



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#: 271337
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 36 page[s].



MWH

BUILDING A BETTER WORLD

June 30, 2009

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

Subject: Case Narrative report 271337

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 30, 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 QC issues were observed:

CI MS/MSD reported NA. Native sample 2905300001 could not be accurately calculated since the native sample was above the calibration range.

Other observations:

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



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

271337

MW LABS USE ONLY:

750 Royal Oaks Dr, Suite 100, Menlo Park, CA 94025-3629

SAMPLES CHECKED/LOGGED IN BY: JS/SS

(626) 566-6400 (800) 566-6227

SAMPLE TEMP, RECEIPT AT LAB: 20

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		(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 PO Box 55 Henderson, NV 89009		Tronox LLC PO Box 55 Henderson, NV 89009					
Brian Ho / Susan Crowley (702) 661-2234		IDENTIFIER, STATE ID#					
TIME	DATE	LOCATION	MATRIX*	GRAB	COMP	PH	SAMPLER COMMENTS
0802	5-29-09	TR-2	RGW	X		X	
0952	5-29-09	TK-5	RGW	X		X	
1017	5-29-09	TR-6	RGW	X		X	
1052	5-29-09	TR-7	RGW	X		X	
1100	5-29-09	FBOS-2509	RGW	X		X	DO 5/29
1100	5-29-09	FBOS-2705	RGW	X		X	SS
1117	5-29-09	TR-8	RGW	X		X	- DID NOT REC
1318	5-29-09	TR-9	RGW	X		X	

* MATRIX TYPES: Reported by Volume: CFW = Chloraminated 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

RELINQUISHED BY: [Signature]	SIGNATURE	PRINT NAME: Dave Dairs	COMPANY/TITLE: GSS/Geologist	DATE: 5-29-09	TIME: 1339
RECEIVED BY: [Signature]		PRINT NAME: JOR Sanchez	COMPANY/TITLE: MWA	DATE: 5-29-09	TIME: 1141
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 Ironox LLC- Henderson
 Standing

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

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

SO# 47684 12374 RS

Sampler: Please Return this Paper with your samples

Created by GJY	Ship Sample Kits to	Billing Address
Order Date 04/16/09	Veolia Water-Tronox LLC Gate 1 8000 West Lake Mead Drive Henderson, NV 89015	Ironox, LLC Attn: Accounts Payable P.O. BOX 268859 Oklahoma City, OK 73126-8859
Date Needed by Client		
Date Samples to Arrive at MWL		

SHIP LOCATION

ATTN: Susan Crowley
 PHONE: 702-651-2234

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

Quote# GJY

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 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

Address Code Status Date Shipped Qty of Coolers Tracking Number

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



J06110941262023

Ship Date: 29MAY09
ActWgt: 56.0 LB
CAD: 2274147/NET9011
Account#: S *****

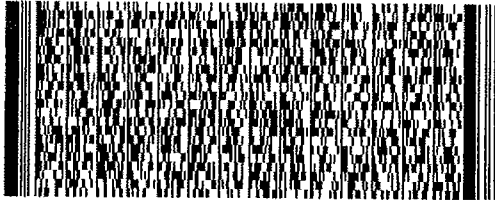
Delivery Address Bar Code



Ref # Annual Water Sampling-10181.23
Invoice #
PO #
Dept #

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

MONROVIA, CA 91016

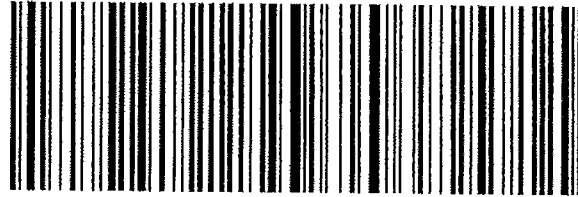


TRK# 7976 3788 6735
(0201)

SATURDAY ### A2
PRIORITY OVERNIGHT

X0 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.

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

henderson, NV 89015



J96118991302823

Ship Date: 29MAY09
ActWgt: 26.6 LB
CAD: 100263135/NET9011
Account#: S *****
Dims: 21 X 15 X 15 IN

Delivery Address Bar Code



Ref # 20092544V1
Invoice #
PO #
Dept #

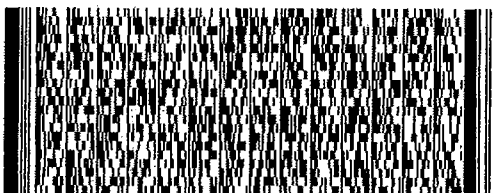
SHIP TO: (626) 568-6400 BILL SENDER

sample receiving
Montgomery Watson labs
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

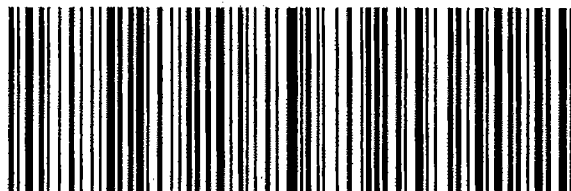
TRK# 7976 3830 4966
0201

SATURDAY ### A2
PRIORITY OVERNIGHT
DSR



X0 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.
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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#: 271337
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 05/30/09. 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	
2905300001	TR-2		Water	29-may-2009 08:02:00	
		ALK	ANION1	BALANCE CA	CATION1 CL
		CLO4	CO3	CR6010 EC	FE HCO3
		K	MG	MN NA	NO3 NO3A
		P	PH	SO4 T	TDS
2905300002	TR-5		Water	29-may-2009 09:52:00	
		ALK	ANION1	BALANCE CA	CATION1 CL
		CLO4	CO3	CR6010 EC	FE HCO3
		K	MG	MN NA	NO3 NO3A
		P	PH	SO4 T	TDS
2905300003	TR-6		Water	29-may-2009 10:17:00	
		ALK	ANION1	BALANCE CA	CATION1 CL
		CLO4	CO3	CR6010 EC	FE HCO3
		K	MG	MN NA	NO3 NO3A
		P	PH	SO4 T	TDS
2905300004	TR-7		Water	29-may-2009 10:52:00	
		ALK	ANION1	BALANCE CA	CATION1 CL
		CLO4	CO3	CR6010 EC	FE HCO3
		K	MG	MN NA	NO3 NO3A
		P	PH	SO4 T	TDS
2905300005	FB052909	CLO4 TDS	Water	29-may-2009 11:00:00	
2905300008	TR-9		Water	29-may-2009 13:18:00	
		ALK	ANION1	BALANCE CA	CATION1 CL
		CLO4	CO3	CR6010 EC	FE HCO3
		K	MG	MN NA	NO3 NO3A
		P	PH	SO4 T	TDS
2905300009	TR-8		Water	29-may-2009 11:17:00	
		ALK	ANION1	BALANCE CA	CATION1 CL
		CLO4	CO3	CR6010 EC	FE HCO3
		K	MG	MN NA	NO3 NO3A
		P	PH	SO4 T	TDS

Test Acronym Description

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

Customer Code: KERRMCGEE-MP
PO#: Susan Crowley PO
Group#: 271337
Project#: CLO4
Proj Mgr: Andrew Eaton
Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
ALK	Alkalinity in CaCO3 units
ANION1	Anion Sum - Calculated
BALANCE	Ionic Balance - Calculated
CA	Calcium, Total, ICAP
CATION1	Cation Sum - Calculated
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR6010	Chromium, Total, ICAP
EC	Specific Conductance at 25 C
FE	Iron, Total, ICAP
HCO3	Bicarb. Alkalinity as HCO3, calc
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
MN	Manganese, 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)



MWH Laboratories

A Division of MWH Americas, Inc.

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Monrovia, California 91016-3629
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Report
Comments
#271337

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

(CL) MS/MSD reported NA. Native sample 2905300001 could not be accurately be calculated since the recovery for the native sample was above the calibration range. LCS/LCSD recoveries were 101%/104%.



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Laboratory
Hits Report
#271337

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

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

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905300001	TR-2				
06/01/09		Alkalinity in CaCO3 units	84		mg/l	2.0
06/18/09		Anion Sum - Calculated	9.0		meq/l	0.0010
06/02/09		Bicarb.Alkalinity as HCO3,calc	102.		mg/l	2.0
06/20/09		Calcium, Total, ICAP	30		mg/l	2.0
06/11/09		Cation Sum - Calculated	9.4		meq/l	0.0010
06/16/09		Chloride	130	250	mg/l	5.0
06/09/09		Chromium, Total, ICAP	0.022		mg/l	0.010
06/20/09		Magnesium, Total, ICAP	20		mg/l	0.20
06/10/09		Metals digestion performed.	Y		Yes/No	
05/30/09		Nitrate as NO3 (calc)	5.8	45	mg/l	0.88
05/30/09		Nitrate as Nitrogen by IC	1.3	10	mg/l	0.20
05/30/09		PH (H3=past HT, not compliant)	8.0	6.5-8.5	Units	0.010
06/13/09		Perchlorate	4.1		ug/l	4.0
06/20/09		Potassium, Total, ICAP	6.3		mg/l	2.0
06/20/09		Sodium, Total, ICAP	130		mg/l	2.0
06/02/09		Specific Conductance at 25 C	961		umho/cm	2.0
05/30/09		Sulfate	170	250	mg/l	1.0
06/02/09		Total Dissolved Solid (TDS)	574	500	mg/l	10
	2905300002	TR-5				
06/01/09		Alkalinity in CaCO3 units	76		mg/l	2.0
06/04/09		Anion Sum - Calculated	11.		meq/l	0.0010
06/02/09		Bicarb.Alkalinity as HCO3,calc	92.4		mg/l	2.0
06/04/09		Calcium, Total, ICAP	47		mg/l	1.0
06/05/09		Cation Sum - Calculated	11.		meq/l	0.0010
05/30/09		Chloride	180	250	mg/l	5.0
06/09/09		Chromium, Total, ICAP	0.017		mg/l	0.010
06/04/09		Magnesium, Total, ICAP	23		mg/l	0.10
05/30/09		Nitrate as NO3 (calc)	4.3	45	mg/l	2.2

SUMMARY OF POSITIVE DATA ONLY.



MWH Laboratories
A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 388 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
Hits Report
#271337

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

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

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905300002	TR-5				
05/30/09		Nitrate as Nitrogen by IC	0.97	10	mg/l	0.50
05/30/09		PH (H3=past HT, not compliant)	8.0	6.5-8.5	Units	0.010
06/04/09		Potassium, Total, ICAP	7.2		mg/l	1.0
06/04/09		Sodium, Total, ICAP	160		mg/l	1.0
06/02/09		Specific Conductance at 25 C	1220		umho/cm	2.0
05/30/09		Sulfate	220	250	mg/l	2.5
06/02/09		Total Dissolved Solid (TDS)	760	500	mg/l	10
	2905300003	TR-6				
06/01/09		Alkalinity in CaCO3 units	52		mg/l	2.0
06/18/09		Anion Sum - Calculated	160		meq/l	0.0010
06/02/09		Bicarb.Alkalinity as HCO3,calc	63.4		mg/l	2.0
06/05/09		Calcium, Total, ICAP	1100		mg/l	10
06/09/09		Cation Sum - Calculated	180		meq/l	0.0010
06/13/09		Chloride	5000	250	mg/l	200
06/17/09		Chromium, Total, ICAP	0.012		mg/l	0.010
06/05/09		Magnesium, Total, ICAP	550		mg/l	1.0
05/30/09		PH (H3=past HT, not compliant)	7.4	6.5-8.5	Units	0.010
06/13/09		Perchlorate	201		ug/l	40
06/05/09		Potassium, Total, ICAP	38		mg/l	10
06/05/09		Sodium, Total, ICAP	1800		mg/l	10
06/02/09		Specific Conductance at 25 C	15800		umho/cm	2.0
05/30/09		Sulfate	1000	250	mg/l	25
06/02/09		Total Dissolved Solid (TDS)	13700	500	mg/l	10
	2905300004	TR-7				
06/01/09		Alkalinity in CaCO3 units	90		mg/l	2.0
06/04/09		Anion Sum - Calculated	12.		meq/l	0.0010

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#271337

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

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

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905300004	TR-7				
06/02/09			Bicarb.Alkalinity as HCO3,calc	109.	mg/l	2.0
06/04/09			Calcium, Total, ICAP	57	mg/l	1.0
06/05/09			Cation Sum - Calculated	12.	meq/l	0.0010
05/30/09			Chloride	190	250 mg/l	5.0
06/17/09			Chromium, Total, ICAP	0.011	mg/l	0.010
06/04/09			Magnesium, Total, ICAP	25	mg/l	0.10
05/30/09			Nitrate as NO3 (calc)	4.4	45 mg/l	2.2
05/30/09			Nitrate as Nitrogen by IC	0.99	10 mg/l	0.50
05/30/09			PH (H3=past HT, not compliant)	8.0	6.5-8.5 Units	0.010
06/04/09			Potassium, Total, ICAP	9.1	mg/l	1.0
06/04/09			Sodium, Total, ICAP	160	mg/l	1.0
06/02/09			Specific Conductance at 25 C	1290	umho/cm	2.0
05/30/09			Sulfate	240	250 mg/l	2.5
06/02/09			Total Dissolved Solid (TDS)	802	500 mg/l	10
	2905300005	FB052909				
	2905300008	TR-9				
06/01/09			Alkalinity in CaCO3 units	83	mg/l	2.0
06/04/09			Anion Sum - Calculated	12.	meq/l	0.0010
06/02/09			Bicarb.Alkalinity as HCO3,calc	101.	mg/l	2.0
06/02/09			Calcium, Total, ICAP	57	mg/l	2.0
06/04/09			Cation Sum - Calculated	12.	meq/l	0.0010
05/30/09			Chloride	180	250 mg/l	5.0
06/17/09			Chromium, Total, ICAP	0.012	mg/l	0.010
06/02/09			Iron, Total, ICAP	0.21	0.3 mg/l	0.040
06/02/09			Magnesium, Total, ICAP	22	mg/l	0.20
05/30/09			Nitrate as NO3 (calc)	4.8	45 mg/l	2.2

SUMMARY OF POSITIVE DATA ONLY.



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 Hits Report
 #271337

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

Samples Received
 30-may-2009 11:10:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905300008	TR-9				
05/30/09			Nitrate as Nitrogen by IC	1.1	10	mg/l 0.50
05/30/09			PH (H3=past HT, not compliant)	8.1	6.5-8.5	Units 0.010
06/02/09			Potassium, Total, ICAP	8.5		mg/l 2.0
06/02/09			Sodium, Total, ICAP	160		mg/l 2.0
06/02/09			Specific Conductance at 25 C	1280		umho/cm 2.0
05/30/09			Sulfate	240	250	mg/l 2.5
06/02/09			Total Dissolved Solid (TDS)	816	500	mg/l 10
	2905300009	TR-8				
06/01/09			Alkalinity in CaCO3 units	76		mg/l 2.0
06/18/09			Anion Sum - Calculated	18.		meq/l 0.0010
06/02/09			Bicarb.Alkalinity as HCO3,calc	92.4		mg/l 2.0
06/17/09			Calcium, Total, ICAP	90		mg/l 1.0
06/22/09			Cation Sum - Calculated	18.		meq/l 0.0010
05/30/09			Chloride	140	250	mg/l 5.0
06/17/09			Chromium, Total, ICAP	0.013		mg/l 0.010
06/17/09			Iron, Total, ICAP	0.14	0.3	mg/l 0.020
06/17/09			Magnesium, Total, ICAP	44		mg/l 0.10
06/15/09			Metals digestion performed.	Y		Yes/No
05/30/09			Nitrate as NO3 (calc)	10	45	mg/l 2.2
05/30/09			Nitrate as Nitrogen by IC	2.3	10	mg/l 0.50
05/30/09			PH (H3=past HT, not compliant)	8.0	6.5-8.5	Units 0.010
06/14/09			Perchlorate	95		ug/l 4.0
06/17/09			Potassium, Total, ICAP	10		mg/l 1.0
06/17/09			Sodium, Total, ICAP	230		mg/l 1.0
06/02/09			Specific Conductance at 25 C	1740		umho/cm 2.0
06/13/09			Sulfate	579	250	mg/l 5.0
06/02/09			Total Dissolved Solid (TDS)	1250	500	mg/l 10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#271337

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

Samples Received
05/30/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
				TR-2 (2905300001) Sampled on 05/29/09 08:02				
	06/01/09 00:00	486602	(SM 2320B)	Alkalinity in CaCO3 units	84	mg/l	2.0	1
	06/18/09 16:53		(ML/SM1030E)	Anion Sum - Calculated	9.0	meq/l	0.0010	1
	06/20/09 04:03	488474	(ML/EPA 200.7)	Calcium, Total, ICAP	30	mg/l	2.0	2
	06/11/09 14:37		(SM 1030E)	Cation Sum - Calculated	9.4	meq/l	0.0010	1
	06/16/09 01:30	488062	(ML/EPA 300.0)	Chloride	130	mg/l	5.0	5
	06/13/09 09:21	488027	(EPA 314)	Perchlorate	4.1	ug/l	4.0	1
	06/02/09 15:00		(SM 2330B)	Carbonate as CO3, Calculated	ND	mg/l	2.0	1
06/09/09	06/09/09 18:49	487360	(ML/EPA 6010B)	Chromium, Total, ICAP	0.022	mg/l	0.010	1
	06/10/09 16:44		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	06/02/09 14:51	486630	(SM 2510B)	Specific Conductance at 25 C	961	umho/cm	2.0	1
	06/20/09 04:03	488450	(ML/EPA 200.7)	Iron, Total, ICAP	ND	mg/l	0.040	2
	06/02/09 14:57		(SM 2330B)	Bicarb.Alkalinity as HCO3,calc	102.	mg/l	2.0	1
	06/20/09 04:03	488454	(ML/EPA 200.7)	Potassium, Total, ICAP	6.3	mg/l	2.0	2
	06/20/09 04:03	488459	(ML/EPA 200.7)	Magnesium, Total, ICAP	20	mg/l	0.20	2
	06/20/09 04:03	488463	(ML/EPA 200.7)	Manganese, Total, ICAP	ND	mg/l	0.0040	2
	06/20/09 04:03	488468	(ML/EPA 200.7)	Sodium, Total, ICAP	130	mg/l	2.0	2
	05/30/09 14:29	486698	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.3	mg/l	0.20	2
	05/30/09 14:29	486700	(ML/EPA 300.0)	Nitrate as NO3 (calc)	5.8	mg/l	0.88	2
	05/30/09 21:38	486550	(SM 4500-HB)	PH (H3=past HT, not compliant)	8.0	Units	0.010	1
	05/30/09 14:29	486699	(ML/EPA 300.0)	Sulfate	170	mg/l	1.0	2
06/02/09	06/02/09 18:35	487326	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	574	mg/l	10	1
				TR-5 (2905300002) Sampled on 05/29/09 09:52				
	06/01/09 00:00	486602	(SM 2320B)	Alkalinity in CaCO3 units	76	mg/l	2.0	1
	06/04/09 17:42		(ML/SM1030E)	Anion Sum - Calculated	11.	meq/l	0.0010	1
	06/04/09 03:31	486938	(ML/EPA 200.7)	Calcium, Total, ICAP	47	mg/l	1.0	1
	06/05/09 13:49		(SM 1030E)	Cation Sum - Calculated	11.	meq/l	0.0010	1
	05/30/09 15:08	486697	(ML/EPA 300.0)	Chloride	180	mg/l	5.0	5
	06/13/09 09:21	488027	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
	06/02/09 15:00		(SM 2330B)	Carbonate as CO3, Calculated	ND	mg/l	2.0	1
06/09/09	06/09/09 18:49	487360	(ML/EPA 6010B)	Chromium, Total, ICAP	0.017	mg/l	0.010	1
	06/02/09 14:51	486630	(SM 2510B)	Specific Conductance at 25 C	1220	umho/cm	2.0	1



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 #271337

Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	06/04/09 03:31	486921	(ML/EPA 200.7)	Iron, Total, ICAP	ND	mg/l	0.020	1
	06/02/09 14:57		(SM 2330B)	Bicarb.Alkalinity as HCO3,calc	92.4	mg/l	2.0	1
	06/04/09 03:31	486924	(ML/EPA 200.7)	Potassium, Total, ICAP	7.2	mg/l	1.0	1
	06/04/09 03:31	486927	(ML/EPA 200.7)	Magnesium, Total, ICAP	23	mg/l	0.10	1
	06/04/09 03:31	486931	(ML/EPA 200.7)	Manganese, Total, ICAP	ND	mg/l	0.0020	1
	06/04/09 03:31	486934	(ML/EPA 200.7)	Sodium, Total, ICAP	160	mg/l	1.0	1
	05/30/09 15:08	486698	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.97	mg/l	0.50	5
	05/30/09 15:08	486700	(ML/EPA 300.0)	Nitrate as NO3 (calc)	4.3	mg/l	2.2	5
	05/30/09 21:38	486550	(SM 4500-HB)	PH (H3=past HT, not compliant)	8.0	Units	0.010	1
	05/30/09 15:08	486699	(ML/EPA 300.0)	Sulfate	220	mg/l	2.5	5
06/02/09	06/02/09 18:35	487326	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	760	mg/l	10	1
TR-6 (2905300003)				Sampled on 05/29/09 10:17				
	06/01/09 00:00	486602	(SM 2320B)	Alkalinity in CaCO3 units	52	mg/l	2.0	1
	06/18/09 16:53		(ML/SM1030E)	Anion Sum - Calculated	160	meq/l	0.0010	1
	06/05/09 01:49	487209	(ML/EPA 200.7)	Calcium, Total, ICAP	1100	mg/l	10	10
	06/09/09 11:59		(SM 1030E)	Cation Sum - Calculated	180	meq/l	0.0010	1
	06/13/09 01:02	487988	(ML/EPA 300.0)	Chloride	5000	mg/l	200	200
	06/13/09 09:21	488027	(EPA 314)	Perchlorate	201	ug/l	40	10
	06/02/09 15:00		(SM 2330B)	Carbonate as CO3, Calculated	ND	mg/l	2.0	1
06/15/09	06/17/09 00:00	488229	(ML/EPA 6010B)	Chromium, Total, ICAP	0.012	mg/l	0.010	1
	06/02/09 14:51	486630	(SM 2510B)	Specific Conductance at 25 C	15800	umho/cm	2.0	1
	06/05/09 01:49	487219	(ML/EPA 200.7)	Iron, Total, ICAP	ND	mg/l	0.20	10
	06/02/09 14:57		(SM 2330B)	Bicarb.Alkalinity as HCO3,calc	63.4	mg/l	2.0	1
	06/05/09 01:49	487224	(ML/EPA 200.7)	Potassium, Total, ICAP	38	mg/l	10	10
	06/05/09 01:49	487230	(ML/EPA 200.7)	Magnesium, Total, ICAP	550	mg/l	1.0	10
	06/05/09 01:49	487235	(ML/EPA 200.7)	Manganese, Total, ICAP	ND	mg/l	0.020	10
	06/05/09 01:49	487241	(ML/EPA 200.7)	Sodium, Total, ICAP	1800	mg/l	10	10
	05/30/09 15:21	486698	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
	05/30/09 15:21	486700	(ML/EPA 300.0)	Nitrate as NO3 (calc)	ND	mg/l	22	50
	05/30/09 21:38	486550	(SM 4500-HB)	PH (H3=past HT, not compliant)	7.4	Units	0.010	1
	05/30/09 15:21	486699	(ML/EPA 300.0)	Sulfate	1000	mg/l	25	50
06/02/09	06/02/09 18:35	487326	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	13700	mg/l	10	1



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Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
TR-7 (2905300004)			Sampled on 05/29/09 10:52					
	06/01/09 00:00	486602	(SM 2320B)	Alkalinity in CaCO3 units	90	mg/l	2.0	1
	06/04/09 17:42		(ML/SM1030E)	Anion Sum - Calculated	12.	meq/l	0.0010	1
	06/04/09 03:40	486938	(ML/EPA 200.7)	Calcium, Total, ICAP	57	mg/l	1.0	1
	06/05/09 13:49		(SM 1030E)	Cation Sum - Calculated	12.	meq/l	0.0010	1
	05/30/09 15:34	486697	(ML/EPA 300.0)	Chloride	190	mg/l	5.0	5
	06/13/09 09:21	488027	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
	06/02/09 15:00		(SM 2330B)	Carbonate as CO3, Calculated	ND	mg/l	2.0	1
06/15/09	06/17/09 00:00	488229	(ML/EPA 6010B)	Chromium, Total, ICAP	0.011	mg/l	0.010	1
	06/02/09 14:51	486630	(SM 2510B)	Specific Conductance at 25 C	1290	umho/cm	2.0	1
	06/04/09 03:40	486921	(ML/EPA 200.7)	Iron, Total, ICAP	ND	mg/l	0.020	1
	06/02/09 14:57		(SM 2330B)	Bicarb.Alkalinity as HCO3,calc	109.	mg/l	2.0	1
	06/04/09 03:40	486924	(ML/EPA 200.7)	Potassium, Total, ICAP	9.1	mg/l	1.0	1
	06/04/09 03:40	486927	(ML/EPA 200.7)	Magnesium, Total, ICAP	25	mg/l	0.10	1
	06/04/09 03:40	486931	(ML/EPA 200.7)	Manganese, Total, ICAP	ND	mg/l	0.0020	1
	06/04/09 03:40	486934	(ML/EPA 200.7)	Sodium, Total, ICAP	160	mg/l	1.0	1
	05/30/09 15:34	486698	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.99	mg/l	0.50	5
	05/30/09 15:34	486700	(ML/EPA 300.0)	Nitrate as NO3 (calc)	4.4	mg/l	2.2	5
	05/30/09 21:38	486550	(SM 4500-HB)	PH (H3=past HT, not compliant)	8.0	Units	0.010	1
	05/30/09 15:34	486699	(ML/EPA 300.0)	Sulfate	240	mg/l	2.5	5
06/02/09	06/02/09 18:35	487326	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	802	mg/l	10	1
FB052909 (2905300005)			Sampled on 05/29/09 11:00					
	06/13/09 09:21	488027	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
06/03/09	06/03/09 16:05	487336	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	ND	mg/l	10	1
TR-9 (2905300008)			Sampled on 05/29/09 13:18					
	06/01/09 00:00	486602	(SM 2320B)	Alkalinity in CaCO3 units	83	mg/l	2.0	1
	06/04/09 17:42		(ML/SM1030E)	Anion Sum - Calculated	12.	meq/l	0.0010	1
	06/02/09 21:21	486851	(ML/EPA 200.7)	Calcium, Total, ICAP	57	mg/l	2.0	2
	06/04/09 07:03		(SM 1030E)	Cation Sum - Calculated	12.	meq/l	0.0010	1
	05/30/09 15:47	486697	(ML/EPA 300.0)	Chloride	180	mg/l	5.0	5
	06/13/09 09:21	488027	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
	06/02/09 15:00		(SM 2330B)	Carbonate as CO3, Calculated	ND	mg/l	2.0	1
06/15/09	06/17/09 00:00	488229	(ML/EPA 6010B)	Chromium, Total, ICAP	0.012	mg/l	0.010	1



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Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	06/02/09 14:51	486630	(SM 2510B)	Specific Conductance at 25 C	1280	umho/cm	2.0	1
	06/02/09 21:21	486821	(ML/EPA 200.7)	Iron, Total, ICAP	0.21	mg/l	0.040	2
	06/02/09 14:57		(SM 2330B)	Bicarb.Alkalinity as HCO3,calc	101.	mg/l	2.0	1
	06/02/09 21:21	486827	(ML/EPA 200.7)	Potassium, Total, ICAP	8.5	mg/l	2.0	2
	06/02/09 21:21	486832	(ML/EPA 200.7)	Magnesium, Total, ICAP	22	mg/l	0.20	2
	06/02/09 21:21	486838	(ML/EPA 200.7)	Manganese, Total, ICAP	ND	mg/l	0.0040	2
	06/02/09 21:21	486843	(ML/EPA 200.7)	Sodium, Total, ICAP	160	mg/l	2.0	2
	05/30/09 15:47	486698	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.1	mg/l	0.50	5
	05/30/09 15:47	486700	(ML/EPA 300.0)	Nitrate as NO3 (calc)	4.8	mg/l	2.2	5
	05/30/09 21:38	486550	(SM 4500-HB)	PH (H3=past HT, not compliant)	8.1	Units	0.010	1
	05/30/09 15:47	486699	(ML/EPA 300.0)	Sulfate	240	mg/l	2.5	5
06/02/09	06/02/09 18:35	487326	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	816	mg/l	10	1
TR-8 (2905300009)				Sampled on 05/29/09 11:17				
	06/01/09 00:00	486602	(SM 2320B)	Alkalinity in CaCO3 units	76	mg/l	2.0	1
	06/18/09 16:53		(ML/SM1030E)	Anion Sum - Calculated	18.	meq/l	0.0010	1
	06/17/09 06:04	488167	(ML/EPA 200.7)	Calcium, Total, ICAP	90	mg/l	1.0	1
	06/22/09 09:44		(SM 1030E)	Cation Sum - Calculated	18.	meq/l	0.0010	1
	05/30/09 16:00	486697	(ML/EPA 300.0)	Chloride	140	mg/l	5.0	5
	06/14/09 00:00	488028	(EPA 314)	Perchlorate	95	ug/l	4.0	1
	06/02/09 15:00		(SM 2330B)	Carbonate as CO3, Calculated	ND	mg/l	2.0	1
06/15/09	06/17/09 00:00	488229	(ML/EPA 6010B)	Chromium, Total, ICAP	0.013	mg/l	0.010	1
	06/15/09 11:54		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	06/02/09 14:51	486630	(SM 2510B)	Specific Conductance at 25 C	1740	umho/cm	2.0	1
	06/17/09 06:04	488180	(ML/EPA 200.7)	Iron, Total, ICAP	0.14	mg/l	0.020	1
	06/02/09 14:57		(SM 2330B)	Bicarb.Alkalinity as HCO3,calc	92.4	mg/l	2.0	1
	06/17/09 06:04	488187	(ML/EPA 200.7)	Potassium, Total, ICAP	10	mg/l	1.0	1
	06/17/09 06:04	488193	(ML/EPA 200.7)	Magnesium, Total, ICAP	44	mg/l	0.10	1
	06/17/09 06:04	488200	(ML/EPA 200.7)	Manganese, Total, ICAP	ND	mg/l	0.0020	1
	06/17/09 06:04	488206	(ML/EPA 200.7)	Sodium, Total, ICAP	230	mg/l	1.0	1
	05/30/09 16:00	486698	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	2.3	mg/l	0.50	5
	05/30/09 16:00	486700	(ML/EPA 300.0)	Nitrate as NO3 (calc)	10	mg/l	2.2	5
	05/30/09 21:38	486550	(SM 4500-HB)	PH (H3=past HT, not compliant)	8.0	Units	0.010	1
	06/13/09 01:16	487997	(ML/EPA 300.0)	Sulfate	579	mg/l	5.0	10
06/02/09	06/02/09 18:35	487326	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	1250	mg/l	10	1



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QC Summary
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QC Ref #486550 - PH (H3=past HT, not compliant) Analysis Date: 05/30/2009

2905300001	TR-2	Analyzed by: sar
2905300002	TR-5	Analyzed by: sar
2905300003	TR-6	Analyzed by: sar
2905300004	TR-7	Analyzed by: sar
2905300008	TR-9	Analyzed by: sar
2905300009	TR-8	Analyzed by: sar

QC Ref #486602 - Alkalinity in CaCO3 units Analysis Date: 06/01/2009

2905300001	TR-2	Analyzed by: anh
2905300002	TR-5	Analyzed by: anh
2905300003	TR-6	Analyzed by: anh
2905300004	TR-7	Analyzed by: anh
2905300008	TR-9	Analyzed by: anh
2905300009	TR-8	Analyzed by: anh

QC Ref #486630 - Specific Conductance at 25 C Analysis Date: 06/02/2009

2905300001	TR-2	Analyzed by: sar
2905300002	TR-5	Analyzed by: sar
2905300003	TR-6	Analyzed by: sar
2905300004	TR-7	Analyzed by: sar
2905300008	TR-9	Analyzed by: sar
2905300009	TR-8	Analyzed by: sar

QC Ref #486697 - Chloride Analysis Date: 05/30/2009

2905300002	TR-5	Analyzed by: sxk
2905300004	TR-7	Analyzed by: sxk
2905300008	TR-9	Analyzed by: sxk
2905300009	TR-8	Analyzed by: sxk

QC Ref #486698 - Nitrate as Nitrogen by IC Analysis Date: 05/30/2009

2905300001	TR-2	Analyzed by: sxk
2905300002	TR-5	Analyzed by: sxk
2905300003	TR-6	Analyzed by: sxk
2905300004	TR-7	Analyzed by: sxk
2905300008	TR-9	Analyzed by: sxk



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QC Summary
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Tronox LLC - Henderson
(continued)

2905300009

TR-8

Analyzed by: sxx

QC Ref #486699 - Sulfate

Analysis Date: 05/30/2009

2905300001

TR-2

Analyzed by: sxx

2905300002

TR-5

Analyzed by: sxx

2905300003

TR-6

Analyzed by: sxx

2905300004

TR-7

Analyzed by: sxx

2905300008

TR-9

Analyzed by: sxx

QC Ref #486700 - Nitrate as NO3 (calc)

Analysis Date: 05/30/2009

2905300001

TR-2

Analyzed by: sxx

2905300002

TR-5

Analyzed by: sxx

2905300003

TR-6

Analyzed by: sxx

2905300004

TR-7

Analyzed by: sxx

2905300008

TR-9

Analyzed by: sxx

2905300009

TR-8

Analyzed by: sxx

QC Ref #486821 - Iron, Total, ICAP

Analysis Date: 06/02/2009

2905300008

TR-9

Analyzed by: csk

QC Ref #486827 - Potassium, Total, ICAP

Analysis Date: 06/02/2009

2905300008

TR-9

Analyzed by: csk

QC Ref #486832 - Magnesium, Total, ICAP

Analysis Date: 06/02/2009

2905300008

TR-9

Analyzed by: csk

QC Ref #486838 - Manganese, Total, ICAP

Analysis Date: 06/02/2009

2905300008

TR-9

Analyzed by: csk



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Tronox LLC - Henderson
(continued)

QC Ref #486843 - Sodium, Total, ICAP

2905300008 TR-9

Analysis Date: 06/02/2009

Analyzed by: csk

QC Ref #486851 - Calcium, Total, ICAP

2905300008 TR-9

Analysis Date: 06/02/2009

Analyzed by: csk

QC Ref #486921 - Iron, Total, ICAP

2905300002 TR-5
2905300004 TR-7

Analysis Date: 06/04/2009

Analyzed by: csk
Analyzed by: csk

QC Ref #486924 - Potassium, Total, ICAP

2905300002 TR-5
2905300004 TR-7

Analysis Date: 06/04/2009

Analyzed by: csk
Analyzed by: csk

QC Ref #486927 - Magnesium, Total, ICAP

2905300002 TR-5
2905300004 TR-7

Analysis Date: 06/04/2009

Analyzed by: csk
Analyzed by: csk

QC Ref #486931 - Manganese, Total, ICAP

2905300002 TR-5
2905300004 TR-7

Analysis Date: 06/04/2009

Analyzed by: csk
Analyzed by: csk

QC Ref #486934 - Sodium, Total, ICAP

2905300002 TR-5
2905300004 TR-7

Analysis Date: 06/04/2009

Analyzed by: csk
Analyzed by: csk



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(continued)

QC Ref #486938 - Calcium, Total, ICAP		Analysis Date: 06/04/2009
2905300002	TR-5	Analyzed by: csk
2905300004	TR-7	Analyzed by: csk
QC Ref #487209 - Calcium, Total, ICAP		Analysis Date: 06/05/2009
2905300003	TR-6	Analyzed by: csk
QC Ref #487219 - Iron, Total, ICAP		Analysis Date: 06/05/2009
2905300003	TR-6	Analyzed by: csk
QC Ref #487224 - Potassium, Total, ICAP		Analysis Date: 06/05/2009
2905300003	TR-6	Analyzed by: csk
QC Ref #487230 - Magnesium, Total, ICAP		Analysis Date: 06/05/2009
2905300003	TR-6	Analyzed by: csk
QC Ref #487235 - Manganese, Total, ICAP		Analysis Date: 06/05/2009
2905300003	TR-6	Analyzed by: csk
QC Ref #487241 - Sodium, Total, ICAP		Analysis Date: 06/05/2009
2905300003	TR-6	Analyzed by: csk
QC Ref #487326 - Total Dissolved Solid (TDS)		Analysis Date: 06/02/2009
2905300001	TR-2	Analyzed by: jrf
2905300002	TR-5	Analyzed by: jrf
2905300003	TR-6	Analyzed by: jrf
2905300004	TR-7	Analyzed by: jrf



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2905300008	TR-9	Analyzed by: jrf
2905300009	TR-8	Analyzed by: jrf
QC Ref #487336 - Total Dissolved Solid (TDS)		Analysis Date: 06/03/2009
2905300005	FB052909	Analyzed by: jrf
QC Ref #487360 - Chromium, Total, ICAP		Analysis Date: 06/09/2009
2905300001	TR-2	Analyzed by: csk
2905300002	TR-5	Analyzed by: csk
QC Ref #487988 - Chloride		Analysis Date: 06/13/2009
2905300003	TR-6	Analyzed by: sxk
QC Ref #487997 - Sulfate		Analysis Date: 06/13/2009
2905300009	TR-8	Analyzed by: sxk
QC Ref #488027 - Perchlorate		Analysis Date: 06/13/2009
2905300001	TR-2	Analyzed by: ser
2905300002	TR-5	Analyzed by: ser
2905300003	TR-6	Analyzed by: ser
2905300004	TR-7	Analyzed by: ser
2905300005	FB052909	Analyzed by: ser
2905300008	TR-9	Analyzed by: ser
QC Ref #488028 - Perchlorate		Analysis Date: 06/14/2009
2905300009	TR-8	Analyzed by: ser



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QC Ref #488062 - Chloride		Analysis Date: 06/16/2009
2905300001	TR-2	Analyzed by: sxk
QC Ref #488167 - Calcium, Total, ICAP		Analysis Date: 06/17/2009
2905300009	TR-8	Analyzed by: csk
QC Ref #488180 - Iron, Total, ICAP		Analysis Date: 06/17/2009
2905300009	TR-8	Analyzed by: csk
QC Ref #488187 - Potassium, Total, ICAP		Analysis Date: 06/17/2009
2905300009	TR-8	Analyzed by: csk
QC Ref #488193 - Magnesium, Total, ICAP		Analysis Date: 06/17/2009
2905300009	TR-8	Analyzed by: csk
QC Ref #488200 - Manganese, Total, ICAP		Analysis Date: 06/17/2009
2905300009	TR-8	Analyzed by: csk
QC Ref #488206 - Sodium, Total, ICAP		Analysis Date: 06/17/2009
2905300009	TR-8	Analyzed by: csk
QC Ref #488229 - Chromium, Total, ICAP		Analysis Date: 06/17/2009
2905300003	TR-6	Analyzed by: csk
2905300004	TR-7	Analyzed by: csk
2905300008	TR-9	Analyzed by: csk
2905300009	TR-8	Analyzed by: csk



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QC Ref #488450 - Iron, Total, ICAP

2905300001 TR-2

Analysis Date: 06/20/2009

Analyzed by: csk

QC Ref #488454 - Potassium, Total, ICAP

2905300001 TR-2

Analysis Date: 06/20/2009

Analyzed by: csk

QC Ref #488459 - Magnesium, Total, ICAP

2905300001 TR-2

Analysis Date: 06/20/2009

Analyzed by: csk

QC Ref #488463 - Manganese, Total, ICAP

2905300001 TR-2

Analysis Date: 06/20/2009

Analyzed by: csk

QC Ref #488468 - Sodium, Total, ICAP

2905300001 TR-2

Analysis Date: 06/20/2009

Analyzed by: csk

QC Ref #488474 - Calcium, Total, ICAP

2905300001 TR-2

Analysis Date: 06/20/2009

Analyzed by: csk

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QC Ref #486550 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05300009	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	7.98	7.98	UNIT		(0-20)	0.0

QC Ref #486602 Alkalinity in CaCO3 units

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06010050	MGL		(0-0)	
LCS1	Alkalinity in CaCO3 units	100	98	MGL	98.0	(90-110)	
LCS2	Alkalinity in CaCO3 units	100	97	MGL	97.0	(90-110)	
MBLK	Alkalinity in CaCO3 units	ND	<2.0	MGL			
MRL_CHK	Alkalinity in CaCO3 units	2.00	1.97	MGL	98.5	(50-150)	
MS	Alkalinity in CaCO3 units	100	92	MGL	92.0	(80-120)	
MS2	Alkalinity in CaCO3 units	100	96	MGL	96.0	(80-120)	
MSD	Alkalinity in CaCO3 units	100	93	MGL	93.0	(80-120)	
MSD2	Alkalinity in CaCO3 units	100	94	MGL	94.0	(80-120)	
RPD_LCS	Alkalinity in CaCO3 units	98.000	97.000	MGL	1.0	(0-10)	
RPD_MS	Alkalinity in CaCO3 units	92.000	93.000	MGL	1.1	(0-20)	

QC Ref #486630 Specific Conductance at 25 C

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance at 25 C	547	552	UMHO		(0-20)	0.9
DUP2	Specific Conductance at 25 C	18	14	UMHO		(0-20)	<u>25.0</u>
LCS1	Specific Conductance at 25 C	1000	987	UMHO	98.7	(90-110)	
LCS2	Specific Conductance at 25 C	1000	990	UMHO	99.0	(90-110)	
MBLK	Specific Conductance at 25 C	ND	<2.0	UMHO			
MRL_CHK	Specific Conductance at 25 C	2.00	1.74	UMHO	87.0	(50-150)	

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QC Ref #486697 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05300001	MGL		(0-0)	
LCS1	Chloride	25	25.4	MGL	101.6	(90-110)	
LCS2	Chloride	25	26.2	MGL	104.8	(90-110)	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.421	MGL	84.2	(50-150)	
RPD_LCS	Chloride	101.600	104.800	MGL	3.1	(0-20)	
RPD_MS	Chloride	73.680	88.000	MGL	17.7	(0-20)	

QC Ref #486698 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05300001	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.42	MGL	96.8	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.48	MGL	99.2	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0414	MGL	82.8	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.31	MGL	104.8	(87-121)	
MSD	Nitrate as Nitrogen by IC	1.25	1.34	MGL	107.2	(87-121)	
RPD_LCS	Nitrate as Nitrogen by IC	96.800	99.200	MGL	2.4	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	104.800	107.200	MGL	2.3	(0-20)	

QC Ref #486699 Sulfate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05300001	MGL		(0-0)	
LCS1	Sulfate	50	49.7	MGL	99.4	(90-110)	
LCS2	Sulfate	50	51.0	MGL	102.0	(90-110)	
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	0.25	0.237	MGL	94.8	(50-150)	

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MS	Sulfate	25	22.9	MGL	91.6	(84-130)
MSD	Sulfate	25	25.8	MGL	103.2	(84-130)
RPD_LCS	Sulfate	99.400	102.000	MGL	2.6	(0-20)
RPD_MS	Sulfate	91.600	103.200	MGL	11.9	(0-20)

QC Ref #486821 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0905210072	MGL		(0-0)	
LCS1	Iron, Total, ICAP	5.0	5.14	MGL	102.8	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.18	MGL	103.6	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0240	MGL	120.0	(50-150)	
MS	Iron, Total, ICAP	5.0	5.11	MGL	102.2	(70-130)	
MS2	Iron, Total, ICAP	5.0	5.20	MGL	104.0	(70-130)	
MSD	Iron, Total, ICAP	5.0	5.10	MGL	102.0	(70-130)	
MSD2	Iron, Total, ICAP	5.0	5.12	MGL	102.4	(70-130)	
RPD_LCS	Iron, Total, ICAP	102.800	103.600	MGL	0.8	(0-20)	
RPD_MS	Iron, Total, ICAP	102.200	102.000	MGL	0.2	(0-20)	

QC Ref #486827 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0905210072	MGL		(0-0)	
LCS1	Potassium, Total, ICAP	20	19.9	MGL	99.5	(85-115)	
LCS2	Potassium, Total, ICAP	20	20.1	MGL	100.5	(85-115)	
MBLK	Potassium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Potassium, Total, ICAP	1.000	1.05	MGL	105.0	(50-150)	
MS	Potassium, Total, ICAP	20	21.0	MGL	105.0	(70-130)	
MS2	Potassium, Total, ICAP	20	20.8	MGL	104.0	(70-130)	
MSD	Potassium, Total, ICAP	20	20.9	MGL	104.5	(70-130)	
MSD2	Potassium, Total, ICAP	20	20.6	MGL	103.0	(70-130)	
RPD_LCS	Potassium, Total, ICAP	99.500	100.500	MGL	1.0	(0-20)	
RPD_MS	Potassium, Total, ICAP	105.000	104.500	MGL	0.5	(0-20)	

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QC Ref #486832 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0905210072	MGL		(0-0)	
LCS1	Magnesium, Total, ICAP	20	20.7	MGL	103.5	(85-115)	
LCS2	Magnesium, Total, ICAP	20	20.9	MGL	104.5	(85-115)	
MBLK	Magnesium, Total, ICAP	ND	<0.10	MGL			
MRL_CHK	Magnesium, Total, ICAP	0.100	0.105	MGL	105.0	(50-150)	
MS	Magnesium, Total, ICAP	20	20.6	MGL	103.0	(70-130)	
MS2	Magnesium, Total, ICAP	20	21.6	MGL	108.0	(70-130)	
MSD	Magnesium, Total, ICAP	20	20.5	MGL	102.5	(70-130)	
MSD2	Magnesium, Total, ICAP	20	21.1	MGL	105.5	(70-130)	
RPD_LCS	Magnesium, Total, ICAP	103.500	104.500	MGL	1.0	(0-20)	
RPD_MS	Magnesium, Total, ICAP	103.000	102.500	MGL	0.5	(0-20)	

QC Ref #486838 Manganese, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0905210072	MGL		(0-0)	
LCS1	Manganese, Total, ICAP	0.50	0.538	MGL	107.6	(85-115)	
LCS2	Manganese, Total, ICAP	0.50	0.538	MGL	107.6	(85-115)	
MBLK	Manganese, Total, ICAP	ND	<u>0</u>	MGL	-		
MRL_CHK	Manganese, Total, ICAP	0.002	0.0024	MGL	120.0	(50-150)	
MS	Manganese, Total, ICAP	0.50	0.515	MGL	103.0	(70-130)	
MSD	Manganese, Total, ICAP	0.50	0.515	MGL	103.0	(70-130)	

QC Ref #486843 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Total, ICAP	50	51.2	MGL	102.4	(85-115)	
LCS2	Sodium, Total, ICAP	50	51.5	MGL	103.0	(85-115)	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			

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MRL_CHK	Analyte	1.000	1.01	MGL	101.0	(50-150)
MS	Sodium, Total, ICAP	50	52.7	MGL	105.4	(70-130)
MS2	Sodium, Total, ICAP	50	53.1	MGL	106.2	(70-130)
MSD	Sodium, Total, ICAP	50	52.0	MGL	104.0	(70-130)
MSD2	Sodium, Total, ICAP	50	52.2	MGL	104.4	(70-130)
RPD_LCS	Sodium, Total, ICAP	102.400	103.000	MGL	0.6	(0-20)
RPD_MS	Sodium, Total, ICAP	105.400	104.000	MGL	1.3	(0-20)

QC Ref #486851 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0905210072	MGL		(0-0)	
LCS1	Calcium, Total, ICAP	50	53.8	MGL	107.6	(85-115)	
LCS2	Calcium, Total, ICAP	50	53.4	MGL	106.8	(85-115)	
MBLK	Calcium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Calcium, Total, ICAP	1.000	1.03	MGL	103.0	(50-150)	
MS	Calcium, Total, ICAP	50	51.2	MGL	102.4	(70-130)	
MS2	Calcium, Total, ICAP	50	53.4	MGL	106.8	(70-130)	
MSD	Calcium, Total, ICAP	50	51.0	MGL	102.0	(70-130)	
MSD2	Calcium, Total, ICAP	50	52.8	MGL	105.6	(70-130)	
RPD_LCS	Calcium, Total, ICAP	107.600	106.800	MGL	0.7	(0-20)	
RPD_MS	Calcium, Total, ICAP	102.400	102.000	MGL	0.4	(0-20)	

QC Ref #486921 Iron, 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	Iron, Total, ICAP	5.0	5.00	MGL	100.0	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.02	MGL	100.4	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0223	MGL	111.5	(50-150)	
MS	Iron, Total, ICAP	5.0	4.88	MGL	97.6	(70-130)	
MS2	Iron, Total, ICAP	5.0	5.14	MGL	102.8	(70-130)	

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QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MSD	Iron, Total, ICAP	5.0	4.89	MGL	97.8	(70-130)	
MSD2	Iron, Total, ICAP	5.0	4.98	MGL	99.6	(70-130)	
RPD_LCS	Iron, Total, ICAP	100.000	100.400	MGL	0.4	(0-20)	
RPD_MS	Iron, Total, ICAP	97.600	97.800	MGL	0.2	(0-20)	

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)	
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)	

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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 #486931 Manganese, 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	Manganese, Total, ICAP	0.50	0.514	MGL	102.8	(85-115)	
LCS2	Manganese, Total, ICAP	0.50	0.523	MGL	104.6	(85-115)	
MBLK	Manganese, Total, ICAP	ND	<0.0020	MGL			
MRL_CHK	Manganese, Total, ICAP	0.002	0.002	MGL	100.0	(50-150)	
MS	Manganese, Total, ICAP	0.50	0.505	MGL	101.0	(70-130)	
MSD	Manganese, Total, ICAP	0.50	0.508	MGL	101.6	(70-130)	

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)	

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Tronox LLC - Henderson
(continued)

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)	
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 #487209 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05270343	MGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 29	06030176	MGL		(0-0)	
LCS1	Calcium, Total, ICAP	50	50.9	MGL	101.8	(85-115)	
LCS2	Calcium, Total, ICAP	50	50.6	MGL	101.2	(85-115)	
MBLK	Calcium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Calcium, Total, ICAP	1.000	1.06	MGL	106.0	(50-150)	
MS	Calcium, Total, ICAP	50	50.5	MGL	101.0	(70-130)	
MS2	Calcium, Total, ICAP	50	50.8	MGL	101.6	(70-130)	
MSD	Calcium, Total, ICAP	50	50.7	MGL	101.4	(70-130)	
MSD2	Calcium, Total, ICAP	50	50.8	MGL	101.6	(70-130)	
RPD_LCS	Calcium, Total, ICAP	101.800	101.200	MGL	0.6	(0-20)	
RPD_MS	Calcium, Total, ICAP	101.000	101.400	MGL	0.4	(0-20)	

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Tronox LLC - Henderson
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QC Ref #487219 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPXSMP	Spiked sample	Lab # 29	05270343	MGL		(0-0)	
AASPXSMP	Spiked sample	Lab # 29	06030176	MGL		(0-0)	
LCS1	Iron, Total, ICAP	5.0	4.98	MGL	99.6	(85-115)	
LCS2	Iron, Total, ICAP	5.0	4.95	MGL	99.0	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0244	MGL	122.0	(50-150)	
MS	Iron, Total, ICAP	5.0	4.93	MGL	98.6	(70-130)	
MS2	Iron, Total, ICAP	5.0	4.95	MGL	99.0	(70-130)	
MSD	Iron, Total, ICAP	5.0	4.97	MGL	99.4	(70-130)	
MSD2	Iron, Total, ICAP	5.0	4.97	MGL	99.4	(70-130)	
RPD_LCS	Iron, Total, ICAP	99.600	99.000	MGL	0.6	(0-20)	
RPD_MS	Iron, Total, ICAP	98.600	99.400	MGL	0.8	(0-20)	

QC Ref #487224 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPXSMP	Spiked sample	Lab # 29	05270343	MGL		(0-0)	
AASPXSMP	Spiked sample	Lab # 29	06030176	MGL		(0-0)	
LCS1	Potassium, Total, ICAP	20	20.0	MGL	100.0	(85-115)	
LCS2	Potassium, Total, ICAP	20	20.0	MGL	100.0	(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	20.2	MGL	101.0	(70-130)	
MS2	Potassium, Total, ICAP	20	20.8	MGL	104.0	(70-130)	
MSD	Potassium, Total, ICAP	20	20.3	MGL	101.5	(70-130)	
MSD2	Potassium, Total, ICAP	20	20.9	MGL	104.5	(70-130)	
RPD_LCS	Potassium, Total, ICAP	100.000	100.000	MGL	0.0	(0-20)	
RPD_MS	Potassium, Total, ICAP	101.000	101.500	MGL	0.5	(0-20)	

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QC Ref #487230

Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05270343	MGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 29	06030176	MGL		(0-0)	
LCS1	Magnesium, Total, ICAP	20	20.5	MGL	102.5	(85-115)	
LCS2	Magnesium, Total, ICAP	20	20.5	MGL	102.5	(85-115)	
MBLK	Magnesium, Total, ICAP	ND	<0.10	MGL			
MRL_CHK	Magnesium, Total, ICAP	0.100	0.103	MGL	103.0	(50-150)	
MS	Magnesium, Total, ICAP	20	20.5	MGL	102.5	(70-130)	
MS2	Magnesium, Total, ICAP	20	20.8	MGL	104.0	(70-130)	
MSD	Magnesium, Total, ICAP	20	20.7	MGL	103.5	(70-130)	
MSD2	Magnesium, Total, ICAP	20	20.9	MGL	104.5	(70-130)	
RPD_LCS	Magnesium, Total, ICAP	102.500	102.500	MGL	0.0	(0-20)	
RPD_MS	Magnesium, Total, ICAP	102.500	103.500	MGL	1.0	(0-20)	

QC Ref #487235

Manganese, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05270343	MGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 29	06030176	MGL		(0-0)	
LCS1	Manganese, Total, ICAP	0.50	0.510	MGL	102.0	(85-115)	
LCS2	Manganese, Total, ICAP	0.50	0.506	MGL	101.2	(85-115)	
MBLK	Manganese, Total, ICAP	ND	<0.0020	MGL			
MRL_CHK	Manganese, Total, ICAP	0.002	0.0024	MGL	120.0	(50-150)	
MS	Manganese, Total, ICAP	0.50	0.500	MGL	100.0	(70-130)	
MSD	Manganese, Total, ICAP	0.50	0.500	MGL	100.0	(70-130)	

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Tronox LLC - Henderson
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QC Ref #487241 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Total, ICAP	50	51.2	MGL	102.4	(85-115)	
LCS2	Sodium, Total, ICAP	50	51.1	MGL	102.2	(85-115)	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Sodium, Total, ICAP	1.000	1.01	MGL	101.0	(50-150)	
MS	Sodium, Total, ICAP	50	51.4	MGL	102.8	(70-130)	
MS2	Sodium, Total, ICAP	50	51.2	MGL	102.4	(70-130)	
MSD	Sodium, Total, ICAP	50	51.7	MGL	103.4	(70-130)	
MSD2	Sodium, Total, ICAP	50	50.8	MGL	101.6	(70-130)	
RPD_LCS	Sodium, Total, ICAP	102.400	102.200	MGL	0.2	(0-20)	
RPD_MS	Sodium, Total, ICAP	102.800	103.400	MGL	0.6	(0-20)	

QC Ref #487326 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	04220209	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	146	140	MGL		(0-10)	4.2
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	688	MGL	98.3	(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)	97.143	98.286	MGL	1.2	(0-20)	

QC Ref #487336 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05290074	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	3620	3600	MGL		(0-10)	0.6
LCS1	Total Dissolved Solid (TDS)	175	180	MGL	102.9	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	702	MGL	100.3	(80-114)	

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MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL		
MRL_CHK	Total Dissolved Solid (TDS)	10.0	10	MGL	100.0	(50-150)
RPD_LCS	Total Dissolved Solid (TDS)	102.857	100.286	MGL	2.5	(0-20)

QC Ref #487360 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210060	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	0.912	MGL	91.2	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.999	MGL	99.9	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0112	MGL	112.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.977	MGL	97.7	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.904	MGL	90.4	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.010	MGL	101.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.864	MGL	86.4	(70-130)	

QC Ref #487988 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0906120063	MGL		(0-0)	
LCS1	Chloride	25	24.8	MGL	99.2	(90-110)	
LCS2	Chloride	25	24.9	MGL	99.6	(90-110)	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.396	MGL	79.2	(50-150)	
MS	Chloride	12.5	13.4	MGL	107.2	(74-138)	
MSD	Chloride	12.5	13.5	MGL	108.0	(74-138)	
RPD_LCS	Chloride	99.200	99.600	MGL	0.4	(0-20)	
RPD_MS	Chloride	107.200	108.000	MGL	0.7	(0-20)	

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Tronox LLC - Henderson
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QC Ref #487997 Sulfate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0906120063	MGL		(0-0)	
LCS1	Sulfate	50	48.9	MGL	97.8	(90-110)	
LCS2	Sulfate	50	49.1	MGL	98.2	(90-110)	
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	0.25	0.272	MGL	108.8	(50-150)	
MS	Sulfate	25	25.7	MGL	102.8	(84-130)	
MSD	Sulfate	25	25.9	MGL	103.6	(84-130)	
RPD_LCS	Sulfate	97.800	98.200	MGL	0.4	(0-20)	
RPD_MS	Sulfate	102.800	103.600	MGL	0.8	(0-20)	

QC Ref #488027 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06110007	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.4	UGL	97.6	(85-115)	
LCS2	Perchlorate	25.0	24.6	UGL	98.4	(85-115)	
LCS3	Perchlorate	4	3.54	UGL	88.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.3	UGL	93.2	(80-120)	
MSD	Perchlorate	25.0	23.2	UGL	92.8	(80-120)	
RPD_LCS	Perchlorate	97.600	98.400	UGL	0.8	(0-15)	
RPD_MS	Perchlorate	93.200	92.800	UGL	1.0	(0-15)	

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)	

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QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
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)	
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 #488062 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200906150239	MGL		(0-0)	
LCS1	Chloride	25	24.7	MGL	98.8	(90-110)	
LCS2	Chloride	25	24.7	MGL	98.8	(90-110)	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.395	MGL	79.0	(50-150)	
MS	Chloride	12.5	13.9	MGL	111.2	(74-138)	
MSD	Chloride	12.5	13.9	MGL	111.2	(74-138)	
RPD_LCS	Chloride	98.800	98.800	MGL	0.0	(0-20)	
RPD_MS	Chloride	111.200	111.200	MGL	0.0	(0-20)	

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)	

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RPD_MS Calcium, Total, ICAP 100.000 100.600 MGL 0.6 (0-20)

QC Ref #488180 Iron, 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	Iron, Total, ICAP	5.0	5.04	MGL	100.8	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.45	MGL	109.0	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.022	MGL	110.0	(50-150)	
MS	Iron, Total, ICAP	5.0	5.00	MGL	100.0	(70-130)	
MS2	Iron, Total, ICAP	5.0	5.29	MGL	105.8	(70-130)	
MSD	Iron, Total, ICAP	5.0	5.11	MGL	102.2	(70-130)	
MSD2	Iron, Total, ICAP	5.0	4.95	MGL	99.0	(70-130)	
RPD_LCS	Iron, Total, ICAP	100.800	109.000	MGL	7.8	(0-20)	
RPD_MS	Iron, Total, ICAP	100.000	102.200	MGL	2.2	(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)	

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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 #488200 Manganese, 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	Manganese, Total, ICAP	0.50	0.516	MGL	103.2	(85-115)	
LCS2	Manganese, Total, ICAP	0.50	0.551	MGL	110.2	(85-115)	
MBLK	Manganese, Total, ICAP	ND	<0.0020	MGL			
MRL_CHK	Manganese, Total, ICAP	0.002	0.0022	MGL	110.0	(50-150)	
MS	Manganese, Total, ICAP	0.50	0.512	MGL	102.4	(70-130)	
MSD	Manganese, Total, ICAP	0.50	0.521	MGL	104.2	(70-130)	

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Laboratory
QC Report
#271337

Tronox LLC - Henderson
(continued)

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)	

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)	

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Tronox LLC - Henderson
(continued)

QC Ref #488450 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06090008	MGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 29	06170033	MGL		(0-0)	
LCS1	Iron, Total, ICAP	5.0	5.24	MGL	104.8	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.16	MGL	103.2	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0215	MGL	107.5	(50-150)	
MS	Iron, Total, ICAP	5.0	4.93	MGL	98.6	(70-130)	
MS2	Iron, Total, ICAP	5.0	5.19	MGL	103.8	(70-130)	
MSD	Iron, Total, ICAP	5.0	5.12	MGL	102.4	(70-130)	
MSD2	Iron, Total, ICAP	5.0	5.25	MGL	105.0	(70-130)	
RPD_LCS	Iron, Total, ICAP	104.800	103.200	MGL	1.5	(0-20)	
RPD_MS	Iron, Total, ICAP	98.600	102.400	MGL	3.8	(0-20)	

QC Ref #488454 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06090008	MGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 29	06170033	MGL		(0-0)	
LCS1	Potassium, Total, ICAP	20	19.7	MGL	98.5	(85-115)	
LCS2	Potassium, Total, ICAP	20	19.5	MGL	97.5	(85-115)	
MBLK	Potassium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Potassium, Total, ICAP	1.000	0.968	MGL	96.8	(50-150)	
MS	Potassium, Total, ICAP	20	19.8	MGL	99.0	(70-130)	
MS2	Potassium, Total, ICAP	20	20.1	MGL	100.5	(70-130)	
MSD	Potassium, Total, ICAP	20	20.3	MGL	101.5	(70-130)	
MSD2	Potassium, Total, ICAP	20	20.6	MGL	103.0	(70-130)	
RPD_LCS	Potassium, Total, ICAP	98.500	97.500	MGL	1.0	(0-20)	
RPD_MS	Potassium, Total, ICAP	99.000	101.500	MGL	2.5	(0-20)	

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QC Report
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Tronox LLC - Henderson
(continued)

QC Ref #488459 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06090008	MGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 29	06170033	MGL		(0-0)	
LCS1	Magnesium, Total, ICAP	20	20.5	MGL	102.5	(85-115)	
LCS2	Magnesium, Total, ICAP	20	20.2	MGL	101.0	(85-115)	
MBLK	Magnesium, Total, ICAP	ND	<0.10	MGL			
MRL_CHK	Magnesium, Total, ICAP	0.100	0.103	MGL	103.0	(50-150)	
MS	Magnesium, Total, ICAP	20	20.2	MGL	101.0	(70-130)	
MS2	Magnesium, Total, ICAP	20	20.4	MGL	102.0	(70-130)	
MSD	Magnesium, Total, ICAP	20	20.9	MGL	104.5	(70-130)	
MSD2	Magnesium, Total, ICAP	20	21.1	MGL	105.5	(70-130)	
RPD_LCS	Magnesium, Total, ICAP	102.500	101.000	MGL	1.5	(0-20)	
RPD_MS	Magnesium, Total, ICAP	101.000	104.500	MGL	3.4	(0-20)	

QC Ref #488463 Manganese, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06090008	MGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 29	06170033	MGL		(0-0)	
LCS1	Manganese, Total, ICAP	0.50	0.531	MGL	106.2	(85-115)	
LCS2	Manganese, Total, ICAP	0.50	0.529	MGL	105.8	(85-115)	
MBLK	Manganese, Total, ICAP	ND	<0.0020	MGL			
MRL_CHK	Manganese, Total, ICAP	0.002	0.0021	MGL	105.0	(50-150)	
MS	Manganese, Total, ICAP	0.50	0.515	MGL	103.0	(70-130)	
MSD	Manganese, Total, ICAP	0.50	0.521	MGL	104.2	(70-130)	

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Tronox LLC - Henderson
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QC Ref #488468
Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Total, ICAP	50	50.2	MGL	100.4	(85-115)	
LCS2	Sodium, Total, ICAP	50	49.8	MGL	99.6	(85-115)	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Sodium, Total, ICAP	1.000	0.953	MGL	95.3	(50-150)	
MS	Sodium, Total, ICAP	50	49.6	MGL	99.2	(70-130)	
MS2	Sodium, Total, ICAP	50	50.0	MGL	100.0	(70-130)	
MSD	Sodium, Total, ICAP	50	50.6	MGL	101.2	(70-130)	
MSD2	Sodium, Total, ICAP	50	51.5	MGL	103.0	(70-130)	
RPD_LCS	Sodium, Total, ICAP	100.400	99.600	MGL	0.8	(0-20)	
RPD_MS	Sodium, Total, ICAP	99.200	101.200	MGL	2.0	(0-20)	

QC Ref #488474
Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06090008	MGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 29	06170033	MGL		(0-0)	
LCS1	Calcium, Total, ICAP	50	51.6	MGL	103.2	(85-115)	
LCS2	Calcium, Total, ICAP	50	50.8	MGL	101.6	(85-115)	
MBLK	Calcium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Calcium, Total, ICAP	1.000	0.975	MGL	97.5	(50-150)	
MS	Calcium, Total, ICAP	50	50.8	MGL	101.6	(70-130)	
MS2	Calcium, Total, ICAP	50	51.0	MGL	102.0	(70-130)	
MSD	Calcium, Total, ICAP	50	51.9	MGL	103.8	(70-130)	
MSD2	Calcium, Total, ICAP	50	52.3	MGL	104.6	(70-130)	
RPD_LCS	Calcium, Total, ICAP	103.200	101.600	MGL	1.6	(0-20)	
RPD_MS	Calcium, Total, ICAP	101.600	103.800	MGL	2.1	(0-20)	

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 are advisory only, unless otherwise specified in the method.