



MWH

LABORATORIES

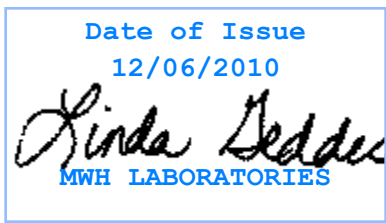
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Tronox LLC
PO Box 55
Henderson, NV 89009
Attention: Susan Crowley
Fax: 702-651-2310



Report#: 344166
Project: CWA-RCRA
Group: LV Wash

LXG: Linda Geddes
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

Acknowledgement of Samples Received

Tronox LLC
 PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234

Customer Code: TRONOX
 Folder #: 344166
 Project: CWA-RCRA
 Sample Group: LV Wash
 Project Manager: Linda Geddes
 Phone: (626) 386-1163

The following samples were received from you on **September 21, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

| Sample # | Sample ID | Sample Date |
|--------------|------------------------|-------------------------------|
| 201009210241 | LVW UPGRADIENT | Sep 20, 2010 06:27 |
| | @ACOPEDD | Ammonia Nitrogen |
| | Nitrite Nitrogen by IC | Perchlorate |
| | | Nitrate as Nitrogen by IC |
| | | Total Inorganic Nitrogen-Calc |
| 201009210243 | LVW 6.05 | Sep 20, 2010 06:44 |
| | @ACOPEDD | Ammonia Nitrogen |
| | Nitrite Nitrogen by IC | Perchlorate |
| | | Nitrate as Nitrogen by IC |
| | | Total Inorganic Nitrogen-Calc |
| 201009210244 | LVW 5.5 | Sep 20, 2010 06:52 |
| | @ACOPEDD | Ammonia Nitrogen |
| | Nitrite Nitrogen by IC | Perchlorate |
| | | Nitrate as Nitrogen by IC |
| | | Total Inorganic Nitrogen-Calc |
| 201009210245 | LVW 0.55 | Sep 20, 2010 07:30 |
| | Ammonia Nitrogen | Perchlorate |
| | | Total phosphorus as P |

Test Description

@ACOPEDD -- Gross Alpha by Co-precipitation (Sub)



CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES

750 Royal Oaks Drive, Suite #100 Monrovia, CA. 91016.

(626) 386-1100 (800) 566-5227

344/1066

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS/05

SAMPLE TEMP, RECEIPT AT LAB: 5

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

| | |
|---|-----------------------|
| COMPANY / PROJECT NAME | PROJECT JOB # / P.O.# |
| TRONOX | CWA-RCRA |
| Bi-Monthly Permit Compliance - Wash Samples | |
| TRONOX LLC - Henderson Plant | |
| PO Box 55 | |
| Henderson, NV 89009 | |
| Sampler Signature - Michele Brown | |
| Susan L'ovley | (702) 651-2234 |

| TIME | DATE | LOCATION | IDENTIFIER, STATE ID# | MATRIX * | GRAB | COMP | REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES | | | | | | | | | | ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line) | SAMPLER COMMENTS | | | | | | | |
|------|-----------|----------|-----------------------|----------|------|------|---|------------------|---|---|---|---|---|---|---|---|--|------------------|---|---|---|---|---|----------|----------|
| | | | | | | | Bi-monthly Permit 002 | see bottle order | | | | | | | | | | | | | | | | | |
| 627 | 9/20/2010 | | LVW UPGRAIDENT | RSW | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | BO #8733 |
| 644 | 9/20/2010 | | LVW 6.05 | RSW | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | BO #8733 | |
| 652 | 9/20/2010 | | LVW 5.5 | RSW | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | BO #8733 | |
| 730 | 9/20/2010 | | LVW 0.55 | RSW | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | BO #8733 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

* MATRIX TYPES:
 Reported by Volume:
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water
 Reported by Weight:
 SO = Soil
 SL = Sludge
 RGW = Raw Ground Water
 RSW = Raw Surface Water
 CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

| | | | | | |
|---------------------------------------|-----------|---------------|-----------------------------|-----------|---------|
| RELINQUISHED BY: <u>Michele Brown</u> | SIGNATURE | PRINT NAME | COMPANY/TITLE | DATE | TIME |
| RECEIVED BY: <u>Michele Brown</u> | | Michele Brown | Veolia Water for Tronox LLC | 9/20/2010 | 12:00PM |
| RELINQUISHED BY: <u>Joc Sanchez</u> | | Joc Sanchez | MW+ | 9/21/10 | 1105 |
| RECEIVED BY: | | | | | |

| |
|---------------|
| Group# |
| Date Sampled |
| Date Received |

Linda Geddes Your MWHL Project Manager

Client Code TRONOX
 Project Code CWA-RCRA Bottle Orders
 Group Name LV Wash
 PO# / Job#

BO #: 21971

Created By: LXG

Order Date: 09/02/2010

Bottle Orders

**Sampler: please return
 this paper with your samples**

Ship Sample Kits to

Veolia Water-Tronox LLC
 Gate 1
 560 West Lake Mead Pkwy
 Henderson, NV 89015
 Attn: Wendy Prescott
 Phone:
 Fax:

Send Report to

Tronox LLC
 PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234
 Fax: 702-651-2310

Billing Address

Tronox LLC
 PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234
 Fax: 702-651-2310

| |
|------------|
| Ship By: |
| 08/23/2010 |

| # of Samples | Tests | Qtelime# | Bottles - Qty for each sample, type & preservative if any | UN DOT # |
|--------------|--|----------|---|----------|
| 3 | @ASPHA | | 1 500ml poly 2ml 18% HNO3+125ml poly/no pres | |
| 3 | Ammonia Nitrogen | | 1 250ml poly 0.5ml H ₂ SO ₄ (50%) | |
| 1 | Ammonia Nitrogen, Total phosphorus as P | | 1 250ml poly 0.5ml H ₂ SO ₄ (50%) | |
| 3 | Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Total Inorganic Nitrogen-Calc | | 1 125ml poly no preservative | |
| 4 | Perchlorate Sterile Filtered | | 1 125 ml poly + syringe, filter 125ml STERILE bottle | |

Comments

| |
|--|
| Biweekly Las Vegas Wash T-P, NH3, CLO4 on LVW 0.55 clo4, alpha, no3, no2, n-inor, NH3 on LVW 5.5, LVW 6.05, LVW Upgradient PUT IN LARGER COOLER WITH MORE BLUE ICE DURING SUMMER MONTHS |
|--|

THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPER'S NUMBER: 144471

RECEIVED subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

From: TRONOX LLC

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said Carrier (the word Carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another Carrier on the route to said destination. It is mutually agreed, as to each Carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the Shipper and accepted for himself and his assigns.

| | | | |
|--|---|--|--|
| CARRIER Federal Express | | Date 9/20/10 | FROM NO. STATION: STATE Henderson, NV 89015 |
| MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400 | | Authorization S. Crowley | |
| FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect | | FULL NAME OF SHIPPER TRONOX LLC | |
| N/AR | | CUSTOMER PO OR REQ'N NO. | CODE NO. WCN IS 10181 |
| N/AR | | SHIPPED FROM Henderson, NV | If it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight. |
| LINE NO. | DESCRIPTION AND CLASSIFICATION | STOCK NO. | TOTAL QUANTITY |
| | Ice Chest with water samples 2 bottles – Influent, Effluent 2 bottles sterile filtered 25ml CLO4 Not Regulated | | 1 COOLER |
| | | | Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement: The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TRONOX LLC |
| | | | The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement. |
| TRUCK SHIPMENTS | | FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT | |
| PLACARDS OFFERED | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | PLACARDS ACCEPTED | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| NUMBER OF PACKAGES | GROSS WEIGHT | TARE WEIGHT | NET WEIGHT |
| | | 0 | |
| 1 | TOTAL GROSS WEIGHT 10 | TOTAL TARE WEIGHT 0 | 10 |
| NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____ | | | 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US. |
| "Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission" | | | |
| THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. | | | |
| TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859 | PER Chuck Whitney | AGENT 5/23 | PER |

From: Origin ID: LASA (702) 651-2200
Tronox
Tronox
560 W. Lake Mead Parkway

Henderson, NV 89015



Ship Date: 20SEP10
ActWgt: 29.0 LB
CAD: 100845654/INET3090

Delivery Address Bar Code

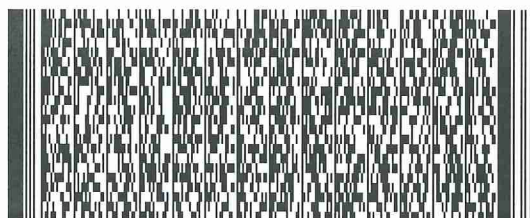


Ref # MSO #144472
Invoice #
PO #
Dept #

SHIP TO: (626) 568-6400 **BILL SENDER**
Attn: Sample Receiving
Montgomery Watson Labs
750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016

J10301008090225

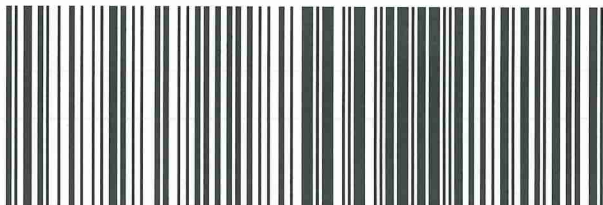


TRK# 7962 6260 6015
0201

TUE - 21 SEP A1
PRIORITY OVERNIGHT

91016
CA-US
BUR

QZ WHPA



50AG3/8292/2780

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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December 06, 2010

Ms. Susan Crowley
Tronox
PO Box 55
Henderson, NV 89009

Subject: Case Narrative report 344166


Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on September 21, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:
For the MWH Laboratories data the following issues were observed:

Other Observations:

Gross Alpha was submitted by Pace Labs. Please see their case narrative for any issues.

Sincerely,



Linda Geddes
Project Manager



MWH

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Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Laboratory Comments
Report: #344166

Client specific Comments

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Signature:  _____

Group Comments

Analytical results for Gross Alpha are submitted by Pace Analytical Services, Greensburg, PA



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1 800 566 LABS (1 800 566 5227)

Laboratory
Hits Report: 344166

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/21/2010

| Analyzed | Analyte | Sample ID | Result | Federal MCL | Units | MRL |
|------------|---------|--------------------------------|------------------------------|----------------|-------|------|
| | | 201009210241 | <u>LVW UPGRADIENT</u> | | | |
| 11/22/2010 | 21:45 | Gross Alpha by Coprecipitation | 3.86 | 15 | pCi/L | 2.5 |
| 09/21/2010 | 12:31 | Nitrate as Nitrogen by IC | 15 | 10 | mg/L | 0.5 |
| 10/05/2010 | 20:32 | Perchlorate | 22 | 6 | ug/L | 4 |
| 09/28/2010 | 11:53 | Total Inorganic Nitrogen-Calc | 15 | | mg/L | 0.2 |
| | | 201009210243 | <u>LVW 6.05</u> | | | |
| 11/22/2010 | 21:45 | Gross Alpha by Coprecipitation | 3.96 | 15 | pCi/L | 3 |
| 09/21/2010 | 12:56 | Nitrate as Nitrogen by IC | 14 | 10 | mg/L | 0.5 |
| 10/05/2010 | 20:55 | Perchlorate | 19 | 6 | ug/L | 4 |
| 09/28/2010 | 11:53 | Total Inorganic Nitrogen-Calc | 14 | | mg/L | 0.2 |
| | | 201009210244 | <u>LVW 5.5</u> | | | |
| 11/22/2010 | 21:45 | Gross Alpha by Coprecipitation | 4.96 | 15 | pCi/L | 3 |
| 09/21/2010 | 12:43 | Nitrate as Nitrogen by IC | 14 | 10 | mg/L | 0.5 |
| 10/05/2010 | 21:17 | Perchlorate | 19 | 6 | ug/L | 4 |
| 09/28/2010 | 11:53 | Total Inorganic Nitrogen-Calc | 14 | | mg/L | 0.2 |
| | | 201009210245 | <u>LVW 0.55</u> | | | |
| 10/05/2010 | 21:40 | Perchlorate | 52 | 6 | ug/L | 4 |
| 09/23/2010 | 20:19 | Total phosphorus as P | 0.073 | | mg/L | 0.02 |



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Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 344166

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/21/2010

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution

LVW UPGRADIENT (201009210241)

Sampled on 09/20/2010 0627

SM 7110C - Gross Alpha by Co-precipitation (Sub)

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Rows for SM 7110C tests.

CALC_300.0 - Total Inorganic Nitrogen-Calc

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Row for CALC_300.0 test.

EPA 350.1 - Ammonia Nitrogen

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Row for EPA 350.1 test.

EPA 300.0 - Nitrate, Nitrite by EPA 300.0

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Rows for EPA 300.0 tests.

EPA 314.0 - Perchlorate

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Row for EPA 314.0 test.

LVW 6.05 (201009210243)

Sampled on 09/20/2010 0644

SM 7110C - Gross Alpha by Co-precipitation (Sub)

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Rows for SM 7110C tests.

CALC_300.0 - Total Inorganic Nitrogen-Calc

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Row for CALC_300.0 test.

EPA 350.1 - Ammonia Nitrogen

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Row for EPA 350.1 test.

EPA 300.0 - Nitrate, Nitrite by EPA 300.0

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Rows for EPA 300.0 tests.

EPA 314.0 - Perchlorate

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Row for EPA 314.0 test.

Rounding on totals after summation.
(c) - indicates calculated results

Sample Quantitation Limit (SQL) =
MDL * Dilution Factor



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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 344166

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/21/2010

| Prepared | Analyzed | QC Ref # | Method | Analyte | Result | Units | MDL | MRL | SQL | Dilution |
|--|----------|----------|------------------------|--------------------------------|--------|-------|--------|------|--------|-----------------------------------|
| <u>LVW 5.5 (201009210244)</u> | | | | | | | | | | Sampled on 09/20/2010 0652 |
| SM 7110C - Gross Alpha by Co-precipitation (Sub) | | | | | | | | | | |
| 11/22/2010 | 21:45 | | (SM 7110C) | Alpha, Min Detectable Activity | 2.99 | pCi/L | | | 0.0000 | 1 |
| 11/22/2010 | 21:45 | | (SM 7110C) | Alpha, Two Sigma Error | 2.17 | pCi/L | | | 0.0000 | 1 |
| 11/22/2010 | 21:45 | | (SM 7110C) | Gross Alpha by Coprecipitation | 4.96 | pCi/L | | 3 | 0.0000 | 1 |
| CALC_300.0 - Total Inorganic Nitrogen-Calc | | | | | | | | | | |
| 09/28/2010 | 11:53 | | (CALC_300.0) | Total Inorganic Nitrogen-Calc | 14 | mg/L | 0.20 | 0.2 | 0.20 | 1 |
| EPA 350.1 - Ammonia Nitrogen | | | | | | | | | | |
| 09/27/2010 | 17:40 | 570727 | (EPA 350.1) | Ammonia Nitrogen | 0.026J | mg/L | 0.0030 | 0.05 | 0.0030 | 1 |
| EPA 300.0 - Nitrate, Nitrite by EPA 300.0 | | | | | | | | | | |
| 09/21/2010 | 12:43 | 569942 | (EPA 300.0) | Nitrate as Nitrogen by IC | 14 | mg/L | 0.0050 | 0.5 | 0.025 | 5 |
| 09/21/2010 | 12:43 | 569942 | (EPA 300.0) | Nitrite Nitrogen by IC | ND | mg/L | 0.0040 | 0.25 | 0.020 | 5 |
| EPA 314.0 - Perchlorate | | | | | | | | | | |
| 10/05/2010 | 21:17 | 571650 | (EPA 314.0) | Perchlorate | 19 | ug/L | 0.25 | 4 | 0.25 | 1 |
| <u>LVW 0.55 (201009210245)</u> | | | | | | | | | | Sampled on 09/20/2010 0730 |
| EPA 350.1 - Ammonia Nitrogen | | | | | | | | | | |
| 09/27/2010 | 17:41 | 570727 | (EPA 350.1) | Ammonia Nitrogen | 0.023J | mg/L | 0.0030 | 0.05 | 0.0030 | 1 |
| EPA 314.0 - Perchlorate | | | | | | | | | | |
| 10/05/2010 | 21:40 | 571650 | (EPA 314.0) | Perchlorate | 52 | ug/L | 0.25 | 4 | 0.25 | 1 |
| SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P) | | | | | | | | | | |
| 09/23/2010 | 20:19 | 570676 | (SM4500-PE/EP A 365.1) | Total phosphorus as P | 0.073 | mg/L | 0.0084 | 0.02 | 0.0084 | 1 |

Rounding on totals after summation.
(c) - indicates calculated results

Sample Quantitation Limit (SQL) =
MDL * Dilution Factor



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Laboratory
QC Summary: 344166

Tronox LLC

QC Ref # 569942 - Nitrate, Nitrite by EPA 300.0

201009210241 LVW UPGRADIENT
201009210243 LVW 6.05
201009210244 LVW 5.5

Analysis Date: 09/21/2010

Analyzed by: S XK
Analyzed by: S XK
Analyzed by: S XK

QC Ref # 570676 - Total phosphorus as P (T-P)

201009210245 LVW 0.55

Analysis Date: 09/23/2010

Analyzed by: NJR

QC Ref # 570727 - Ammonia Nitrogen

201009210241 LVW UPGRADIENT
201009210243 LVW 6.05
201009210244 LVW 5.5
201009210245 LVW 0.55

Analysis Date: 09/27/2010

Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR

QC Ref # 571650 - Perchlorate

201009210241 LVW UPGRADIENT
201009210243 LVW 6.05
201009210244 LVW 5.5
201009210245 LVW 0.55

Analysis Date: 10/05/2010

Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE



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Laboratory
QC Report: 344166

Tronox LLC

| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|--|---------------------------|--------|--------|-----------|----------------------------------|-----------|------------|--------------|------|
| QC Ref# 569942 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0 | | | | | Analysis Date: 09/21/2010 | | | | |
| LCS1 | Nitrate as Nitrogen by IC | | 2.5 | 2.52 | mg/L | 101 | (90-110) | | |
| LCS2 | Nitrate as Nitrogen by IC | | 2.5 | 2.51 | mg/L | 100 | (90-110) | 20 | 0.40 |
| MBLK | Nitrate as Nitrogen by IC | | | <0.10 | mg/L | | | | |
| MRL_CHK | Nitrate as Nitrogen by IC | | 0.05 | 0.0507 | mg/L | 101 | (50-150) | | |
| MS_201009210080 | Nitrate as Nitrogen by IC | 0.47 | 1.3 | 1.88 | mg/L | 112 | (80-120) | | |
| MS_201009210269 | Nitrate as Nitrogen by IC | 5.1 | 1.3 | 6.45 | mg/L | 106 | (80-120) | | |
| MSD_201009210080 | Nitrate as Nitrogen by IC | 0.47 | 1.3 | 1.85 | mg/L | 110 | (80-120) | 20 | 1.8 |
| MSD_201009210269 | Nitrate as Nitrogen by IC | 5.1 | 1.3 | 6.46 | mg/L | 107 | (80-120) | 20 | 0.94 |
| LCS1 | Nitrite Nitrogen by IC | | 1.0 | 0.972 | mg/L | 97 | (90-110) | | |
| LCS2 | Nitrite Nitrogen by IC | | 1.0 | 0.967 | mg/L | 97 | (90-110) | 20 | 0.52 |
| MBLK | Nitrite Nitrogen by IC | | | <0.10 | mg/L | | | | |
| MRL_CHK | Nitrite Nitrogen by IC | | 0.05 | 0.0475 | mg/L | 95 | (50-150) | | |
| MS_201009210080 | Nitrite Nitrogen by IC | ND | 0.5 | 0.509 | mg/L | 102 | (80-120) | | |
| MS_201009210269 | Nitrite Nitrogen by IC | ND | 0.5 | 0.463 | mg/L | 93 | (80-120) | | |
| MSD_201009210080 | Nitrite Nitrogen by IC | ND | 0.5 | 0.503 | mg/L | 101 | (80-120) | 20 | 0.99 |
| MSD_201009210269 | Nitrite Nitrogen by IC | ND | 0.5 | 0.469 | mg/L | 94 | (80-120) | 20 | 1.2 |
| QC Ref# 570676 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1 | | | | | Analysis Date: 09/23/2010 | | | | |
| LCS1 | Total phosphorus as P | | 0.4 | 0.374 | mg/L | 94 | (90-110) | | |
| LCS2 | Total phosphorus as P | | 0.4 | 0.377 | mg/L | 94 | (90-110) | 20 | 0.80 |
| MBLK | Total phosphorus as P | | | <0.02 | mg/L | | | | |
| MRL_CHK | Total phosphorus as P | | 0.02 | 0.0174 | mg/L | 87 | (50-150) | | |
| MS_201009180087 | Total phosphorus as P | 0.47 | 0.4 | 0.911 | mg/L | 110 | (90-110) | | |
| MS2_201009180088 | Total phosphorus as P | 0.47 | 0.4 | 0.902 | mg/L | 108 | (90-110) | | |
| MSD_201009180087 | Total phosphorus as P | 0.47 | 0.4 | 0.910 | mg/L | 110 | (90-110) | 20 | 0.0 |
| QC Ref# 570727 - Ammonia Nitrogen by EPA 350.1 | | | | | Analysis Date: 09/27/2010 | | | | |
| LCS1 | Ammonia Nitrogen | | 1.0 | 1.06 | mg/L | 106 | (90-110) | | |
| LCS2 | Ammonia Nitrogen | | 1.0 | 1.06 | mg/L | 106 | (90-110) | 20 | 0.0 |
| MBLK | Ammonia Nitrogen | | | <0.05 | mg/L | | | | |
| MRL_CHK | Ammonia Nitrogen | | 0.05 | 0.0400 | mg/L | 80 | (50-150) | | |
| MS_201009210307 | Ammonia Nitrogen | ND | 1.0 | 1.05 | mg/L | 105 | (90-110) | | |
| MS2_201009210309 | Ammonia Nitrogen | ND | 1.0 | 1.06 | mg/L | 106 | (90-110) | | |
| MSD_201009210307 | Ammonia Nitrogen | ND | 1.0 | 1.06 | mg/L | 106 | (90-110) | 20 | 0.95 |
| QC Ref# 571650 - Perchlorate by EPA 314.0 | | | | | Analysis Date: 10/05/2010 | | | | |
| LCS1 | Perchlorate | | 25 | 24.7 | ug/L | 99 | (85-115) | | |
| LCS2 | Perchlorate | | 25 | 24.3 | ug/L | 97 | (85-115) | 15 | 1.6 |

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

13/23

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



MWH

LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report: 344166

Tronox LLC
(continued)

| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|------------------|-------------|--------|--------|-----------|-------|-----------|------------|--------------|------|
| MBLK | Perchlorate | | | <4 | ug/L | | | | |
| MRL_CHK | Perchlorate | | 4.0 | 3.27 | ug/L | 82 | (75-125) | | |
| MRLLW | Perchlorate | | 2.0 | 1.99 | ug/L | 100 | (50-150) | | |
| MS_201009210307 | Perchlorate | ND | 25 | 24.3 | ug/L | 97 | (80-120) | | |
| MSD_201009210307 | Perchlorate | ND | 25 | 24.8 | ug/L | 99 | (80-120) | 15 | 1.9 |

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

14/23

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)

November 23, 2010

Ms. Jaclyn L. Contreras
MWH Americas, Inc.
Royal Oaks Dr.
Suite 100
Monrovia, CA 910163629

RE: Project: PACE-PA 344166
Pace Project No.: 3037414

Dear Ms. Contreras:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, MWH Americas, Inc.

REPORT OF LABORATORY ANALYSIS

15/23

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CERTIFICATIONS

Project: PACE-PA 344166

Pace Project No.: 3037414

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

16/23

Page 2 of 8

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SAMPLE SUMMARY

Project: PACE-PA 344166

Pace Project No.: 3037414

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|--------------|--------|----------------|----------------|
| 3037414001 | 201009210241 | Water | 09/20/10 06:27 | 11/17/10 10:30 |
| 3037414002 | 201009210243 | Water | 09/20/10 06:44 | 11/17/10 10:30 |
| 3037414003 | 201009210244 | Water | 09/20/10 06:52 | 11/17/10 10:30 |

REPORT OF LABORATORY ANALYSIS

17/23

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SAMPLE ANALYTE COUNT

Project: PACE-PA 344166

Pace Project No.: 3037414

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|--------------|----------|----------|-------------------|------------|
| 3037414001 | 201009210241 | SM 7110C | SJH | 1 | PASI-PA |
| 3037414002 | 201009210243 | SM 7110C | SJH | 1 | PASI-PA |
| 3037414003 | 201009210244 | SM 7110C | SJH | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

18/23

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PROJECT NARRATIVE

Project: PACE-PA 344166
Pace Project No.: 3037414

Method: SM 7110C
Description: 7110C Gross Alpha
Client: MWH Laboratories
Date: November 23, 2010

General Information:

3 samples were analyzed for SM 7110C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

19/23

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ANALYTICAL RESULTS

Project: PACE-PA 344166
Pace Project No.: 3037414

| Sample: 201009210241 | | Lab ID: 3037414001 | Collected: 09/20/10 06:27 | Received: 11/17/10 10:30 | Matrix: Water | |
|----------------------|----------|---------------------------|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) | Units | Analyzed | CAS No. | Qual |
| Gross Alpha | SM 7110C | 3.86 ± 1.87 (2.54) | pCi/L | 11/22/10 21:45 | 12587-46-1 | |

| Sample: 201009210243 | | Lab ID: 3037414002 | Collected: 09/20/10 06:44 | Received: 11/17/10 10:30 | Matrix: Water | |
|----------------------|----------|---------------------------|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) | Units | Analyzed | CAS No. | Qual |
| Gross Alpha | SM 7110C | 3.96 ± 2.01 (2.95) | pCi/L | 11/22/10 21:45 | 12587-46-1 | |

| Sample: 201009210244 | | Lab ID: 3037414003 | Collected: 09/20/10 06:52 | Received: 11/17/10 10:30 | Matrix: Water | |
|----------------------|----------|---------------------------|---------------------------|--------------------------|---------------|------|
| PWS: | | Site ID: | Sample Type: | | | |
| Parameters | Method | Act ± Unc (MDC) | Units | Analyzed | CAS No. | Qual |
| Gross Alpha | SM 7110C | 4.96 ± 2.17 (2.99) | pCi/L | 11/22/10 21:45 | 12587-46-1 | |

QUALITY CONTROL DATA

Project: PACE-PA 344166

Pace Project No.: 3037414

QC Batch: RADC/6766

Analysis Method: SM 7110C

QC Batch Method: SM 7110C

Analysis Description: 7110C Gross Alpha

Associated Lab Samples: 3037414001, 3037414002, 3037414003

METHOD BLANK: 240239

Matrix: Water

Associated Lab Samples: 3037414001, 3037414002, 3037414003

| Parameter | Act ± Unc (MDC) | Units | Analyzed | Qualifiers |
|-------------|----------------------|-------|----------------|------------|
| Gross Alpha | 0.556 ± 0.939 (2.09) | pCi/L | 11/22/10 13:29 | |

QUALIFIERS

Project: PACE-PA 344166

Pace Project No.: 3037414

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

Quality Control Sample Performance Assessment



Test: Gross Alpha
 Analyst: SJH
 Date: 11/23/2010
 Worklist: 6766
 Matrix (DW, W, F, Solid): DW

| Method Blank Assessment | |
|-------------------------------------|-------|
| MB concentration: | 0.229 |
| M/B Counting Uncertainty: | 0.482 |
| MB MDC: | 1.121 |
| MB Numerical Performance Indicator: | 0.93 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | |
|--|----------------|-----------------|
| Count Date: | LCS 11/22/2010 | LSCD 11/22/2010 |
| Spike I.D.: | 08-026 | 08-026 |
| Spike Concentration (pCi/mL): | 30.198 | 30.198 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.200 | 0.200 |
| Target Conc. (pCi/L, g, F): | 15.089 | 15.089 |
| Uncertainty (Calculated): | 0.947 | 0.947 |
| Result (pCi/L, g, F): | 15.179 | 15.126 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 2.481 | 2.493 |
| Numerical Performance Indicator: | 0.06 | 0.02 |
| Percent Recovery: | 100.53% | 100.18% |
| Status vs Numerical Indicator: | N/A | N/A |
| Status vs Recovery: | Pass | Pass |

23/23

| Duplicate Sample Assessment | |
|--|--------|
| Sample I.D.: | LCS |
| Duplicate Sample I.D.: | LCS |
| Sample Result (pCi/L, g, F): | 15.179 |
| Duplicate Result (pCi/L, g, F): | 2.481 |
| Sample Duplicate Result (pCi/L, g, F): | 15.126 |
| Duplicate Duplicate Result (pCi/L, g, F): | 2.493 |
| Are sample and/or duplicate results below MDC? | NO |
| Duplicate Numerical Performance Indicator: | 0.030 |
| Duplicate RPD: | 0.35% |
| Duplicate Status vs Numerical Indicator: | N/A |
| Duplicate Status vs RPD: | Pass |

Handwritten signature and date: SJH 11/23/10

| Sample Matrix Spike Control Assessment | |
|---|--------------|
| Sample Collection Date: | 11/20/2010 |
| Sample I.D.: | 3521596010 |
| Sample MS I.D.: | 3521596010MS |
| Sample MSD I.D.: | 08-026 |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 30.198 |
| Spike Volume Used in MS (mL): | 0.20 |
| MS Aliquot (L, g, F): | 0.050 |
| MS Target Conc. (pCi/L, g, F): | 120.793 |
| MSD Aliquot (L, g, F): | 7.576 |
| MSD Target Conc. (pCi/L, g, F): | 18.292 |
| Spike uncertainty (calculated): | 2.576 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 100.933 |
| Sample Matrix Spike Result: | 13.683 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | -4.717 |
| Sample Matrix Spike Duplicate Result: | 68.42% |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | N/A |
| MS Numerical Performance Indicator: | Pass |
| MS Percent Recovery: | |
| MSD Numerical Performance Indicator: | |
| MSD Percent Recovery: | |
| MS Status vs Numerical Indicator: | |
| MSD Status vs Numerical Indicator: | |
| MS Status vs Recovery: | |
| MSD Status vs Recovery: | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|--|
| Sample I.D.: | Sample MS I.D.: |
| Sample MS I.D.: | Sample MSD I.D.: |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | Sample Matrix Spike Result: |
| Sample Matrix Spike Duplicate Result: | Sample Matrix Spike Duplicate Result: |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | Duplicate Numerical Performance Indicator: |
| Duplicate Numerical Performance Indicator: | MS/MSD Duplicate RPD: |
| MS/MSD Duplicate Status vs Numerical Indicator: | MS/MSD Duplicate Status vs RPD: |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: