



MWH

LABORATORIES

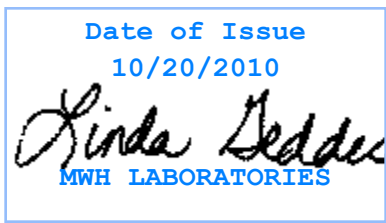
A Division of MWH Americas, Inc.

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#: 344158
Project: CWA-RCRA
Group: Weekly CLO4
Composites

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 #: 344158
 Project #: CWA-RCRA
 Sample Group: Weekly CLO4 Composites
 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
201009210228	Effluent-Comp	18-Sep-2010 1000
	Perchlorate	
201009210230	Influent-Comp	18-Sep-2010 1000
	Perchlorate	

Test Description



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

MYLABS USE ONLY:

750 Royal Oaks Drive, Suite 100, Monrovia, CA > 91016-3629
(626) 568-6400 (800) 566-5227

SAMPLES CHECKED/LOGGED IN BY: WJ/SM

344158

SAMPLE TEMP, RECEIPT AT LAB: 6

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		(check for yes)
COMPANY / PROJECT NAME	PROJECT JOB # / P.O.#	CWA-RCRA	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)			
SAMPLER	IDENTIFIER, STATE ID#	Weekly Permit CIO ₄ Compliance Samples	CIO ₄	Sterile Filtered CIO ₄	SAMPLER COMMENTS	
TIME	DATE	LOCATION	MATRIX *	GRAB	COMP	
			Tronox Chemical LLC PO Box 55 Henderson, NV 89009 (702) 651-2234			
			<u>Michele Brown</u>			
			<u>Susan Crowley</u>			
10:00am	9-12-10 thru 9-14-10	Effluent-Comp	RSW	X	X	BO # 19142
10:00am	9-05-10 thru 9-18-10	Influent-Comp	RSW	X	X	

* 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:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	<u>Michele Brown</u>	Michele Brown	Veloia Water NA for Tronox Chemical LLC	9/20/2010	12:00
RELINQUISHED BY:	<u>[Signature]</u>				
RECEIVED BY:	<u>[Signature]</u>				

Linda Geddes Your MWHL Project Manager

Client Code TRONOX

BO #: 22653

Project Code BOTTLES Bottle Orders

Created By: LXG

Group Name Weekly CLO4 Composites

Order Date: 09/17/2010

PO# / Job# _____

Bottle Orders

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:
 09/07/2010

Group#
Date Sampled
Date Received

# of Samples	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
2	Perchlorate Sterile Filtered		1 125 ml poly + syringe, filter 125ml STERILE bottle	

Comments

Weekly composite for Influent and Effluent

Client - please label COC as EFFLUENT-COMP and INFLUENT-COMP

Code Status Date Shipped Via Tracking # # of Coolers Prepared By



BUILDING A BETTER WORLD

October 20, 2010

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

Subject: Case Narrative report 344158

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:

Report revised to reflect sampling dates of 9/18/10. LXG 102010

Other Observations:

There were no other observations on this sample set.

Sincerely,

A handwritten signature in cursive script that reads "Linda Geddes".

Linda Geddes
Project Manager



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Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Laboratory Comments

Report: #344158

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

Report revised to reflect sampling dates of 9/18/10. LXG 102010



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Laboratory
Hits Report: 344158

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
10/05/2010 03:35	Perchlorate	<u>Influent-Comp</u>	170000	6	ug/L	20000



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Laboratory Data
Report: 344158

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>Effluent-Comp (201009210228)</u>							Sampled on 09/18/2010 1000				
EPA 314.0 - Perchlorate											
10/05/2010	03:13	571546	(EPA 314.0)	Perchlorate	ND	ug/L	0.25	8	1.00	4	
<u>Influent-Comp (201009210230)</u>							Sampled on 09/18/2010 1000				
EPA 314.0 - Perchlorate											
10/05/2010	03:35	571546	(EPA 314.0)	Perchlorate	170000	ug/L	0.25	20000	1250	5000	



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Laboratory
QC Summary: 344158

Tronox LLC

QC Ref # 571546 - Perchlorate

201009210228 Effluent-Comp
201009210230 Influent-Comp

Analysis Date: 10/05/2010

Analyzed by: LUPE
Analyzed by: LUPE



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Laboratory
QC Report: 344158

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
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)