



# 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  
Jun 26 2009  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager



Report#: 271400  
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 20 page[s].



**MWH**

*BUILDING A BETTER WORLD*

June 26, 2009

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

Subject: Case Narrative report 271400

Sample receipt: The samples arrived at MWH on June 2, 2009, with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:

For the MWH Laboratories data the following issues were observed:

One sample was analyzed for TDS both within and past hold time due to inconsistent results on the initial analysis. Results are reported from the re-analysis.

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



271406

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

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: MLD  
SAMPLE TEMP, RECEIPT AT LAB: MLD 30

BLUE ICE:                      FROZEN                      PARTIALLY FROZEN                      THAWED                      YET ICE OK

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		(check for yes)	
Tronox LLC Sampler		Annual Groundwater Sampling - April / May		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)			
Tronox LLC Brian Ho / Susan Crowley (702) 651-2234		Tronox LLC PO Box 55 Henderson, NV 89009					
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	
0845	6-1-09	TR-11		RGW	X		
0905	6-1-09	TR-12		RGW	X		
0940	6-1-09	TR-1		RGW	X		
1048	6-1-09	TR-10		RGW	X		
1202	6-1-09	UK-103		RGW	X		
1147	6-1-09	FB060108		RGW	X		
1202	6-1-09	UK-103		RGW	X		
1242	6-1-09	UK-117		RGW	X		
1342	6-1-09	UK-118		RGW	X		
-	6-1-09	Duplicate		RGW	X		

\* MATRIX TYPES:                      Reported by Volume:                      Reported by Weight:                       
 CFW = Chlor(am)inated Finished Water      CWW = Chlorinated Waste Water      SO = Soil  
 FW = Other Finished Water                      WW = Other Waste Water                      SL = Sludge

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		Doug Davis	GCS / Geologist	6-1-09	1415
RELINQUISHED BY:		M. DE MESA	MWH	6-2-09	1030
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  
 Project Code CLO4  
 PO# / Job# GWREMEDICATION  
 Blanket PO

**SO# 47684** 12374 RS **0** **Sampler: Please Return this Paper with your samples**

Created by GJY  
 Order Date 04/16/09  
 Date Needed by Client  
 Ship Sample Kits to  
 Veolia Water-Tronox LLC  
 Gate 1  
 8000 West Lake Mead Drive  
 Henderson, NV 89015

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

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

# 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 till 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
				<b>Do NOT</b> 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 Qty of Coolers Tracking Number


From: Origin ID: LASA (702) 651-2230  
Shipping  
Tronox LLC  
8000 lake Mead parkway  
  
henderson, NV 89015

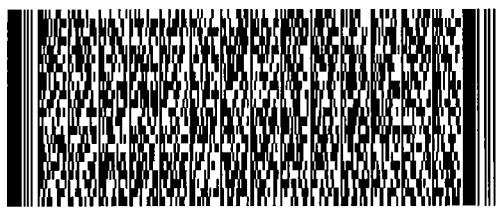


J50410801302023

Ship Date: 01JUN09  
ActWgt: 50.0 LB  
CAD: 100263135/INET9011  
Account#: S \*\*\*\*\*  
Dims: 21 X 15 X 15 IN

SHIP TO: (626) 568-6400      BILL SENDER  
**sample receiving**  
**Montgomery Watson labs**  
**750 ROYAL OAKS DR # 100**  
  
**MONROVIA, CA 91016**

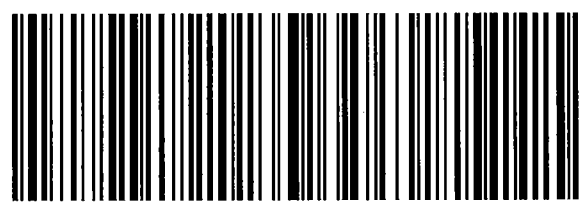
Delivery Address Bar Code  
  
Ref # 20092544V1  
Invoice #  
PO #  
Dept #



1 of 2      TUE - 02JUN      A2  
TRK# 7976 4265 7309      PRIORITY OVERNIGHT  
0201      DSR  
## MASTER ##

**QZ WHPA**

91016  
CA-US  
BUR



Please fold this document in half and place it in the waybill pouch affixed 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.  
1. Fold the printed page along the horizontal line.

2. Place label in shipping label pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.  
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.

From: Origin ID: LASA (702) 651-2230  
Shipping  
Tronox LLC  
8000 lake Mead parkway  
  
henderson, NV 89015



J50110901302023

Ship Date: 01JUN09  
ActWgt: 50.0 LB  
CAD: 100263135/NET9011  
Account#: S \*\*\*\*\*  
Dims: 21 X 15 X 15 IN

Delivery Address Bar Code

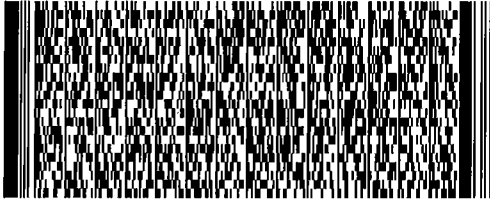


Ref # 20092544V1  
Invoice #  
PO #  
Dept #

SHIP TO: (626) 568-6400 BILL SENDER

sample receiving  
Montgomery Watson labs  
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016



2 of 2

TUE - 02JUN A2

MPS# 7976 4265 7364

0263

PRIORITY OVERNIGHT  
DSR

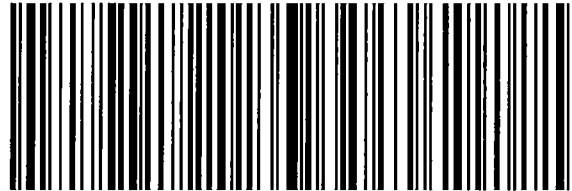
Mstr# 7976 4265 7309 0201

91016

QZ WHPA

CA-US

BUR



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**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#: 271400  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on 06/02/09. 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
2906020040	TR-11	ALK ANION1	Water	01-jun-2009 08:45:00
		CLO4 CR6010	BALANCE CA	CATION1 CL
		NO3 NO3A	EC K	MG NA
			PH SO4	TDS
2906020041	TR-12	ALK ANION1	Water	01-jun-2009 09:05:00
		CLO4 CR6010	BALANCE CA	CATION1 CL
		NO3 NO3A	EC K	MG NA
			PH SO4	TDS
2906020042	TR-1	ALK ANION1	Water	01-jun-2009 09:40:00
		CLO4 CR6010	BALANCE CA	CATION1 CL
		NO3 NO3A	EC K	MG NA
			PH SO4	TDS
2906020043	TR-10	ALK ANION1	Water	01-jun-2009 10:48:00
		CLO4 CR6010	BALANCE CA	CATION1 CL
		NO3 NO3A	EC K	MG NA
			PH SO4	TDS
2906020044	FB060109	CLO4 CR6010	Water	01-jun-2009 11:47:00
			P T	TDS
2906020045	M-103	CLO4 CR6010	Water	01-jun-2009 12:02:00
			P T	TDS
2906020046	M-117	CLO4 CR6010	Water	01-jun-2009 12:42:00
			P T	TDS
2906020047	M-118	CLO4 CR6010	Water	01-jun-2009 13:42:00
			P T	TDS
2906020048	DUPLICATE	CLO4 CR6010	Water	01-jun-2009 00:00:00
			P T	TDS

Test Acronym Description

Test Acronym	Description
ALK	Alkalinity in CaCO3 units
ANION1	Anion Sum - Calculated
BALANCE	Ionic Balance - Calculated

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#: 271400  
Project#: CLO4  
Proj Mgr: Andrew Eaton  
Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
CA	Calcium, Total, ICAP
CATION1	Cation Sum - Calculated
CL	Chloride
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
EC	Specific Conductance at 25 C
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate as Nitrogen by IC
NO3A	Nitrate as NO3 (calc)
P	Metals sample pH
PH	PH (H3=past HT, not compliant)
SO4	Sulfate
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)





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Report  
Comments  
#271400

## 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

(SO4) MS/MSD recovery is NA'd because results exceeded calibration range.

(QC Ref#: 2906020044)

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

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



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Laboratory  
Hits Report  
#271400

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

Samples Received  
02-jun-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2906020040</b>	<b>TR-11</b>				
06/04/09		Alkalinity in CaCO3 units	80		mg/l	2.0
06/05/09		Anion Sum - Calculated	11.		meq/l	0.0010
06/04/09		Calcium, Total, ICAP	42		mg/l	1.0
06/05/09		Cation Sum - Calculated	11.		meq/l	0.0010
06/02/09		Chloride	180	250	mg/l	5.0
06/17/09		Chromium, Total, ICAP	0.015		mg/l	0.010
06/04/09		Magnesium, Total, ICAP	25		mg/l	0.10
06/02/09		Nitrate as NO3 (calc)	4.5	45	mg/l	2.2
06/02/09		Nitrate as Nitrogen by IC	1.02	10	mg/l	0.50
06/02/09		PH (H3=past HT, not compliant)	8.0	6.5-8.5	Units	0.010
06/04/09		Potassium, Total, ICAP	7.7		mg/l	1.0
06/04/09		Sodium, Total, ICAP	160		mg/l	1.0
06/03/09		Specific Conductance at 25 C	1210		umho/cm	2.0
06/02/09		Sulfate	220	250	mg/l	2.5
06/03/09		Total Dissolved Solid (TDS)	696	500	mg/l	10
	<b>2906020041</b>	<b>TR-12</b>				
06/04/09		Alkalinity in CaCO3 units	76		mg/l	2.0
06/05/09		Anion Sum - Calculated	7.9		meq/l	0.0010
06/04/09		Calcium, Total, ICAP	23		mg/l	1.0
06/05/09		Cation Sum - Calculated	7.7		meq/l	0.0010
06/02/09		Chloride	81	250	mg/l	2.0
06/17/09		Chromium, Total, ICAP	0.046		mg/l	0.010
06/04/09		Magnesium, Total, ICAP	14		mg/l	0.10
06/02/09		Nitrate as NO3 (calc)	11	45	mg/l	0.88
06/02/09		Nitrate as Nitrogen by IC	2.57	10	mg/l	0.20
06/02/09		PH (H3=past HT, not compliant)	8.2	6.5-8.5	Units	0.010
06/04/09		Potassium, Total, ICAP	5.7		mg/l	1.0
06/04/09		Sodium, Total, ICAP	120		mg/l	1.0

SUMMARY OF POSITIVE DATA ONLY.



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1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report  
#271400

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

Samples Received  
02-jun-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2906020041</b>	<b>TR-12</b>				
06/03/09			Specific Conductance at 25 C	851	umho/cm	2.0
06/02/09			Sulfate	190	250 mg/l	1.0
06/03/09			Total Dissolved Solid (TDS)	510	500 mg/l	10
	<b>2906020042</b>	<b>TR-1</b>				
06/04/09			Alkalinity in CaCO3 units	79	mg/l	2.0
06/05/09			Anion Sum - Calculated	11.	meq/l	0.0010
06/04/09			Calcium, Total, ICAP	44	mg/l	1.0
06/05/09			Cation Sum - Calculated	11.	meq/l	0.0010
06/02/09			Chloride	180	250 mg/l	5.0
06/17/09			Chromium, Total, ICAP	0.016	mg/l	0.010
06/04/09			Magnesium, Total, ICAP	23	mg/l	0.10
06/02/09			Nitrate as NO3 (calc)	4.6	45 mg/l	2.2
06/02/09			Nitrate as Nitrogen by IC	1.04	10 mg/l	0.50
06/02/09			PH (H3=past HT, not compliant)	8.0	6.5-8.5 Units	0.010
06/04/09			Potassium, Total, ICAP	7.3	mg/l	1.0
06/04/09			Sodium, Total, ICAP	150	mg/l	1.0
06/03/09			Specific Conductance at 25 C	1180	umho/cm	2.0
06/02/09			Sulfate	200	250 mg/l	2.5
06/03/09			Total Dissolved Solid (TDS)	718	500 mg/l	10
	<b>2906020043</b>	<b>TR-10</b>				
06/04/09			Alkalinity in CaCO3 units	72	mg/l	2.0
06/05/09			Anion Sum - Calculated	23.	meq/l	0.0010
06/17/09			Calcium, Total, ICAP	140	mg/l	1.0
06/22/09			Cation Sum - Calculated	25.	meq/l	0.0010
06/02/09			Chloride	110	250 mg/l	10
06/17/09			Chromium, Total, ICAP	0.098	mg/l	0.010

SUMMARY OF POSITIVE DATA ONLY.



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#271400

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

Samples Received  
02-jun-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2906020043</b>	<b>TR-10</b>				
06/17/09			Magnesium, Total, ICAP	51	mg/l	0.10
06/02/09			Nitrate as NO3 (calc)	9.6	45 mg/l	4.4
06/02/09			Nitrate as Nitrogen by IC	2.17	10 mg/l	1.0
06/02/09			PH (H3=past HT, not compliant)	7.8	6.5-8.5 Units	0.010
06/14/09			Perchlorate	1980	ug/l	80
06/17/09			Potassium, Total, ICAP	14	mg/l	1.0
06/17/09			Sodium, Total, ICAP	300	mg/l	1.0
06/03/09			Specific Conductance at 25 C	2300	umho/cm	2.0
06/02/09			Sulfate	900	250 mg/l	5.0
06/03/09			Total Dissolved Solid (TDS)	1740	500 mg/l	10
	<b>2906020044</b>	<b>FB060109</b>				
	<b>2906020045</b>	<b>M-103</b>				
06/15/09			Metals digestion performed.	Y	Yes/No	
06/14/09			Perchlorate	264	ug/l	20
06/03/09			Total Dissolved Solid (TDS)	1970	500 mg/l	10
	<b>2906020046</b>	<b>M-117</b>				
06/17/09			Chromium, Total, ICAP	0.014	mg/l	0.010
06/15/09			Metals digestion performed.	Y	Yes/No	
06/03/09			Total Dissolved Solid (TDS)	726	500 mg/l	10
	<b>2906020047</b>	<b>M-118</b>				
06/16/09			Chromium, Total, ICAP	0.031	mg/l	0.010
06/15/09			Metals digestion performed.	Y	Yes/No	



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 Hits Report  
 #271400

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

Samples Received  
 02-jun-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906020047	M-118				
06/03/09	Total Dissolved Solid (TDS)		756	500	mg/l	10
	2906020048	DUPLICATE				
06/15/09	Metals digestion performed.		Y		Yes/No	
06/14/09	Perchlorate		260		ug/l	20
06/03/09	Total Dissolved Solid (TDS)		2000	500	mg/l	10



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#271400

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

Samples Received  
06/02/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>TR-11 (2906020040)</b>				<b>Sampled on 06/01/09 08:45</b>				
	06/04/09 00:00	486965	( SM 2320B )	Alkalinity in CaCO3 units	80	mg/l	2.0	1
	06/05/09 13:52		( ML/SM1030E )	Anion Sum - Calculated	11.	meq/l	0.0010	1
	06/04/09 03:18	486938	( ML/EPA 200.7 )	Calcium, Total, ICAP	42	mg/l	1.0	1
	06/05/09 13:49		( SM 1030E )	Cation Sum - Calculated	11.	meq/l	0.0010	1
	06/02/09 21:06	486757	( ML/EPA 300.0 )	Chloride	180	mg/l	5.0	5
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
06/15/09	06/17/09 00:00	488229	( ML/EPA 6010B )	Chromium, Total, ICAP	0.015	mg/l	0.010	1
	06/03/09 16:26	486859	( SM 2510B )	Specific Conductance at 25 C	1210	umho/cm	2.0	1
	06/04/09 03:18	486924	( ML/EPA 200.7 )	Potassium, Total, ICAP	7.7	mg/l	1.0	1
	06/04/09 03:18	486927	( ML/EPA 200.7 )	Magnesium, Total, ICAP	25	mg/l	0.10	1
	06/04/09 03:18	486934	( ML/EPA 200.7 )	Sodium, Total, ICAP	160	mg/l	1.0	1
	06/02/09 21:06	486962	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	1.02	mg/l	0.50	5
	06/02/09 21:06	486755	( ML/EPA 300.0 )	Nitrate as NO3 (calc)	4.5	mg/l	2.2	5
	06/02/09 15:45	486794	( SM 4500-HB )	PH (H3=past HT, not compliant)	8.0	Units	0.010	1
	06/02/09 21:06	486764	( ML/EPA 300.0 )	Sulfate	220	mg/l	2.5	5
06/03/09	06/03/09 17:35	487337	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	696	mg/l	10	1
<b>TR-12 (2906020041)</b>				<b>Sampled on 06/01/09 09:05</b>				
	06/04/09 00:00	486965	( SM 2320B )	Alkalinity in CaCO3 units	76	mg/l	2.0	1
	06/05/09 13:52		( ML/SM1030E )	Anion Sum - Calculated	7.9	meq/l	0.0010	1
	06/04/09 03:23	486938	( ML/EPA 200.7 )	Calcium, Total, ICAP	23	mg/l	1.0	1
	06/05/09 13:49		( SM 1030E )	Cation Sum - Calculated	7.7	meq/l	0.0010	1
	06/02/09 21:20	486757	( ML/EPA 300.0 )	Chloride	81	mg/l	2.0	2
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
06/15/09	06/17/09 00:00	488229	( ML/EPA 6010B )	Chromium, Total, ICAP	0.046	mg/l	0.010	1
	06/03/09 16:26	486859	( SM 2510B )	Specific Conductance at 25 C	851	umho/cm	2.0	1
	06/04/09 03:23	486924	( ML/EPA 200.7 )	Potassium, Total, ICAP	5.7	mg/l	1.0	1
	06/04/09 03:23	486927	( ML/EPA 200.7 )	Magnesium, Total, ICAP	14	mg/l	0.10	1
	06/04/09 03:23	486934	( ML/EPA 200.7 )	Sodium, Total, ICAP	120	mg/l	1.0	1
	06/02/09 21:20	486962	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	2.57	mg/l	0.20	2
	06/02/09 21:20	486755	( ML/EPA 300.0 )	Nitrate as NO3 (calc)	11	mg/l	0.88	2
	06/02/09 15:45	486794	( SM 4500-HB )	PH (H3=past HT, not compliant)	8.2	Units	0.010	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	06/02/09 21:20	486764	( ML/EPA 300.0 )	Sulfate	190	mg/l	1.0	2
06/03/09	06/03/09 17:35	487337	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	510	mg/l	10	1
<b>TR-1 (2906020042)</b>				<b>Sampled on 06/01/09 09:40</b>				
	06/04/09 00:00	486965	( SM 2320B )	Alkalinity in CaCO3 units	79	mg/l	2.0	1
	06/05/09 13:52		( ML/SM1030E )	Anion Sum - Calculated	11.	meq/l	0.0010	1
	06/04/09 03:27	486938	( ML/EPA 200.7 )	Calcium, Total, ICAP	44	mg/l	1.0	1
	06/05/09 13:49		( SM 1030E )	Cation Sum - Calculated	11.	meq/l	0.0010	1
	06/02/09 20:39	486757	( ML/EPA 300.0 )	Chloride	180	mg/l	5.0	5
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
06/15/09	06/17/09 00:00	488229	( ML/EPA 6010B )	Chromium, Total, ICAP	0.016	mg/l	0.010	1
	06/03/09 16:26	486859	( SM 2510B )	Specific Conductance at 25 C	1180	umho/cm	2.0	1
	06/04/09 03:27	486924	( ML/EPA 200.7 )	Potassium, Total, ICAP	7.3	mg/l	1.0	1
	06/04/09 03:27	486927	( ML/EPA 200.7 )	Magnesium, Total, ICAP	23	mg/l	0.10	1
	06/04/09 03:27	486934	( ML/EPA 200.7 )	Sodium, Total, ICAP	150	mg/l	1.0	1
	06/02/09 20:39	486962	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	1.04	mg/l	0.50	5
	06/02/09 20:39	486755	( ML/EPA 300.0 )	Nitrate as NO3 (calc)	4.6	mg/l	2.2	5
	06/02/09 15:45	486794	( SM 4500-HB )	PH (H3=past HT, not compliant)	8.0	Units	0.010	1
	06/02/09 20:39	486764	( ML/EPA 300.0 )	Sulfate	200	mg/l	2.5	5
06/03/09	06/03/09 17:35	487337	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	718	mg/l	10	1
<b>TR-10 (2906020043)</b>				<b>Sampled on 06/01/09 10:48</b>				
	06/04/09 00:00	486965	( SM 2320B )	Alkalinity in CaCO3 units	72	mg/l	2.0	1
	06/05/09 13:52		( ML/SM1030E )	Anion Sum - Calculated	23.	meq/l	0.0010	1
	06/17/09 06:22	488167	( ML/EPA 200.7 )	Calcium, Total, ICAP	140	mg/l	1.0	1
	06/22/09 09:44		( SM 1030E )	Cation Sum - Calculated	25.	meq/l	0.0010	1
	06/02/09 20:53	486757	( ML/EPA 300.0 )	Chloride	110	mg/l	10	10
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	1980	ug/l	80	20
06/15/09	06/17/09 00:00	488229	( ML/EPA 6010B )	Chromium, Total, ICAP	0.098	mg/l	0.010	1
	06/03/09 16:26	486859	( SM 2510B )	Specific Conductance at 25 C	2300	umho/cm	2.0	1
	06/17/09 06:22	488187	( ML/EPA 200.7 )	Potassium, Total, ICAP	14	mg/l	1.0	1
	06/17/09 06:22	488193	( ML/EPA 200.7 )	Magnesium, Total, ICAP	51	mg/l	0.10	1
	06/17/09 06:22	488206	( ML/EPA 200.7 )	Sodium, Total, ICAP	300	mg/l	1.0	1
	06/02/09 20:53	486962	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	2.17	mg/l	1.0	10
	06/02/09 20:53	486755	( ML/EPA 300.0 )	Nitrate as NO3 (calc)	9.6	mg/l	4.4	10
	06/02/09 15:45	486794	( SM 4500-HB )	PH (H3=past HT, not compliant)	7.8	Units	0.010	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	06/02/09 20:53	486764	( ML/EPA 300.0 )	Sulfate	900	mg/l	5.0	10
06/03/09	06/03/09 17:35	487337	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	1740	mg/l	10	1
<b>FB060109 (2906020044)</b>				<b>Sampled on 06/01/09 11:47</b>				
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
06/15/09	06/17/09 00:00	488229	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.010	1
06/03/09	06/09/09 08:45	487729	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	ND (HA)	mg/l	10	1
<b>M-103 (2906020045)</b>				<b>Sampled on 06/01/09 12:02</b>				
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	264	ug/l	20	5
06/15/09	06/17/09 00:00	488229	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.010	1
	06/15/09 11:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
06/03/09	06/03/09 17:35	487337	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	1970	mg/l	10	1
<b>M-117 (2906020046)</b>				<b>Sampled on 06/01/09 12:42</b>				
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
06/15/09	06/17/09 00:00	488229	( ML/EPA 6010B )	Chromium, Total, ICAP	0.014	mg/l	0.010	1
	06/15/09 11:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
06/03/09	06/03/09 17:35	487337	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	726	mg/l	10	1
<b>M-118 (2906020047)</b>				<b>Sampled on 06/01/09 13:42</b>				
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
06/15/09	06/16/09 00:00	488241	( ML/EPA 6010B )	Chromium, Total, ICAP	0.031	mg/l	0.010	1
	06/15/09 11:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
06/03/09	06/03/09 17:35	487337	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	756	mg/l	10	1
<b>DUPLICATE (2906020048)</b>				<b>Sampled on 06/01/09 00:00</b>				
	06/14/09 00:00	488028	( EPA 314 )	Perchlorate	260	ug/l	20	5
06/15/09	06/17/09 00:00	488229	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.010	1
	06/15/09 11:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
06/03/09	06/03/09 17:35	487337	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	2000	mg/l	10	1





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QC Ref #486755 - Nitrate as NO3 (calc)

Analysis Date: 06/02/2009

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1
2906020043	TR-10

Analyzed by: sxk  
Analyzed by: sxk  
Analyzed by: sxk  
Analyzed by: sxk

QC Ref #486757 - Chloride

Analysis Date: 06/02/2009

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1
2906020043	TR-10

Analyzed by: sxk  
Analyzed by: sxk  
Analyzed by: sxk  
Analyzed by: sxk

QC Ref #486764 - Sulfate

Analysis Date: 06/02/2009

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1
2906020043	TR-10

Analyzed by: sxk  
Analyzed by: sxk  
Analyzed by: sxk  
Analyzed by: sxk

QC Ref #486794 - PH (H3=past HT, not compliant) Analysis Date: 06/02/2009

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1
2906020043	TR-10

Analyzed by: sar  
Analyzed by: sar  
Analyzed by: sar  
Analyzed by: sar

QC Ref #486859 - Specific Conductance at 25 C Analysis Date: 06/03/2009

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1
2906020043	TR-10

Analyzed by: sar  
Analyzed by: sar  
Analyzed by: sar  
Analyzed by: sar



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**QC Ref #486924 - Potassium, Total, ICAP**

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1

**Analysis Date: 06/04/2009**

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

**QC Ref #486927 - Magnesium, Total, ICAP**

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1

**Analysis Date: 06/04/2009**

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

**QC Ref #486934 - Sodium, Total, ICAP**

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1

**Analysis Date: 06/04/2009**

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

**QC Ref #486938 - Calcium, Total, ICAP**

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1

**Analysis Date: 06/04/2009**

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

**QC Ref #486962 - Nitrate as Nitrogen by IC**

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1
2906020043	TR-10

**Analysis Date: 06/02/2009**

Analyzed by: sxk  
Analyzed by: sxk  
Analyzed by: sxk  
Analyzed by: sxk

**QC Ref #486965 - Alkalinity in CaCO3 units**

2906020040	TR-11
2906020041	TR-12
2906020042	TR-1
2906020043	TR-10

**Analysis Date: 06/04/2009**

Analyzed by: anh  
Analyzed by: anh  
Analyzed by: anh  
Analyzed by: anh



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QC Ref #487337 - Total Dissolved Solid (TDS)      Analysis Date: 06/03/2009

2906020040	TR-11	Analyzed by: jrf
2906020041	TR-12	Analyzed by: jrf
2906020042	TR-1	Analyzed by: jrf
2906020043	TR-10	Analyzed by: jrf
2906020045	M-103	Analyzed by: jrf
2906020046	M-117	Analyzed by: jrf
2906020047	M-118	Analyzed by: jrf
2906020048	DUPLICATE	Analyzed by: jrf

QC Ref #487729 - Total Dissolved Solid (TDS)      Analysis Date: 06/09/2009

2906020044	FB060109	Analyzed by: maria
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QC Ref #488028 - Perchlorate      Analysis Date: 06/14/2009

2906020040	TR-11	Analyzed by: ser
2906020041	TR-12	Analyzed by: ser
2906020042	TR-1	Analyzed by: ser
2906020043	TR-10	Analyzed by: ser
2906020044	FB060109	Analyzed by: ser
2906020045	M-103	Analyzed by: ser
2906020046	M-117	Analyzed by: ser
2906020047	M-118	Analyzed by: ser
2906020048	DUPLICATE	Analyzed by: ser

QC Ref #488167 - Calcium, Total, ICAP      Analysis Date: 06/17/2009

2906020043	TR-10	Analyzed by: csk
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QC Ref #488187 - Potassium, Total, ICAP      Analysis Date: 06/17/2009

2906020043	TR-10	Analyzed by: csk
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QC Ref #488193 - Magnesium, Total, ICAP

2906020043 TR-10

Analysis Date: 06/17/2009

Analyzed by: csk

QC Ref #488206 - Sodium, Total, ICAP

2906020043 TR-10

Analysis Date: 06/17/2009

Analyzed by: csk

QC Ref #488229 - Chromium, Total, ICAP

2906020040 TR-11  
2906020041 TR-12  
2906020042 TR-1  
2906020043 TR-10  
2906020044 FB060109  
2906020045 M-103  
2906020046 M-117  
2906020048 DUPLICATE

Analysis Date: 06/17/2009

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

QC Ref #488241 - Chromium, Total, ICAP

2906020047 M-118

Analysis Date: 06/16/2009

Analyzed by: csk



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**QC Ref #486757 Chloride**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020041	MGL		( 0-0 )	
LCS1	Chloride	25	25.1	MGL	100.4	( 90-110 )	
LCS2	Chloride	25	24.9	MGL	99.6	( 90-110 )	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.433	MGL	86.6	( 50-150 )	
MS	Chloride	12.5	10.4	MGL	83.2	( 74-138 )	
MSD	Chloride	12.5	10.8	MGL	86.4	( 74-138 )	
RPD_LCS	Chloride	100.400	99.600	MGL	0.8	( 0-20 )	
RPD_MS	Chloride	83.200	86.400	MGL	3.8	( 0-20 )	

**QC Ref #486764 Sulfate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020041	MGL		( 0-0 )	
LCS1	Sulfate	50	49.4	MGL	98.8	( 90-110 )	
LCS2	Sulfate	50	49	MGL	98.0	( 90-110 )	
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	0.25	0.297	MGL	118.8	( 50-150 )	
RPD_LCS	Sulfate	98.800	98.000	MGL	0.8	( 0-20 )	
RPD_MS	Sulfate	83.200	84.800	MGL	1.9	( 0-20 )	

**QC Ref #486794 PH (H3=past HT, not compliant)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020409	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	8.03	8.03	UNIT		( 0-20 )	0.0

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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QC Ref #486859                      Specific Conductance at 25 C

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance at 25 C	1190	1180	UMHO		( 0-20 )	0.8
DUP2	Specific Conductance at 25 C	2180	2170	UMHO		( 0-20 )	0.5
LCS1	Specific Conductance at 25 C	1000	988	UMHO	98.8	( 90-110 )	
LCS2	Specific Conductance at 25 C	1000	995	UMHO	99.5	( 90-110 )	
MBLK	Specific Conductance at 25 C	ND	<2.0	UMHO			
MRL_CHK	Specific Conductance at 25 C	2.00	2.40	UMHO	120.0	( 50-150 )	

QC Ref #486924                      Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05130228	MGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 29	06020101	MGL		( 0-0 )	
LCS1	Potassium, Total, ICAP	20	19.8	MGL	99.0	( 85-115 )	
LCS2	Potassium, Total, ICAP	20	19.8	MGL	99.0	( 85-115 )	
MBLK	Potassium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Potassium, Total, ICAP	1.000	0.979	MGL	97.9	( 50-150 )	
MS	Potassium, Total, ICAP	20	19.8	MGL	99.0	( 70-130 )	
MS2	Potassium, Total, ICAP	20	21.0	MGL	105.0	( 70-130 )	
MSD	Potassium, Total, ICAP	20	19.8	MGL	99.0	( 70-130 )	
MSD2	Potassium, Total, ICAP	20	20.5	MGL	102.5	( 70-130 )	
RPD_LCS	Potassium, Total, ICAP	99.000	99.000	MGL	0.0	( 0-20 )	
RPD_MS	Potassium, Total, ICAP	99.000	99.000	MGL	0.0	( 0-20 )	

QC Ref #486927                      Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05130228	MGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 29	06020101	MGL		( 0-0 )	
LCS1	Magnesium, Total, ICAP	20	20.5	MGL	102.5	( 85-115 )	

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

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS2	Magnesium, Total, ICAP	20	20.6	MGL	103.0	( 85-115 )	
MBLK	Magnesium, Total, ICAP	ND	<0.10	MGL			
MRL_CHK	Magnesium, Total, ICAP	0.100	0.107	MGL	107.0	( 50-150 )	
MS	Magnesium, Total, ICAP	20	20.3	MGL	101.5	( 70-130 )	
MS2	Magnesium, Total, ICAP	20	21.6	MGL	108.0	( 70-130 )	
MSD	Magnesium, Total, ICAP	20	20.3	MGL	101.5	( 70-130 )	
MSD2	Magnesium, Total, ICAP	20	20.7	MGL	103.5	( 70-130 )	
RPD_LCS	Magnesium, Total, ICAP	102.500	103.000	MGL	0.5	( 0-20 )	
RPD_MS	Magnesium, Total, ICAP	101.500	101.500	MGL	0.0	( 0-20 )	

QC Ref #486934 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Total, ICAP	50	50.3	MGL	100.6	( 85-115 )	
LCS2	Sodium, Total, ICAP	50	50.3	MGL	100.6	( 85-115 )	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Sodium, Total, ICAP	1.000	1.02	MGL	102.0	( 50-150 )	
MS	Sodium, Total, ICAP	50	49.8	MGL	99.6	( 70-130 )	
MS2	Sodium, Total, ICAP	50	52.6	MGL	105.2	( 70-130 )	
MSD	Sodium, Total, ICAP	50	49.8	MGL	99.6	( 70-130 )	
MSD2	Sodium, Total, ICAP	50	51.5	MGL	103.0	( 70-130 )	
RPD_LCS	Sodium, Total, ICAP	100.600	100.600	MGL	0.0	( 0-20 )	
RPD_MS	Sodium, Total, ICAP	99.600	99.600	MGL	0.0	( 0-20 )	

QC Ref #486938 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05130228	MGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 29	06020101	MGL		( 0-0 )	
LCS1	Calcium, Total, ICAP	50	51.5	MGL	103.0	( 85-115 )	
LCS2	Calcium, Total, ICAP	50	52.1	MGL	104.2	( 85-115 )	
MBLK	Calcium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Calcium, Total, ICAP	1.000	1.11	MGL	111.0	( 50-150 )	
MS	Calcium, Total, ICAP	50	50.8	MGL	101.6	( 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.



Tronox LLC - Henderson  
(continued)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS2	Calcium, Total, ICAP	50	52.7	MGL	105.4	( 70-130 )	
MSD	Calcium, Total, ICAP	50	51.2	MGL	102.4	( 70-130 )	
MSD2	Calcium, Total, ICAP	50	50.5	MGL	101.0	( 70-130 )	
RPD_LCS	Calcium, Total, ICAP	103.000	104.200	MGL	1.2	( 0-20 )	
RPD_MS	Calcium, Total, ICAP	101.600	102.400	MGL	0.8	( 0-20 )	

QC Ref #486962 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020041	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.41	MGL	96.4	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.39	MGL	95.6	( 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	1.23	MGL	98.4	( 87-121 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.25	MGL	100.0	( 87-121 )	
RPD_LCS	Nitrate as Nitrogen by IC	96.400	95.600	MGL	0.8	( 0-20 )	
RPD_MS	Nitrate as Nitrogen by IC	98.400	100.000	MGL	1.6	( 0-20 )	

QC Ref #486965 Alkalinity in CaCO3 units

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06030112	MGL		( 0-0 )	
LCS1	Alkalinity in CaCO3 units	100	95.0	MGL	95.0	( 90-110 )	
LCS2	Alkalinity in CaCO3 units	100	96.0	MGL	96.0	( 90-110 )	
MBLK	Alkalinity in CaCO3 units	ND	<2.0	MGL			
MRL_CHK	Alkalinity in CaCO3 units	2.00	1.37	MGL	68.5	( 50-150 )	
MS	Alkalinity in CaCO3 units	100	98.0	MGL	98.0	( 80-120 )	
MS2	Alkalinity in CaCO3 units	100	60.0	MGL	<u>60.0</u>	( 80-120 )	
MSD	Alkalinity in CaCO3 units	100	68.0	MGL	<u>68.0</u>	( 80-120 )	
MSD2	Alkalinity in CaCO3 units	100	61.0	MGL	<u>61.0</u>	( 80-120 )	
RPD_LCS	Alkalinity in CaCO3 units	95.000	96.000	MGL	1.0	( 0-10 )	
RPD_MS	Alkalinity in CaCO3 units	98.000	68.000	MGL	<u>36.1</u>	( 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 #487337                      Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06010135	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	294	290	MGL		( 0-10 )	1.4
LCS1	Total Dissolved Solid (TDS)	175	160	MGL	91.4	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	684	MGL	97.7	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	8	MGL	80.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	91.429	97.714	MGL	6.6	( 0-20 )	

**QC Ref #487729                      Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06080019	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	364	348	MGL		( 0-10 )	4.5
LCS1	Total Dissolved Solid (TDS)	175	160	MGL	91.4	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	666	MGL	95.1	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	8.0	MGL	80.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	91.429	95.143	MGL	4.0	( 0-20 )	

**QC Ref #488028                      Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06110278	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	23.7	UGL	94.8	( 85-115 )	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	( 85-115 )	
LCS3	Perchlorate	4	3.78	UGL	94.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.1	UGL	88.4	( 80-120 )	
MSD	Perchlorate	25.0	22.7	UGL	90.8	( 80-120 )	

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RPD_LCS	Perchlorate	94.800	97.200	UGL	2.5	( 0-15 )
RPD_MS	Perchlorate	88.400	90.800	UGL	1.0	( 0-15 )

**QC Ref #488167                      Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020044	MGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 29	06030035	MGL		( 0-0 )	
LCS1	Calcium, Total, ICAP	50	50.5	MGL	101.0	( 85-115 )	
LCS2	Calcium, Total, ICAP	50	53.9	MGL	107.8	( 85-115 )	
MBLK	Calcium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Calcium, Total, ICAP	1.000	1.00	MGL	100.0	( 50-150 )	
MS	Calcium, Total, ICAP	50	50.0	MGL	100.0	( 70-130 )	
MS2	Calcium, Total, ICAP	50	52.6	MGL	105.2	( 70-130 )	
MSD	Calcium, Total, ICAP	50	50.3	MGL	100.6	( 70-130 )	
MSD2	Calcium, Total, ICAP	50	49.9	MGL	99.8	( 70-130 )	
RPD_LCS	Calcium, Total, ICAP	101.000	107.800	MGL	6.5	( 0-20 )	
RPD_MS	Calcium, Total, ICAP	100.000	100.600	MGL	0.6	( 0-20 )	

**QC Ref #488187                      Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020044	MGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 29	06030035	MGL		( 0-0 )	
LCS1	Potassium, Total, ICAP	20	19.2	MGL	96.0	( 85-115 )	
LCS2	Potassium, Total, ICAP	20	20.7	MGL	103.5	( 85-115 )	
MBLK	Potassium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Potassium, Total, ICAP	1.000	0.894	MGL	89.4	( 50-150 )	
MS	Potassium, Total, ICAP	20	18.8	MGL	94.0	( 70-130 )	
MS2	Potassium, Total, ICAP	20	20.2	MGL	101.0	( 70-130 )	
MSD	Potassium, Total, ICAP	20	19.2	MGL	96.0	( 70-130 )	
MSD2	Potassium, Total, ICAP	20	18.9	MGL	94.5	( 70-130 )	
RPD_LCS	Potassium, Total, ICAP	96.000	103.500	MGL	7.5	( 0-20 )	
RPD_MS	Potassium, Total, ICAP	94.000	96.000	MGL	2.1	( 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 #488193                      Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020044	MGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 29	06030035	MGL		( 0-0 )	
LCS1	Magnesium, Total, ICAP	20	20.0	MGL	100.0	( 85-115 )	
LCS2	Magnesium, Total, ICAP	20	21.6	MGL	108.0	( 85-115 )	
MBLK	Magnesium, Total, ICAP	ND	<0.10	MGL			
MRL_CHK	Magnesium, Total, ICAP	0.100	0.102	MGL	102.0	( 50-150 )	
MS	Magnesium, Total, ICAP	20	19.8	MGL	99.0	( 70-130 )	
MS2	Magnesium, Total, ICAP	20	21.1	MGL	105.5	( 70-130 )	
MSD	Magnesium, Total, ICAP	20	20.0	MGL	100.0	( 70-130 )	
MSD2	Magnesium, Total, ICAP	20	19.8	MGL	99.0	( 70-130 )	
RPD_LCS	Magnesium, Total, ICAP	100.000	108.000	MGL	7.7	( 0-20 )	
RPD_MS	Magnesium, Total, ICAP	99.000	100.000	MGL	1.0	( 0-20 )	

**QC Ref #488206                      Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Total, ICAP	50	49.4	MGL	98.8	( 85-115 )	
LCS2	Sodium, Total, ICAP	50	52.9	MGL	105.8	( 85-115 )	
MBLK	Sodium, Total, ICAP	ND	<u>1.8</u>	MGL	-		
MRL_CHK	Sodium, Total, ICAP	1.000	0.992	MGL	99.2	( 50-150 )	
MS	Sodium, Total, ICAP	50	48.1	MGL	96.2	( 70-130 )	
MS2	Sodium, Total, ICAP	50	51.3	MGL	102.6	( 70-130 )	
MSD	Sodium, Total, ICAP	50	48.7	MGL	97.4	( 70-130 )	
MSD2	Sodium, Total, ICAP	50	48.1	MGL	96.2	( 70-130 )	
RPD_LCS	Sodium, Total, ICAP	98.800	105.800	MGL	6.8	( 0-20 )	
RPD_MS	Sodium, Total, ICAP	96.200	97.400	MGL	1.2	( 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.



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Laboratory  
QC Report  
#271400

Tronox LLC - Henderson  
(continued)

## QC Ref #488229

## Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020044	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	( 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	1.00	MGL	100.0	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.99	MGL	99.0	( 70-130 )	

## QC Ref #488241

## Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06030037	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 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	0.0099	MGL	99.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	( 70-130 )	

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Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
are advisory only, unless otherwise specified in the method.