



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, 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 - Henderson
PO Box 55

Henderson , NV 89009

Attention: Susan Crowley
Fax: (405) 302-4607

DATE OF ISSUE
Mar 16 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



01114CA

Report#: 264774

Project: CLO4

PO#: Susan Crowle

This report shall not be reproduced except in full, without the written approval of the laboratory. 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 Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 17 page[s].



BUILDING A BETTER WORLD

March 17, 2009

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

Subject: Case Narrative report 264774

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 4, 2009 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:

One sample was re-analyzed for TDS past the 7 day HT because original results were not consistent with the EC. The recovery for the MRL duplicate was outside of the lab specifications, but there is minimal impact because all values were greater than 10X the MRL.

Hexavalent chromium samples were received past the RCRA holding time of 24 hours.

Note that for ion chromatography analyses such as perchlorate, the exact analysis time is not typically shown on the report. Either a 00:00 is shown or the time of injection of the first sample in the batch.

Sincerely,

A handwritten signature in cursive script that reads "Andrew Eaton".

Andrew Eaton, PhD
Project Manager



264774

750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016
(626) 388-1100 (800) 566-5227

MVLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: ST

SAMPLE TEMP, RECEIPT AT LAB: 45

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

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

Sampler: Michele Brown Quantity Groundwater Sampling: _____

Susan Crowley (702) 651-2234 Schedule B: _____

Tronox LLC - Henderson Plant
P.O. Box 55
Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)										SAMPLER Comments
							CR 6010	DH 9040	TDS	CL04	CRVI 7196	CL03 9056	NC03 9056	See Bottle Order			
6:10	2-3-09		J-AA	RGW	X		X	X	X	X	X						2 Bottles
7:30	2-3-09		M-64	RGW	X		X	X	X	X	X						2 Bottles
7:47	2-3-09		M-65	RGW	X		X	X	X	X	X						2 Bottles
8:00	2-3-09		M-66	RGW	X		X	X	X	X	X						2 Bottles
8:12	2-3-09		M-19	RGW	X		X	X	X	X	X						2 Bottles
8:25	2-3-09		M-69	RGW	X		X	X	X	X	X						2 Bottles
8:33	2-3-09		M-135	RGW	X		X	X	X	X	X						2 Bottles
8:46	2-3-09		M-131	RGW	X		X	X	X	X	X						2 Bottles
8:57	2-3-09		M-57A	RGW	X		X	X	X	X	X						2 Bottles
9:09	2-3-09		M-99	RGW	X		X	X	X	X	X						2 Bottles
9:56	2-3-09		M-25	RGW	X		X	X	X	X	X						2 Bottles
10:18	2-3-09		M-37	RGW	X		X	X	X	X	X						3 Bottles

Reported by Volume:
CFW = Chlor(amin)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

* MATRIX TYPES:

RELINQUISHED BY: Michele Brown SIGNATURE

RECEIVED BY: [Signature] PRINT NAME: Michele Brown

RELINQUISHED BY: [Signature] COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

RECEIVED BY: [Signature] DATE: 2-3-09 TIME: 12:00PM

DATE: 2/4 TIME: 11:00



750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016
(626) 386-1100 (800) 566-5227

MW LABS USE ONLY:

SAMPLES CHECKED/LOGGED IN BY: JT

SAMPLE TEMP, RECEIPT AT LAB: 40

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: KERRMCGEE-MP PROJECT JOB # / P.O.#: Quarterly Groundwater Sampling (check for yes)

Sampler: Michele Brown Schedule B: Tronox LLC - Henderson Plant

Susan Crowley (702) 651-2234 Henderson, NV 89009

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)							SAMPLER Comments	
							CR 6010	pH 9040	TDS	CLO4	CRVI 7196	CL03 9056	NO3 9056		See Bottle Order
	2-3-09		MD-4	RGW	X		X	X	X	X					2 Bottles
	102523-09		ED-1	RGW	X		X	X	X	X	X				3 Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles

* MATRIX TYPES: Reported by Volume:
 CFW = Chlor(amin)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

REINQUISHED BY: Michele Brown SIGNATURE: [Signature] PRINT NAME: Michele Brown COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

RECEIVED BY: [Signature] DATE: 2-3-09 TIME: 12:00PM

REINQUISHED BY: [Signature] DATE: 2/4 TIME: 11:00

RECEIVED BY: [Signature]

Andrew W. Eaton
 (626) 386-1125
 Direct Phone/Voice Mail
 RS
 SO# 46082 33899

Sampler: Please Return this Paper with your samples

Ship Sample Kits to
 Tronox LLC-Veolia Water
 Gate 1
 8000 West Lake Mead Drive
 Henderson, NV 89015

Send Report to
 Tronox LLC Henderson Plant
 P.O. Box 55
 Henderson, NV 89009

Billing Address
 Tronox LLC
 P.O. Box 3049
 Livonia, MI 48150

ATTN: Susan Crowley
 PHONE: 702-651-2234
 ATTN: Susan Crowley
 PHONE: 702-651-2234
 FAX: 702-651-2310

Bottles-Qty for each sample, type & preservative if any

Quote#
 GJY

Created by GJY
 Order Date 12/09/08
 Date Needed by Client
 Date Samples to Arrive at MWL
 SHIP LOCATION

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
101	CR6010	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS
101	CLO4, TDS, PH9040	1 500 ml poly /no preservative		First, Third, and fourth quarters
15	CRV7196	1 125ml poly acid rinsed/ no preservative		NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht
				TDS count increased to 101 effective 6/16/06;; deleted EC as of 7-14-06

liveCode Status Date Shipped Carrier Qty of Coolers Tracking Number Prepared By

MWH Laboratories
 750 Royal Oaks Drive, Monrovia, CA 91016
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: KERRMCGEE-MP
 PO#: Susan Crowley PO
 Group#: 264774
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **02/04/09**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2902050191	I-AA	CLO4 CR6010	Water P PH9040	03-feb-2009 06:10:00 TDS
2902050199	M-64	CLO4 CR6010	Water P PH9040	03-feb-2009 07:30:00 TDS
2902050200	M-65	CLO4 CR6010	Water P PH9040	03-feb-2009 07:47:00 TDS
2902050201	M-66	CLO4 CR6010	Water P PH9040	03-feb-2009 08:00:00 TDS
2902050202	M-79	CLO4 CR6010	Water P PH9040	03-feb-2009 08:12:00 TDS
2902050203	M-69	CLO4 CR6010	Water P PH9040	03-feb-2009 08:25:00 TDS
2902050204	M-135	CLO4 CR6010	Water P PH9040	03-feb-2009 08:33:00 TDS
2902050205	M-131	CLO4 CR6010	Water P PH9040	03-feb-2009 08:46:00 TDS
2902050206	M-57A	CLO4 CR6010	Water P PH9040	03-feb-2009 08:57:00 TDS
2902050207	M-99	CLO4 CR6010	Water P PH9040	03-feb-2009 09:09:00 TDS
2902050208	M-25	CLO4 CR6010	Water P PH9040	03-feb-2009 09:56:00 TDS
2902050209	M-37	CLO4 CR6010	Water CRVI7196 P	03-feb-2009 10:18:00 PH9040 T
2902050210	MD-4	CLO4 CR6010	Water P PH9040	03-feb-2009 00:00:00 TDS
2902050211	EB-1	CLO4 CR6010	Water CRVI7196 P	03-feb-2009 10:25:00 PH9040 T

Test Acronym Description

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

Customer Code: KERRMCGEE-MP
PO#: Susan Crowley PO
Group#: 264774
Project#: CLO4
Proj Mgr: Andrew Eaton
Phone: (626) 386-1125

Test Acronym Description

Test Acronym Description

CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
CRVI7196	Hexavalent chromium (Cr VI)
P	Metals: sample pH
PH9040	PH (H3=past HT, not compliant)
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



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Report
Comments
#264774

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

(TDS) The MRL duplicate was below the acceptable range of 50% recovery with a TDS value of 3. The other QC values were within range and the RPD of the duplicates were also within range. Data acceptable for compliance based on passing other MRL and other QCs.

(QC Ref#: 2902050201)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)

HA - Initial analysis within holding time. Reanalysis was past holding time.

(QC Ref#: 2902050209)

Test: Hexavalent chromium (Cr VI) (ML/EPA 7196)

H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.

(QC Ref#: 2902050211)

Test: Hexavalent chromium (Cr VI) (ML/EPA 7196)

H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.



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Laboratory
Hits Report
#264774

Tronox LLC - Henderson
Susan Crowley
PO Box 55
Henderson , NV 89009

Samples Received
04-feb-2009 11:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902050191	I-AA				
02/22/09		Chromium, Total, ICAP	0.082		mg/l	0.020
02/17/09		Metals digestion performed.	Y		Yes/No	
02/05/09		PH (H3=past HT, not compliant)	7.8		Units	0.0010
02/25/09		Perchlorate	115000		ug/l	8000
02/09/09		Total Dissolved Solid (TDS)	3560	500	mg/l	10
	2902050199	M-64				
02/22/09		Chromium, Total, ICAP	11		mg/l	0.050
02/17/09		Metals digestion performed.	Y		Yes/No	
02/05/09		PH (H3=past HT, not compliant)	7.7		Units	0.0010
02/25/09		Perchlorate	720000		ug/l	40000
02/09/09		Total Dissolved Solid (TDS)	9680	500	mg/l	10
	2902050200	M-65				
02/22/09		Chromium, Total, ICAP	32		mg/l	0.20
02/17/09		Metals digestion performed.	Y		Yes/No	
02/05/09		PH (H3=past HT, not compliant)	7.5		Units	0.0010
02/25/09		Perchlorate	1290000		ug/l	80000
02/09/09		Total Dissolved Solid (TDS)	15900	500	mg/l	10
	2902050201	M-66				
02/22/09		Chromium, Total, ICAP	34		mg/l	0.20
02/17/09		Metals digestion performed.	Y		Yes/No	
02/05/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
02/25/09		Perchlorate	1700000		ug/l	80000
02/19/09		Total Dissolved Solid (TDS)	16100	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
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 #264774

Tronox LLC - Henderson
 Susan Crowley
 PO Box 55
 Henderson, NV 89009

Samples Received
 04-feb-2009 11:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902050202	M-79				
	2902050202	M-79				
02/22/09	Chromium, Total, ICAP		0.052		mg/l	0.020
02/17/09	Metals digestion performed.		Y		Yes/No	
02/05/09	PH (H3=past HT, not compliant)		8.0		Units	0.0010
03/02/09	Perchlorate		7160		ug/l	4000
02/09/09	Total Dissolved Solid (TDS)		6780	500	mg/l	10
	2902050203	M-69				
02/22/09	Chromium, Total, ICAP		0.10		mg/l	0.020
02/17/09	Metals digestion performed.		Y		Yes/No	
02/05/09	PH (H3=past HT, not compliant)		7.8		Units	0.0010
03/02/09	Perchlorate		531000		ug/l	40000
02/09/09	Total Dissolved Solid (TDS)		4580	500	mg/l	10
	2902050204	M-135				
02/22/09	Chromium, Total, ICAP		0.085		mg/l	0.020
02/17/09	Metals digestion performed.		Y		Yes/No	
02/05/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010
02/25/09	Perchlorate		45800		ug/l	2000
02/09/09	Total Dissolved Solid (TDS)		3840	500	mg/l	10
	2902050205	M-131				
02/22/09	Chromium, Total, ICAP		0.082		mg/l	0.020
02/17/09	Metals digestion performed.		Y		Yes/No	
02/05/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010

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Hits Report
#264774

Tronox LLC - Henderson
Susan Crowley
PO Box 55
Henderson , NV 89009

Samples Received
04-feb-2009 11:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902050205	M-131				
02/25/09	Perchlorate		58300		ug/l	4000
02/09/09	Total Dissolved Solid (TDS)		3260	500	mg/l	10
	2902050206	M-57A				
02/22/09	Chromium, Total, ICAP		0.073		mg/l	0.020
02/17/09	Metals digestion performed.		Y		Yes/No	
02/05/09	PH (H3=past HT, not compliant)		7.8		Units	0.0010
02/25/09	Perchlorate		25600		ug/l	2000
02/09/09	Total Dissolved Solid (TDS)		3390	500	mg/l	10
	2902050207	M-99				
02/22/09	Chromium, Total, ICAP		0.39		mg/l	0.020
02/17/09	Metals digestion performed.		Y		Yes/No	
02/05/09	PH (H3=past HT, not compliant)		7.8		Units	0.0010
02/25/09	Perchlorate		368000		ug/l	20000
02/09/09	Total Dissolved Solid (TDS)		4730	500	mg/l	10
	2902050208	M-25				
02/22/09	Chromium, Total, ICAP		13		mg/l	0.10
02/17/09	Metals digestion performed.		Y		Yes/No	
02/05/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
02/25/09	Perchlorate		441000		ug/l	20000
02/09/09	Total Dissolved Solid (TDS)		9080	500	mg/l	10
	2902050209	M-37				
02/22/09	Chromium, Total, ICAP		0.025		mg/l	0.020

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Hits Report
 #264774

Tronox LLC - Henderson
 Susan Crowley
 PO Box 55
 Henderson , NV 89009

Samples Received
 04-feb-2009 11:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902050209	M-37				
02/04/09		Hexavalent chromium (Cr VI)	0.036		mg/l	0.0050
02/17/09		Metals digestion performed.	Y		Yes/No	
02/05/09		PH (H3=past HT, not compliant)	7.5		Units	0.0010
02/25/09		Perchlorate	1830000		ug/l	200000
02/09/09		Total Dissolved Solid (TDS)	5470	500	mg/l	10
	2902050210	MD-4				
02/22/09		Chromium, Total, ICAP	13		mg/l	0.10
02/17/09		Metals digestion performed.	Y		Yes/No	
02/05/09		PH (H3=past HT, not compliant)	7.7		Units	0.0010
02/25/09		Perchlorate	442000		ug/l	20000
02/09/09		Total Dissolved Solid (TDS)	9480	500	mg/l	10
	2902050211	EB-1				
02/17/09		Metals digestion performed.	Y		Yes/No	
02/05/09		PH (H3=past HT, not compliant)	6.1		Units	0.0010
03/02/09		Perchlorate	162		ug/l	20

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#264774

Tronox LLC - Henderson
Susan Crowley
PO Box 55
Henderson , NV 89009

Samples Received
02/04/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
I-AA (2902050191)		Sampled on 02/03/09 06:10						
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	115000	ug/l	8000	2000
02/17/09	02/22/09 00:00	473644	(ML/EPA 6010B)	Chromium, Total, ICAP	0.082	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471325	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3560	mg/l	10	1
M-64 (2902050199)		Sampled on 02/03/09 07:30						
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	720000	ug/l	40000	10000
02/17/09	02/22/09 00:00	473644	(ML/EPA 6010B)	Chromium, Total, ICAP	11	mg/l	0.050	5
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471325	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9680	mg/l	10	1
M-65 (2902050200)		Sampled on 02/03/09 07:47						
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	1290000	ug/l	80000	20000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	32	mg/l	0.20	20
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471325	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	15900	mg/l	10	1
M-66 (2902050201)		Sampled on 02/03/09 08:00						
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	1700000	ug/l	80000	20000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	34	mg/l	0.20	20
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471325	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
02/09/09	02/19/09 13:30	473953	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	16100(HA)	mg/l	10	1



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Laboratory
 Data Report
 #264774

Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-79 (2902050202)				Sampled on 02/03/09 08:12				
	03/02/09 12:57	475702	(EPA 314)	Perchlorate	7160	ug/l	4000	1000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	0.052	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471325	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	8.0	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6780	mg/l	10	1
M-69 (2902050203)				Sampled on 02/03/09 08:25				
	03/02/09 12:57	475702	(EPA 314)	Perchlorate	531000	ug/l	40000	10000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	0.10	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471325	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4580	mg/l	10	1
M-135 (2902050204)				Sampled on 02/03/09 08:33				
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	45800	ug/l	2000	500
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	0.085	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471325	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3840	mg/l	10	1
M-131 (2902050205)				Sampled on 02/03/09 08:46				
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	58300	ug/l	4000	1000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	0.092	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471325	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3260	mg/l	10	1
M-57A (2902050206)				Sampled on 02/03/09 08:57				
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	25600	ug/l	2000	500
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	0.073	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471328	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3390	mg/l	10	1



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Data Report
#264774

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-99 (2902050207)				Sampled on 02/03/09 09:09				
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	368000	ug/l	20000	5000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	0.39	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471328	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4730	mg/l	10	1
M-25 (2902050208)				Sampled on 02/03/09 09:56				
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	441000	ug/l	20000	5000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	13	mg/l	0.10	10
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471328	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9080	mg/l	10	1
M-37 (2902050209)				Sampled on 02/03/09 10:18				
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	1830000	ug/l	200000	50000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	0.025	mg/l	0.020	2
	02/04/09 17:48	471350	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	0.036 (H3)	mg/l	0.0050	1
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471328	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5470	mg/l	10	1
MD-4 (2902050210)				Sampled on 02/03/09 00:00				
	02/25/09 11:50	474495	(EPA 314)	Perchlorate	442000	ug/l	20000	5000
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	13	mg/l	0.10	10
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471329	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9480	mg/l	10	1



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Laboratory
Data Report
#264774

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
EB-1 (2902050211)				Sampled on 02/03/09 10:25				
	03/02/09 12:57	475702	(EPA 314)	Perchlorate	162	ug/l	20	5
02/17/09	02/22/09 00:00	473645	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	02/04/09 17:48	471350	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	ND(H3)	mg/l	0.0050	1
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/05/09 00:00	471329	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	6.1	Units	0.0010	1
02/09/09	02/09/09 16:30	472961	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	ND	mg/l	10	1



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 QC Summary
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QC Ref #0 - Metals Turbidity Analysis Date: 02/06/2009

2902050191	I-AA	Analyzed by: jrf
2902050191	I-AA	Analyzed by: jrf
2902050199	M-64	Analyzed by: jrf
2902050199	M-64	Analyzed by: jrf
2902050200	M-65	Analyzed by: jrf
2902050200	M-65	Analyzed by: jrf
2902050201	M-66	Analyzed by: jrf
2902050201	M-66	Analyzed by: jrf
2902050202	M-79	Analyzed by: jrf
2902050202	M-79	Analyzed by: jrf
2902050203	M-69	Analyzed by: jrf
2902050203	M-69	Analyzed by: jrf
2902050204	M-135	Analyzed by: jrf
2902050204	M-135	Analyzed by: jrf
2902050205	M-131	Analyzed by: jrf
2902050205	M-131	Analyzed by: jrf
2902050206	M-57A	Analyzed by: jrf
2902050206	M-57A	Analyzed by: jrf
2902050207	M-99	Analyzed by: jrf
2902050207	M-99	Analyzed by: jrf
2902050208	M-25	Analyzed by: jrf
2902050208	M-25	Analyzed by: jrf
2902050209	M-37	Analyzed by: jrf
2902050209	M-37	Analyzed by: jrf
2902050210	MD-4	Analyzed by: jrf
2902050210	MD-4	Analyzed by: jrf
2902050211	EB-1	Analyzed by: jrf
2902050211	EB-1	Analyzed by: jrf

QC Ref #471325 - PH (H3=past HT, not compliant) Analysis Date: 02/05/2009

2902050191	I-AA	Analyzed by: nem
2902050199	M-64	Analyzed by: nem
2902050200	M-65	Analyzed by: nem
2902050201	M-66	Analyzed by: nem
2902050202	M-79	Analyzed by: nem
2902050203	M-69	Analyzed by: nem
2902050204	M-135	Analyzed by: nem
2902050205	M-131	Analyzed by: nem



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Laboratory
QC Summary
#264774

Tronox LLC - Henderson
(continued)

QC Ref #471328 - PH (H3=past HT, not compliant) Analysis Date: 02/05/2009

2902050206	M-57A	Analyzed by: nem
2902050207	M-99	Analyzed by: nem
2902050208	M-25	Analyzed by: nem
2902050209	M-37	Analyzed by: nem

QC Ref #471329 - PH (H3=past HT, not compliant) Analysis Date: 02/05/2009

2902050210	MD-4	Analyzed by: nem
2902050211	EB-1	Analyzed by: nem

QC Ref #471350 - Hexavalent chromium (Cr VI) Analysis Date: 02/04/2009

2902050209	M-37	Analyzed by: azs
2902050211	EB-1	Analyzed by: azs

QC Ref #472961 - Total Dissolved Solid (TDS) Analysis Date: 02/09/2009

2902050191	I-AA	Analyzed by: wjp
2902050199	M-64	Analyzed by: wjp
2902050200	M-65	Analyzed by: wjp
2902050202	M-79	Analyzed by: wjp
2902050203	M-69	Analyzed by: wjp
2902050204	M-135	Analyzed by: wjp
2902050205	M-131	Analyzed by: wjp
2902050206	M-57A	Analyzed by: wjp
2902050207	M-99	Analyzed by: wjp
2902050208	M-25	Analyzed by: wjp
2902050209	M-37	Analyzed by: wjp
2902050210	MD-4	Analyzed by: wjp
2902050211	EB-1	Analyzed by: wjp



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QC Summary
#264774

Tronox LLC - Henderson
(continued)

QC Ref #473644 - Chromium, Total, ICAP

Analysis Date: 02/22/2009

2902050191	I-AA	Analyzed by: csk
2902050199	M-64	Analyzed by: csk

QC Ref #473645 - Chromium, Total, ICAP

Analysis Date: 02/22/2009

2902050200	M-65	Analyzed by: csk
2902050201	M-66	Analyzed by: csk
2902050202	M-79	Analyzed by: csk
2902050203	M-69	Analyzed by: csk
2902050204	M-135	Analyzed by: csk
2902050205	M-131	Analyzed by: csk
2902050206	M-57A	Analyzed by: csk
2902050207	M-99	Analyzed by: csk
2902050208	M-25	Analyzed by: csk
2902050209	M-37	Analyzed by: csk
2902050210	MD-4	Analyzed by: csk
2902050211	EB-1	Analyzed by: csk

QC Ref #473953 - Total Dissolved Solid (TDS)

Analysis Date: 02/19/2009

2902050201	M-66	Analyzed by: wjp
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QC Ref #474495 - Perchlorate

Analysis Date: 02/25/2009

2902050191	I-AA	Analyzed by: tlh
2902050199	M-64	Analyzed by: tlh
2902050200	M-65	Analyzed by: tlh
2902050201	M-66	Analyzed by: tlh
2902050204	M-135	Analyzed by: tlh
2902050205	M-131	Analyzed by: tlh
2902050206	M-57A	Analyzed by: tlh
2902050207	M-99	Analyzed by: tlh
2902050208	M-25	Analyzed by: tlh
2902050209	M-37	Analyzed by: tlh
2902050210	MD-4	Analyzed by: tlh



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QC Summary
#264774

Tronox LLC - Henderson
(continued)

QC Ref #475702 - Perchlorate

Analysis Date: 03/02/2009

2902050202	M-79
2902050203	M-69
2902050211	EB-1

Analyzed by: tlh
Analyzed by: tlh
Analyzed by: tlh



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Laboratory
QC Report
#264774

Tronox LLC - Henderson

QC Ref #471325 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.90	7.89	UNIT		(0-20)	0.1

QC Ref #471328 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.60	7.58	UNIT		(0-20)	0.3

QC Ref #471329 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	9.20	9.22	UNIT		(0-20)	0.2

QC Ref #471350 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02050211	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.055	MGL	110.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.055	MGL	110.0	(85-115)	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.006	MGL	120.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.05	0.058	MGL	116.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.05	0.058	MGL	116.0	(70-130)	

QC Ref #472961 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02050191	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	3560	3630	MGL		(0-10)	1.9
LCS1	Total Dissolved Solid (TDS)	175	186	MGL	106.3	(80-114)	

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Laboratory
QC Report
#264774

Tronox LLC - Henderson
(continued)

LCS2	Total Dissolved Solid (TDS)	700	750	MGL	107.1	(80-114)
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL		
MRL_CHK	Total Dissolved Solid (TDS)	10.0	6	MGL	60.0	(50-150)
RPD_LCS	Total Dissolved Solid (TDS)	106.286	107.143	MGL	0.8	(0-20)

QC Ref #473644 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02050049	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.994	MGL	99.4	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0101	MGL	101.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.974	MGL	97.4	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.979	MGL	97.9	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.975	MGL	97.5	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.964	MGL	96.4	(70-130)	

QC Ref #473645 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02050204	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0113	MGL	113.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.990	MGL	99.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.982	MGL	98.2	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	(70-130)	

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QC Report
#264774

Tronox LLC - Henderson
(continued)

QC Ref #473953 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02060078	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	368	370	MGL		(0-10)	0.5
LCS1	Total Dissolved Solid (TDS)	175	178	MGL	101.7	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	736	MGL	105.1	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	14	MGL	140.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	101.714	105.143	MGL	3.3	(0-20)	

QC Ref #474495 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	02160063	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.1	UGL	92.4	(85-115)	
LCS2	Perchlorate	25.0	23.4	UGL	93.6	(85-115)	
LCS3	Perchlorate	4	3.28	UGL	82.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.8	UGL	91.2	(80-120)	
MSD	Perchlorate	25.0	23.6	UGL	94.4	(80-120)	
RPD_LCS	Perchlorate	92.400	93.600	UGL	1.3	(0-15)	
RPD_MS	Perchlorate	91.200	94.400	UGL	1.0	(0-15)	

QC Ref #475702 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	02050211	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS2	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	
LCS3	Perchlorate	4	4.11	UGL	102.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			

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Laboratory
QC Report
#264774

Tronox LLC - Henderson
(continued)

MS	Perchlorate	25.0	22.7	UGL	90.8	(80-120)
MSD	Perchlorate	25.0	21.0	UGL	84.0	(80-120)
RPD_LCS	Perchlorate	95.600	100.800	UGL	5.3	(0-15)
RPD_MS	Perchlorate	90.800	84.000	UGL	0.9	(0-15)

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