



# MWH Laboratories

A Division of MWH Americas, Inc.

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

## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

Attention: Susan Crowley  
Fax: (405) 302-4607

DATE OF ISSUE  
Jun 18 2009  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager



Report#: 271121  
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 11 page[s].



**MWH**

**BUILDING A BETTER WORLD**

June 19, 2009

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

Subject: Case Narrative report 271121

Sample receipt: The samples arrived at MWH on May 22, 2009, with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:

For the MWH Laboratories data the following issues were observed:

None

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

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

Sincerely yours,

Andrew Eaton, PhD  
Project Manager



# MONTGOMERY WATSON LABORATORIES CHAIN OF CUSTODY RECORD

271121

750 Royal Oaks Dr, Suite 100, Monrovia, CA 91016-3629

(626) 568-6400 (800) 566-5227

MWLABS USE ONLY:

LOG IN COMMENTS: SS/JS

SAMPLES CHECKED/LOGGED IN BY: SS/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.#		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		(702) 651-2234					
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	SAMPLER COMMENTS
0740	5-21-05	M-64		RGW	X		
0817	5-21-05	M-136		RGW	X		
0917	5-21-05	MW-16		RGW	X		
0910	5-21-05	AB052109		RGW	X		
0920	5-21-05	08052109		RGW	X		
1051	5-21-05	MW-132		RGW	X		
1129	5-21-05	MW-133		RGW	X		
1337	5-21-05	EM-126		RGW	X		
1410	5-21-05	M-127		RGW	X		
	5-21-05	DUPLICATE		RGW	X		

\* MATRIX TYPES:

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

Reported by Weight:  
SO = Soil  
SL = Sludge

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

RGW = Raw Ground Water  
RSW = Raw Surface Water

RELINQUISHED BY: <u>[Signature]</u>	SIGNATURE	PRINT NAME: <u>Doris Davis</u>	COMPANY/TITLE: <u>WWS</u>	DATE: <u>5-21-05</u>	TIME: <u>1507</u>
RECEIVED BY: <u>[Signature]</u>		PRINT NAME: <u>JUL Sanchez</u>	COMPANY/TITLE: <u>MWH</u>	DATE: <u>5-22-05</u>	TIME: <u>10:30</u>
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**

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

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

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

Created by GJY

Order Date

04/16/09

Date Needed by Client

Ship Sample Kits to

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

Send Report to

Ironox LLC Henderson Plant  
P.O. Box 55  
Henderson, NV 89009

Billing Address

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

Date Samples to Arrive at MWL

ATTN: Susan Crowley  
PHONE: 702-651-2234

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

Quote#

GJY

SHIP LOCATION

# of Samples Tests

Bottles-Qty for each sample, type & preservative if any

UN#

Important Comments

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

ActiveCode

Status

Date Shipped

Carrier

Qty of Coolers

Tracking Number

Printed By

From: Origin ID: LASA (702) 651-2234  
 Susan Crowley  
 Tronox  
 560 West Lake Mead Parkway  
 Henderson, NV 89015



J90410901302023

Ship Date: 21MAY09  
 ActWgt: 50.0 LB  
 CAD: 7219287//NET9011  
 Account#: S\*\*\*\*\*

Delivery Address Bar Code



Ref # annual water sampling-10181.23  
 Invoice #  
 PO #  
 Dept #

SHIP TO: (626) 386-1100 BILL SENDER

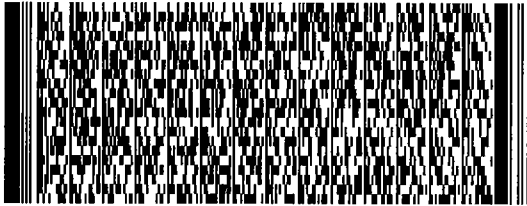
**Sample Receiving**  
**MWH Labs**  
**750 ROYAL OAKS DR STE 100**

**MONROVIA, CA 91016**

**FRI - 22MAY A2**

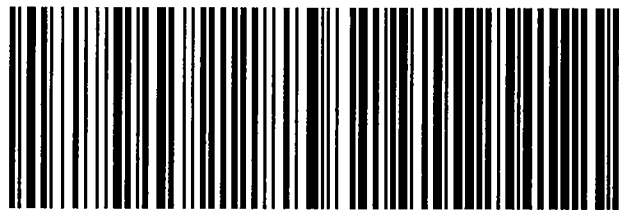
TRK# 7966 2951 2248  
 (0201)

**PRIORITY OVERNIGHT**



**91016**  
**CA-US**  
**BUR**

**QZ WHPA**



**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.

**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#: 271121  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on 05/22/09. 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
2905220113	M-64	CLO4 CR6010	Water P T	21-may-2009 07:40:00 TDS
2905220114	M-136	CLO4 CR6010	Water P T	21-may-2009 08:17:00 TDS
2905220115	MW-16	CLO4 CR6010	Water P T	21-may-2009 09:17:00 TDS
2905220116	FB052109	CLO4 CR6010	Water P T	21-may-2009 09:10:00 TDS
2905220117	EB052109	CLO4 CR6010	Water P T	21-may-2009 09:20:00 TDS
2905220118	MW-132	CLO4 CR6010	Water P T	21-may-2009 10:51:00 TDS
2905220119	MW-133	CLO4 CR6010	Water P T	21-may-2009 11:29:00 TDS
2905220120	M-126	CLO4 CR6010	Water P T	21-may-2009 13:37:00 TDS
2905220121	M-127	CLO4 CR6010	Water P T	21-may-2009 14:10:00 TDS
2905220122	DUPLICATE	CLO4 CR6010	Water P T	21-may-2009 00:00:00 TDS

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
P	Metals sample pH
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



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Report  
Comments  
#271121

## 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: \_\_\_\_\_



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Laboratory  
Hits Report  
#271121

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

Samples Received  
22-may-2009 17:29:52

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905220113	M-64				
06/09/09		Chromium, Total, ICAP	9.3		mg/l	0.050
06/10/09		Metals digestion performed.	Y		Yes/No	
06/09/09		Perchlorate	680000		ug/l	40000
05/27/09		Total Dissolved Solid (TDS)	9320	500	mg/l	10
	2905220114	M-136				
06/09/09		Chromium, Total, ICAP	0.083		mg/l	0.010
06/10/09		Metals digestion performed.	Y		Yes/No	
06/11/09		Perchlorate	117000		ug/l	8000
05/27/09		Total Dissolved Solid (TDS)	1504	500	mg/l	10
	2905220115	MW-16				
06/12/09		Perchlorate	47		ug/l	20
05/27/09		Total Dissolved Solid (TDS)	12600	500	mg/l	10
	2905220116	FB052109				
	2905220117	EB052109				
	2905220118	M-132				
06/09/09		Chromium, Total, ICAP	0.081		mg/l	0.010
06/10/09		Metals digestion performed.	Y		Yes/No	
06/12/09		Perchlorate	7410		ug/l	400
05/27/09		Total Dissolved Solid (TDS)	1482	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.





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Laboratory  
Hits Report  
#271121

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

Samples Received  
22-may-2009 17:29:52

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905220119	M-133				
	2905220119	M-133				
06/09/09	Chromium, Total, ICAP		0.69		mg/l	0.020
06/10/09	Metals digestion performed.		Y		Yes/No	
06/12/09	Perchlorate		12200		ug/l	800
05/27/09	Total Dissolved Solid (TDS)		5764	500	mg/l	10
	2905220120	M-126				
06/10/09	Metals digestion performed.		Y		Yes/No	
06/12/09	Perchlorate		20		ug/l	20
05/27/09	Total Dissolved Solid (TDS)		17300	500	mg/l	10
	2905220121	M-127				
06/09/09	Chromium, Total, ICAP		0.040		mg/l	0.010
06/10/09	Metals digestion performed.		Y		Yes/No	
05/27/09	Total Dissolved Solid (TDS)		15000	500	mg/l	10
	2905220122	DUPLICATE				
06/09/09	Chromium, Total, ICAP		0.094		mg/l	0.010
06/10/09	Metals digestion performed.		Y		Yes/No	
06/12/09	Perchlorate		9670		ug/l	800
05/27/09	Total Dissolved Solid (TDS)		1584	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Data Report  
#271121

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

Samples Received  
05/22/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-64 (2905220113)      Sampled on 05/21/09 07:40</b>								
	06/09/09 00:00	487261	( EPA 314 )	Perchlorate	680000	ug/l	40000	10000
06/09/09	06/09/09 00:00	487356	( ML/EPA 6010B )	Chromium, Total, ICAP	9.3	mg/l	0.050	5
	06/10/09 16:16		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	9320	mg/l	10	1
<b>M-136 (2905220114)      Sampled on 05/21/09 08:17</b>								
	06/11/09 00:00	487704	( EPA 314 )	Perchlorate	117000	ug/l	8000	2000
06/09/09	06/09/09 00:00	487356	( ML/EPA 6010B )	Chromium, Total, ICAP	0.083	mg/l	0.010	1
	06/10/09 16:16		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	1504	mg/l	10	1
<b>MW-16 (2905220115)      Sampled on 05/21/09 09:17</b>								
	06/12/09 00:00	487776	( EPA 314 )	Perchlorate	47	ug/l	20	5
06/09/09	06/09/09 18:49	487360	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.010	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	12600	mg/l	10	1
<b>FB052109 (2905220116)      Sampled on 05/21/09 09:10</b>								
	06/10/09 17:15	487688	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
06/09/09	06/09/09 00:00	487356	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.010	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	ND	mg/l	10	1
<b>EB052109 (2905220117)      Sampled on 05/21/09 09:20</b>								
	06/10/09 17:15	487688	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
06/09/09	06/09/09 18:49	487360	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.010	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	ND	mg/l	10	1



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Laboratory  
Data Report  
#271121

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-132 (2905220118)</b>			<b>Sampled on 05/21/09 10:51</b>					
	06/12/09 00:00	487776	( EPA 314 )	Perchlorate	7410	ug/l	400	100
06/09/09	06/09/09 18:49	487360	( ML/EPA 6010B )	Chromium, Total, ICAP	0.081	mg/l	0.010	1
	06/10/09 16:16		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	1482	mg/l	10	1
<b>M-133 (2905220119)</b>			<b>Sampled on 05/21/09 11:29</b>					
	06/12/09 00:00	487776	( EPA 314 )	Perchlorate	12200	ug/l	800	200
06/09/09	06/09/09 00:00	487356	( ML/EPA 6010B )	Chromium, Total, ICAP	0.69	mg/l	0.020	2
	06/10/09 16:16		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	5764	mg/l	10	1
<b>M-126 (2905220120)</b>			<b>Sampled on 05/21/09 13:37</b>					
	06/12/09 00:00	487776	( EPA 314 )	Perchlorate	20	ug/l	20	5
06/09/09	06/09/09 18:49	487360	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.010	1
	06/10/09 16:16		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
05/27/09	05/27/09 14:05	486612	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	17300	mg/l	10	1
<b>M-127 (2905220121)</b>			<b>Sampled on 05/21/09 14:10</b>					
	06/17/09 02:37	488222	( EPA 314 )	Perchlorate	ND	ug/l	200	50
06/09/09	06/09/09 00:00	487356	( ML/EPA 6010B )	Chromium, Total, ICAP	0.040	mg/l	0.010	1
	06/10/09 16:16		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	15000	mg/l	10	1
<b>DUPLICATE (2905220122)</b>			<b>Sampled on 05/21/09 00:00</b>					
	06/12/09 00:00	487776	( EPA 314 )	Perchlorate	9670	ug/l	800	200
06/09/09	06/09/09 00:00	487356	( ML/EPA 6010B )	Chromium, Total, ICAP	0.094	mg/l	0.010	1
	06/10/09 16:16		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
05/27/09	05/27/09 14:00	486612	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	1584	mg/l	10	1



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Laboratory  
QC Summary  
#271121

Tronox LLC - Henderson

QC Ref #486612 - Total Dissolved Solid (TDS) Analysis Date: 05/27/2009

2905220113	M-64	Analyzed by: jrf
2905220114	M-136	Analyzed by: jrf
2905220115	MW-16	Analyzed by: jrf
2905220116	FB052109	Analyzed by: jrf
2905220117	EB052109	Analyzed by: jrf
2905220118	M-132	Analyzed by: jrf
2905220119	M-133	Analyzed by: jrf
2905220120	M-126	Analyzed by: jrf
2905220121	M-127	Analyzed by: jrf
2905220122	DUPLICATE	Analyzed by: jrf

QC Ref #487261 - Perchlorate Analysis Date: 06/09/2009

2905220113	M-64	Analyzed by: ser
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QC Ref #487356 - Chromium, Total, ICAP Analysis Date: 06/09/2009

2905220113	M-64	Analyzed by: csk
2905220114	M-136	Analyzed by: csk
2905220116	FB052109	Analyzed by: csk
2905220119	M-133	Analyzed by: csk
2905220121	M-127	Analyzed by: csk
2905220122	DUPLICATE	Analyzed by: csk

QC Ref #487360 - Chromium, Total, ICAP Analysis Date: 06/09/2009

2905220115	MW-16	Analyzed by: csk
2905220117	EB052109	Analyzed by: csk
2905220118	M-132	Analyzed by: csk
2905220120	M-126	Analyzed by: csk

QC Ref #487688 - Perchlorate Analysis Date: 06/10/2009

2905220116	FB052109	Analyzed by: ser
2905220117	EB052109	Analyzed by: ser



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Laboratory  
QC Summary  
#271121

Tronox LLC - Henderson  
(continued)

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QC Ref #487704 - Perchlorate

Analysis Date: 06/11/2009

2905220114 M-136

Analyzed by: ser

QC Ref #487776 - Perchlorate

Analysis Date: 06/12/2009

2905220115 MW-16  
2905220118 M-132  
2905220119 M-133  
2905220120 M-126  
2905220122 DUPLICATE

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

QC Ref #488222 - Perchlorate

Analysis Date: 06/17/2009

2905220121 M-127

Analyzed by: ser



Tronox LLC - Henderson

QC Ref #486612                      Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210203	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	366	336	MGL		( 0-10 )	8.5
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	686	MGL	98.0	( 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)	97.143	98.000	MGL	0.9	( 0-20 )	

QC Ref #487261                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06050173	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.0	UGL	100.0	( 85-115 )	
LCS2	Perchlorate	25.0	25.3	UGL	101.2	( 85-115 )	
LCS3	Perchlorate	4	4.51	UGL	112.8	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.8	UGL	99.2	( 80-120 )	
MSD	Perchlorate	25.0	24.5	UGL	98.0	( 80-120 )	
RPD_LCS	Perchlorate	100.000	101.200	UGL	1.2	( 0-15 )	
RPD_MS	Perchlorate	99.200	98.000	UGL	1.0	( 0-15 )	

QC Ref #487356                      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05200129	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.09	MGL	109.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0102	MGL	102.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.877	MGL	87.7	( 70-130 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )
MSD2	Chromium, Total, ICAP	1.00	0.925	MGL	92.5	( 70-130 )

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 #487688                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06030459	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.6	UGL	98.4	( 85-115 )	
LCS2	Perchlorate	25.0	24.1	UGL	96.4	( 85-115 )	
LCS3	Perchlorate	4	3.33	UGL	83.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	35.0	32.1	UGL	91.7	( 80-120 )	
MSD	Perchlorate	35.0	31.9	UGL	91.1	( 80-120 )	
RPD_LCS	Perchlorate	98.400	96.400	UGL	2.1	( 0-15 )	
RPD_MS	Perchlorate	91.714	91.143	UGL	1.0	( 0-15 )	

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QC Ref #487704                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06020001	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	23.9	UGL	95.6	( 85-115 )	
LCS2	Perchlorate	25.0	24.5	UGL	98.0	( 85-115 )	
LCS3	Perchlorate	4	4.98	UGL	124.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	35.0	34.4	UGL	98.3	( 80-120 )	
MSD	Perchlorate	35.0	34.2	UGL	97.7	( 80-120 )	
RPD_LCS	Perchlorate	95.600	98.000	UGL	2.5	( 0-15 )	
RPD_MS	Perchlorate	98.286	97.714	UGL	1.0	( 0-15 )	

QC Ref #487776                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06040288	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	23.8	UGL	95.2	( 85-115 )	
LCS2	Perchlorate	25.0	23.2	UGL	92.8	( 85-115 )	
LCS3	Perchlorate	4	3.89	UGL	97.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.2	UGL	92.8	( 80-120 )	
MSD	Perchlorate	25.0	25.4	UGL	101.6	( 80-120 )	
RPD_LCS	Perchlorate	95.200	92.800	UGL	2.6	( 0-15 )	
RPD_MS	Perchlorate	92.800	101.600	UGL	1.1	( 0-15 )	

QC Ref #488222                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06110138	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.5	UGL	98.0	( 85-115 )	
LCS2	Perchlorate	25.0	23.9	UGL	95.6	( 85-115 )	

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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	23.9	UGL	95.6	( 80-120 )
RPD_LCS	Perchlorate	98.000	95.600	UGL	2.5	( 0-15 )
RPD_MS	Perchlorate	98.800	95.600	UGL	1.0	( 0-15 )

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are advisory only, unless otherwise specified in the method.