



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

Date of Issue

09/24/2010

Linda Geddes
MWH LABORATORIES

LXG: Linda Geddes
Project Manager



Report#: 342934
Project: CWA-RCRA
Group: Weekly
Influent-effluent-quick
TAT-#KERRUS

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

Group #: 342934

Project #: CWA-RCRA

Sample Group: Weekly Influent-effluent-quick

TAT #KERRUS

Project Manager: Linda Geddes

Phone: (626) 386-1163

The following samples were received from you on **September 08, 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
201009080499	Effluent	07-Sep-2010 0830
	Ammonia Nitrogen	Chlorate by IC
	Nitrite Nitrogen by IC	Perchlorate
		Nitrate as Nitrogen by IC
		Total Inorganic Nitrogen-Calc
201009080500	Influent	07-Sep-2010 0900
	Ammonia Nitrogen	Chlorate by IC
	Nitrite Nitrogen by IC	Perchlorate
		Nitrate as Nitrogen by IC
		Total Inorganic Nitrogen-Calc
	Total Nitrate Nitrite-N CALC	

Test Description

Linda Geddes Your MWWHL Project Manager

BO #: 22375

Created By: LYG

Order Date: 08/10/2010

Bottle Orders

Client Code TRONOX

Project Code BOTTLES Bottle Orders

Group Name Weekly Influent-effluent-quick TAT-#KERRUS

PO# / Job#

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

of Samples Tests

# of Samples	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
2	Ammonia Nitrogen		1 250ml poly 0.5ml H2SO4 (50%)	
2	Chlorate by IC		1 60mL poly 0.60ml 5% EDA sol'n	
2	Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Total Inorganic Nitrogen-Calc		1 125ml poly no preservative	
2	Perchlorate Sterile Filtered		1 125 ml poly + syringe, filter 125ml STERILE bottle	

Comments

Weekly short quick TAT for Inf and eff.
 Influent and effluent gets clo4, clo3, No2, NO3, N-Inor, NH3

Group#
 Date Sampled
 Date Received

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

Henderson, NV 89015



J1020100090225

Ship Date: 07SEP10
ActWgt: 21.0 LB
CAD: 100845654/INET3060

Delivery Address Bar Code



Ref # MSO #144448
Invoice #
PO #
Dept #

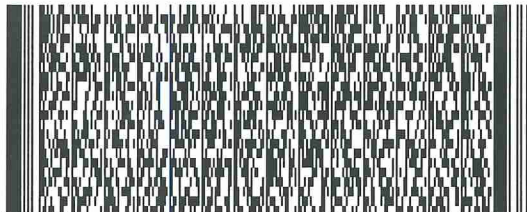
SHIP TO: (626) 568-6400 BILL SENDER

Attn: Sample Receiving
Montgomery Watson Labs
750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016

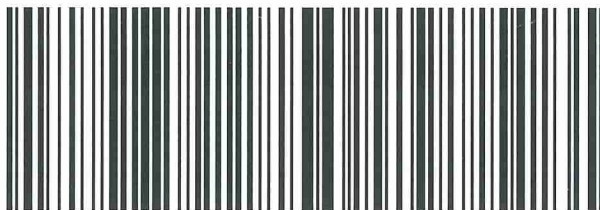
WED - 08 SEP A1
PRIORITY OVERNIGHT

TRK# 7962 2038 2711
0201



91016
CA-US
BUR

QZ WHPA



508G3/8292/9A24

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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: 144448

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 9/7/10	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 CODE NO. WCN IS 10181		
N/R		CUSTOMER PO OR REQ'N NO.	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.	
SHIPPED FROM Henderson, NV				
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY	
	Weekly Discreets— (Influent – Effluent Weekly Grabs) Not Regulated One - ice chest @ 21 lbs One - ice chest @ 35 lbs		2 COOLERS	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 CALL CHEMTREC – DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.		
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		
2	TOTAL GROSS WEIGHT 56	TOTAL TARE WEIGHT 0	56	
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				"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 Carron Williams	AGENT	PER	

September 24, 2010

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

Subject: Case Narrative report 342934

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on September 08, 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:

There were no unusual observations on this sample set.

Sincerely,



Linda Geddes
Project Manager



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Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Laboratory Comments
Report: #342934

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: 



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Laboratory
Hits Report: 342934

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/08/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201009080499	<u>Effluent</u>			
09/10/2010	16:26	Ammonia Nitrogen	0.61		mg/L	0.05
09/13/2010	11:20	Total Inorganic Nitrogen-Calc	0.61		mg/L	0.2
		201009080500	<u>Influent</u>			
09/10/2010	16:27	Ammonia Nitrogen	8.8		mg/L	0.5
09/17/2010	00:55	Chlorate by IC	260000		ug/L	50000
09/08/2010	15:43	Nitrate as Nitrogen by IC	13	10	mg/L	5
09/08/2010	15:43	Nitrate as NO3 (calc)	56	45	mg/L	22
09/08/2010	15:43	Nitrite Nitrogen by IC	0.63	1	mg/L	0.65
09/22/2010	16:31	Perchlorate	220000	6	ug/L	20000
09/13/2010	11:20	Total Inorganic Nitrogen-Calc	22		mg/L	0.2
09/08/2010	15:43	Total Nitrate, Nitrite-N, CALC	13		mg/L	5



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Laboratory Data
Report: 342934

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/08/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution	
Effluent (201009080499)							Sampled on 09/07/2010 0830				
EPA 300.0 - Total Inorganic Nitrogen-Calc											
09/13/2010	11:20		(EPA 300.0)	Total Inorganic Nitrogen-Calc	0.61	mg/L	0.20	0.2	0.20	1	
EPA 350.1 - Ammonia Nitrogen											
09/10/2010	16:26	568845	(EPA 350.1)	Ammonia Nitrogen	0.61	mg/L	0.0030	0.05	0.0030	1	
EPA 300.0 - Nitrate, Nitrite by EPA 300.0											
09/08/2010	15:55	568268	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.0050	0.65	0.25	50	
09/08/2010	15:55	568268	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.0040	0.65	0.20	50	
EPA 300.0 - Disinfection ByProducts by 300.0											
09/20/2010	14:42	569892	(EPA 300.0)	Chlorate by IC	11.8J	ug/L	1.3	50	6.5	5	
EPA 314.0 - Perchlorate											
09/22/2010	16:09	570212	(EPA 314.0)	Perchlorate	ND	ug/L	0.25	8	1.00	4	
Influent (201009080500)							Sampled on 09/07/2010 0900				
EPA 300.0 - Total Inorganic Nitrogen-Calc											
09/13/2010	11:20		(EPA 300.0)	Total Inorganic Nitrogen-Calc	22	mg/L	0.20	0.2	0.20	1	
EPA 350.1 - Ammonia Nitrogen											
09/10/2010	16:27	568845	(EPA 350.1)	Ammonia Nitrogen	8.8	mg/L	0.0030	0.5	0.030	10	
EPA 300.0 - Nitrate, Nitrite by EPA 300.0											
09/08/2010	15:43	568268	(EPA 300.0)	Nitrate as Nitrogen by IC	13	mg/L	0.0050	5	0.25	50	
09/08/2010	15:43	568268	(EPA 300.0)	Nitrate as NO3 (calc)	56	mg/L	0.022	22	1.1	50	
09/08/2010	15:43	568268	(EPA 300.0)	Nitrite Nitrogen by IC	0.6J	mg/L	0.0040	0.65	0.20	50	
09/08/2010	15:43	568268	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	13	mg/L	0.0050	5	0.25	50	
EPA 300.0 - Disinfection ByProducts by 300.0											
09/17/2010	00:55	569528	(EPA 300.0)	Chlorate by IC	260000	ug/L	1.3	50000	6500	5000	
EPA 314.0 - Perchlorate											
09/22/2010	16:31	570212	(EPA 314.0)	Perchlorate	220000	ug/L	0.25	20000	1250	5000	

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

Sample Quantitation Limit (SQL) =
MDL * Dilution Factor



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Laboratory
QC Summary: 342934

Tronox LLC

QC Ref # 568268 - Nitrate, Nitrite by EPA 300.0

201009080499 Effluent
201009080500 Influent

Analysis Date: 09/08/2010

Analyzed by: S XK
Analyzed by: S XK

QC Ref # 568845 - Ammonia Nitrogen

201009080499 Effluent
201009080500 Influent

Analysis Date: 09/10/2010

Analyzed by: NJR
Analyzed by: NJR

QC Ref # 569528 - Disinfection ByProducts by 300.0

201009080500 Influent

Analysis Date: 09/17/2010

Analyzed by: LUPE

QC Ref # 569892 - Disinfection ByProducts by 300.0

201009080499 Effluent

Analysis Date: 09/20/2010

Analyzed by: LUPE

QC Ref # 570212 - Perchlorate

201009080499 Effluent
201009080500 Influent

Analysis Date: 09/22/2010

Analyzed by: LUPE
Analyzed by: LUPE



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Laboratory
QC Report: 342934

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 568268 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0					Analysis Date: 09/08/2010				
LCS1	Nitrate as Nitrogen by IC		2.5	2.57	mg/L	103	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.57	mg/L	103	(90-110)	20	0.0
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0502	mg/L	100	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0123	mg/L	98	(50-150)		
MS_201009070137	Nitrate as Nitrogen by IC	7.0	1.3	9.63	mg/L	106	(80-120)		
MS_201009080208	Nitrate as Nitrogen by IC	9.6	1.3	12.3	mg/L	109	(80-120)		
MSD_201009070137	Nitrate as Nitrogen by IC	7.0	1.3	9.66	mg/L	107	(80-120)	20	0.94
MSD_201009080208	Nitrate as Nitrogen by IC	9.6	1.3	12.2	mg/L	107	(80-120)	20	1.9
LCS1	Nitrite Nitrogen by IC		1.0	0.987	mg/L	99	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.988	mg/L	99	(90-110)	20	0.10
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0447	mg/L	89	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.0114	mg/L	91	(50-150)		
MS_201009070137	Nitrite Nitrogen by IC	ND	0.5	0.971	mg/L	97	(80-120)		
MS_201009080208	Nitrite Nitrogen by IC	ND	0.5	1.02	mg/L	102	(80-120)		
MSD_201009070137	Nitrite Nitrogen by IC	ND	0.5	0.997	mg/L	100	(80-120)	20	2.6
MSD_201009080208	Nitrite Nitrogen by IC	ND	0.5	1.01	mg/L	101	(80-120)	20	0.99
QC Ref# 568845 - Ammonia Nitrogen by EPA 350.1					Analysis Date: 09/10/2010				
LCS1	Ammonia Nitrogen		1.0	1.06	mg/L	106	(90-110)		
LCS2	Ammonia Nitrogen		1.0	1.07	mg/L	107	(90-110)	20	0.94
MBLK	Ammonia Nitrogen			<0.05	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0400	mg/L	80	(50-150)		
MS_201009090363	Ammonia Nitrogen	0.24	1.0	1.25	mg/L	101	(90-110)		
MS2_201009090368	Ammonia Nitrogen	0.17	1.0	1.17	mg/L	100	(90-110)		
MSD_201009090363	Ammonia Nitrogen	0.24	1.0	1.24	mg/L	100	(90-110)	20	1.3
QC Ref# 569528 - Disinfection ByProducts by 300.0 by EPA 300.0					Analysis Date: 09/16/2010				
LCS1	Chlorate by IC		200	195	ug/L	98	(90-110)		
LCS2	Chlorate by IC		200	198	ug/L	99	(90-110)	20	1.5
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	10.6	ug/L	106	(75-125)		
MS_201009030129	Chlorate by IC	ND	100	101	ug/L	101	(80-120)		
MS_201009080317	Chlorate by IC	ND	100	102	ug/L	102	(80-120)		
MSD_201009030129	Chlorate by IC	ND	100	98.8	ug/L	99	(80-120)	15	2.2
MSD_201009080317	Chlorate by IC	ND	100	104	ug/L	104	(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.

(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)



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Laboratory
QC Report: 342934

Tronox LLC
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 569892 - Disinfection ByProducts by 300.0 by EPA 300.0					Analysis Date: 09/20/2010				
LCS1	Chlorate by IC		200	198	ug/L	99	(90-110)		
LCS2	Chlorate by IC		200	195	ug/L	97	(90-110)	20	1.5
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	11.3	ug/L	113	(75-125)		
MS_201009090293	Chlorate by IC	ND	100	98.7	ug/L	99	(80-120)		
MS_201009150644	Chlorate by IC	230	100	332	ug/L	100	(80-120)		
MSD_201009090293	Chlorate by IC	ND	100	101	ug/L	101	(80-120)	15	2.3
MSD_201009150644	Chlorate by IC	230	100	334	ug/L	102	(80-120)	15	2.0
QC Ref# 570212 - Perchlorate by EPA 314.0					Analysis Date: 09/22/2010				
LCS1	Perchlorate		25	23.4	ug/L	94	(85-115)		
LCS2	Perchlorate		25	26.1	ug/L	104	(85-115)	15	11
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.76	ug/L	94	(75-125)		
MRLLW	Perchlorate		2.0	1.67	ug/L	83	(50-150)		
MS_201009090196	Perchlorate	ND	25	31.1	ug/L	<u>125</u>	(80-120)		
MSD_201009090196	Perchlorate	ND	25	30.7	ug/L	<u>123</u>	(80-120)	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.
 (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)