

Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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

DATE OF ISSUE
Jun 30 2009
MWH LABORATORIES



ADE Andy Eaton
Project Manager

Report#: 271465R
Project: CLO4
PO#: Susan Crowle

Report#271465R replaces the original Report.

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MWH

BUILDING A BETTER WORLD

July 2, 2009

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

Subject: Case Narrative report 271465R

Sample receipt: The samples arrived at MWH on June 6, 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:

Report revised to remove duplicate QC.

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

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

henderson, NV 89015



Ship Date: 02JUN09
ActWgt: 40.0 LB
CAD: 100263135/NET9011
Account#: S *****
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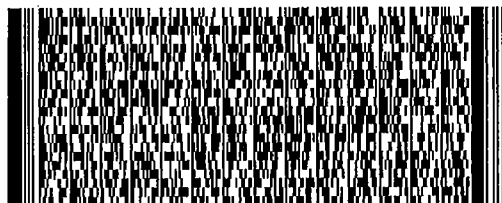
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SHIP TO: (826) 568-8400 BILL SENDER
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Montgomery Watson labs
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

Ref # 20092544V1
Invoice #
PO #
Dept #



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MWH Laboratories
 750 Royal Oaks Drive, Monrovia, CA 91016
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: KERRMCGEE-MP
 PO#: Susan Crowley PO
 Group#: 271465
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 06/03/09. 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
2906030033	M-121	CLO4 CR6010	Water P T	02-jun-2009 07:46:00 TDS
2906030034	M-120	CLO4 CR6010	Water P T	02-jun-2009 08:26:00 TDS
2906030035	FB060209	CLO4 CR6010	Water P T	02-jun-2009 09:05:00 TDS
2906030036	TR-4	ALK ANION1 CLO4 CO3 K MG P PH	Water BALANCE CA CR6010 EC MN NA SO4 T	02-jun-2009 09:27:00 CATION1 CL FE HCO3 NO3 NO3A TDS
2906030037	DUPLICATE	CLO4 CR6010	Water P T	02-jun-2009 00:00:00 TDS

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

Tronox LLC - Henderson
PO Box 55
Henderson, NV 89009
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PO#: Susan Crowley PO
Group#: 271465
Project#: CLO4
Proj Mgr: Andrew Eaton
Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
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)

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: *A. Estro*

Group Comments

Report revised to correct QC for CL and CR6010.

Laboratory
Hits Report
#271465

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

Samples Received
03-jun-2009 13:53:30

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906030033	M-121				
06/17/09	Chromium, Total, ICAP		0.093		mg/l	0.010
06/15/09	Metals digestion performed.		Y		Yes/No	
06/18/09	Perchlorate		1940		ug/l	80
06/05/09	Total Dissolved Solid (TDS)		2270	500	mg/l	10
	2906030034	M-120				
06/15/09	Metals digestion performed.		Y		Yes/No	
06/19/09	Perchlorate		166		ug/l	40
06/05/09	Total Dissolved Solid (TDS)		1980	500	mg/l	10
	2906030035	FB060209				
	2906030036	TR-4				
06/04/09	Alkalinity in CaCO3 units		68		mg/l	2.0
06/18/09	Anion Sum - Calculated		13.		meq/l	0.0010
06/05/09	Bicarb.Alkalinity as HCO3,calc		82.8		mg/l	2.0
06/05/09	Calcium, Total, ICAP		93		mg/l	2.0
06/09/09	Cation Sum - Calculated		13.		meq/l	0.0010
06/13/09	Chloride		280	250	mg/l	10
06/17/09	Chromium, Total, ICAP		0.030		mg/l	0.010
06/05/09	Magnesium, Total, ICAP		20		mg/l	0.20
06/03/09	Nitrate as NO3 (calc)		24	45	mg/l	0.88
06/03/09	Nitrate as Nitrogen by IC		1.34	10	mg/l	0.50
06/04/09	PH (H3=past HT, not compliant)		7.8	6.5-8.5	Units	0.010
06/05/09	Potassium, Total, ICAP		8.5		mg/l	2.0
06/05/09	Sodium, Total, ICAP		150		mg/l	2.0
06/05/09	Specific Conductance at 25 C		1420		umho/cm	2.0

SUMMARY OF POSITIVE DATA ONLY.

Laboratory
 Hits Report
 #271465

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

Samples Received
 03-jun-2009 13:53:30

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906030036	TR-4				
06/03/09	Sulfate		163	250	mg/l	2.5
06/05/09	Total Dissolved Solid (TDS)		874	500	mg/l	10
	2906030037	DUPLICATE				
06/16/09	Chromium, Total, ICAP		0.028		mg/l	0.010
06/05/09	Total Dissolved Solid (TDS)		888	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.

Laboratory
Data Report
#271465

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

Samples Received
06/03/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-121 (2906030033)				Sampled on 06/02/09 07:46				
	06/18/09 15:51	488356	(EPA 314)	Perchlorate	1940	ug/l	80	20
06/15/09	06/17/09 00:00	488229	(ML/EPA 6010B)	Chromium, Total, ICAP	0.093	mg/l	0.010	1
	06/15/09 11:54		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
06/05/09	06/05/09 15:50	487591	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2270	mg/l	10	1
M-120 (2906030034)				Sampled on 06/02/09 08:26				
	06/19/09 00:00	488356	(EPA 314)	Perchlorate	166	ug/l	40	10
06/15/09	06/17/09 00:00	488229	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.010	1
	06/15/09 11:54		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
06/05/09	06/05/09 15:50	487591	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	1980	mg/l	10	1
FB060209 (2906030035)				Sampled on 06/02/09 09:05				
	06/19/09 00:00	488356	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
06/15/09	06/17/09 00:00	488229	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.010	1
06/05/09	06/05/09 15:50	487591	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	ND	mg/l	10	1
TR-4 (2906030036)				Sampled on 06/02/09 09:27				
	06/04/09 00:00	486965	(SM 2320B)	Alkalinity in CaCO3 units	68	mg/l	2.0	1
	06/18/09 16:53		(ML/SM1030E)	Anion Sum - Calculated	13.	meq/l	0.0010	1
	06/05/09 01:54	487209	(ML/EPA 200.7)	Calcium, Total, ICAP	93	mg/l	2.0	2
	06/09/09 11:59		(SM 1030E)	Cation Sum - Calculated	13.	meq/l	0.0010	1
	06/13/09 01:57	487988	(ML/EPA 300.0)	Chloride	280	mg/l	10	10
	06/19/09 00:00	488356	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
	06/05/09 13:36		(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	0.030	mg/l	0.010	1
	06/05/09 10:42	487004	(SM 2510B)	Specific Conductance at 25 C	1420	umho/cm	2.0	1
	06/05/09 01:54	487219	(ML/EPA 200.7)	Iron, Total, ICAP	ND	mg/l	0.040	2
	06/05/09 13:33		(SM 2330B)	Bicarb.Alkalinity as HCO3,calc	82.8	mg/l	2.0	1
	06/05/09 01:54	487224	(ML/EPA 200.7)	Potassium, Total, ICAP	8.5	mg/l	2.0	2
	06/05/09 01:54	487230	(ML/EPA 200.7)	Magnesium, Total, ICAP	20	mg/l	0.20	2
	06/05/09 01:54	487235	(ML/EPA 200.7)	Manganese, Total, ICAP	ND	mg/l	0.0040	2
	06/05/09 01:54	487241	(ML/EPA 200.7)	Sodium, Total, ICAP	150	mg/l	2.0	2

Laboratory
Data Report
#271465

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	06/03/09 14:30	486964	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.34	mg/l	0.50	5
	06/03/09 23:32	486872	(ML/EPA 300.0)	Nitrate as NO3 (calc)	24	mg/l	0.88	2
	06/04/09 11:08	486900	(SM 4500-HB)	PH (H3-past HT, not compliant)	7.8	Units	0.010	1
	06/03/09 14:30	487014	(ML/EPA 300.0)	Sulfate	163	mg/l	2.5	5
06/05/09	06/05/09 15:50	487591	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	874	mg/l	10	1
DUPLICATE (2906030037)				Sampled on 06/02/09 00:00				
	06/19/09 00:00	488356	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
06/15/09	06/16/09 00:00	488241	(ML/EPA 6010B)	Chromium, Total, ICAP	0.028	mg/l	0.010	1
06/05/09	06/05/09 15:50	487591	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	888	mg/l	10	1

Tronox LLC - Henderson

QC Ref #486872 - Nitrate as NO3 (calc)		Analysis Date: 06/03/2009
2906030036	TR-4	Analyzed by: sxx
QC Ref #486900 - PH (H3=past HT, not compliant)		Analysis Date: 06/04/2009
2906030036	TR-4	Analyzed by: sar
QC Ref #486964 - Nitrate as Nitrogen by IC		Analysis Date: 06/03/2009
2906030036	TR-4	Analyzed by: sxx
QC Ref #486965 - Alkalinity in CaCO3 units		Analysis Date: 06/04/2009
2906030036	TR-4	Analyzed by: anh
QC Ref #487004 - Specific Conductance at 25 C		Analysis Date: 06/05/2009
2906030036	TR-4	Analyzed by: sar
QC Ref #487014 - Sulfate		Analysis Date: 06/03/2009
2906030036	TR-4	Analyzed by: sxx
QC Ref #487209 - Calcium, Total, ICAP		Analysis Date: 06/05/2009
2906030036	TR-4	Analyzed by: csk
QC Ref #487219 - Iron, Total, ICAP		Analysis Date: 06/05/2009
2906030036	TR-4	Analyzed by: csk

Tronox LLC - Henderson
(continued)

QC Ref #487224 - Potassium, Total, ICAP		Analysis Date: 06/05/2009
2906030036	TR-4	Analyzed by: csk
QC Ref #487230 - Magnesium, Total, ICAP		Analysis Date: 06/05/2009
2906030036	TR-4	Analyzed by: csk
QC Ref #487235 - Manganese, Total, ICAP		Analysis Date: 06/05/2009
2906030036	TR-4	Analyzed by: csk
QC Ref #487241 - Sodium, Total, ICAP		Analysis Date: 06/05/2009
2906030036	TR-4	Analyzed by: csk
QC Ref #487591 - Total Dissolved Solid (TDS)		Analysis Date: 06/05/2009
2906030033	M-121	Analyzed by: jrf
2906030034	M-120	Analyzed by: jrf
2906030035	FB060209	Analyzed by: jrf
2906030036	TR-4	Analyzed by: jrf
2906030037	DUPLICATE	Analyzed by: jrf
QC Ref #487988 - Chloride		Analysis Date: 06/13/2009
2906030036	TR-4	Analyzed by: sxk
QC Ref #488229 - Chromium, Total, ICAP		Analysis Date: 06/17/2009
2906030033	M-121	Analyzed by: csk
2906030034	M-120	Analyzed by: csk
2906030035	FB060209	Analyzed by: csk
2906030036	TR-4	Analyzed by: csk

Tronox LLC - Henderson
(continued)

QC Ref #488241 - Chromium, Total, ICAP

Analysis Date: 06/16/2009

2906030037

DUPLICATE

Analyzed by: csk

QC Ref #488356 - Perchlorate

Analysis Date: 06/18/2009

2906030033

M-121

Analyzed by: ser

2906030034

M-120

Analyzed by: ser

2906030035

FB060209

Analyzed by: ser

2906030036

TR-4

Analyzed by: ser

2906030037

DUPLICATE

Analyzed by: ser

Tronox LLC - Henderson

QC Ref #486900 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06030470	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	7.75	7.68	UNIT		(0-20)	0.9

QC Ref #486964 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200906030447	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	2.44	MGL	97.6	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.045	MGL	90.0	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.26	MGL	100.8	(87-121)	
MSD	Nitrate as Nitrogen by IC	1.25	1.27	MGL	101.6	(87-121)	
MS_2ND	Nitrate as Nitrogen by IC	1.25	1.27	MGL	101.6	(87-121)	
RPD_LCS	Nitrate as Nitrogen by IC	96.800	97.600	MGL	0.8	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	100.800	101.600	MGL	0.8	(0-20)	

QC Ref #486965 Alkalinity in CaCO3 units

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06030112	MGL		(0-0)	
LCS1	Alkalinity in CaCO3 units	100	95.0	MGL	95.0	(90-110)	
LCS2	Alkalinity in CaCO3 units	100	96.0	MGL	96.0	(90-110)	
MBLK	Alkalinity in CaCO3 units	ND	<2.0	MGL			
MRL_CHK	Alkalinity in CaCO3 units	2.00	1.37	MGL	68.5	(50-150)	
MS	Alkalinity in CaCO3 units	100	98.0	MGL	98.0	(80-120)	
MS2	Alkalinity in CaCO3 units	100	60.0	MGL	<u>60.0</u>	(80-120)	
MSD	Alkalinity in CaCO3 units	100	68.0	MGL	<u>68.0</u>	(80-120)	
MSD2	Alkalinity in CaCO3 units	100	61.0	MGL	<u>61.0</u>	(80-120)	
RPD_LCS	Alkalinity in CaCO3 units	95.000	96.000	MGL	1.0	(0-10)	
RPD_MS	Alkalinity in CaCO3 units	98.000	68.000	MGL	<u>36.1</u>	(0-20)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

Tronox LLC - Henderson
(continued)

QC Ref #487004 Specific Conductance at 25 C

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance at 25 C	310	303	UMHO		(0-20)	2.3
DUP2	Specific Conductance at 25 C	702	700	UMHO		(0-20)	0.3
LCS1	Specific Conductance at 25 C	1000	989	UMHO	98.9	(90-110)	
LCS2	Specific Conductance at 25 C	1000	993	UMHO	99.3	(90-110)	
MBLK	Specific Conductance at 25 C	ND	<2.0	UMHO			
MRL_CHK	Specific Conductance at 25 C	2.00	1.79	UMHO	89.5	(50-150)	

QC Ref #487014 Sulfate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200906030447	MGL		(0-0)	
LCS1	Sulfate	50	50.2	MGL	100.4	(90-110)	
LCS2	Sulfate	50	50.5	MGL	101.0	(90-110)	
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	0.25	0.243	MGL	97.2	(50-150)	
MS	Sulfate	25	25.1	MGL	100.4	(84-130)	
MSD	Sulfate	25	24.6	MGL	98.4	(84-130)	
MS_2ND	Sulfate	25	27.0	MGL	108.0	(84-130)	
RPD_LCS	Sulfate	100.400	101.000	MGL	0.6	(0-20)	
RPD_MS	Sulfate	100.400	98.400	MGL	2.0	(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			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.

Tronox LLC - Henderson
(continued)

MRL_CHK	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
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)	

QC Ref #487219 Iron, 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	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 (%)
AASPKSMP	Spiked sample	Lab # 29	05270343	MGL		(0-0)	
AASPKSMP	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)	

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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)

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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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 #487591 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06030037	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	882	888	MGL		(0-10)	0.7
LCS1	Total Dissolved Solid (TDS)	175	172	MGL	98.3	(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	13	MGL	130.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	98.286	98.571	MGL	0.3	(0-20)	

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			

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MRL_CHK	Analyte	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)

QC Ref #488229 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06020044	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0103	MGL	103.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.99	MGL	99.0	(70-130)	

QC Ref #488241 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06030037	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0099	MGL	99.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(70-130)	

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QC Ref #488356

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06120011	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.4	UGL	97.6	(85-115)	
LCS2	Perchlorate	25.0	24.4	UGL	97.6	(85-115)	
LCS3	Perchlorate	4	4.63	UGL	115.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.6	UGL	90.4	(80-120)	
MSD	Perchlorate	25.0	22.8	UGL	91.2	(80-120)	
RPD_LCS	Perchlorate	97.600	97.600	UGL	0.0	(0-15)	
RPD_MS	Perchlorate	90.400	91.200	UGL	1.0	(0-15)	

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.