



# 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  
Dec 01 2008  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager



Report#: 258563  
Project: CL04  
PO#: Susan Crowle

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 25 page[s].



BUILDING A BETTER WORLD

December 1, 2008

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

Subject: Case Narrative report 258563

Enclosed is MWH Laboratories Report 258563

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on November 06, 2008 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:

The method blank for TDS exceeded specifications. Samples were flagged with a "B" flag. Results were used because concentrations exceeded 10X the blank.

Several samples for hexavalent chromium were received and analyzed past the RCRA 24 hour holding time.

Sincerely,

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

Andrew Eaton, PhD  
Project Manager





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

M/LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JDS

SAMPLE TEMP, RECEIPT AT LAB:

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: **Michelle Brown** Schedule B: **Tronox LLC - Henderson Plant**

**Susan Crowley** (702) 651-2234 **PO Box 55** 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	ClO3 9056	NO3 9056	
750	11-5-08		I-1	RGW	X		X	X	X					2 Bottles
800	11-5-08		I-2	RGW	X		X	X	X					2 Bottles
808	11-5-08		I-1	RGW	X		X	X	X					2 Bottles
726	11-5-08		I-V	RGW	X		X	X	X					2 Bottles
1128	11-5-08		M-84	RGW	X		X	X	X	X				3 Bottles
1118	11-5-08		M-10	RGW	X		X	X	X	X				3 Bottles
1060	11-5-08		EB-2	RGW	X		X	X	X	X				3 Bottles
1215	11-5-08		M-11	RGW	X		X	X	X	X				3 Bottles
			MD-1	RGW	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

\* 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

SIGNATURE: Michelle Brown PRINT NAME: **Michelle Brown** COMPANY/TITLE: **Veolia Water NA for Tronox LLC - Henderson Plant** DATE: **11-5-08** TIME: **12:00PM**

RELINQUISHED BY: Susan Crowley

RECEIVED BY: Janina

RELINQUISHED BY: JDS

RECEIVED BY: Janina



MWH Laboratories, a Division of MWH Americas, Inc.  
 750 Royal Oaks Avenue Suite 100  
 Monrovia CA 91016 (626) 386-1100 FAX (626) 386-1124

**Bottle Order for Tronox LLC- Henderson Standing**

Andrew Eaton..... Your MWL Project Manager  
 (626) 386-1125..... Direct Phone/Voice Mail

Client Code KERRMCGEE-MP  
 Project Code CLO4  
 PO# / Job#  
 Blanket PO

SO# 44952 33899 RS

**Sampler: Please Return this Paper with your samples**

Created by MWH 0  
 Order Date 09/15/08  
 Date Needed by Client  
 Ship Sample Kits to  
 Tronox LLC-Veolia Water  
 Gate 1  
 8000 West Lake Mead Drive  
 Henderson, NV 89015

**Billing Address**

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

**Send Report to**

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

ATTN: Susan Crowley  
 PHONE: 702-651-2234

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

**Quote#**

MWH

# of Samples Tests

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

UN#

Important Comments

# 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 SHORT HOLDING TIME!!!!		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

From: Origin ID: LASA (702)651-2230  
 TRONOX LLC  
 TRONOX LLC  
 8000 LAKE MEAD PARKWAY  
 SHIPPING DEPARTMENT  
 HENDERSON, NV 89015



CL58881822124

Ship Date: 05NOV08  
 ActWgt: 30 LB  
 CAD: 2274147/INET8091  
 Account#: S \*\*\*\*\*

Delivery Address Bar Code



Ref # MSO #143427  
 Invoice #  
 PO #  
 Dept #

SHIP TO: 6265886400 **BILL SENDER**

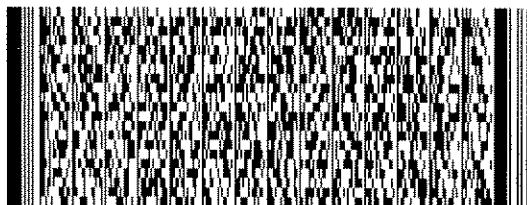
**ATTN: SAMPLE RECEIVING  
 MONTGOMERY WATSON LABS  
 750 ROYAL OAKS DR # 100**

**MONROVIA, CA 910163629**

**THU - 06NOV A2**

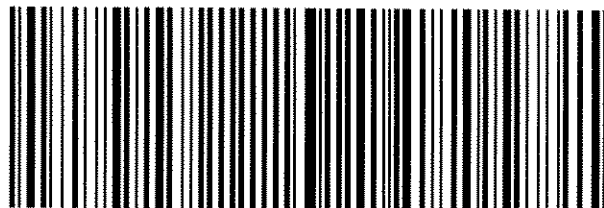
**PRIORITY OVERNIGHT**

TRK# 7901 2942 0918  
 0201



**QZ WHPA**

**91016  
 CA-US  
 BUR**



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
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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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

**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#: 258563  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **11/06/08**. 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
2811070244	M-92	CLO4 CR6010	Water P PH9040	05-nov-2008 05:35:00 T TDS
2811070246	M-97	CLO4 CR6010	Water P PH9040	05-nov-2008 05:48:00 T TDS
2811070247	M-31A	CLO4 CR6010	Water P PH9040	05-nov-2008 09:23:00 T TDS
2811070248	M-52	CLO4 CR6010	Water P PH9040	05-nov-2008 09:34:00 T TDS
2811070249	M-50	CLO4 CR6010	Water P PH9040	05-nov-2008 09:55:00 T TDS
2811070250	M-34	CLO4 CR6010	Water P PH9040	05-nov-2008 10:10:00 T TDS
2811070251	M-35	CLO4 CR6010	Water P PH9040	05-nov-2008 10:25:00 T TDS
2811070252	M-19	CLO4 CR6010	Water P PH9040	05-nov-2008 10:38:00 T TDS
2811070253	M-39	CLO4 CR6010	Water P PH9040	05-nov-2008 10:56:00 T TDS
2811070254	M-68	CLO4 CR6010	Water P PH9040	05-nov-2008 11:07:00 T TDS
2811070255	M-61	CLO4 CR6010	Water P PH9040	05-nov-2008 11:18:00 T TDS
2811070256	I-K	CLO4 CR6010	Water P PH9040	05-nov-2008 07:40:00 T TDS
2811070257	I-J	CLO4 CR6010	Water P PH9040	05-nov-2008 07:50:00 T TDS
2811070258	I-Z	CLO4 CR6010	Water P PH9040	05-nov-2008 08:00:00 T TDS
2811070259	I-I	CLO4 CR6010	Water P PH9040	05-nov-2008 08:08:00 T TDS
2811070260	I-V	CLO4 CR6010	Water P PH9040	05-nov-2008 07:26:00 T TDS
2811070261	M-84	CLO4 CR6010	Water CRVI7196 P PH9040	05-nov-2008 11:28:00 T

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 PO Box 55  
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 PO#: Susan Crowley PO  
 Group#: 258563  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2811070261	M-84 (con't)	TDS		
2811070264	M-10	CLO4 CR6010	Water	05-nov-2008 13:18:00
		TDS	PH9040 T	
2811070265	EB-2	CLO4 CR6010	Water	05-nov-2008 10:00:00
		TDS	PH9040 T	
2811070266	M-11	CLO4 CR6010	Water	05-nov-2008 12:15:00
		TDS	PH9040 T	
2811070273	MD-1	CLO4 CR6010	Water	05-nov-2008 00:00:00
		TDS	PH9040 T	

Test Acronym Description

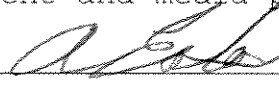
Test Acronym	Description
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
CRVI7196 P	Hexavalent chromium (Cr VI)
PH9040	PH (H3=past HT, not compliant)
T	Metals sample pH
TDS	Metals Turbidity
	Total Dissolved Solid (TDS)





**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: 

**(QC Ref#: 2811070244)**

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

B7 - Target Analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

**(QC Ref#: 2811070246)**

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

B7 - Target Analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

**(QC Ref#: 2811070256)**

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

B7 - Target Analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

**(QC Ref#: 2811070257)**

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

B7 - Target Analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

**(QC Ref#: 2811070258)**

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

B7 - Target Analyte detected in method blank at or above



method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

(QC Ref#: 2811070259)

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

B7 - Target Analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

(QC Ref#: 2811070260)

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

B7 - Target Analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

(QC Ref#: 2811070261)

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#: 2811070264)

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#: 2811070265)

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#: 2811070266)

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#: 2811070273)

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



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Report  
Comments  
#258563

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

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

B7 - Target Analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.



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Laboratory  
Hits Report  
#258563

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

Samples Received  
06-nov-2008 15:50:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2811070244</b>	<b>M-92</b>				
11/11/08		Metals digestion performed.	Y		Yes/No	
11/07/08		PH (H3=past HT, not compliant)	7.9		Units	0.0010
11/09/08		Perchlorate	884		ug/l	40
11/10/08		Total Dissolved Solid (TDS)	1970	500	mg/l	10
	<b>2811070246</b>	<b>M-97</b>				
11/13/08		Chromium, Total, ICAP	0.039		mg/l	0.020
11/11/08		Metals digestion performed.	Y		Yes/No	
11/07/08		PH (H3=past HT, not compliant)	7.7		Units	0.0010
11/09/08		Perchlorate	74400		ug/l	4000
11/10/08		Total Dissolved Solid (TDS)	3560	500	mg/l	10
	<b>2811070247</b>	<b>M-31A</b>				
11/13/08		Chromium, Total, ICAP	11		mg/l	0.050
11/11/08		Metals digestion performed.	Y		Yes/No	
11/12/08		PH (H3=past HT, not compliant)	7.6		Units	0.0010
11/09/08		Perchlorate	1310000		ug/l	80000
11/11/08		Total Dissolved Solid (TDS)	8490	500	mg/l	10
	<b>2811070248</b>	<b>M-52</b>				
11/13/08		Chromium, Total, ICAP	6.3		mg/l	0.020
11/11/08		Metals digestion performed.	Y		Yes/No	
11/07/08		PH (H3=past HT, not compliant)	7.6		Units	0.0010
11/09/08		Perchlorate	940000		ug/l	80000
11/11/08		Total Dissolved Solid (TDS)	7560	500	mg/l	10
	<b>2811070249</b>	<b>M-50</b>				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
 Hits Report  
 #258563

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

Samples Received  
 06-nov-2008 15:50:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2811070249	M-50				
11/13/08	Chromium, Total, ICAP		32		mg/l	0.10
11/11/08	Metals digestion performed.		Y		Yes/No	
11/07/08	PH (H3=past HT, not compliant)		7.5		Units	0.0010
11/09/08	Perchlorate		1070000		ug/l	80000
11/11/08	Total Dissolved Solid (TDS)		16100	500	mg/l	10
	2811070250	M-34				
11/13/08	Chromium, Total, ICAP		14		mg/l	0.050
11/11/08	Metals digestion performed.		Y		Yes/No	
11/07/08	PH (H3=past HT, not compliant)		7.5		Units	0.0010
11/09/08	Perchlorate		1450000		ug/l	80000
11/11/08	Total Dissolved Solid (TDS)		9640	500	mg/l	10
	2811070251	M-35				
11/13/08	Chromium, Total, ICAP		6.5		mg/l	0.020
11/11/08	Metals digestion performed.		Y		Yes/No	
11/07/08	PH (H3=past HT, not compliant)		7.7		Units	0.0010
11/09/08	Perchlorate		275000		ug/l	20000
11/11/08	Total Dissolved Solid (TDS)		5540	500	mg/l	10
	2811070252	M-19				
11/19/08	Chromium, Total, ICAP		0.52		mg/l	0.020
11/18/08	Metals digestion performed.		Y		Yes/No	
11/12/08	PH (H3=past HT, not compliant)		7.8		Units	0.0010
11/09/08	Perchlorate		2520		ug/l	200
11/11/08	Total Dissolved Solid (TDS)		5040	500	mg/l	10

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Laboratory  
Hits Report  
#258563

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

Samples Received  
06-nov-2008 15:50:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2811070252	M-19				
	2811070253	M-39				
11/19/08	Chromium, Total, ICAP		5.7		mg/l	0.020
11/18/08	Metals digestion performed.		Y		Yes/No	
11/07/08	PH (H3=past HT, not compliant)		7.5		Units	0.0010
11/11/08	Perchlorate		458000		ug/l	40000
11/11/08	Total Dissolved Solid (TDS)		7790	500	mg/l	10
	2811070254	M-68				
11/19/08	Chromium, Total, ICAP		1.2		mg/l	0.020
11/18/08	Metals digestion performed.		Y		Yes/No	
11/07/08	PH (H3=past HT, not compliant)		7.7		Units	0.0010
11/09/08	Perchlorate		79200		ug/l	4000
11/11/08	Total Dissolved Solid (TDS)		5920	500	mg/l	10
	2811070255	M-61				
11/19/08	Chromium, Total, ICAP		1.6		mg/l	0.020
11/18/08	Metals digestion performed.		Y		Yes/No	
11/07/08	PH (H3=past HT, not compliant)		7.6		Units	0.0010
11/11/08	Perchlorate		115000		ug/l	8000
11/11/08	Total Dissolved Solid (TDS)		5890	500	mg/l	10
	2811070256	I-K				
11/19/08	Chromium, Total, ICAP		1.4		mg/l	0.020
11/18/08	Metals digestion performed.		Y		Yes/No	
11/12/08	PH (H3=past HT, not compliant)		7.5		Units	0.0010

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 Monrovia, California 91016-3829  
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Laboratory  
 Hits Report  
 #258563

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

Samples Received  
 06-nov-2008 15:50:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2811070256	I-K				
11/09/08	Perchlorate		93700		ug/l	4000
11/10/08	Total Dissolved Solid (TDS)		5950	500	mg/l	10
	2811070257	I-J				
11/19/08	Chromium, Total, ICAP		3.3		mg/l	0.020
11/18/08	Metals digestion performed.		Y		Yes/No	
11/12/08	PH (H3=past HT, not compliant)		7.6		Units	0.0010
11/09/08	Perchlorate		257000		ug/l	20000
11/10/08	Total Dissolved Solid (TDS)		6540	500	mg/l	10
	2811070258	I-Z				
11/19/08	Chromium, Total, ICAP		12		mg/l	0.050
11/18/08	Metals digestion performed.		Y		Yes/No	
11/12/08	PH (H3=past HT, not compliant)		7.6		Units	0.0010
11/12/08	Perchlorate		534000		ug/l	40000
11/10/08	Total Dissolved Solid (TDS)		9390	500	mg/l	10
	2811070259	I-I				
11/19/08	Chromium, Total, ICAP		23		mg/l	0.050
11/18/08	Metals digestion performed.		Y		Yes/No	
11/12/08	PH (H3=past HT, not compliant)		7.6		Units	0.0010
11/12/08	Perchlorate		1070000		ug/l	80000
11/10/08	Total Dissolved Solid (TDS)		13100	500	mg/l	10
	2811070260	I-V				
11/19/08	Chromium, Total, ICAP		24		mg/l	0.050

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#258563

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Susan Crowley  
PO Box 55  
Henderson , NV 89009

Samples Received  
06-nov-2008 15:50:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2811070260	I-V				
11/18/08		Metals digestion performed.	Y		Yes/No	
11/12/08		PH (H3=past HT, not compliant)	7.5		Units	0.0010
11/12/08		Perchlorate	1840000		ug/l	80000
11/10/08		Total Dissolved Solid (TDS)	14800	500	mg/l	10
	2811070261	M-84				
11/19/08		Chromium, Total, ICAP	0.066		mg/l	0.020
11/07/08		Hexavalent chromium (Cr VI)	0.056		mg/l	0.0050
11/18/08		Metals digestion performed.	Y		Yes/No	
11/07/08		PH (H3=past HT, not compliant)	7.9		Units	0.0010
11/20/08		Perchlorate	8930		ug/l	800
11/11/08		Total Dissolved Solid (TDS)	1020	500	mg/l	10
	2811070264	M-10				
11/19/08		Chromium, Total, ICAP	0.84		mg/l	0.010
11/18/08		Metals digestion performed.	Y		Yes/No	
11/07/08		PH (H3=past HT, not compliant)	7.4		Units	0.0010
11/20/08		Perchlorate	23600		ug/l	2000
11/11/08		Total Dissolved Solid (TDS)	3080	500	mg/l	10
	2811070265	EB-2				
11/07/08		Hexavalent chromium (Cr VI)	0.017		mg/l	0.0050
11/18/08		Metals digestion performed.	Y		Yes/No	
11/07/08		PH (H3=past HT, not compliant)	6.1		Units	0.0010
11/20/08		Perchlorate	127		ug/l	8.0
	2811070266	M-11				

SUMMARY OF POSITIVE DATA ONLY.





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Laboratory  
Hits Report  
#258563

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

Samples Received  
06-nov-2008 15:50:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2811070266	M-11				
11/19/08	Chromium, Total, ICAP		3.6		mg/l	0.020
11/07/08	Hexavalent chromium (Cr VI)		3.38		mg/l	0.10
11/18/08	Metals digestion performed.		Y		Yes/No	
11/07/08	PH (H3=past HT, not compliant)		7.9		Units	0.0010
11/21/08	Perchlorate		50400		ug/l	4000
11/11/08	Total Dissolved Solid (TDS)		3520	500	mg/l	10
	2811070273	MD-1				
11/19/08	Chromium, Total, ICAP		3.7		mg/l	0.020
11/07/08	Hexavalent chromium (Cr VI)		3.58		mg/l	0.10
11/18/08	Metals digestion performed.		Y		Yes/No	
11/07/08	PH (H3=past HT, not compliant)		7.9		Units	0.0010
11/14/08	Perchlorate		48900		ug/l	4000
11/10/08	Total Dissolved Solid (TDS)		3620	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Data Report  
#258563

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

Samples Received  
11/06/08

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-92 (2811070244)</b>					<b>Sampled on 11/05/08 05:35</b>			
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	884	ug/l	40	10
11/11/08	11/13/08 00:00	460443	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	11/11/08 20:36		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
11/10/08	11/10/08 17:00	460128	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	1970 (B7)	mg/l	10	1
<b>M-97 (2811070246)</b>					<b>Sampled on 11/05/08 05:48</b>			
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	74400	ug/l	4000	1000
11/11/08	11/13/08 00:00	460443	( ML/EPA 6010B )	Chromium, Total, ICAP	0.039	mg/l	0.020	2
	11/11/08 20:36		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
11/10/08	11/10/08 17:00	460128	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	3560 (B7)	mg/l	10	1
<b>M-31A (2811070247)</b>					<b>Sampled on 11/05/08 09:23</b>			
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	1310000	ug/l	80000	20000
11/11/08	11/13/08 00:00	460443	( ML/EPA 6010B )	Chromium, Total, ICAP	11	mg/l	0.050	5
	11/11/08 20:36		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/12/08 00:00	460153	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	8490	mg/l	10	1
<b>M-52 (2811070248)</b>					<b>Sampled on 11/05/08 09:34</b>			
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	940000	ug/l	60000	20000
11/11/08	11/13/08 00:00	460443	( ML/EPA 6010B )	Chromium, Total, ICAP	6.3	mg/l	0.020	2
	11/11/08 20:36		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	7560	mg/l	10	1



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 Data Report  
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Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-50 (2811070249)</b>		<b>Sampled on 11/05/08 09:55</b>						
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	1070000	ug/l	80000	20000
11/11/08	11/13/08 00:00	460443	( ML/EPA 6010B )	Chromium, Total, ICAP	32	mg/l	0.10	10
	11/11/08 20:36		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	16100	mg/l	10	1
<b>M-34 (2811070250)</b>		<b>Sampled on 11/05/08 10:10</b>						
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	1450000	ug/l	80000	20000
11/11/08	11/13/08 00:00	460443	( ML/EPA 6010B )	Chromium, Total, ICAP	14	mg/l	0.050	5
	11/11/08 20:36		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	9640	mg/l	10	1
<b>M-35 (2811070251)</b>		<b>Sampled on 11/05/08 10:25</b>						
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	275000	ug/l	20000	5000
11/11/08	11/13/08 00:00	460443	( ML/EPA 6010B )	Chromium, Total, ICAP	6.5	mg/l	0.020	2
	11/11/08 20:36		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	5540	mg/l	10	1
<b>M-19 (2811070252)</b>		<b>Sampled on 11/05/08 10:38</b>						
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	2520	ug/l	200	50
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	0.52	mg/l	0.020	2
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/12/08 00:00	460153	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	5040	mg/l	10	1
<b>M-39 (2811070253)</b>		<b>Sampled on 11/05/08 10:56</b>						
	11/11/08 18:02	460120	( EPA 314 )	Perchlorate	458000	ug/l	40000	10000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	5.7	mg/l	0.020	2
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	7790	mg/l	10	1



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Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-68 (2811070254)</b>				<b>Sampled on 11/05/08 11:07</b>				
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	79200	ug/l	4000	1000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	1.2	mg/l	0.020	2
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	5920	mg/l	10	1
<b>M-61 (2811070255)</b>				<b>Sampled on 11/05/08 11:18</b>				
	11/11/08 18:02	460120	( EPA 314 )	Perchlorate	115000	ug/l	8000	2000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	1.6	mg/l	0.020	2
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459612	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
11/11/08	11/11/08 17:00	460490	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	5890	mg/l	10	1
<b>I-K (2811070256)</b>				<b>Sampled on 11/05/08 07:40</b>				
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	93700	ug/l	4000	1000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	1.4	mg/l	0.020	2
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/12/08 00:00	460153	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
11/10/08	11/10/08 17:00	460128	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	5950(B7)	mg/l	10	1
<b>I-J (2811070257)</b>				<b>Sampled on 11/05/08 07:50</b>				
	11/09/08 00:00	459759	( EPA 314 )	Perchlorate	257000	ug/l	20000	5000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	3.3	mg/l	0.020	2
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/12/08 00:00	460153	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
11/10/08	11/10/08 17:00	460128	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	6540(B7)	mg/l	10	1
<b>I-Z (2811070258)</b>				<b>Sampled on 11/05/08 08:00</b>				
	11/12/08 18:02	460120	( EPA 314 )	Perchlorate	534000	ug/l	40000	10000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	12	mg/l	0.050	5
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/12/08 00:00	460153	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
11/10/08	11/10/08 17:00	460128	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	9390(B7)	mg/l	10	1



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Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>I-I (2811070259)</b>		<b>Sampled on 11/05/08 08:08</b>						
	11/12/08 14:11	460212	( EPA 314 )	Perchlorate	1070000	ug/l	80000	20000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	23	mg/l	0.050	5
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/12/08 00:00	460153	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
11/10/08	11/10/08 17:00	460128	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	13100 (B7)	mg/l	10	1
<b>I-V (2811070260)</b>		<b>Sampled on 11/05/08 07:26</b>						
	11/12/08 14:11	460212	( EPA 314 )	Perchlorate	1840000	ug/l	80000	20000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	24	mg/l	0.050	5
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/12/08 00:00	460153	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
11/10/08	11/10/08 17:00	460128	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	14800 (B7)	mg/l	10	1
<b>M-84 (2811070261)</b>		<b>Sampled on 11/05/08 11:28</b>						
	11/20/08 00:00	461338	( EPA 314 )	Perchlorate	8930	ug/l	800	200
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	0.066	mg/l	0.020	2
	11/07/08 14:04	459545	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	0.056 (H3)	mg/l	0.0050	1
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459614	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
11/11/08	11/11/08 17:00	460490	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	1020	mg/l	10	1
<b>M-10 (2811070264)</b>		<b>Sampled on 11/05/08 13:18</b>						
	11/20/08 00:00	461338	( EPA 314 )	Perchlorate	23600	ug/l	2000	500
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	0.84	mg/l	0.010	1
	11/07/08 14:04	459545	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	ND (H3)	mg/l	0.0050	1
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459614	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
11/11/08	11/11/08 17:00	460490	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3080	mg/l	10	1



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Laboratory  
 Data Report  
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Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>EB-2 (2811070265)</b>		<b>Sampled on 11/05/08 10:00</b>						
	11/20/08 00:00	461338	( EPA 314 )	Perchlorate	127	ug/l	8.0	2
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.010	1
	11/07/08 14:04	459545	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	0.017(H3)	mg/l	0.0050	1
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459614	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	6.1	Units	0.0010	1
11/11/08	11/11/08 16:00	460481	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	ND	mg/l	10	1
<b>M-11 (2811070266)</b>		<b>Sampled on 11/05/08 12:15</b>						
	11/21/08 13:56	461391	( EPA 314 )	Perchlorate	50400	ug/l	4000	1000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	3.6	mg/l	0.020	2
	11/07/08 14:04	459545	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	3.38(H3)	mg/l	0.10	20
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459614	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
11/11/08	11/11/08 17:00	460490	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3520	mg/l	10	1
<b>MD-1 (2811070273)</b>		<b>Sampled on 11/05/08 00:00</b>						
	11/14/08 02:01	460381	( EPA 314 )	Perchlorate	48900	ug/l	4000	1000
11/18/08	11/19/08 00:00	461190	( ML/EPA 6010B )	Chromium, Total, ICAP	3.7	mg/l	0.020	2
	11/07/08 14:04	459545	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	3.58(H3)	mg/l	0.10	20
	11/18/08 20:39		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	11/07/08 00:00	459614	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
11/10/08	11/10/08 17:00	460128	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3620(B7)	mg/l	10	1



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Laboratory  
QC Summary  
#258563

Tronox LLC - Henderson

QC Ref #0

- Metals sample pH

Analysis Date: 11/10/2008

2811070244	M-92	Analyzed by: jrf
2811070244	M-92	Analyzed by: jrf
2811070246	M-97	Analyzed by: jrf
2811070246	M-97	Analyzed by: jrf
2811070247	M-31A	Analyzed by: jrf
2811070247	M-31A	Analyzed by: jrf
2811070248	M-52	Analyzed by: jrf
2811070248	M-52	Analyzed by: jrf
2811070249	M-50	Analyzed by: jrf
2811070249	M-50	Analyzed by: jrf
2811070250	M-34	Analyzed by: jrf
2811070250	M-34	Analyzed by: jrf
2811070251	M-35	Analyzed by: jrf
2811070251	M-35	Analyzed by: jrf
2811070252	M-19	Analyzed by: jrf
2811070252	M-19	Analyzed by: jrf
2811070253	M-39	Analyzed by: jrf
2811070253	M-39	Analyzed by: jrf
2811070254	M-68	Analyzed by: jrf
2811070254	M-68	Analyzed by: jrf
2811070255	M-61	Analyzed by: jrf
2811070255	M-61	Analyzed by: jrf
2811070256	I-K	Analyzed by: jrf
2811070256	I-K	Analyzed by: jrf
2811070257	I-J	Analyzed by: jrf
2811070257	I-J	Analyzed by: jrf
2811070258	I-Z	Analyzed by: jrf
2811070258	I-Z	Analyzed by: jrf
2811070259	I-I	Analyzed by: jrf
2811070259	I-I	Analyzed by: jrf
2811070260	I-V	Analyzed by: jrf
2811070260	I-V	Analyzed by: jrf
2811070260	I-V	Analyzed by: maria
2811070261	M-84	Analyzed by: jrf
2811070261	M-84	Analyzed by: jrf
2811070264	M-10	Analyzed by: jrf
2811070264	M-10	Analyzed by: jrf
2811070265	EB-2	Analyzed by: jrf
2811070265	EB-2	Analyzed by: jrf
2811070266	M-11	Analyzed by: jrf
2811070266	M-11	Analyzed by: jrf
2811070273	MD-1	Analyzed by: jrf
2811070273	MD-1	Analyzed by: jrf



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Tronox LLC - Henderson  
(continued)

QC Ref #459545 - Hexavalent chromium (Cr VI) Analysis Date: 11/07/2008

2811070261	M-84	Analyzed by: azs
2811070264	M-10	Analyzed by: azs
2811070265	EB-2	Analyzed by: azs
2811070266	M-11	Analyzed by: azs
2811070273	MD-1	Analyzed by: azs

QC Ref #459612 - PH (H3=past HT, not compliant) Analysis Date: 11/07/2008

2811070244	M-92	Analyzed by: sar
2811070246	M-97	Analyzed by: sar
2811070248	M-52	Analyzed by: sar
2811070249	M-50	Analyzed by: sar
2811070250	M-34	Analyzed by: sar
2811070251	M-35	Analyzed by: sar
2811070253	M-39	Analyzed by: sar
2811070254	M-68	Analyzed by: sar
2811070255	M-61	Analyzed by: sar

QC Ref #459614 - PH (H3=past HT, not compliant) Analysis Date: 11/07/2008

2811070261	M-84	Analyzed by: sar
2811070264	M-10	Analyzed by: sar
2811070265	EB-2	Analyzed by: sar
2811070266	M-11	Analyzed by: sar
2811070273	MD-1	Analyzed by: sar

QC Ref #459759 - Perchlorate

Analysis Date: 11/09/2008

2811070244	M-92	Analyzed by: ser
2811070246	M-97	Analyzed by: ser
2811070247	M-31A	Analyzed by: ser
2811070248	M-52	Analyzed by: ser
2811070249	M-50	Analyzed by: ser
2811070250	M-34	Analyzed by: ser
2811070251	M-35	Analyzed by: ser
2811070252	M-19	Analyzed by: ser
2811070254	M-68	Analyzed by: ser





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Tronox LLC - Henderson  
(continued)

2811070256	I-K	Analyzed by: ser
2811070257	I-J	Analyzed by: ser

**QC Ref #460120 - Perchlorate**

**Analysis Date: 11/11/2008**

2811070253	M-39	Analyzed by: ser
2811070255	M-61	Analyzed by: ser
2811070258	I-Z	Analyzed by: ser

**QC Ref #460128 - Total Dissolved Solid (TDS)**

**Analysis Date: 11/10/2008**

2811070244	M-92	Analyzed by: yaa
2811070246	M-97	Analyzed by: yaa
2811070256	I-K	Analyzed by: yaa
2811070257	I-J	Analyzed by: yaa
2811070258	I-Z	Analyzed by: yaa
2811070259	I-I	Analyzed by: yaa
2811070260	I-V	Analyzed by: yaa
2811070273	MD-1	Analyzed by: yaa

**QC Ref #460153 - PH (H3=past HT, not compliant) Analysis Date: 11/12/2008**

2811070247	M-31A	Analyzed by: sar
2811070252	M-19	Analyzed by: sar
2811070256	I-K	Analyzed by: sar
2811070257	I-J	Analyzed by: sar
2811070258	I-Z	Analyzed by: sar
2811070259	I-I	Analyzed by: sar
2811070260	I-V	Analyzed by: sar

**QC Ref #460212 - Perchlorate**

**Analysis Date: 11/12/2008**

2811070259	I-I	Analyzed by: ser
2811070260	I-V	Analyzed by: ser



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Tronox LLC - Henderson  
(continued)

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QC Ref #460381 - Perchlorate

Analysis Date: 11/14/2008

2811070273

MD-1

Analyzed by: ser

QC Ref #460443 - Chromium, Total, ICAP

Analysis Date: 11/13/2008

2811070244

M-92

Analyzed by: csk

2811070246

M-97

Analyzed by: csk

2811070247

M-31A

Analyzed by: csk

2811070248

M-52

Analyzed by: csk

2811070249

M-50

Analyzed by: csk

2811070250

M-34

Analyzed by: csk

2811070251

M-35

Analyzed by: csk

QC Ref #460481 - Total Dissolved Solid (TDS)

Analysis Date: 11/11/2008

2811070247

M-31A

Analyzed by: yaa

2811070248

M-52

Analyzed by: yaa

2811070249

M-50

Analyzed by: yaa

2811070250

M-34

Analyzed by: yaa

2811070251

M-35

Analyzed by: yaa

2811070252

M-19

Analyzed by: yaa

2811070253

M-39

Analyzed by: yaa

2811070254

M-68

Analyzed by: yaa

2811070265

EB-2

Analyzed by: yaa

QC Ref #460490 - Total Dissolved Solid (TDS)

Analysis Date: 11/11/2008

2811070255

M-61

Analyzed by: yaa

2811070261

M-84

Analyzed by: yaa

2811070264

M-10

Analyzed by: yaa

2811070266

M-11

Analyzed by: yaa



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Tronox LLC - Henderson  
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QC Ref #461190 - Chromium, Total, ICAP

Analysis Date: 11/19/2008

2811070252	M-19	Analyzed by: csk
2811070253	M-39	Analyzed by: csk
2811070254	M-68	Analyzed by: csk
2811070255	M-61	Analyzed by: csk
2811070256	I-K	Analyzed by: csk
2811070257	I-J	Analyzed by: csk
2811070258	I-Z	Analyzed by: csk
2811070259	I-I	Analyzed by: csk
2811070260	I-V	Analyzed by: csk
2811070261	M-84	Analyzed by: csk
2811070264	M-10	Analyzed by: csk
2811070265	EB-2	Analyzed by: csk
2811070266	M-11	Analyzed by: csk
2811070273	MD-1	Analyzed by: csk

QC Ref #461338 - Perchlorate

Analysis Date: 11/20/2008

2811070261	M-84	Analyzed by: ser
2811070264	M-10	Analyzed by: ser
2811070265	EB-2	Analyzed by: ser

QC Ref #461391 - Perchlorate

Analysis Date: 11/21/2008

2811070266	M-11	Analyzed by: ser
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QC Ref #459545                      Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	11060300	MGL		( 0-0 )	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.055	MGL	110.0	( 85-115 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.053	MGL	106.0	( 85-115 )	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.005	MGL	100.0	( 50-150 )	
MS	Hexavalent chromium (Cr VI)	0.05	0.057	MGL	114.0	( 70-130 )	
MSD	Hexavalent chromium (Cr VI)	0.05	0.056	MGL	112.0	( 70-130 )	

QC Ref #459612                      PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	8.12	8.13	UNIT		( 0-20 )	0.1

QC Ref #459614                      PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.66	7.66	UNIT		( 0-20 )	0.0

QC Ref #459759                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	11060302	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.4	UGL	101.6	( 85-115 )	
LCS2	Perchlorate	25.0	26.0	UGL	104.0	( 85-115 )	
LCS3	Perchlorate	4	3.30	UGL	82.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.8	UGL	103.2	( 80-120 )	
MSD	Perchlorate	25.0	26.2	UGL	104.8	( 80-120 )	
RPD_LCS	Perchlorate	101.600	104.000	UGL	2.3	( 0-15 )	
RPD_MS	Perchlorate	103.200	104.800	UGL	1.0	( 0-15 )	

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.



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Tronox LLC - Henderson  
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## QC Ref #460120

## Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	11070075	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	26.2	UGL	104.8	( 85-115 )	
LCS2	Perchlorate	25.0	26.0	UGL	104.0	( 85-115 )	
LCS3	Perchlorate	4	4.34	UGL	108.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.6	UGL	98.4	( 80-120 )	
MSD	Perchlorate	25.0	24.3	UGL	97.2	( 80-120 )	
RPD_LCS	Perchlorate	104.800	104.000	UGL	0.8	( 0-15 )	
RPD_MS	Perchlorate	98.400	97.200	UGL	1.0	( 0-15 )	

## QC Ref #460128

## Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	11070095	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	46	47	MGL		( 0-10 )	2.2
LCS1	Total Dissolved Solid (TDS)	175	176	MGL	100.6	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	688	MGL	98.3	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<u>14</u>	MGL	<u>0.0</u>		
MRL_CHK	Total Dissolved Solid (TDS)	10.0	10	MGL	100.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	100.571	98.286	MGL	2.3	( 0-20 )	

## QC Ref #460153

## PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.61	7.61	UNIT		( 0-20 )	0.0

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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.

Tronox LLC - Henderson  
 (continued)

**QC Ref #460212                      Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	11060417	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.3	UGL	101.2	( 85-115 )	
LCS2	Perchlorate	25.0	24.9	UGL	99.6	( 85-115 )	
LCS3	Perchlorate	4	3.95	UGL	98.8	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.0	UGL	96.0	( 80-120 )	
MSD	Perchlorate	25.0	24.9	UGL	99.6	( 80-120 )	
RPD_LCS	Perchlorate	101.200	99.600	UGL	1.6	( 0-15 )	
RPD_MS	Perchlorate	96.000	99.600	UGL	1.0	( 0-15 )	

**QC Ref #460381                      Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	11120337	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.0	UGL	100.0	( 85-115 )	
LCS2	Perchlorate	25.0	25.2	UGL	100.8	( 85-115 )	
LCS3	Perchlorate	4	3.92	UGL	98.0	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.4	UGL	97.6	( 80-120 )	
MSD	Perchlorate	25.0	26.0	UGL	104.0	( 80-120 )	
RPD_LCS	Perchlorate	100.000	100.800	UGL	0.8	( 0-15 )	
RPD_MS	Perchlorate	97.600	104.000	UGL	1.1	( 0-15 )	

**QC Ref #460443                      Chromium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	11060308	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 85-115 )	

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**Tronox LLC - Henderson  
 (continued)**

Sample ID	Analyte	ND	Value	MGL	Yield (%)	Limits (%)
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL		
MRL_CHK	Chromium, Total, ICAP	0.010	0.0096	MGL	96.0	( 50-150 )
MS	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )
MS2	Chromium, Total, ICAP	1.00	0.857	MGL	85.7	( 70-130 )
MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )
MSD2	Chromium, Total, ICAP	1.00	0.709	MGL	70.9	( 70-130 )

**QC Ref #460481                      Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	11060295	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	8190	8140	MGL		( 0-10 )	0.6
LCS1	Total Dissolved Solid (TDS)	175	162	MGL	92.6	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	674	MGL	96.3	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	13	MGL	130.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	92.571	96.286	MGL	3.9	( 0-20 )	

**QC Ref #460490                      Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	11060449	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	222	212	MGL		( 0-10 )	4.6
LCS1	Total Dissolved Solid (TDS)	175	164	MGL	93.7	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	662	MGL	94.6	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	9	MGL	90.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	93.714	94.571	MGL	0.9	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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Tronox LLC - Henderson  
(continued)

QC Ref #461190                      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	11070264	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.10	MGL	110.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0111	MGL	111.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	1.10	MGL	110.0	( 70-130 )	

QC Ref #461338                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	11070294	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	26.8	UGL	107.2	( 85-115 )	
LCS2	Perchlorate	25.0	25.9	UGL	103.6	( 85-115 )	
LCS3	Perchlorate	4	4.64	UGL	116.0	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.7	UGL	98.8	( 80-120 )	
MSD	Perchlorate	25.0	24.0	UGL	96.0	( 80-120 )	
RPD_LCS	Perchlorate	107.200	103.600	UGL	3.4	( 0-15 )	
RPD_MS	Perchlorate	98.800	96.000	UGL	1.0	( 0-15 )	

QC Ref #461391                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	11190340	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.2	UGL	100.8	( 85-115 )	
LCS2	Perchlorate	25.0	24.9	UGL	99.6	( 85-115 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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## Tronox LLC - Henderson (continued)

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LCS3	Perchlorate	4	4.20	UGL	105.0	( 75-125 )
MBLK	Perchlorate	ND	<4.0	UGL		
MS	Perchlorate	25.0	22.4	UGL	89.6	( 80-120 )
MSD	Perchlorate	25.0	22.9	UGL	91.6	( 80-120 )
RPD_LCS	Perchlorate	100.800	99.600	UGL	1.2	( 0-15 )
RPD_MS	Perchlorate	89.600	91.600	UGL	1.0	( 0-15 )

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  
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