



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 06 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 271832
Project: CLO4
PO#: Susan Crowle

This report shall not be reproduced except in full, without the written approval of the laboratory. Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 17 page[s].



MWH

BUILDING A BETTER WORLD

July 7, 2009

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

Subject: Case Narrative report 271832

Sample receipt: The samples arrived at MWH on June 11, 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:

None

Note that for ion chromatography tests such as perchlorate, the exact analysis time is not shown on the report. Only the date of analysis appears. The time normally defaults to 00:00.

If you have any questions, do not hesitate to contact us.

Sincerely yours,

Andrew Eaton, PhD
Project Manager



271832

750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016

(626) 386-1100 (800) 566-5227

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: MLD/JS

SAMPLE TEMP, RECEIPT AT LAB: 5°C

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

SCANNED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

Collection Wells Fields - Monthly - SO #12374

Tronox LLC - Henderson Plant
PO Box 65
Henderson, NV 89009

Sampler: Michele Brown
Susan Crowley (702) 651-2200

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

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

SAMPLES SHIPPED DAILY DUE TO SHORT HOLDING FOR NO3

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	ANALYSES				SAMPLER COMMENTS
							CL01	TDS	CR6010	CL03	
			M-83	RSW	X		X				No Sample
5:10	6/10/09		M-87	RSW	X		X				
10:25	6/10/09		PC-98R	RSW	X		X				
8:17	6/9/09		PC-86	RSW	X		X				
8:05	6/9/09		PC-90	RSW	X		X				
5:38	6/9/09		PC-56	RSW	X		X				
5:33	6/9/09		PC-58	RSW	X		X				
5:46	6/9/09		PC-59	RSW	X		X				
5:42	6/9/09		PC-60	RSW	X		X				
5:51	6/9/09		PC-62	RSW	X		X				
5:56	6/9/09		PC-68	RSW	X		X				
8:08	6/10/09		PC-122	RSW	X		X				

Reported by Volume:

CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

Reported by Weight:

SO = Soil
SL = Sludge

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

RGW = Raw Ground Water
RSW = Raw Surface Water

SIGNATURE

Michele Brown

PRINT NAME

Michele Brown
M. DE WESA

COMPANY/TITLE

Veolia Water for Tronox LLC - Henderson Plant
BCWIT

TIME

1200pm

DATE

6/10/2009

DATE

6-11-9

TIME

1304

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:



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

MWLABS USE ONLY:
LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: AS
SAMPLE TEMP, RECEIPT AT LAB:
BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)		SAMPLER COMMENTS			
KERRMCGEE-MP		Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009		Collection Wells Fields - Monthly - SO #12374		SAMPLER COMMENTS					
Sampler: Michele Brown		Susan Crowley (702) 651-2200									
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CLO ₄	TDS	CR6010	CLO ₃	NO ₃
9:36	6/10/09		MW-K4	RSW	X		X				
9:44	6/9/09		ARP-1	RSW	X		X				
			ARP-2	RSW	X		X				
			ARP-3	RSW	X		X				
9:22	6/10/09		ARP-4A	RSW	X		X				
9:10	6/10/09		ARP-5A	RSW	X		X				
9:01	6/10/09		ARP-6B	RSW	X		X				
8:53	6/10/09		ARP-7	RSW	X		X				
8:28	6/10/09		PC-53	RSW	X		X				
9:56	6/10/09		PC-103	RSW	X		X				
8:40	6/10/09		MW-K5	RSW	X		X				

* MATRIX TYPES:

Reported by Volume:
CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

Reported by Weight:
SO = Soil
SL = Sludge

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

Reported by Weight:

SO = Soil
SL = Sludge

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		Michele Brown	Veolia Water for Tronox LLC - Henderson Plant	6/10/2009	1200pm
RECEIVED BY:		M. DeKusa	mut	6-11-09	1304
RECEIVED BY:					
RECEIVED BY:					



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

MWLABS USE ONLY:

LOG IN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: AS

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.# Collection Wells Fields - Monthly - SO #12374		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)		<input checked="" type="checkbox"/> (check for yes)	
Sampler: Michele Brown Susan Crowley (702) 651-2200		Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009		SAMPLES SHIPPED DAILY DUE TO SHORT HOLDING FOR NO3		SAMPLER COMMENTS	
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	
8:32	6/9/09		PC-91	RSW	X		
7:51	6/9/09		PC-97	RSW	X		
			PC-17	RSW	X		NO SAMPLE
10:04	6/9/09		PC-18	RSW	X		
11:15	6/9/09		PC-55	RSW	X		
8:57	6/9/09		PC-101R	RSW	X		
9:29	6/9/09		L-635	RSW	X		
			L-637	RSW	X		NO SAMPLE

* MATRIX TYPES:

Reported by Volume:
CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

RGW = Raw Ground Water
RSW = Raw Surface Water

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

Reported by Weight:
SO = Soil
SL = Sludge

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY: <u>Michele Brown</u>	COMPANY/TITLE: Veolia Water for Tronox LLC - Henderson Plant	DATE: 6/10/2009	TIME: 1200pm
RECEIVED BY: <u>M. DE LUCA</u>	COMPANY/TITLE: <u>MWLA</u>	DATE: 6-11-09	TIME: 1:30p
RELINQUISHED BY:			
RECEIVED 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 Tronox LLC- Henderson
Standing

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

Client Code KERRMCGEE-MP M Monthly Period
 Project Code CLO4
 PO# / Job# GWREMEDICATION
 Blanket PO

SO# 48005 12374 RS **Sampler: Please Return this Paper with your samples**

Created by GJY
 Order Date 05/20/09
 Date Needed by Client
 Date Samples to Arrive at MWL
 SHIP LOCATION

Billing Address
 Tronox LLC
 Attn: Accounts Payable
 P.O. BOX 268859
 Oklahoma City, OK 73126-8859

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# GJY

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
41	CLO4, TDS	1 250 ml poly /no preservative	-	These sites are monthly fill further notice.
-	SHEET OF LABELS WITH WELL-IDS	see comments section	-	Shipping - please send bottles in cooler rather than a box
-			-	PC-86, PC-89, PC-91, PC-95, PC-97, PC-10, PC-12, PC-17, PC-18, PC-55, PC-101R
-			-	L-635, L-637
-			-	MW-K2, MW-K4
-			-	ARP-1, ARP-2, ARP-3, ARP-4
-			-	ARP-5, ARP-6, ARP-7, PC-53
-			-	PC-103, MW-K5, M-83
-			-	M-87, PC-98R; PC-56, PC-58;
-			-	PC-59, PC-60, PC-62, PC-68, PC-122
-			-	Do NOT prelabel bottles with site, but provide pre-printed labels for client to stick on
-			-	EXTRA BOTTLES INCLUDED
-			-	client code changed 7/25/03
-			-	bottle order and IDs updated 9/9/03

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

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



J50110901302023

Ship Date: 10JUN09
ActWgt: 52.0 LB
CAD: 2274147/INET9011
Account#: S *****

Delivery Address Bar Code



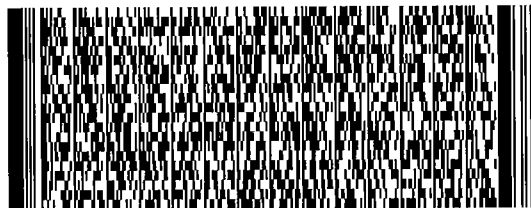
Ref # MSO #143740
Invoice #
PO #
Dept #

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

MONROVIA, CA 91016

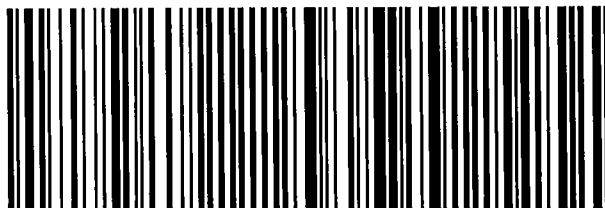
THU - 11JUN A2
PRIORITY OVERNIGHT

TRK# 7966 8254 8401
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.

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. 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: 143740

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 Federal Express		Date 6/10/09	FROM NO. STATION: STATE Henderson, NV 89015
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization M. Skromyda	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC CODE NO. WCN IS 1321.10181	
N/A		CUSTOMER PO OR REQ'N NO.	SHIPPED FROM Henderson, NV
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	Ice Chest with water samples Monthly ARP and PC Well Samples One Ice Chest @ 52 lbs		1 Cooler
			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. TRONOX LLC
			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.
TRUCK SHIPMENTS PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
		0	
1	TOTAL GROSS WEIGHT 52	TOTAL TARE WEIGHT 0	52
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			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.
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 Carron Williams	AGENT	PER

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#: 271832
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **06/11/09**. 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
2906110044	M-87	CLO4 TDS	Water	10-jun-2009 05:10:00
2906110045	PC-98R	CLO4 TDS	Water	10-jun-2009 10:25:00
2906110046	PC-86	CLO4 TDS	Water	09-jun-2009 08:17:00
2906110047	PC-90	CLO4 TDS	Water	09-jun-2009 08:05:00
2906110048	PC-56	CLO4 TDS	Water	09-jun-2009 05:38:00
2906110049	PC-58	CLO4 TDS	Water	09-jun-2009 05:33:00
2906110050	PC-59	CLO4 TDS	Water	09-jun-2009 05:46:00
2906110051	PC-60	CLO4 TDS	Water	09-jun-2009 05:42:00
2906110052	PC-62	CLO4 TDS	Water	09-jun-2009 05:51:00
2906110053	PC-68	CLO4 TDS	Water	09-jun-2009 05:56:00
2906110054	PC-122	CLO4 TDS	Water	10-jun-2009 08:08:00
2906110055	MW-K4	CLO4 TDS	Water	10-jun-2009 09:36:00
2906110056	ARP-1	CLO4 TDS	Water	09-jun-2009 09:44:00
2906110057	ARP-4A	CLO4 TDS	Water	10-jun-2009 09:22:00
2906110058	ARP-5A	CLO4 TDS	Water	10-jun-2009 09:10:00
2906110059	ARP-6B	CLO4 TDS	Water	10-jun-2009 09:01:00
2906110060	ARP-7	CLO4 TDS	Water	10-jun-2009 08:53:00

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#: 271832
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2906110061	PC-53	CLO4 TDS	Water	10-jun-2009 08:28:00
2906110062	PC-103	CLO4 TDS	Water	10-jun-2009 09:56:00
2906110063	MW-K5	CLO4 TDS	Water	10-jun-2009 08:40:00
2906110064	PC-91	CLO4 TDS	Water	09-jun-2009 08:32:00
2906110065	PC-97	CLO4 TDS	Water	09-jun-2009 07:51:00
2906110066	PC-18	CLO4 TDS	Water	09-jun-2009 10:04:00
2906110067	PC-55	CLO4 TDS	Water	09-jun-2009 11:15:00
2906110068	PC-101R	CLO4 TDS	Water	09-jun-2009 08:57:00
2906110069	L-635	CLO4 TDS	Water	09-jun-2009 09:29:00

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
TDS	Total Dissolved Solid (TDS)



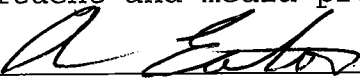
MWH Laboratories
A Division of MWH Americas, Inc.

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

Report
Comments
#271832

Client Specific Comments

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Signature: 



MWH Laboratories

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Laboratory
Hits Report
#271832

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

Samples Received
11-jun-2009 16:26:41

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906110044	M-87				
06/26/09	Perchlorate		321000		ug/l	20000
06/13/09	Total Dissolved Solid (TDS)		4740	500	mg/l	10
	2906110045	PC-98R				
06/26/09	Perchlorate		18600		ug/l	2000
06/13/09	Total Dissolved Solid (TDS)		6100	500	mg/l	10
	2906110046	PC-86				
06/26/09	Perchlorate		1330		ug/l	80
06/13/09	Total Dissolved Solid (TDS)		2560	500	mg/l	10
	2906110047	PC-90				
06/26/09	Perchlorate		7050		ug/l	800
06/13/09	Total Dissolved Solid (TDS)		3820	500	mg/l	10
	2906110048	PC-56				
06/26/09	Perchlorate		3310		ug/l	400
06/16/09	Total Dissolved Solid (TDS)		2868	500	mg/l	10
	2906110049	PC-58				
06/26/09	Perchlorate		9610		ug/l	400
06/13/09	Total Dissolved Solid (TDS)		6990	500	mg/l	10
	2906110050	PC-59				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#271832

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

Samples Received
11-jun-2009 16:26:41

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906110050	PC-59				
06/26/09	Perchlorate		6240		ug/l	400
06/13/09	Total Dissolved Solid (TDS)		4320	500	mg/l	10
	2906110051	PC-60				
06/26/09	Perchlorate		7800		ug/l	400
06/13/09	Total Dissolved Solid (TDS)		4210	500	mg/l	10
	2906110052	PC-62				
06/26/09	Perchlorate		2410		ug/l	200
06/13/09	Total Dissolved Solid (TDS)		3260	500	mg/l	10
	2906110053	PC-68				
06/28/09	Perchlorate		15		ug/l	8.0
06/13/09	Total Dissolved Solid (TDS)		1990	500	mg/l	10
	2906110054	PC-122				
06/26/09	Perchlorate		10400		ug/l	800
06/13/09	Total Dissolved Solid (TDS)		8500	500	mg/l	10
	2906110055	MW-K4				
06/30/09	Chromium, Total, ICAP		0.12		mg/l	0.020
06/26/09	Perchlorate		192000		ug/l	8000
06/13/09	Total Dissolved Solid (TDS)		6290	500	mg/l	10
	2906110056	ARP-1				



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Laboratory
Hits Report
#271832

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

Samples Received
11-jun-2009 16:26:41

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906110056	ARP-1				
06/28/09	Perchlorate		2120		ug/l	200
06/13/09	Total Dissolved Solid (TDS)		5840	500	mg/l	10
	2906110057	ARP-4A				
06/26/09	Perchlorate		25500		ug/l	2000
06/13/09	Total Dissolved Solid (TDS)		4570	500	mg/l	10
	2906110058	ARP-5A				
06/26/09	Perchlorate		21000		ug/l	2000
06/13/09	Total Dissolved Solid (TDS)		6270	500	mg/l	10
	2906110059	ARP-6B				
06/26/09	Perchlorate		15500		ug/l	800
06/13/09	Total Dissolved Solid (TDS)		7700	500	mg/l	10
	2906110060	ARP-7				
06/26/09	Perchlorate		5650		ug/l	400
06/13/09	Total Dissolved Solid (TDS)		7440	500	mg/l	10
	2906110061	PC-53				
06/26/09	Perchlorate		4470		ug/l	200
06/13/09	Total Dissolved Solid (TDS)		5030	500	mg/l	10
	2906110062	PC-103				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#271832

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

Samples Received
11-jun-2009 16:26:41

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906110062	PC-103				
06/26/09	Perchlorate		13200		ug/l	800
06/13/09	Total Dissolved Solid (TDS)		5380	500	mg/l	10
	2906110063	MW-K5				
06/26/09	Perchlorate		14700		ug/l	800
06/13/09	Total Dissolved Solid (TDS)		6000	500	mg/l	10
	2906110064	PC-91				
07/03/09	Perchlorate		30900		ug/l	2000
06/13/09	Total Dissolved Solid (TDS)		6940	500	mg/l	10
	2906110065	PC-97				
07/03/09	Perchlorate		1080		ug/l	80
06/13/09	Total Dissolved Solid (TDS)		2590	500	mg/l	10
	2906110066	PC-18				
06/28/09	Perchlorate		181000		ug/l	20000
06/13/09	Total Dissolved Solid (TDS)		8700	500	mg/l	10
	2906110067	PC-55				
06/28/09	Perchlorate		770		ug/l	80
06/13/09	Total Dissolved Solid (TDS)		6800	500	mg/l	10
	2906110068	PC-101R				

SUMMARY OF POSITIVE DATA ONLY.



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#271832

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Samples Received
11-jun-2009 16:26:41

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906110068	PC-101R				
06/28/09	Perchlorate		181000		ug/l	20000
06/13/09	Total Dissolved Solid (TDS)		9500	500	mg/l	10
	2906110069	L-635				
06/27/09	Perchlorate		11		ug/l	10
06/13/09	Total Dissolved Solid (TDS)		6200	500	mg/l	10



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Tronox LLC - Henderson
Susan Crowley
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Henderson , NV 89009

Samples Received
06/11/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-87 (2906110044)				Sampled on 06/10/09 05:10				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	321000	ug/l	20000	5000
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4740	mg/l	10	1
PC-98R (2906110045)				Sampled on 06/10/09 10:25				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	18600	ug/l	2000	500
06/13/09	06/13/09 11:05	487962	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6100	mg/l	10	1
PC-86 (2906110046)				Sampled on 06/09/09 08:17				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	1330	ug/l	80	20
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2560	mg/l	10	1
PC-90 (2906110047)				Sampled on 06/09/09 08:05				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	7050	ug/l	800	200
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3820	mg/l	10	1
PC-56 (2906110048)				Sampled on 06/09/09 05:38				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	3310	ug/l	400	100
06/16/09	06/16/09 20:24	488691	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2868	mg/l	10	1
PC-58 (2906110049)				Sampled on 06/09/09 05:33				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	9610	ug/l	400	100
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6990	mg/l	10	1
PC-59 (2906110050)				Sampled on 06/09/09 05:46				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	6240	ug/l	400	100
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4320	mg/l	10	1



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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-60 (2906110051)				Sampled on 06/09/09 05:42				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	7800	ug/l	400	100
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4210	mg/l	10	1
PC-62 (2906110052)				Sampled on 06/09/09 05:51				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	2410	ug/l	200	50
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3260	mg/l	10	1
PC-68 (2906110053)				Sampled on 06/09/09 05:56				
	06/28/09 00:00	489147	(EPA 314)	Perchlorate	15	ug/l	8.0	2
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	1990	mg/l	10	1
PC-122 (2906110054)				Sampled on 06/10/09 08:08				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	10400	ug/l	800	200
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8500	mg/l	10	1
MW-K4 (2906110055)				Sampled on 06/10/09 09:36				
	06/26/09 00:00	488954	(EPA 314)	Perchlorate	192000	ug/l	8000	2000
06/29/09	06/30/09 00:00	489156	(ML/EPA 6010B)	Chromium, Total, ICAP	0.12	mg/l	0.020	2
06/13/09	06/13/09 11:05	487962	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6290	mg/l	10	1
ARP-1 (2906110056)				Sampled on 06/09/09 09:44				
	06/28/09 00:00	489147	(EPA 314)	Perchlorate	2120	ug/l	200	50
06/29/09	06/30/09 00:00	489156	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.020	2
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5840	mg/l	10	1
ARP-4A (2906110057)				Sampled on 06/10/09 09:22				
	06/26/09 00:00	488957	(EPA 314)	Perchlorate	25500	ug/l	2000	500
06/13/09	06/13/09 11:05	487962	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4570	mg/l	10	1



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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
ARP-5A (2906110058) Sampled on 06/10/09 09:10								
	06/26/09 00:00	488957	(EPA 314)	Perchlorate	21000	ug/l	2000	500
06/13/09	06/13/09 11:05	487962	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6270	mg/l	10	1
ARP-6B (2906110059) Sampled on 06/10/09 09:01								
	06/26/09 00:00	488957	(EPA 314)	Perchlorate	15500	ug/l	800	200
06/13/09	06/13/09 11:05	487962	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7700	mg/l	10	1
ARP-7 (2906110060) Sampled on 06/10/09 08:53								
	06/26/09 00:00	488957	(EPA 314)	Perchlorate	5650	ug/l	400	100
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7440	mg/l	10	1
PC-53 (2906110061) Sampled on 06/10/09 08:28								
	06/26/09 00:00	488957	(EPA 314)	Perchlorate	4470	ug/l	200	50
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5030	mg/l	10	1
PC-103 (2906110062) Sampled on 06/10/09 09:56								
	06/26/09 00:00	488957	(EPA 314)	Perchlorate	13200	ug/l	800	200
06/13/09	06/13/09 11:05	487962	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5380	mg/l	10	1
MW-K5 (2906110063) Sampled on 06/10/09 08:40								
	06/26/09 00:00	488957	(EPA 314)	Perchlorate	14700	ug/l	800	200
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6000	mg/l	10	1
PC-91 (2906110064) Sampled on 06/09/09 08:32								
	07/03/09 00:00	489429	(EPA 314)	Perchlorate	30900	ug/l	2000	500
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6940	mg/l	10	1
PC-97 (2906110065) Sampled on 06/09/09 07:51								
	07/03/09 00:00	489429	(EPA 314)	Perchlorate	1080	ug/l	80	20
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2590	mg/l	10	1



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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
				PC-18 (2906110066) Sampled on 06/09/09 10:04				
	06/28/09 00:00	489147	(EPA 314)	Perchlorate	181000	ug/l	20000	5000
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8700	mg/l	10	1
				PC-55 (2906110067) Sampled on 06/09/09 11:15				
	06/28/09 00:00	489147	(EPA 314)	Perchlorate	770	ug/l	80	20
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6800	mg/l	10	1
				PC-101R (2906110068) Sampled on 06/09/09 08:57				
	06/28/09 00:00	489147	(EPA 314)	Perchlorate	181000	ug/l	20000	5000
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9500	mg/l	10	1
				L-635 (2906110069) Sampled on 06/09/09 09:29				
	06/27/09 16:45	489148	(EPA 314)	Perchlorate	11	ug/l	10	5
06/13/09	06/13/09 10:05	487963	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6200	mg/l	10	1



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QC Summary
#271832

Tronox LLC - Henderson

QC Ref #487962 - Total Dissolved Solid (TDS) Analysis Date: 06/13/2009

2906110045	PC-98R	Analyzed by: axd
2906110055	MW-K4	Analyzed by: axd
2906110057	ARP-4A	Analyzed by: axd
2906110058	ARP-5A	Analyzed by: axd
2906110059	ARP-6B	Analyzed by: axd
2906110062	PC-103	Analyzed by: axd

QC Ref #487963 - Total Dissolved Solid (TDS) Analysis Date: 06/13/2009

2906110044	M-87	Analyzed by: axd
2906110046	PC-86	Analyzed by: axd
2906110047	PC-90	Analyzed by: axd
2906110049	PC-58	Analyzed by: axd
2906110050	PC-59	Analyzed by: axd
2906110051	PC-60	Analyzed by: axd
2906110052	PC-62	Analyzed by: axd
2906110053	PC-68	Analyzed by: axd
2906110054	PC-122	Analyzed by: axd
2906110056	ARP-1	Analyzed by: axd
2906110060	ARP-7	Analyzed by: axd
2906110061	PC-53	Analyzed by: axd
2906110063	MW-K5	Analyzed by: axd
2906110064	PC-91	Analyzed by: axd
2906110065	PC-97	Analyzed by: axd
2906110066	PC-18	Analyzed by: axd
2906110067	PC-55	Analyzed by: axd
2906110068	PC-101R	Analyzed by: axd
2906110069	L-635	Analyzed by: axd

QC Ref #488691 - Total Dissolved Solid (TDS) Analysis Date: 06/16/2009

2906110048	PC-56	Analyzed by: jrf
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QC Ref #488954 - Perchlorate Analysis Date: 06/26/2009

2906110044	M-87	Analyzed by: ser
2906110045	PC-98R	Analyzed by: ser
2906110046	PC-86	Analyzed by: ser
2906110047	PC-90	Analyzed by: ser
2906110048	PC-56	Analyzed by: ser



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QC Summary
#271832

Tronox LLC - Henderson
(continued)

2906110049	PC-58	Analyzed by: ser
2906110050	PC-59	Analyzed by: ser
2906110051	PC-60	Analyzed by: ser
2906110052	PC-62	Analyzed by: ser
2906110054	PC-122	Analyzed by: ser
2906110055	MW-K4	Analyzed by: ser

QC Ref #488957 - Perchlorate

Analysis Date: 06/26/2009

2906110057	ARP-4A	Analyzed by: ser
2906110058	ARP-5A	Analyzed by: ser
2906110059	ARP-6B	Analyzed by: ser
2906110060	ARP-7	Analyzed by: ser
2906110061	PC-53	Analyzed by: ser
2906110062	PC-103	Analyzed by: ser
2906110063	MW-K5	Analyzed by: ser

QC Ref #489147 - Perchlorate

Analysis Date: 06/28/2009

2906110053	PC-68	Analyzed by: ser
2906110056	ARP-1	Analyzed by: ser
2906110066	PC-18	Analyzed by: ser
2906110067	PC-55	Analyzed by: ser
2906110068	PC-101R	Analyzed by: ser

QC Ref #489148 - Perchlorate

Analysis Date: 06/27/2009

2906110069	L-635	Analyzed by: ser
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QC Ref #489156 - Chromium, Total, ICAP

Analysis Date: 06/30/2009

2906110055	MW-K4	Analyzed by: csk
2906110056	ARP-1	Analyzed by: csk



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Tronox LLC - Henderson
(continued)

QC Ref #489429 - Perchlorate

Analysis Date: 07/03/2009

2906110064
2906110065

PC-91
PC-97

Analyzed by: ser
Analyzed by: ser

Tronox LLC - Henderson

QC Ref #487962 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06110059	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	7700	7700	MGL		(0-10)	0.0
LCS1	Total Dissolved Solid (TDS)	175	162	MGL	92.6	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	654	MGL	93.4	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	7.0	MGL	70.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	92.571	93.429	MGL	0.9	(0-20)	

QC Ref #487963 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06110049	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	7260	6990	MGL		(0-10)	3.8
LCS1	Total Dissolved Solid (TDS)	175	176	MGL	100.6	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	670	MGL	95.7	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	10.0	MGL	100.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	100.571	95.714	MGL	4.9	(0-20)	

QC Ref #488691 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06100166	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	9050	9250	MGL		(0-10)	2.2
LCS1	Total Dissolved Solid (TDS)	175	182	MGL	104.0	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	710	MGL	101.4	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	11	MGL	110.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	104.000	101.429	MGL	2.5	(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
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(continued)

QC Ref #488954 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06090192	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.6	UGL	98.4	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS3	Perchlorate	4	3.83	UGL	95.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.3	UGL	93.2	(80-120)	
MSD	Perchlorate	25.0	23.4	UGL	93.6	(80-120)	
RPD_LCS	Perchlorate	98.400	97.200	UGL	1.2	(0-15)	
RPD_MS	Perchlorate	93.200	93.600	UGL	1.0	(0-15)	

QC Ref #488957 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06180359	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS2	Perchlorate	25.0	23.8	UGL	95.2	(85-115)	
LCS3	Perchlorate	4	3.49	UGL	87.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.5	UGL	94.0	(80-120)	
MSD	Perchlorate	25.0	23.6	UGL	94.4	(80-120)	
RPD_LCS	Perchlorate	95.600	95.200	UGL	0.4	(0-15)	
RPD_MS	Perchlorate	94.000	94.400	UGL	1.0	(0-15)	

QC Ref #489147 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06230181	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.3	UGL	93.2	(85-115)	
LCS2	Perchlorate	25.0	23.4	UGL	93.6	(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)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS3	Perchlorate	4	3.37	UGL	84.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.0	UGL	88.0	(80-120)	
MSD	Perchlorate	25.0	22.5	UGL	90.0	(80-120)	
RPD_LCS	Perchlorate	93.200	93.600	UGL	0.4	(0-15)	
RPD_MS	Perchlorate	88.000	90.000	UGL	1.0	(0-15)	

QC Ref #489148 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06240295	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.4	UGL	97.6	(85-115)	
LCS2	Perchlorate	25.0	24.2	UGL	96.8	(85-115)	
LCS3	Perchlorate	4	4.18	UGL	104.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.1	UGL	92.4	(80-120)	
MSD	Perchlorate	25.0	23.3	UGL	93.2	(80-120)	
RPD_LCS	Perchlorate	97.600	96.800	UGL	0.8	(0-15)	
RPD_MS	Perchlorate	92.400	93.200	UGL	1.0	(0-15)	

QC Ref #489156 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(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	0.0104	MGL	104.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.996	MGL	99.6	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.984	MGL	98.4	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.970	MGL	97.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.004	MGL	100.4	(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.



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Laboratory
 QC Report
 #271832

Tronox LLC - Henderson
 (continued)

QC Ref #489429

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06300163	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS3	Perchlorate	4	4.58	UGL	114.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
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	97.200	97.200	UGL	0.0	(0-15)	
RPD_MS	Perchlorate	89.600	90.000	UGL	1.0	(0-15)	

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