



MWH

LABORATORIES

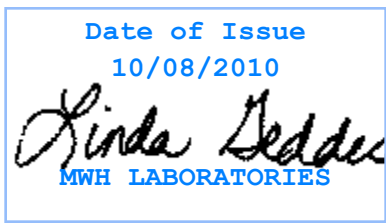
A Division of MWH Americas, Inc.

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



LXG: Linda Geddes
Project Manager



Report#: 344281
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 #: 344281

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 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
201009220362	Effluent	20-Sep-2010 0830
	Ammonia Nitrogen	Chlorate by IC
	Nitrite Nitrogen by IC	Perchlorate
		Nitrate as Nitrogen by IC
		Total Inorganic Nitrogen-Calc
201009220364	Influent	20-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



CHAIN OF CUSTODY RECORD

MWLABS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629
 (626) 386-1100 (800) 566-5227

LOGIN COMMENTS: _____

SAMPLES CHECKED/LOGGED IN BY: 344281
 SAMPLE TEMP, RECEIPT AT LAB: 38/82

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED _____

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: _____ PROJECT JOB # / P.O.#: _____ (check for yes)

TRONOX: _____ CWA-RCRA: _____

Sampler Signature: Michele Brown Tronox LLC - Henderson Plant
 Susan Crowley (702) 651-2234 PO Box 55
 Henderson, NV 89009

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)		SAMPLER COMMENTS
					Ammonia Nitrogen	CLO4	
8:30 AM	9/20/2010	EFFLUENT		RSW	X	X	
9:00	9/20/2010	INFLUENT		RSW	X	X	

*** MATRIX TYPES:** Reported by Volume: _____

CFW = Chlor(amine)ated 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

SIGNATURE: _____ DATE: 9/20/2010 TIME: 12:00 PM

PRINT NAME: Michele Brown COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

RELINQUISHED BY: Michele Brown
 RECEIVED BY: [Signature]
 RELINQUISHED BY: _____
 RECEIVED BY: [Signature]

DATE: 9/20/2010 TIME: 12:00 PM
 COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

Linda Geddes Your MWHL Project Manager

BO #: 22378

Created By: LXG

Order Date: 08/30/2010

Bottle Orders

Client Code TRONOX
 Project Code BOTTLES Bottle Orders
 Group Name Weekly Influent-effluent-quick TAT-#KERRUS
 PO# / Job# _____

**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:
 08/20/2010

# of Samples	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
2	Ammonia Nitrogen		1 250ml poly 0.5ml 12SO4 (50%)	
2	Calc		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

October 08, 2010

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

Subject: Case Narrative report 344281

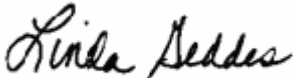
Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on September 21, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package,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

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

Other Observations:

There were no unusual observations on this sample set.

Sincerely,



Linda Geddes
Project Manager



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)

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Laboratory Comments
Report: #344281

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:  _____



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
Hits Report: 344281

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
		201009220362	<u>Effluent</u>			
09/27/2010	18:14	Ammonia Nitrogen	0.44		mg/L	0.05
09/28/2010	13:58	Total Inorganic Nitrogen-Calc	0.44		mg/L	0.2
		201009220364	<u>Influent</u>			
09/27/2010	18:15	Ammonia Nitrogen	6.5		mg/L	0.25
09/29/2010	07:28	Chlorate by IC	250000		ug/L	50000
09/21/2010	21:36	Nitrate as Nitrogen by IC	12	10	mg/L	5
09/21/2010	21:36	Nitrate as NO3 (calc)	54	45	mg/L	22
10/05/2010	00:36	Perchlorate	160000	6	ug/L	20000
09/28/2010	13:58	Total Inorganic Nitrogen-Calc	19		mg/L	0.2
09/21/2010	21:36	Total Nitrate, Nitrite-N, CALC	12		mg/L	5



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 Data
Report: 344281

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	
Effluent (201009220362)							Sampled on 09/20/2010 0830				
EPA 300.0 - Total Inorganic Nitrogen-Calc											
09/28/2010	13:58		(EPA 300.0)	Total Inorganic Nitrogen-Calc	0.44	mg/L	0.20	0.2	0.20	1	
EPA 350.1 - Ammonia Nitrogen											
09/27/2010	18:14	570733	(EPA 350.1)	Ammonia Nitrogen	0.44	mg/L	0.0030	0.05	0.0030	1	
EPA 300.0 - Nitrate, Nitrite by EPA 300.0											
09/21/2010	21:24	570001	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.0050	0.65	0.25	50	
09/21/2010	21:24	570001	(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											
09/29/2010	07:03	570910	(EPA 300.0)	Chlorate by IC	ND	ug/L	1.3	50	6.5	5	
EPA 314.0 - Perchlorate											
10/05/2010	00:14	571546	(EPA 314.0)	Perchlorate	ND	ug/L	0.25	8	1.00	4	
Influent (201009220364)							Sampled on 09/20/2010 0900				
EPA 300.0 - Total Inorganic Nitrogen-Calc											
09/28/2010	13:58		(EPA 300.0)	Total Inorganic Nitrogen-Calc	19	mg/L	0.20	0.2	0.20	1	
EPA 350.1 - Ammonia Nitrogen											
09/27/2010	18:15	570733	(EPA 350.1)	Ammonia Nitrogen	6.5	mg/L	0.0030	0.25	0.015	5	
EPA 300.0 - Nitrate, Nitrite by EPA 300.0											
09/21/2010	21:36	570001	(EPA 300.0)	Nitrate as Nitrogen by IC	12	mg/L	0.0050	5	0.25	50	
09/21/2010	21:36	570001	(EPA 300.0)	Nitrate as NO3 (calc)	54	mg/L	0.022	22	1.1	50	
09/21/2010	21:36	570001	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.0040	0.65	0.20	50	
09/21/2010	21:36	570001	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	12	mg/L	0.0050	5	0.25	50	
EPA 300.0 - Disinfection ByProducts by 300.0											
09/29/2010	07:28	570910	(EPA 300.0)	Chlorate by IC	250000	ug/L	1.3	50000	6500	5000	
EPA 314.0 - Perchlorate											
10/05/2010	00:36	571546	(EPA 314.0)	Perchlorate	160000	ug/L	0.25	20000	1250	5000	

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

Sample Quantitation Limit (SQL) =
MDL * Dilution Factor



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 Summary: 344281

Tronox LLC

QC Ref # 570001 - Nitrate, Nitrite by EPA 300.0

201009220362 Effluent
201009220364 Influent

Analysis Date: 09/21/2010

Analyzed by: S XK
Analyzed by: S XK

QC Ref # 570733 - Ammonia Nitrogen

201009220362 Effluent
201009220364 Influent

Analysis Date: 09/27/2010

Analyzed by: NJR
Analyzed by: NJR

QC Ref # 570910 - Disinfection ByProducts by 300.0

201009220362 Effluent
201009220364 Influent

Analysis Date: 09/29/2010

Analyzed by: LUPE
Analyzed by: LUPE

QC Ref # 571546 - Perchlorate

201009220362 Effluent
201009220364 Influent

Analysis Date: 10/05/2010

Analyzed by: LUPE
Analyzed by: LUPE



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: 344281

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 570001 - 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	2.53	mg/L	101	(90-110)	20	0.40
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0532	mg/L	106	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0130	mg/L	104	(50-150)		
LCS1	Nitrite Nitrogen by IC		1.0	0.961	mg/L	96	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.961	mg/L	96	(90-110)	20	0.0
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0477	mg/L	95	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.0115	mg/L	92	(50-150)		
QC Ref# 570733 - Ammonia Nitrogen by EPA 350.1					Analysis Date: 09/27/2010				
LCS1	Ammonia Nitrogen		1.0	1.09	mg/L	109	(90-110)		
LCS2	Ammonia Nitrogen		1.0	1.1	mg/L	110	(90-110)	20	0.91
MBLK	Ammonia Nitrogen			<0.05	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0420	mg/L	84	(50-150)		
MS_201009230421	Ammonia Nitrogen	0.34	1.0	1.41	mg/L	107	(90-110)		
MS2_201009230422	Ammonia Nitrogen	0.35	1.0	1.45	mg/L	110	(90-110)		
MSD_201009230421	Ammonia Nitrogen	0.34	1.0	1.39	mg/L	105	(90-110)	20	1.9
QC Ref# 570910 - Disinfection ByProducts by 300.0 by EPA 300.0					Analysis Date: 09/28/2010				
LCS1	Chlorate by IC		200	193	ug/L	97	(90-110)		
LCS2	Chlorate by IC		200	196	ug/L	98	(90-110)	20	1.5
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	8.48	ug/L	85	(75-125)		
MS_201009130008	Chlorate by IC	ND	100	96.4	ug/L	96	(80-120)		
MS_201009200188	Chlorate by IC	27	100	124	ug/L	97	(80-120)		
MSD_201009130008	Chlorate by IC	ND	100	95.4	ug/L	95	(80-120)	15	1.0
MSD_201009200188	Chlorate by IC	27	100	123	ug/L	95	(80-120)	15	1.5
QC Ref# 571546 - Perchlorate by EPA 314.0					Analysis Date: 10/04/2010				
LCS1	Perchlorate		25	23.1	ug/L	93	(85-115)		
LCS2	Perchlorate		25	24.5	ug/L	98	(85-115)	15	5.9
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.36	ug/L	109	(75-125)		
MRLLW	Perchlorate		2.0	2.47	ug/L	123	(50-150)		
MS_201009270155	Perchlorate	ND	25	23.6	ug/L	94	(80-120)		
MSD_201009270155	Perchlorate	ND	25	23.6	ug/L	94	(80-120)	15	0.0

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.

10/10

(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)