



# 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  
Jul 16 2009  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager



Report#: 270439R  
Project: CLO4  
PO#: Susan Crowle

Report#270439R replaces the original Report.

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 24 page[s].



BUILDING A BETTER WORLD

July 17, 2009

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

Subject: Case Narrative report 270439R

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 7, 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:

The report was revised to correct QC in the EDD.

Hex Chrome was received and analyzed past hold time.

Several TDS samples were reported from past hold time re-analyses because initial analyses did not match historical data and sample volumes used for the test are very small due to high TDS, increasing potential for error.

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,

Andrew Eaton, PhD  
Project Manager



# CHAIN OF CUSTODY RECORD

270439

MONTGOMERY WATSON LABORATORIES

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

MPLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: MLB

SAMPLE TEMP, RECEIPT AT LAB: 30

BLUE ICE: FROZEN  PARTIALLY FROZEN  THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

Quarternly Groundwater Sampling

Schedule B

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

(check for yes)

KERRIMCGEE-MP

Sampler Michele Brown

Michele Brown

Tronox LLC - Henderson Plant  
PO Box 55  
Henderson, NV 89009

Susan Crowley (702) 651-2234

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP
539	5-6-09		M-92	RGW	X	
554	5-6-09		M-97	RGW	X	
646	5-6-09		M-33	RGW	X	
709	5-6-09		M-31A	RGW	X	
721	5-6-09		M-52	RGW	X	
741	5-6-09		M-50	RGW	X	
753	5-6-09		M-21	RGW	X	
810	5-6-09		M-34	RGW	X	
826	5-6-09		M-35	RGW	X	
843	5-6-09		M-19	RGW	X	
910	5-6-09		M-39	RGW	X	
928	5-6-09		M-68	RGW	X	

See Bottle Order  
NO3 9056  
CLO3 9056  
CRVI 7196  
CLO4  
TDS  
PH 9040  
CR 6010

SAMPLER Comments

2 Bottles  
2 Bottles  
2 Bottles  
2 Bottles  
2 Bottles  
2 Bottles  
2 Bottles  
2 Bottles  
2 Bottles  
2 Bottles  
2 Bottles  
4 Bottles  
2 Bottles

\* MATRIX TYPES:

Reported by Volume:  
CFW = Chloraminated Finished Water  
FW = Other Finished Water

RGW = Raw Ground Water  
RSW = Raw Surface Water

CWM = Chlorinated Waste Water  
WW = Other Waste Water  
SW = Storm Water

Reported by Weight:  
SO = Soil  
SL = Sludge

SIGNATURE

PRINT NAME

COMPANY/TITLE

TIME

DATE

RELINQUISHED BY: Michele Brown

Michele Brown

Veolia Water NA for Tronox LLC - Henderson Plant

12:00PM

RECEIVED BY:

M. DEBES

M. DEBES

M. DEBES

103

RELINQUISHED BY:

RECEIVED BY:



# MONTGOMERY WATSON LABORATORIES

## CHAIN OF CUSTODY RECORD

750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016 (626) 386-1100 (900) 566-5227

SAMPLES CHECKED/LOGGED IN BY: \_\_\_\_\_

SAMPLE TEMP, RECEIPT AT LAB: \_\_\_\_\_

BLUE ICE:  FROZEN  PARTIALLY FROZEN  THAWED

INVLABS USE ONLY: \_\_\_\_\_

LOGIN COMMENTS: \_\_\_\_\_

TO BE COMPLETED BY SAMPLER:		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		(check for yes)	
COMPANY / PROJECT NAME		Quaternary Groundwater Sampling Schedule B		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)			
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	SAMPLER Comments
<p>KERRMCGEE-MP</p> <p>Sampler: Michele Brown</p> <p><i>Michele Brown</i></p> <p>Susan Crowley (702) 651-2234</p> <p>Trionox LLC - Henderson Plant</p> <p>PO Box 55</p> <p>Henderson, NV 89009</p>							
1007	5/6/09		M-14	RGW	X		2 Bottles
1028	5/6/09		M-13	RGW	X		2 Bottles
1048	5/6/09		M-88	RGW	X		2 Bottles
1134	5/6/09		M-11	RGW	X		5 Bottles
1154	5/6/09		M-12A	RGW	X		5 Bottles
1204	5/6/09		M-13	RGW	X		4 Bottles
	5/6/09		MD-5	RGW	X		2 Bottles
935	5/6/09		EB-2	RGW	X		3 Bottles
				RGW	X		Bottles
				RGW	X		Bottles
				RGW	X		Bottles
				RGW	X		Bottles
				RGW	X		Bottles
				RGW	X		Bottles
				RGW	X		Bottles
				RGW	X		Bottles
				RGW	X		Bottles
				RGW	X		Bottles

Reported by Volume: \_\_\_\_\_

Reported by Weight: \_\_\_\_\_

SO = Soil

SL = Sludge

RGW = Raw Ground Water

RSW = Raw Surface Water

CFW = Chlor(am)inated Finished Water

FW = Other Finished Water

CWM = Chlorinated Waste Water

WW = Other Waste Water

SW = Storm Water

Veolia Water NA for Trionox LLC - Henderson Plant

PRINT NAME: Michele Brown

COMPANY/TITLE: \_\_\_\_\_

DATE: 5-6-09 12:00PM

5-7-09 11:09

SIGNATURE: *Michele Brown*

RELINQUISHED BY: \_\_\_\_\_

RECEIVED BY: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_

RECEIVED BY: \_\_\_\_\_

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



Ship Date: 06MAY09  
ActWgt: 18.0 LB  
CAD: 2274147/NET9011  
Account#: S \*\*\*\*\*

Delivery Address Bar Code



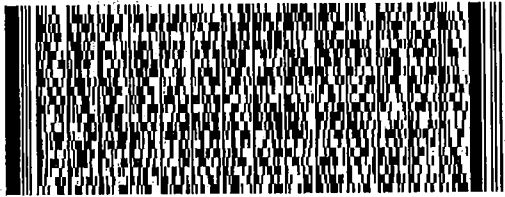
Ref # MSO #143691  
Invoice #  
PO #  
Dept #

SHIP TO: (626) 568-6400 BILL SENDER  
ATTN: SAMPLE RECEIVING  
MONTGOMERY WATSON LABS  
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

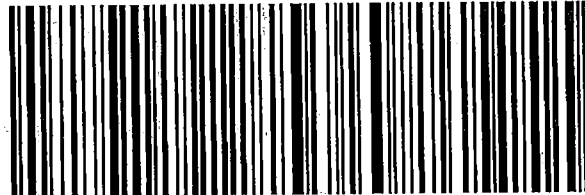
TRK# 7975 7187 0371  
0201

THU - 07MAY A2  
PRIORITY OVERNIGHT



**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.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://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.

THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPER'S NUMBER: 143691

RECEIVED subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

**From: TRONOX LLC**

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said Carrier (the word Carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another Carrier on the route to said destination. It is mutually agreed, as to each Carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the Shipper and accepted for himself and his assigns.

CARRIER <b>Federal Express</b>		Date <b>5/6/09</b>	FROM NO. STATION: STATE <b>Henderson, NV 89015</b>		
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400			Authorization <b>M. Skromyda</b>		
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect			FULL NAME OF SHIPPER TRONOX LLC		
NAR			CODE NO. WCN IS <b>1321.10181</b>		
CUSTOMER PO OR REQ'N NO.		SHIPPED FROM <b>Henderson, NV</b>			
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY		
	<b>Ice chest with water samples Monitoring Wells quarterly  One ice chest @ 18 lbs One ice chest @ 22 lbs One ice chest @ 66 lbs  Not Regulated</b>		<b>3 Coolers</b>		
TRUCK SHIPMENTS PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO    PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.		
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT		
		<b>0</b>			
<b>3</b>	<b>TOTAL GROSS WEIGHT 106</b>	<b>TOTAL TARE WEIGHT 0</b>	<b>106</b>		
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per			*Shippers Imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"		
THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.					
TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859		PER <b>Carron Williams</b>	AGENT	PER	



MWL 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 Ironox 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

Q Quarterly  
Week 1

**SO# 47781 26973 RS 0** **Sampler: Please Return this Paper with your samples**

Created by ADE

Ship Sample Kits to

Billing Address

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

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

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

Date Needed by Client  
04/30/09

Date Samples to Arrive at MWL  
05/09  
SHIP DATE

ATTN: Susan Crowley  
PHONE: 702-651-2234

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

Quote#  
ADE

# 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		second quarter only
15	CRV7196	1 125ml poly acid rinsed/ no preservative SHORT HOLDING TIME!!!!		NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht
22	NO39056	1 125ml poly/ no preservative SHORT HOLDING TIME!!!!		TDS count increased to 101 effective 6/16/06.; deleted EC as of 7-14-06
22	CLO39056	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	Note - client never received original shipment, as best they can tell. Please resend this one.

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



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 Ironox LLC- Henderson**

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

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

Q Quarterly  
 Week 1

**SO# 47781 26973 RS 0** **Sampler: Please Return this Paper with your samples**

Created by ADE

Order Date 04/23/09  
 Date Needed by Client 04/30/09  
 Date Samples to Arrive at MWL 05/08/09

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

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

ATTN: Susan Crowley  
 PHONE: 702-551-2234

ATTN: Susan Crowley  
 PHONE: 702-551-2234  
 FAX: 702-551-2310

Quote#  
 ADE

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		second quarter only
15	CRV17196	1 125ml poly acid rinsed/ no preservative		NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht
22	NO39056	1 125ml poly/ no preservative		TDS count increased to 101 effective 6/16/06;; deleted EC as of 7-14-06
22	CLO39056	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	Note - client never received original shipment, as best they can tell. Please resend this one.

Prepared By

Carrier Qty of Coolers Tracking Number

Date Shipped

ActiveCode Status



THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPER'S NUMBER: 143691

RECEIVED subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

From: TRONOX LLC

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said Carrier (the word Carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another Carrier on the route to said destination. It is mutually agreed, as to each Carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the Shipper and accepted for himself and his assigns.

CARRIER <b>Federal Express</b>		Date <b>5/6/09</b>	FROM NO. STATION: STATE <b>Henderson, NV 89015</b>	
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400			Authorization <b>M. Skromyda</b>	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC <b>CODE NO. WCN IS</b> <b>1321.10181</b>		
N/A R		CUSTOMER PO OR REQ'N NO.	SHIPPED FROM <b>Henderson, NV</b>	
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY	f it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.  Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement: The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. <b>TRONOX LLC</b>  The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement.
	<b>Ice chest with water samples</b>  <b>Monitoring Wells quarterly</b>  <b>One ice chest @ 18 lbs</b> <b>One ice chest @ 22 lbs</b> <b>One ice chest @ 66 lbs</b>  <b>Not Regulated</b>		<b>3 Coolers</b>	
TRUCK SHIPMENTS PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.  "Shippers Imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT	
<b>3</b>	<b>TOTAL GROSS WEIGHT 106</b>	<b>TOTAL TARE WEIGHT 0</b>	<b>106</b>	
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____				
THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.				
TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859		PER <b>Carron Williams</b>	AGENT	PER

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



J50110581302023

Ship Date: 06MAY09  
ActWgt: 66.0 LB  
CAD: 2274147//INET9011  
Account#: S \*\*\*\*\*

Delivery Address Bar Code



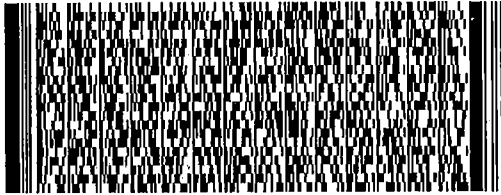
Ref # MSO #143691  
Invoice #  
PO #  
Dept #

SHIP TO: (626) 568-6400 BILL SENDER  
ATTN: SAMPLE RECEIVING  
MONTGOMERY WATSON LABS  
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

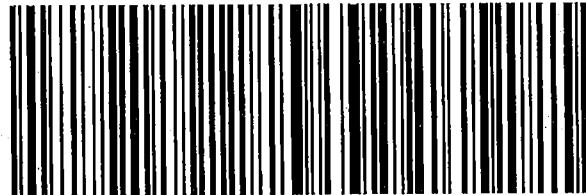
TRK# 7965 8421 4276  
0201

THU - 07MAY A2  
PRIORITY OVERNIGHT



**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.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://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#: 270439  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on 05/07/09. 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
2905070081	M-92	CLO4 CR6010	Water	06-may-2009 05:39:00
2905070082	M-97	CLO4 CR6010	Water	06-may-2009 05:54:00
2905070083	M-33	CLO4 CR6010	Water	06-may-2009 06:46:00
2905070084	M-31A	CLO4 CR6010	Water	06-may-2009 07:09:00
2905070085	M-52	CLO4 CR6010	Water	06-may-2009 07:21:00
2905070086	M-50	CLO4 CR6010	Water	06-may-2009 07:41:00
2905070087	M-21	CLO4 CR6010	Water	06-may-2009 07:53:00
2905070088	M-34	CLO4 CR6010	Water	06-may-2009 08:10:00
2905070089	M-35	CLO4 CR6010	Water	06-may-2009 08:26:00
2905070090	M-19	CLO4 CR6010	Water	06-may-2009 08:43:00
2905070091	M-39	CLO39056 CLO4 T TDS	Water CR6010	06-may-2009 09:10:00 PH9040
2905070092	M-68	CLO4 CR6010	Water	06-may-2009 09:28:00
2905070093	M-74	CLO4 CR6010	Water	06-may-2009 10:07:00
2905070094	M-73	CLO4 CR6010	Water	06-may-2009 10:28:00
2905070095	M-88	CLO4 CR6010	Water	06-may-2009 10:48:00
2905070096	M-11	CLO39056 CLO4	Water CR6010	06-may-2009 11:34:00 CRVI7196 NO39056 P

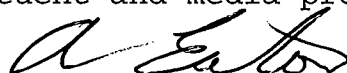
750 Foyal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

---

**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 correct QC for CR6010. (CLO39056) Due to misinjection eleven samples were analyzed in the last half of the batch. Sample was not reported and will be reanalyzed.

(QC Ref#: 2905070083)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)  
original result was 5600mg/L on 5/13/09.  
HA - Initial analysis within holding time. Reanalysis was past holding time.

(QC Ref#: 2905070084)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)  
original result was 9070mg/L on 5/13/09.  
HA - Initial analysis within holding time. Reanalysis was past holding time.

(QC Ref#: 2905070086)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)  
original result was 18650mg/L on 5/13/09.  
HA - Initial analysis within holding time. Reanalysis was past holding time.

(QC Ref#: 2905070088)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)  
original result was 10860mg/L on 5/13/09.  
HA - Initial analysis within holding time. Reanalysis was past holding time.

(QC Ref#: 2905070099)



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)

---

Report  
Comments  
#270439

**Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)**  
original result was 10500mg/L on 5/13/09.  
HA - Initial analysis within holding time. Reanalysis was  
past holding time.



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  
 Hits Report  
 #270439

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

Samples Received  
 07-may-2009 11:03:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2905070081</b>	<b>M-92</b>				
05/18/09		Metals digestion performed.	Y		Yes/No	
05/07/09		PH (H3=past HT, not compliant)	7.8		Units	0.0010
05/23/09		Perchlorate	902		ug/l	40
05/13/09		Total Dissolved Solid (TDS)	2000	500	mg/l	10
	<b>2905070082</b>	<b>M-97</b>				
05/25/09		Chromium, Total, ICAP	0.044		mg/l	0.020
05/27/09		Metals digestion performed.	Y		Yes/No	
05/07/09		PH (H3=past HT, not compliant)	7.6		Units	0.0010
05/23/09		Perchlorate	69600		ug/l	4000
05/13/09		Total Dissolved Solid (TDS)	3530	500	mg/l	10
	<b>2905070083</b>	<b>M-33</b>				
05/25/09		Chromium, Total, ICAP	0.28		mg/l	0.10
05/27/09		Metals digestion performed.	Y		Yes/No	
05/07/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
06/03/09		Perchlorate	218000		ug/l	20000
05/22/09		Total Dissolved Solid (TDS)	4020	500	mg/l	10
	<b>2905070084</b>	<b>M-31A</b>				
05/25/09		Chromium, Total, ICAP	13		mg/l	0.10
05/07/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
06/03/09		Perchlorate	1270000		ug/l	80000
05/22/09		Total Dissolved Solid (TDS)	7810	500	mg/l	10
	<b>2905070085</b>	<b>M-52</b>				

SUMMARY OF POSITIVE DATA ONLY.



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  
 Hits Report  
 #270439

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

Samples Received  
 07-may-2009 11:03:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2905070085</b>	<b>M-52</b>				
05/25/09	Chromium, Total, ICAP		5.6		mg/l	0.10
05/27/09	Metals digestion performed.		Y		Yes/No	
05/07/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
05/23/09	Perchlorate		864000		ug/l	40000
05/13/09	Total Dissolved Solid (TDS)		6930	500	mg/l	10
	<b>2905070086</b>	<b>M-50</b>				
05/25/09	Chromium, Total, ICAP		38		mg/l	0.20
05/27/09	Metals digestion performed.		Y		Yes/No	
05/07/09	PH (H3=past HT, not compliant)		7.3		Units	0.0010
06/03/09	Perchlorate		1200000		ug/l	80000
05/22/09	Total Dissolved Solid (TDS)		15100	500	mg/l	10
	<b>2905070087</b>	<b>M-21</b>				
05/25/09	Chromium, Total, ICAP		0.84		mg/l	0.020
05/27/09	Metals digestion performed.		Y		Yes/No	
05/07/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
05/23/09	Perchlorate		25000		ug/l	2000
05/13/09	Total Dissolved Solid (TDS)		3680	500	mg/l	10
	<b>2905070088</b>	<b>M-34</b>				
05/25/09	Chromium, Total, ICAP		14		mg/l	0.10
05/07/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
06/03/09	Perchlorate		1500000		ug/l	80000
05/22/09	Total Dissolved Solid (TDS)		9200	500	mg/l	10
	<b>2905070089</b>	<b>M-35</b>				

SUMMARY OF POSITIVE DATA ONLY.



750 Foyal 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  
 Hits Report  
 #270439

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

Samples Received  
 07-may-2009 11:03:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905070089	M-35				
05/25/09			Chromium, Total, ICAP	5.2	mg/l	0.10
05/07/09			PH (H3=past HT, not compliant)	7.7	Units	0.0010
05/28/09			Perchlorate	212000	ug/l	20000
05/13/09			Total Dissolved Solid (TDS)	4500	500 mg/l	10
	2905070090	M-19				
05/25/09			Chromium, Total, ICAP	0.35	mg/l	0.010
05/07/09			PH (H3=past HT, not compliant)	7.6	Units	0.0010
06/03/09			Perchlorate	1740	ug/l	80
05/13/09			Total Dissolved Solid (TDS)	3830	500 mg/l	10
	2905070091	M-39				
05/15/09			Chlorate by IC	1380000	ug/l	50000
05/25/09			Chromium, Total, ICAP	4.7	mg/l	0.050
05/18/09			Metals digestion performed.	Y	Yes/No	
05/07/09			PH (H3=past HT, not compliant)	7.4	Units	0.0010
05/28/09			Perchlorate	453000	ug/l	20000
05/13/09			Total Dissolved Solid (TDS)	6940	500 mg/l	10
	2905070092	M-68				
06/07/09			Chromium, Total, ICAP	1.1	mg/l	0.020
05/07/09			PH (H3=past HT, not compliant)	7.6	Units	0.0010
05/28/09			Perchlorate	87700	ug/l	4000
05/13/09			Total Dissolved Solid (TDS)	6050	500 mg/l	10
	2905070093	M-74				

SUMMARY OF POSITIVE DATA ONLY.





**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  
Hits Report  
#270439

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

Samples Received  
07-may-2009 11:03:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905070093	M-74				
05/25/09	Chromium, Total, ICAP		0.95		mg/l	0.020
05/07/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
05/28/09	Perchlorate		69300		ug/l	4000
05/13/09	Total Dissolved Solid (TDS)		5930	500	mg/l	10
	2905070094	M-73				
05/25/09	Chromium, Total, ICAP		4.8		mg/l	0.10
05/27/09	Metals digestion performed.		Y		Yes/No	
05/07/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
05/28/09	Perchlorate		341000		ug/l	20000
05/13/09	Total Dissolved Solid (TDS)		4970	500	mg/l	10
	2905070095	M-88				
06/07/09	Chromium, Total, ICAP		0.83		mg/l	0.020
06/04/09	Metals digestion performed.		Y		Yes/No	
05/07/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
05/28/09	Perchlorate		43800		ug/l	4000
05/13/09	Total Dissolved Solid (TDS)		6080	500	mg/l	10
	2905070096	M-11				
05/15/09	Chlorate by IC		649000		ug/l	20000
05/25/09	Chromium, Total, ICAP		3.9		mg/l	0.020
05/07/09	Hexavalent chromium (Cr VI)		3.72		mg/l	0.10
05/07/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010
06/03/09	Perchlorate		48600		ug/l	4000
05/13/09	Total Dissolved Solid (TDS)		3580	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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  
 Hits Report  
 #270439

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

Samples Received  
 07-may-2009 11:03:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905070096	M-11				
	2905070097	M-12A				
05/30/09	Chlorate by IC		2040000		ug/l	100000
05/25/09	Chromium, Total, ICAP		10		mg/l	0.10
05/07/09	Hexavalent chromium (Cr VI)		10.4		mg/l	0.50
05/18/09	Metals digestion performed.		Y		Yes/No	
05/07/09	PH (H3=past HT, not compliant)		8.0		Units	0.0010
05/28/09	Perchlorate		254000		ug/l	20000
05/13/09	Total Dissolved Solid (TDS)		7340	500	mg/l	10
	2905070098	M-13				
05/23/09	Chlorate by IC		289000		ug/l	10000
05/25/09	Chromium, Total, ICAP		0.84		mg/l	0.050
05/18/09	Metals digestion performed.		Y		Yes/No	
05/07/09	Nitrate as Nitrogen by IC		4.4		mg/l	1.0
05/07/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
05/28/09	Perchlorate		20100		ug/l	2000
05/13/09	Total Dissolved Solid (TDS)		3260	500	mg/l	10
	2905070099	MD-5				
05/25/09	Chromium, Total, ICAP		15		mg/l	0.20
05/07/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
06/03/09	Perchlorate		1580000		ug/l	80000
05/22/09	Total Dissolved Solid (TDS)		7350	500	mg/l	10
	2905070100	EB-2				

SUMMARY OF POSITIVE DATA ONLY.



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  
Hits Report  
#270439

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

Samples Received  
07-may-2009 11:03:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905070100	EB-2				
05/07/09	PH (H3=past HT, not compliant)		6.2		Units	0.0010
05/28/09	Perchlorate		70		ug/l	8.0



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  
 Data Report  
 #270439

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

Samples Received  
 05/07/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-92 (2905070081)</b>		<b>Sampled on 05/06/09 05:39</b>						
	05/23/09 00:00	485932	( EPA 314 )	Perchlorate	902	ug/l	40	10
05/15/09	05/25/09 00:00	486389	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	05/18/09 15:56		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 12:39	484017	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
05/13/09	05/13/09 19:00	484872	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	2000	mg/l	10	1
<b>M-97 (2905070082)</b>		<b>Sampled on 05/06/09 05:54</b>						
	05/23/09 00:00	485932	( EPA 314 )	Perchlorate	69600	ug/l	4000	1000
05/25/09	05/25/09 00:00	486391	( ML/EPA 6010B )	Chromium, Total, ICAP	0.044	mg/l	0.020	2
	05/27/09 13:49		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 12:39	484017	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 19:00	484872	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	3530	mg/l	10	1
<b>M-33 (2905070083)</b>		<b>Sampled on 05/06/09 06:46</b>						
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	218000	ug/l	20000	5000
05/25/09	05/25/09 00:00	486391	( ML/EPA 6010B )	Chromium, Total, ICAP	0.28	mg/l	0.10	10
	05/27/09 13:49		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 12:39	484017	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/22/09	05/22/09 12:50	485923	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	4020 (HA)	mg/l	10	1
<b>M-31A (2905070084)</b>		<b>Sampled on 05/06/09 07:09</b>						
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	1270000	ug/l	80000	20000
05/19/09	05/25/09 00:00	486390	( ML/EPA 6010B )	Chromium, Total, ICAP	13	mg/l	0.10	10
	05/07/09 12:39	484017	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/22/09	05/22/09 12:50	485923	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	7810 (HA)	mg/l	10	1



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  
 Data Report  
 #270439

Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-52 (2905070085)                    Sampled on 05/06/09 07:21</b>								
	05/23/09 00:00	485932	( EPA 314 )	Perchlorate	864000	ug/l	40000	10000
05/19/09	05/25/09 00:00	486390	( ML/EPA 6010B )	Chromium, Total, ICAP	5.6	mg/l	0.10	10
	05/27/09 13:49		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 12:39	484017	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 18:05	484872	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	6930	mg/l	10	1
<b>M-50 (2905070086)                    Sampled on 05/06/09 07:41</b>								
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	1200000	ug/l	80000	20000
05/19/09	05/25/09 00:00	486390	( ML/EPA 6010B )	Chromium, Total, ICAP	38	mg/l	0.20	20
	05/27/09 13:49		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
05/22/09	05/22/09 12:50	485923	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	15100 (HA)	mg/l	10	1
<b>M-21 (2905070087)                    Sampled on 05/06/09 07:53</b>								
	05/23/09 00:00	485932	( EPA 314 )	Perchlorate	25000	ug/l	2000	500
05/19/09	05/25/09 00:00	486390	( ML/EPA 6010B )	Chromium, Total, ICAP	0.84	mg/l	0.020	2
	05/27/09 13:49		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/13/09	05/13/09 19:00	484872	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	3680	mg/l	10	1
<b>M-34 (2905070088)                    Sampled on 05/06/09 08:10</b>								
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	1500000	ug/l	80000	20000
05/15/09	05/25/09 00:00	486389	( ML/EPA 6010B )	Chromium, Total, ICAP	14	mg/l	0.10	10
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/22/09	05/22/09 12:50	485923	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	9200 (HA)	mg/l	10	1
<b>M-35 (2905070089)                    Sampled on 05/06/09 08:26</b>								
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	212000	ug/l	20000	5000
05/19/09	05/25/09 00:00	486390	( ML/EPA 6010B )	Chromium, Total, ICAP	5.2	mg/l	0.10	10
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/13/09	05/13/09 19:00	484872	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	4500	mg/l	10	1



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  
 Data Report  
 #270439

Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-19 (2905070090)</b>				<b>Sampled on 05/06/09 08:43</b>				
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	1740	ug/l	80	20
05/15/09	05/25/09 00:00	486388	( ML/EPA 6010B )	Chromium, Total, ICAP	0.35	mg/l	0.010	1
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 19:00	484872	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3830	mg/l	10	1
<b>M-39 (2905070091)</b>				<b>Sampled on 05/06/09 09:10</b>				
	05/15/09 03:08	485169	( ML/EPA 9056 )	Chlorate by IC	1380000	ug/l	50000	5000
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	453000	ug/l	20000	5000
05/15/09	05/25/09 00:00	486388	( ML/EPA 6010B )	Chromium, Total, ICAP	4.7	mg/l	0.050	5
	05/18/09 15:56		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 14:36	484009	( ML/EPA 9056 )	Nitrate as Nitrogen by IC	ND	mg/l	2.5	25
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/13/09	05/13/09 18:05	484872	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	6940	mg/l	10	1
<b>M-68 (2905070092)</b>				<b>Sampled on 05/06/09 09:28</b>				
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	87700	ug/l	4000	1000
06/01/09	06/07/09 00:00	487102	( ML/EPA 6010B )	Chromium, Total, ICAP	1.1	mg/l	0.020	2
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 19:00	484872	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	6050	mg/l	10	1
<b>M-74 (2905070093)</b>				<b>Sampled on 05/06/09 10:07</b>				
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	69300	ug/l	4000	1000
05/15/09	05/25/09 00:00	486388	( ML/EPA 6010B )	Chromium, Total, ICAP	0.95	mg/l	0.020	2
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 20:00	484868	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	5930	mg/l	10	1
<b>M-73 (2905070094)</b>				<b>Sampled on 05/06/09 10:28</b>				
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	341000	ug/l	20000	5000
05/19/09	05/25/09 00:00	486390	( ML/EPA 6010B )	Chromium, Total, ICAP	4.8	mg/l	0.10	10
	05/27/09 13:49		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 20:05	484868	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	4970	mg/l	10	1



**MWH Laboratories**  
A Division of MWH Americas, Inc.

750 Foyal 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  
Data Report  
#270439

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-88 (2905070095)                      Sampled on 05/06/09 10:48</b>								
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	43800	ug/l	4000	1000
06/01/09	06/07/09 00:00	487102	( ML/EPA 6010B )	Chromium, Total, ICAP	0.83	mg/l	0.020	2
	06/04/09 00:00		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 13:33	484018	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 20:00	484868	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	6080	mg/l	10	1
<b>M-11 (2905070096)                      Sampled on 05/06/09 11:34</b>								
	05/15/09 03:08	485169	( ML/EPA 9056 )	Chlorate by IC	649000	ug/l	20000	2000
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	48600	ug/l	4000	1000
05/15/09	05/25/09 00:00	486388	( ML/EPA 6010B )	Chromium, Total, ICAP	3.9	mg/l	0.020	2
	05/07/09 12:04	484010	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	3.72	mg/l	0.10	20
	05/07/09 14:50	484009	( ML/EPA 9056 )	Nitrate as Nitrogen by IC	ND	mg/l	2.5	25
	05/07/09 14:20	484019	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
05/13/09	05/13/09 20:00	484868	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3580	mg/l	10	1
<b>M-12A (2905070097)                      Sampled on 05/06/09 11:54</b>								
	05/30/09 00:00	486645	( ML/EPA 9056 )	Chlorate by IC	2040000	ug/l	100000	10000
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	254000	ug/l	20000	5000
05/15/09	05/25/09 00:00	486389	( ML/EPA 6010B )	Chromium, Total, ICAP	10	mg/l	0.10	10
	05/07/09 12:04	484010	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	10.4	mg/l	0.50	100
	05/18/09 15:56		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 14:22	484009	( ML/EPA 9056 )	Nitrate as Nitrogen by IC	ND	mg/l	2.5	25
	05/07/09 14:20	484019	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	8.0	Units	0.0010	1
05/13/09	05/13/09 20:00	484868	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	7340	mg/l	10	1
<b>M-13 (2905070098)                      Sampled on 05/06/09 12:24</b>								
	05/23/09 00:00	485939	( ML/EPA 9056 )	Chlorate by IC	289000	ug/l	10000	1000
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	20100	ug/l	2000	500
05/15/09	05/25/09 00:00	486389	( ML/EPA 6010B )	Chromium, Total, ICAP	0.84	mg/l	0.050	5
	05/18/09 15:56		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 14:09	484009	( ML/EPA 9056 )	Nitrate as Nitrogen by IC	4.4	mg/l	1.0	10
	05/07/09 14:20	484019	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 20:00	484868	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3260	mg/l	10	1



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  
 Data Report  
 #270439

Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>MD-5 (2905070099)</b>		<b>Sampled on 05/06/09 00:00</b>						
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	1580000	ug/l	80000	20000
05/19/09	05/25/09 00:00	486390	( ML/EPA 6010B )	Chromium, Total, ICAP	15	mg/l	0.20	20
	05/07/09 14:20	484019	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/22/09	05/22/09 12:50	485923	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	7350 (HA)	mg/l	10	1
<b>EB-2 (2905070100)</b>		<b>Sampled on 05/06/09 09:35</b>						
	05/28/09 07:30	486373	( EPA 314 )	Perchlorate	70	ug/l	8.0	2
05/25/09	05/25/09 00:00	486391	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	05/07/09 12:04	484010	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.0050	1
	05/07/09 14:20	484019	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	6.2	Units	0.0010	1
05/13/09	05/13/09 20:00	484868	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	ND	mg/l	10	1





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  
 QC Summary  
 #270439

Tronox LLC - Henderson

QC Ref #484009 - Nitrate as Nitrogen by IC Analysis Date: 05/07/2009

2905070091	M-39	Analyzed by: vxt
2905070096	M-11	Analyzed by: vxt
2905070097	M-12A	Analyzed by: vxt
2905070098	M-13	Analyzed by: vxt

QC Ref #484010 - Hexavalent chromium (Cr VI) Analysis Date: 05/07/2009

2905070096	M-11	Analyzed by: azs
2905070097	M-12A	Analyzed by: azs
2905070100	EB-2	Analyzed by: azs

QC Ref #484017 - PH (H3=past HT, not compliant) Analysis Date: 05/07/2009

2905070081	M-92	Analyzed by: sar
2905070082	M-97	Analyzed by: sar
2905070083	M-33	Analyzed by: sar
2905070084	M-31A	Analyzed by: sar
2905070085	M-52	Analyzed by: sar

QC Ref #484018 - PH (H3=past HT, not compliant) Analysis Date: 05/07/2009

2905070086	M-50	Analyzed by: sar
2905070087	M-21	Analyzed by: sar
2905070088	M-34	Analyzed by: sar
2905070089	M-35	Analyzed by: sar
2905070090	M-19	Analyzed by: sar
2905070091	M-39	Analyzed by: sar
2905070092	M-68	Analyzed by: sar
2905070093	M-74	Analyzed by: sar
2905070094	M-73	Analyzed by: sar
2905070095	M-88	Analyzed by: sar

QC Ref #484019 - PH (H3=past HT, not compliant) Analysis Date: 05/07/2009

2905070096	M-11	Analyzed by: sar
2905070097	M-12A	Analyzed by: sar
2905070098	M-13	Analyzed by: sar
2905070099	MD-5	Analyzed by: sar
2905070100	EB-2	Analyzed by: sar



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  
QC Summary  
#270439

Tronox LLC - Henderson  
(continued)

---

QC Ref #484868 - Total Dissolved Solid (TDS) Analysis Date: 05/13/2009

2905070093	M-74	Analyzed by: jrf
2905070094	M-73	Analyzed by: jrf
2905070095	M-88	Analyzed by: jrf
2905070096	M-11	Analyzed by: jrf
2905070097	M-12A	Analyzed by: jrf
2905070098	M-13	Analyzed by: jrf
2905070100	EB-2	Analyzed by: jrf

QC Ref #484872 - Total Dissolved Solid (TDS) Analysis Date: 05/13/2009

2905070081	M-92	Analyzed by: jrf
2905070082	M-97	Analyzed by: jrf
2905070085	M-52	Analyzed by: jrf
2905070087	M-21	Analyzed by: jrf
2905070089	M-35	Analyzed by: jrf
2905070090	M-19	Analyzed by: jrf
2905070091	M-39	Analyzed by: jrf
2905070092	M-68	Analyzed by: jrf

QC Ref #485169 - Chlorate by IC Analysis Date: 05/15/2009

2905070091	M-39	Analyzed by: ser
2905070096	M-11	Analyzed by: ser

QC Ref #485923 - Total Dissolved Solid (TDS) Analysis Date: 05/22/2009

2905070083	M-33	Analyzed by: lmr
2905070084	M-31A	Analyzed by: lmr
2905070086	M-50	Analyzed by: lmr
2905070088	M-34	Analyzed by: lmr
2905070099	MD-5	Analyzed by: lmr



750 Foyal 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  
 QC Summary  
 #270439

Tronox LLC - Henderson  
 (continued)

QC Ref #485932 - Perchlorate

Analysis Date: 05/23/2009

2905070081 M-92  
 2905070082 M-97  
 2905070085 M-52  
 2905070087 M-21

Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser

QC Ref #485939 - Chlorate by IC

Analysis Date: 05/23/2009

2905070098 M-13

Analyzed by: ser

QC Ref #486373 - Perchlorate

Analysis Date: 05/28/2009

2905070089 M-35  
 2905070091 M-39  
 2905070092 M-68  
 2905070093 M-74  
 2905070094 M-73  
 2905070095 M-88  
 2905070097 M-12A  
 2905070098 M-13  
 2905070100 EB-2

Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser  
 Analyzed by: ser

QC Ref #486388 - Chromium, Total, ICAP

Analysis Date: 05/25/2009

2905070090 M-19  
 2905070091 M-39  
 2905070093 M-74  
 2905070096 M-11

Analyzed by: csk  
 Analyzed by: csk  
 Analyzed by: csk  
 Analyzed by: csk

QC Ref #486389 - Chromium, Total, ICAP

Analysis Date: 05/25/2009

2905070081 M-92  
 2905070088 M-34  
 2905070097 M-12A  
 2905070098 M-13

Analyzed by: csk  
 Analyzed by: csk  
 Analyzed by: csk  
 Analyzed by: csk



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  
 QC Summary  
 #270439

Tronox LLC - Henderson  
 (continued)

**QC Ref #486390 - Chromium, Total, ICAP**

**Analysis Date: 05/25/2009**

2905070084	M-31A	Analyzed by: csk
2905070085	M-52	Analyzed by: csk
2905070086	M-50	Analyzed by: csk
2905070087	M-21	Analyzed by: csk
2905070089	M-35	Analyzed by: csk
2905070094	M-73	Analyzed by: csk
2905070099	MD-5	Analyzed by: csk

**QC Ref #486391 - Chromium, Total, ICAP**

**Analysis Date: 05/25/2009**

2905070082	M-97	Analyzed by: csk
2905070083	M-33	Analyzed by: csk
2905070100	EB-2	Analyzed by: csk

**QC Ref #486645 - Chlorate by IC**

**Analysis Date: 05/30/2009**

2905070097	M-12A	Analyzed by: ser
------------	-------	------------------

**QC Ref #486887 - Perchlorate**

**Analysis Date: 06/03/2009**

2905070083	M-33	Analyzed by: ser
2905070084	M-31A	Analyzed by: ser
2905070086	M-50	Analyzed by: ser
2905070088	M-34	Analyzed by: ser
2905070090	M-19	Analyzed by: ser
2905070096	M-11	Analyzed by: ser
2905070099	MD-5	Analyzed by: ser

**QC Ref #487102 - Chromium, Total, ICAP**

**Analysis Date: 06/07/2009**

2905070092	M-68	Analyzed by: csk
2905070095	M-88	Analyzed by: csk



**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  
QC Report  
#270439

Tronox LLC - Henderson

QC Ref #484009 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200905070181	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.52	MGL	100.8	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.49	MGL	99.6	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.050	MGL	100.0	( 50-150 )	
MS	Nitrate as Nitrogen by IC	1.25	1.28	MGL	102.4	( 87-121 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.28	MGL	102.4	( 87-121 )	
RPD_LCS	Nitrate as Nitrogen by IC	100.800	99.600	MGL	1.2	( 0-20 )	
RPD_MS	Nitrate as Nitrogen by IC	102.400	102.400	MGL	0.0	( 0-20 )	

QC Ref #484010 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05070097	MGL		( 0-0 )	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.049	MGL	98.0	( 85-115 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.049	MGL	98.0	( 85-115 )	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.004	MGL	80.0	( 50-150 )	
MS	Hexavalent chromium (Cr VI)	0.05	0.055	MGL	110.0	( 70-130 )	
MSD	Hexavalent chromium (Cr VI)	0.05	0.056	MGL	112.0	( 70-130 )	

QC Ref #484017 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.57	7.59	UNIT		( 0-20 )	0.3

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.

**Tronox LLC - Henderson  
(continued)**


---

**QC Ref #484018 PH (H3=past HT, not compliant)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.63	7.64	UNIT		( 0-20 )	0.1

**QC Ref #484019 PH (H3=past HT, not compliant)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.46	7.45	UNIT		( 0-20 )	0.1

**QC Ref #484868 Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05070093	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	5930	5930	MGL		( 0-10 )	0.0
LCS1	Total Dissolved Solid (TDS)	175	172	MGL	98.3	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	706	MGL	100.9	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	12	MGL	120.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	98.286	100.857	MGL	2.6	( 0-20 )	

**QC Ref #484872 Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05120389	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	1010	1020	MGL		( 0-10 )	1.0
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	690	MGL	98.6	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	7	MGL	70.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	97.143	98.571	MGL	1.5	( 0-20 )	

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.



**MWH Laboratories**  
A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3829  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
QC Report  
#270439

Tronox LLC - Henderson  
(continued)

QC Ref #485169

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05130001	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	199	UGL	99.5	( 90-110 )	
LCS2	Chlorate by IC	200	199	UGL	99.5	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	10.0	UGL	100.0	( 50-150 )	
MS	Chlorate by IC	100	101	UGL	101.0	( 75-125 )	
MSD	Chlorate by IC	100	101	UGL	101.0	( 75-125 )	
RPD_LCS	Chlorate by IC	99.500	99.500	UGL	0.0	( 0-20 )	
RPD_MS	Chlorate by IC	101.000	101.000	UGL	0.0	( 0-20 )	

QC Ref #485923

Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060030	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	7390	7130	MGL		( 0-10 )	3.6
LCS1	Total Dissolved Solid (TDS)	175	158	MGL	90.3	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	672	MGL	96.0	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	12	MGL	120.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	90.286	96.000	MGL	6.1	( 0-20 )	

QC Ref #485932

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05130453	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	22.4	UGL	89.6	( 85-115 )	
LCS2	Perchlorate	25.0	24.2	UGL	96.8	( 85-115 )	
LCS3	Perchlorate	4.0	3.86	UGL	96.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			

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.



750 Royal Oaks Drive, Suite 100  
 Monrovia, California 91018-3629  
 Tel: 626 386 1100  
 Fax: 626 386 1101  
 1 800 566 LABS (1 800 566 5227)

Laboratory  
 QC Report  
 #270439

Tronox LLC - Henderson  
 (continued)

MS	Perchlorate	25.0	22.4	UGL	89.6	( 80-120 )
MSD	Perchlorate	25.0	22.5	UGL	90.0	( 80-120 )
RPD_LCS	Perchlorate	89.600	96.800	UGL	7.7	( 0-15 )
RPD_MS	Perchlorate	89.600	90.000	UGL	1.0	( 0-15 )

QC Ref #485939 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210040	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	201	UGL	100.5	( 90-110 )	
LCS2	Chlorate by IC	200	201	UGL	100.5	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	8.99	UGL	89.9	( 50-150 )	
MS	Chlorate by IC	100	102	UGL	102.0	( 75-125 )	
MSD	Chlorate by IC	100	102	UGL	102.0	( 75-125 )	
RPD_LCS	Chlorate by IC	100.500	100.500	UGL	0.0	( 0-20 )	
RPD_MS	Chlorate by IC	102.000	102.000	UGL	0.0	( 0-20 )	

QC Ref #486373 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05120284	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.5	UGL	102.0	( 85-115 )	
LCS2	Perchlorate	25.0	25.5	UGL	102.0	( 85-115 )	
LCS3	Perchlorate	4	4.45	UGL	111.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.4	UGL	101.6	( 80-120 )	
MSD	Perchlorate	25.0	25.3	UGL	101.2	( 80-120 )	
RPD_LCS	Perchlorate	102.000	102.000	UGL	0.0	( 0-15 )	
RPD_MS	Perchlorate	101.600	101.200	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.





**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  
QC Report  
#270439

Tronox LLC - Henderson  
(continued)

QC Ref #486388                      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05050089	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	0.920	MGL	92.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.947	MGL	94.7	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.973	MGL	97.3	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.963	MGL	96.3	( 70-130 )	

QC Ref #486389                      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060194	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	( 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	0.0109	MGL	109.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	

QC Ref #486390                      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060027	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	( 85-115 )	

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.



Tronox LLC - Henderson  
(continued)

MBLK	Chromium, Total, ICAP	ND	<0.010	MGL		
MRL_CHK	Chromium, Total, ICAP	0.010	0.0108	MGL	108.0	( 50-150 )
MS	Chromium, Total, ICAP	1.00	0.960	MGL	96.0	( 70-130 )
MS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	( 70-130 )
MSD	Chromium, Total, ICAP	1.00	0.92	MGL	92.0	( 70-130 )
MSD2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 70-130 )

QC Ref #486391      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060040	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.848	MGL	84.8	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 70-130 )	

QC Ref #486645      Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05190022	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	195	UGL	97.5	( 90-110 )	
LCS2	Chlorate by IC	200	191	UGL	95.5	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	11.2	UGL	112.0	( 50-150 )	
MS	Chlorate by IC	100	99.1	UGL	99.1	( 75-125 )	
MSD	Chlorate by IC	100	93.8	UGL	93.8	( 75-125 )	
RPD_LCS	Chlorate by IC	97.500	95.500	UGL	2.1	( 0-20 )	
RPD_MS	Chlorate by IC	99.100	93.800	UGL	5.5	( 0-20 )	

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.

Tronox LLC - Henderson  
(continued)

---

**QC Ref #486887**
**Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06020022	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.2	UGL	100.8	( 85-115 )	
LCS2	Perchlorate	25.0	24.5	UGL	98.0	( 85-115 )	
LCS3	Perchlorate	4	4.64	UGL	116.0	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	26.1	UGL	104.4	( 80-120 )	
MSD	Perchlorate	25.0	24.7	UGL	98.8	( 80-120 )	
RPD_LCS	Perchlorate	100.800	98.000	UGL	2.8	( 0-15 )	
RPD_MS	Perchlorate	104.400	98.800	UGL	0.9	( 0-15 )	

**QC Ref #487102**
**Chromium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060129	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0103	MGL	103.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.911	MGL	91.1	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.978	MGL	97.8	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.921	MGL	92.1	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.937	MGL	93.7	( 70-130 )	

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.