MSD recoveries are outside of laboratory established control limits. |
| **M4** | The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS). |
| **RL1** | Reporting limit raised due to sample matrix effects. |
| **RL3** | Reporting limit raised due to high concentrations of non-target analytes. |

## ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted in the units.

## ANALYSIS LOCATIONS

Any analyses listed below were analyzed in satellite facilities

**TestAmerica Dayton**

**Dayton**
4738 Gateway Circle

Dayton, OH 45440
phone 937.294.6856 fax 937.499.1249

# Chain of Custody Record

DTL0351

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**TestAmerica Laboratories, Inc.**

| Client Contact | Project Manager: Steve Letany | Site Contact: Steve Letany | Date:12/7/10 | COC No: |
|---|---|---|---|---|
| Environmental Quality Management, Inc. | Tel/Fax: 513-825-7500 | Lab Contact: Shelly Howard | Carrier: | 1 of 1 COCs |
| 1800 Carillon Blvd. | Analysis Turnaround Time | | | Job No. 030281.0064 |
| Cincinnati, Ohio 45240 | Calendar ( C ) or Work Days (W) W | | | |
| (513) 825-7500 Phone | TAT if different from Below _____ | | | |
| (513) 825-9728 FAX | ☐ 2 weeks | | | SDG No. |
| Project Name:USEPA/Plate Rite Plating | ☒ 1 week | | | |
| Site:030281.0064 | ☐ 2 days | | | |
| P O # | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. | Filtered Sample | Total RCRA Metals plus Ni | TCLP RCRA Metals Plus Ni | pH | Total Cn | Paint Filter | Total Hexavalent Chromium | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRWS-07 | 12/7/2010 | 1000 | Solid | | 2 | N | X | X | X | X | X | X | |

**Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other None**

***Possible Hazard Identification***
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For _____ Months*

**Special Instructions/QC Requirements & Comments: If total Cn is above 250 run amenable Cn. If amenable Cn is above 500 run reactive Cn**

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Robert M May<br>ROBERT M MAY | CPL-CRIM | 12-7-10 14:15 | [signature] | TestAmedica | 12-7-10 14:15 |
| [signature] | TestAmedica | 12-7-10 15:30 | [signature] | TA | 12-7-10 15:30 |
| | | | | | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# Cooler/Sample Receipt

☐ MSDS or Known Hazard Information Supplied by Client
☐ Bottle stickers applied ☐ ELEMENT comment entered ☐ MSDS/COC scanned/emailed to EH&S
☐ Discrepancies Client ID Environmental Quality Management
☐ Short Hold Work Order # DTL0351
☐ Rush ☐24hr ☐2day ☐3day ☐5day ☐other _____
Receipt evaluation performed by - Initials: RTS Date: 12-7-10 Time: 15:30

**Method of Shipment:**
☐ Walk-In Client ☒ TestAmerica Field/Courier
☐ Other Client/3rd Party Courier _____
☐ Fed Ex Tracking # _____
☐ UPS Tracking # _____
☐ Other _____

**Shipping Container Type:**
☒ Cooler ☐ Box
☐ None ☐ Other _____

**Packing Materials:**
☒ Plastic Bags ☐ Foam
☒ Bubble Wrap ☐ Paper
☐ Packing Peanuts ☐ None
☐ Other _____

**Custody Seals Intact:**
☒ Yes ☐ No
☐ N/A (not used or required)

**Cooling Materials:**
☒ Ice *(solid)* ☐ Ice *(Melted)*
☐ Blue Ice ☐ None
☐ Other _____

Are there any soil samples from areas requiring USDA quarantine? *(AL, AR, AZ, CA, FL, GA, HI, ID, LA MS, NC, NM, NY, OK, SC, TN, TX, VA, Puerto Rico, Virgin Islands, any other Non-Domestic area)* ☐ No ☐ Yes (If Yes, *Project Manager must be notified*).

**Receipt Temperatures** ☐ Check if Additional Sheets Required

| Thermometer ID | Observed (°C) | Corrected (°C) | Temp Blank | Sample Temp | Received on same day sampled? | Acceptable?* | Cooler ID | Note Affected Samples if temperature not acceptable |
|---|---|---|---|---|---|---|---|---|
| 6 TRGun | 11.9 | 10.9 | ☐ | ☒ | ☒Yes ☐No | ☒Yes ☐No | | |
| | | | ☐ | ☐ | ☐Yes ☐No | ☐Yes ☐No | | |
| | | | ☐ | ☐ | ☐Yes ☐No | ☐Yes ☐No | | |

* Receipt temperatures are considered acceptable if the samples are received on the same day they were collected & show signs that the cooling process has started. Temperature acceptance for most tests is ≤6.0°C, but not frozen. For additional information, please refer to SOP DT-SCA-004 *Sample Receipt and Login, Attachment 2 – Holding Times, Preservation and Container Requirements.*

| Receipt Questions** | Y | N | n/a | "No" answers require additional comment |
|---|---|---|---|---|
| COC present & TA receipt signature, date, & time properly documented? | ✓ | | | |
| Containers & labels in good condition? *(unbroken, not leaking, appropriately filled, labels legible & attached)* | ✓ | | | |
| Appropriate containers used & adequate volume provided? | ✓ | | | |
| Number of sample containers match COC? | ✓ | | | |
| Samples received within hold time? | ✓ | | | |
| Samples submitted for GRO and Volatiles analyses (8260, 624, 524) received without headspace? | | | ✓ | |
| Was a Trip Blank received with VOA samples? | | | ✓ | |
| Were the samples free of any questionable physical conformities? For example, field duplicates or multiple bottles of the same sample do not significantly vary in appearance (color, proportion of solids, etc.) | ✓ | | | |
| Were the COC, bottle labels, and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client? | ✓ | | | |

** May not be applicable if samples are not for compliance testing

**Client Contact Record**
Contact via: ☐ Phone ☐ Email ☐ Other _____ Person Contacted: _____ Date/Time: _____
☐ Discrepancy allowance agreement is on record in the client project file.
Discussion/Resolution:

*Any additional documentation and clarification from client must be noted in the narrative and/or scanned into the COC directory.*

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Reviewed by PM/Signature Date Page of