MWH Laboratories
A Division of MWH Americas, Inc.

750 Royal Oaks Drive
Suite 100
Monrovia, California 91016-3629
Tel: 626 568 6400
Fax: 626 568 6324
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 08 2009
MWH LABORATORIES

Andrew Eaton

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

ADE Andy Eaton
Project Manager

Report#: 270390
Project: CLO4
PO#: Susan Crowle

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments,QC Report,QC Summary,Data Report,Hits Report, totaling 16 page[s].

MWH

BUILDING A BETTER WORLD

June 8, 2009

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

Subject: Case Narrative report 270390

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

Hexavalent chromium was received past hold time.

pH was initially analyzed on the day of receipt, but was reconfirmed with re-analysis due to incomplete QC on the first day of analysis.

One sample for chlorate was analyzed in a separate batch.

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

Andrew Eaton, PhD
Project Manager

750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016

TEL 626-3865-1100
FAX 626-386-1101
www.mwhlabs.com

270390

MONTGOMERY WATSON LABORATORIES — CHAIN OF CUSTODY RECORD

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

MWLABS USE ONLY:
LOGIN COMMENTS:
SAMPLES CHECKED/LOGGED IN BY: JS
SAMPLE TEMP, RECEIPT AT LAB: 2°
BLUE ICE: FROZEN ___ PARTIALLY FROZEN ___ THAWED ___

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME	PROJECT JOB # / P.O.#
KERRMCGEE-MP	Quarterly Groundwater Sampling Schedule B

Sampler Michele Brown
Susan Crowley (702) 651-2234

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

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes)

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	CR 6010	pH 9040	TDS	CLO4	CRVI 7196	CLO3 9056	NO3 9056	See Bottle Order	SAMPLER Comments
6:50	5-5-09		I-AA	RGW	X		X	X	X	X					2 Bottles
7:00	5-5-09		M-131	RGW	X		X	X	X	X					2 Bottles
711	5-5-09		M-57A	RGW	X		X	X	X	X					2 Bottles
728	5-5-09		M-79	RGW	X		X	X	X	X					2 Bottles
740	5-5-09		M-69	RGW	X		X	X	X	X					2 Bottles
751	5-5-09		M-135	RGW	X		X	X	X	X					2 Bottles
8:52	5-5-09		M-25	RGW	X		X	X	X	X		X	X		4 Bottles
8:03	5-5-09		M-99	RGW	X		X	X	X	X					2 Bottles
1042	5-5-09		M-37	RGW	X		X	X	X	X	X	X	X		5 Bottles
	5-5-09		MD-4	RGW	X		X	X	X	X					2 Bottles
1045	5-5-09		EB-1	RGW	X		X	X	X	X	X				3 Bottles
				RGW	X		X	X	X	X					Bottles

* MATRIX TYPES:

Reported by Volume:
CFW = Chlor(am)inated Finished Water
FW = Other Finished Water
RGW = Raw Ground Water
RSW = Raw Surface Water
CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

Reported by Weight:
SO = Soil
SL = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	Michele Brown	Michele Brown	Veolia Water NA for Tronox LLC - Henderson Plant	5-5-09	12:00PM
RECEIVED BY:	Joe Sanchez	Joe Sanchez	MWLS	5-6-09	10:30
RELINQUISHED BY:					
RECEIVED BY:					

C-O-C# smc052002

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

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

Q Quarterly
Period
Week 1

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

SO# 47781 26973 RS
0

Sampler: Please Return this Paper with your samples

Created by ADE
Order Date 04/23/09
Date Needed by Client 04/30/09
Date Samples to Arrive at MWL 04/25/09
SHIP LOCATION

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

ATTN: Susan Crowley
PHONE: 702-651-2234

Send Report to
Tronox LLC Henderson Plant
PO Box 55
Henderson, NV 89009

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

Billing Address
Tronox LLC
PO Box 3049
Livonia, MI 48150

Quote#
ADE

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#
101	CR6010	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031
101	CLO4, TDS, PH9040	1 500 ml poly /no preservative	
15	CRVI7196	1 125ml poly acid rinsed/ no preservative **SHORT HOLDING TIME!!!!!**	
22	NO39056	1 125ml poly/ no preservative **SHORT HOLDING TIME!!!!!**	
22	CLO39056	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604

Important Comments

QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS

second quarter only

NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht

TDS count increased to 101 effective 6/16/06;; deleted EC as of 7-14-06

Note - client never received original shipment, as best they can tell. Please resend this one.

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

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

SHIPPER'S NUMBER: 143688

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

From: TRONOX LLC

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

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

CARRIER	Date	FROM NO. STATION: STATE
Federal Express	5/5/09	Henderson, NV 89015

MWH LABORATORIES
750 Royal Oaks Avenue, Suite #100
Monrovia, CA 91016-3629
Phone: 626-568-6400

Authorization
M. Skromyda

FULL NAME OF SHIPPER
TRONOX LLC

CODE NO. WCN IS

1321.10181

f it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.

FREIGHT CHARGES
☒ Prepaid ☐ Collect

N/AR	CUSTOMER PO OR REQ'N NO.	SHIPPED FROM
		Henderson, NV

LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	Ice chest with water samples Monitoring Wells quarterly One ice chest @ 28 lbs One ice chest @ 52 lbs One ice chest @ 72 lbs Not Regulated		3 Coolers

Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement:

The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TRONOX LLC

The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement.

TRUCK SHIPMENTS

PLACARDS OFFERED ☐ YES ☒ NO

PLACARDS ACCEPTED ☐ YES ☒ NO

FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
CALL CHEMTREC – DAY OR NIGHT
800-424-9300
483-7616 IN DISTRICT OF COLUMBIA
202-483-7616 FROM OUTSIDE THE CONTINENTAL US.

NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
		0	
1	TOTAL GROSS WEIGHT 152	TOTAL TARE WEIGHT 0	152

"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per

THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859	PER **Carron Williams**	AGENT	PER

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

FedEx Express

J90110901302023

Ship Date: 05MAY09
ActWgt: 52.0 LB
CAD: 2274147/INET9011
Account#: S *********

Delivery Address Bar Code

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

MONROVIA, CA 91016

Ref # MSO #143688
Invoice #
PO #
Dept #

TRK# 0201 7965 7945 6268

WED - 06MAY **A2**
PRIORITY OVERNIGHT

QZ WHPA

91016
CA-US
BUR

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.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 valueof 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.

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#: 270390
Project#: CLO4
Proj Mgr: Andrew Eaton
Phone: (626) 386-1125

The following samples were received from you on **05/06/09**. 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	Matrix	Sample Date	Tests Scheduled
2905060238	I-AA	Water	05-may-2009 06:50:00	CLO4 CR6010 P PH9040 T TDS
2905060239	M-131	Water	05-may-2009 07:00:00	CLO4 CR6010 P PH9040 T TDS
2905060240	M-57A	Water	05-may-2009 07:11:00	CLO4 CR6010 P PH9040 T TDS
2905060241	M-79	Water	05-may-2009 07:28:00	CLO4 CR6010 P PH9040 T TDS
2905060242	M-69	Water	05-may-2009 07:40:00	CLO4 CR6010 P PH9040 T TDS
2905060243	M-135	Water	05-may-2009 07:51:00	CLO4 CR6010 P PH9040 T TDS
2905060244	M-25	Water	05-may-2009 08:52:00	CLO39056 CLO4 CR6010 NO39056 P PH9040 T TDS
2905060245	M-99	Water	05-may-2009 08:03:00	CLO4 CR6010 P PH9040 T TDS
2905060246	M-37	Water	05-may-2009 10:42:00	CLO39056 CLO4 CR6010 CRVI7196 NO39056 P PH9040 T TDS
2905060247	MD-4	Water	05-may-2009 00:00:00	CLO4 CR6010 P PH9040 T TDS
2905060248	EB-1	Water	05-may-2009 10:45:00	CLO4 CR6010 CRVI7196 P PH9040 T TDS

Test Acronym Description

Test Acronym	Description
CLO39056	Chlorate by IC
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
CRVI7196	Hexavalent chromium (Cr VI)

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#: 270390
Project#: CLO4
Proj Mgr: Andrew Eaton
Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
NO39056	Nitrate as Nitrogen by IC
P	Metals sample pH
PH9040	PH (H3=past HT, not compliant)
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)

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Report
Comments
#270390

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: Andrew Eaton

Group Comments

(PH) Past HT reanalysis confirmed the original data.

(QC Ref#: 2905060246)

Test: Chlorate by IC (ML/EPA 9056)

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

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

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

(QC Ref#: 2905060248)

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

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

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Laboratory Hits Report #270390

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

Samples Received
06-may-2009 21:52:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905060238	**I-AA**				
05/25/09	Chromium, Total, ICAP		0.081		mg/l	0.020
05/18/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
05/21/09	Perchlorate		114000		ug/l	8000
05/12/09	Total Dissolved Solid (TDS)		3490	500	mg/l	10
	2905060239	**M-131**				
05/25/09	Chromium, Total, ICAP		0.082		mg/l	0.020
05/18/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
05/21/09	Perchlorate		60900		ug/l	4000
05/12/09	Total Dissolved Solid (TDS)		3280	500	mg/l	10
	2905060240	**M-57A**				
05/25/09	Chromium, Total, ICAP		0.075		mg/l	0.010
05/18/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
05/21/09	Perchlorate		26200		ug/l	2000
05/12/09	Total Dissolved Solid (TDS)		3260	500	mg/l	10
	2905060241	**M-79**				
05/25/09	Chromium, Total, ICAP		0.12		mg/l	0.010
05/18/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		7.8		Units	0.0010
05/23/09	Perchlorate		30600		ug/l	2000
05/12/09	Total Dissolved Solid (TDS)		1800	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Hits Report
#270390

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

Samples Received
06-may-2009 21:52:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905060242	**M-69**				
	2905060242	**M-69**				
05/25/09	Chromium, Total, ICAP		0.079		mg/l	0.020
05/18/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
05/23/09	Perchlorate		371000		ug/l	20000
05/12/09	Total Dissolved Solid (TDS)		4160	500	mg/l	10
	2905060243	**M-135**				
05/25/09	Chromium, Total, ICAP		0.083		mg/l	0.010
05/18/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
05/23/09	Perchlorate		43300		ug/l	2000
05/12/09	Total Dissolved Solid (TDS)		3440	500	mg/l	10
	2905060244	**M-25**				
05/23/09	Chlorate by IC		3370000		ug/l	100000
05/25/09	Chromium, Total, ICAP		12		mg/l	0.10
05/06/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
05/23/09	Perchlorate		444000		ug/l	20000
05/12/09	Total Dissolved Solid (TDS)		9360	500	mg/l	10
	2905060245	**M-99**				
06/08/09	Chromium, Total, ICAP		0.43		mg/l	0.020
06/04/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Hits Report
#270390

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

Samples Received
06-may-2009 21:52:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905060245	**M-99**				
05/23/09	Perchlorate		405000		ug/l	20000
05/12/09	Total Dissolved Solid (TDS)		4650	500	mg/l	10
	2905060246	**M-37**				
05/15/09	Chlorate by IC		16700		ug/l	1000
06/07/09	Chromium, Total, ICAP		0.025		mg/l	0.020
05/06/09	Hexavalent chromium (Cr VI)		0.006		mg/l	0.0050
06/04/09	Metals digestion performed.		Y		Yes/No	
05/06/09	Nitrate as Nitrogen by IC		130		mg/l	5.0
05/06/09	PH (H3=past HT, not compliant)		7.3		Units	0.0010
05/23/09	Perchlorate		1690000		ug/l	200000
05/12/09	Total Dissolved Solid (TDS)		4360	500	mg/l	10
	2905060247	**MD-4**				
06/07/09	Chromium, Total, ICAP		0.076		mg/l	0.020
06/04/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		7.8		Units	0.0010
05/28/09	Perchlorate		25200		ug/l	2000
05/12/09	Total Dissolved Solid (TDS)		3200	500	mg/l	10
	2905060248	**EB-1**				
05/18/09	Metals digestion performed.		Y		Yes/No	
05/06/09	PH (H3=past HT, not compliant)		6.3		Units	0.0010
05/23/09	Perchlorate		159		ug/l	8.0

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Laboratory
Data Report
#270390

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

Samples Received
05/06/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
I-AA (2905060238) Sampled on 05/05/09 06:50								
	05/21/09 00:00	485621	(EPA 314)	Perchlorate	114000	ug/l	8000	2000
05/15/09	05/25/09 00:00	486389	(ML/EPA 6010B)	Chromium, Total, ICAP	0.081	mg/l	0.020	2
	05/18/09 15:56		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 18:47	483779	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/12/09	05/12/09 19:30	484871	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3490	mg/l	10	1
M-131 (2905060239) Sampled on 05/05/09 07:00								
	05/21/09 00:00	485621	(EPA 314)	Perchlorate	60900	ug/l	4000	1000
05/15/09	05/25/09 00:00	486389	(ML/EPA 6010B)	Chromium, Total, ICAP	0.082	mg/l	0.020	2
	05/18/09 15:56		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/12/09	05/12/09 19:30	484871	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3280	mg/l	10	1
M-57A (2905060240) Sampled on 05/05/09 07:11								
	05/21/09 00:00	485621	(EPA 314)	Perchlorate	26200	ug/l	2000	500
05/15/09	05/25/09 00:00	486388	(ML/EPA 6010B)	Chromium, Total, ICAP	0.075	mg/l	0.010	1
	05/18/09 15:56		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/12/09	05/12/09 19:30	484871	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3260	mg/l	10	1
M-79 (2905060241) Sampled on 05/05/09 07:28								
	05/23/09 00:00	485929	(EPA 314)	Perchlorate	30600	ug/l	2000	500
05/15/09	05/25/09 00:00	486388	(ML/EPA 6010B)	Chromium, Total, ICAP	0.12	mg/l	0.010	1
	05/18/09 15:56		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
05/12/09	05/12/09 19:30	484871	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	1800	mg/l	10	1

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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-69 (2905060242) Sampled on 05/05/09 07:40								
	05/23/09 00:00	485932	(EPA 314)	Perchlorate	371000	ug/l	20000	5000
05/15/09	05/25/09 00:00	486389	(ML/EPA 6010B)	Chromium, Total, ICAP	0.079	mg/l	0.020	2
	05/18/09 15:56		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/12/09	05/12/09 19:30	484871	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4160	mg/l	10	1
M-135 (2905060243) Sampled on 05/05/09 07:51								
	05/23/09 00:00	485932	(EPA 314)	Perchlorate	43300	ug/l	2000	500
05/15/09	05/25/09 00:00	486388	(ML/EPA 6010B)	Chromium, Total, ICAP	0.083	mg/l	0.010	1
	05/18/09 15:56		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/12/09	05/12/09 21:30	484870	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3440	mg/l	10	1
M-25 (2905060244) Sampled on 05/05/09 08:52								
	05/23/09 00:00	485939	(ML/EPA 9056)	Chlorate by IC	3370000	ug/l	100000	10000
	05/23/09 00:00	485932	(EPA 314)	Perchlorate	444000	ug/l	20000	5000
05/15/09	05/25/09 00:00	486389	(ML/EPA 6010B)	Chromium, Total, ICAP	12	mg/l	0.10	10
	05/06/09 18:35	483778	(ML/EPA 9056)	Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/12/09	05/12/09 21:30	484870	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9360	mg/l	10	1
M-99 (2905060245) Sampled on 05/05/09 08:03								
	05/23/09 00:00	485932	(EPA 314)	Perchlorate	405000	ug/l	20000	5000
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B)	Chromium, Total, ICAP	0.43	mg/l	0.020	2
	06/04/09 00:00		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/12/09	05/12/09 21:30	484870	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4650	mg/l	10	1

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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-37 (2905060246) Sampled on 05/05/09 10:42								
	05/15/09 03:08	485169	(ML/EPA 9056)	Chlorate by IC	16700	ug/l	1000	100
	05/23/09 00:00	485932	(EPA 314)	Perchlorate	1690000	ug/l	200000	50000
06/01/09	06/07/09 00:00	487102	(ML/EPA 6010B)	Chromium, Total, ICAP	0.025	mg/l	0.020	2
	05/06/09 18:19	484012	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	0.006(H3)	mg/l	0.0050	1
	06/04/09 00:00		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 18:49	483778	(ML/EPA 9056)	Nitrate as Nitrogen by IC	130	mg/l	5.0	50
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
05/12/09	05/12/09 21:30	484870	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4360	mg/l	10	1
MD-4 (2905060247) Sampled on 05/05/09 00:00								
	05/28/09 07:30	486373	(EPA 314)	Perchlorate	25200	ug/l	2000	500
06/01/09	06/07/09 00:00	487102	(ML/EPA 6010B)	Chromium, Total, ICAP	0.076	mg/l	0.020	2
	06/04/09 00:00		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
05/12/09	05/12/09 21:30	484870	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3200	mg/l	10	1
EB-1 (2905060248) Sampled on 05/05/09 10:45								
	05/23/09 00:00	485932	(EPA 314)	Perchlorate	159	ug/l	8.0	2
05/15/09	05/25/09 00:00	486389	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	05/06/09 18:19	484012	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	ND(H3)	mg/l	0.0050	1
	05/18/09 15:56		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	6.3	Units	0.0010	1
05/12/09	05/12/09 21:30	484870	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	ND	mg/l	10	1

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QC Ref #483778 - Nitrate as Nitrogen by IC **Analysis Date: 05/06/2009**

2905060244	M-25
2905060246	M-37

QC Ref #483779 - PH (H3=past HT, not compliant) **Analysis Date: 05/06/2009**

2905060238	I-AA

QC Ref #483780 - PH (H3=past HT, not compliant) **Analysis Date: 05/06/2009**

2905060239	M-131
2905060240	M-57A
2905060241	M-79
2905060242	M-69
2905060243	M-135
2905060244	M-25
2905060245	M-99
2905060246	M-37
2905060247	MD-4
2905060248	EB-1

QC Ref #484012 - Hexavalent chromium (Cr VI) **Analysis Date: 05/06/2009**

2905060246	M-37
2905060248	EB-1

QC Ref #484870 - Total Dissolved Solid (TDS) **Analysis Date: 05/12/2009**

2905060243	M-135
2905060244	M-25
2905060245	M-99
2905060246	M-37
2905060247	MD-4
2905060248	EB-1

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QC Ref #484871 - Total Dissolved Solid (TDS) Analysis Date: 05/12/2009

2905060238	I-AA
2905060239	M-131
2905060240	M-57A
2905060241	M-79
2905060242	M-69

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

2905060246	M-37

QC Ref #485621 - Perchlorate Analysis Date: 05/21/2009

2905060238	I-AA
2905060239	M-131
2905060240	M-57A

QC Ref #485929 - Perchlorate Analysis Date: 05/23/2009

2905060241	M-79

QC Ref #485932 - Perchlorate Analysis Date: 05/23/2009

2905060242	M-69
2905060243	M-135
2905060244	M-25
2905060245	M-99
2905060246	M-37
2905060248	EB-1

QC Ref #485939 - Chlorate by IC Analysis Date: 05/23/2009

2905060244	M-25

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QC Ref #486373 - Perchlorate **Analysis Date: 05/28/2009**

2905060247	MD-4

QC Ref #486388 - Chromium, Total, ICAP **Analysis Date: 05/25/2009**

2905060240	M-57A
2905060241	M-79
2905060243	M-135

QC Ref #486389 - Chromium, Total, ICAP **Analysis Date: 05/25/2009**

2905060238	I-AA
2905060239	M-131
2905060242	M-69
2905060244	M-25
2905060248	EB-1

QC Ref #487102 - Chromium, Total, ICAP **Analysis Date: 06/07/2009**

2905060246	M-37
2905060247	MD-4

QC Ref #487106 - Chromium, Total, ICAP **Analysis Date: 06/08/2009**

2905060245	M-99

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QC Ref #483778 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200905050224	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.49	MGL	99.6	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.43	MGL	97.2	(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	1.25	MGL	100.0	(87-121)	
MSD	Nitrate as Nitrogen by IC	1.25	1.27	MGL	101.6	(87-121)	
RPD_LCS	Nitrate as Nitrogen by IC	99.600	97.200	MGL	2.4	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	100.000	101.600	MGL	1.6	(0-20)	

QC Ref #483779 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.73	7.71	UNIT		(0-20)	0.3

QC Ref #483780 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	6.34	6.19	UNIT		(0-20)	2.4

QC Ref #484012 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060248	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.056	MGL	112.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.057	MGL	114.0	(85-115)	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.006	MGL	120.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.05	0.057	MGL	114.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.05	0.058	MGL	116.0	(70-130)	

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QC Ref #484870 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060243	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	3470	3440	MGL		(0-10)	0.9
LCS1	Total Dissolved Solid (TDS)	175	164	MGL	93.7	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	680	MGL	97.1	(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)	93.714	97.143	MGL	3.6	(0-20)	

QC Ref #484871 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060169	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	590	576	MGL		(0-10)	2.4
LCS1	Total Dissolved Solid (TDS)	175	182	MGL	104.0	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	690	MGL	98.6	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	12	MGL	120.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	104.000	98.571	MGL	5.4	(0-20)	

QC Ref #485169 Chlorate by IC

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

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RPD_LCS	Chlorate by IC	99.500	99.500	UGL	0.0	(0-20)
RPD_MS	Chlorate by IC	101.000	101.000	UGL	0.0	(0-20)

QC Ref #485621 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05120486	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.8	UGL	95.2	(85-115)	
LCS2	Perchlorate	25.0	24.0	UGL	96.0	(85-115)	
LCS3	Perchlorate	4	4.40	UGL	110.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.7	UGL	98.8	(80-120)	
MSD	Perchlorate	25.0	26.3	UGL	105.2	(80-120)	
RPD_LCS	Perchlorate	95.200	96.000	UGL	0.8	(0-15)	
RPD_MS	Perchlorate	98.800	105.200	UGL	1.1	(0-15)	

QC Ref #485929 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05180006	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.7	UGL	98.8	(85-115)	
LCS2	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	
LCS3	Perchlorate	4.0	4.10	UGL	102.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.6	UGL	94.4	(80-120)	
MSD	Perchlorate	25.0	23.0	UGL	92.0	(80-120)	
RPD_LCS	Perchlorate	98.800	100.800	UGL	2.0	(0-15)	
RPD_MS	Perchlorate	94.400	92.000	UGL	1.0	(0-15)	

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QC Ref #485932 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05130453	UGL		(0-0)	
LCS1	Perchlorate	25.0	22.4	UGL	89.6	(85-115)	
LCS2	Perchlorate	25.0	24.2	UGL	96.8	(85-115)	
LCS3	Perchlorate	4.0	3.86	UGL	96.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.4	UGL	89.6	(80-120)	
MSD	Perchlorate	25.0	22.5	UGL	90.0	(80-120)	
RPD_LCS	Perchlorate	89.600	96.800	UGL	7.7	(0-15)	
RPD_MS	Perchlorate	89.600	90.000	UGL	1.0	(0-15)	

QC Ref #485939 Chlorate by IC

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

QC Ref #486373 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05120284	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	
LCS2	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	

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LCS3	Perchlorate	4	4.45	UGL	111.2	(75-125)
MBLK	Perchlorate	ND	<4.0	UGL		
MS	Perchlorate	25.0	25.4	UGL	101.6	(80-120)
MSD	Perchlorate	25.0	25.3	UGL	101.2	(80-120)
RPD_LCS	Perchlorate	102.000	102.000	UGL	0.0	(0-15)
RPD_MS	Perchlorate	101.600	101.200	UGL	1.0	(0-15)

QC Ref #486388 Chromium, Total, ICAP

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

QC Ref #486389 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060194	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	

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
#270390

Tronox LLC - Henderson
(continued)

QC Ref #487102 Chromium, Total, ICAP

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

QC Ref #487106 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05110095	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.06	MGL	106.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.991	MGL	99.1	(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.