



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
Feb 24 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



01114CA

Report#: 264822

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 9 page[s].



BUILDING A BETTER WORLD

February 25, 2009

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

Subject: Case Narrative report 264822

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 5, 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:

RPD on the TDS duplicate was not within limits, however results matched historical.

Ion chromatography analyses do not show actual analysis time for samples with holding times of >72 hours. Instead they show the time of first injection on a batch or 00:00.

Sincerely,

A handwritten signature in cursive script that reads "Andrew Eaton".

Andrew Eaton, PhD
Project Manager



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 KERRMCGE-MP Q Quarterly Period
Project Code CLO4

PO# / Job#
Blanket PO

SO# 46070 6529 RS

Sampler: Please Return this Paper with your samples

Created by GJY Ship Sample Kits to
Order Date 12/09/08 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

ATTN: Susan Crowley
PHONE: 702-651-2234

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

Quote#

GJY

of Samples Tests

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

UN#

#	CR, MN, FE, B	CL, TDS, NO3, NO2-N, N-INOR	NH3, NH3-DIST	UN#	Important Comments
1	1 250ml poly acid rinsed + 1ml HNO3 (18%)	1 500 ml poly, no preservative	1 250 ml poly+ 1 ml H2SO4 (50%)	UN2031	This is a quarterly sample for the "M-10 by the NPDES permit NV0023060
1				UN2796	NO BLUE ICE NEEDED - CLIENT USING WET ICE TO COOL BOTTLES
1					CLIENT CODE CHANGED 7/25/03
1					changed 12/8/05- dropped Cu, Mo, F as per new permit and changed metals to all ICP

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

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



J98118884232623

Ship Date: 04FEB09
ActWgt: 13.0 LB
CAD: 2274147/INET9011
Account#: S *****

Delivery Address Bar Code



Ref # MSO #143554
Invoice #
PO #
Dept #

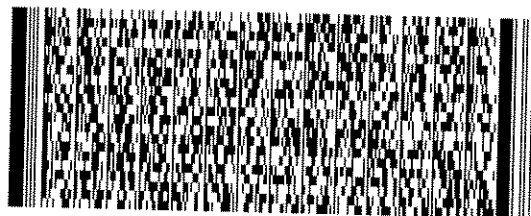
SHIP TO: (626) 568-6400 BILL SENDER

ATTN: SAMPLE RECEIVING
MONTGOMERY WATSON LABS
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

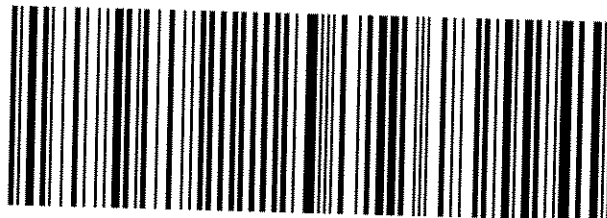
TRK# 7963 1458 6466
0201

THU - 05FEB 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.
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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: 143554

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 Federal Express		Date 2/04/09	FROM NO. STATION: STATE Henderson, NV 890	
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400			Authorization M. Skromyda	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC CODE NO. WCN IS 1321.10181		
N/A/R	CUSTOMER PO OR REQ'N NO.	SHIPPED FROM Henderson, NV		If 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.
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY	
	Ice chest with water samples Monitoring Wells quarterly One ice chest @ 48 lbs One ice chest @ 53 lbs One ice chest @ 13 lbs 1 Cooler NPDES for UPGRADIENT Well (M-10) 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
TRUCK SHIPMENTS		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.		
PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT	
		0		
3	TOTAL GROSS WEIGHT 114	TOTAL TARE WEIGHT 0	114	
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 258859, Oklahoma City, OK 73126-8859	PER Carron Williams	AGENT	PER
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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#: 264822
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **02/05/09**. 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
2902050396	M-10	B NH3	Water CR NO2-N	04-feb-2009 11:12:00 MN N-INOR TDS

Test Acronym Description

Test Acronym	Description
B	Boron, Total, ICAP
CL	Chloride
CR	Chromium, Total, ICAP
FE	Iron, Total, ICAP
MN	Manganese, Total, ICAP
N-INOR	Total Inorganic Nitrogen-Calc
NH3	Ammonia Nitrogen
NH3-DIST	NPDES Ammonia Distillation
NO2-N	Nitrite, Nitrogen by IC
NO3	Nitrate as Nitrogen by IC
TDS	Total Dissolved Solid (TDS)



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Report
Comments
#264822

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

(TDS) The RPD for duplicate sample 2902050325 was 12% which is above the limit of 10%. Data acceptable for compliance since good precision is obtained from other duplicate set and all other QCs are passing.



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Laboratory
Hits Report
#264822

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

Samples Received
05-feb-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902050396	M-10				
02/11/09		Boron, Total, ICAP	3.4		mg/l	0.10
02/05/09		Chloride	320	250	mg/l	10
02/11/09		Chromium, Total, ICAP	0.97		mg/l	0.020
02/11/09		Iron, Total, ICAP	5.4	0.3	mg/l	0.040
02/12/09		Manganese, Total, ICAP	0.23		mg/l	0.0040
02/11/09		Total Dissolved Solid (TDS)	3180	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#264822

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

Samples Received
02/05/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-10 (2902050396)				Sampled on 02/04/09 11:12				
	02/11/09 00:16	471956	(ML/EPA 200.7)	Boron, Total, ICAP	3.4	mg/l	0.10	2
	02/05/09 16:38	471251	(ML/EPA 300.0)	Chloride	320	mg/l	10	10
	02/11/09 00:16	471926	(ML/EPA 200.7)	Chromium, Total, ICAP	0.97	mg/l	0.020	2
	02/11/09 00:16	471932	(ML/EPA 200.7)	Iron, Total, ICAP	5.4	mg/l	0.040	2
	02/12/09 21:26	472624	(ML/EPA 200.7)	Manganese, Total, ICAP	0.23	mg/l	0.0040	2
	02/23/09 21:10		(EPA 300.0)	Total Inorganic Nitrogen-Calc	ND	mg/l	0.20	1
	02/09/09 14:22	471750	(EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
	02/05/09 16:38	471252	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	1.0	10
	02/05/09 16:38	471253	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	1.0	10
02/11/09	02/11/09 13:30	472951	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3180	mg/l	10	1



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Laboratory
QC Summary
#264822

Tronox LLC - Henderson

QC Ref #471251 - Chloride		Analysis Date: 02/05/2009
2902050396	M-10	Analyzed by: sxk
QC Ref #471252 - Nitrite, Nitrogen by IC		Analysis Date: 02/05/2009
2902050396	M-10	Analyzed by: sxk
QC Ref #471253 - Nitrate as Nitrogen by IC		Analysis Date: 02/05/2009
2902050396	M-10	Analyzed by: sxk
QC Ref #471750 - Ammonia Nitrogen		Analysis Date: 02/09/2009
2902050396	M-10	Analyzed by: njr
QC Ref #471926 - Chromium, Total, ICAP		Analysis Date: 02/11/2009
2902050396	M-10	Analyzed by: csk
QC Ref #471932 - Iron, Total, ICAP		Analysis Date: 02/11/2009
2902050396	M-10	Analyzed by: csk
QC Ref #471956 - Boron, Total, ICAP		Analysis Date: 02/11/2009
2902050396	M-10	Analyzed by: csk
QC Ref #472624 - Manganese, Total, ICAP		Analysis Date: 02/12/2009
2902050396	M-10	Analyzed by: csk



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Laboratory
QC Summary
#264822

Tronox LLC - Henderson
(continued)

QC Ref #472951 - Total Dissolved Solid (TDS)

Analysis Date: 02/11/2009

2902050396

M-10

Analyzed by: wjp



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Laboratory
 QC Report
 #264822

Tronox LLC - Henderson

QC Ref #471251 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02050158	MGL		(0-0)	
LCS1	Chloride	25	25.7	MGL	102.8	(90-110)	
LCS2	Chloride	25	25.7	MGL	102.8	(90-110)	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.450	MGL	90.0	(50-150)	
MS	Chloride	12.5	12.8	MGL	102.4	(74-138)	
MSD	Chloride	12.5	12.6	MGL	100.8	(74-138)	
RPD_LCS	Chloride	102.800	102.800	MGL	0.0	(0-20)	
RPD_MS	Chloride	102.400	100.800	MGL	1.6	(0-20)	

QC Ref #471252 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0902050158	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.09	MGL	109.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.03	MGL	103.0	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0517	MGL	103.4	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.700	MGL	<u>140.0</u>	(69-123)	
MSD	Nitrite, Nitrogen by IC	0.500	0.706	MGL	<u>141.2</u>	(69-123)	
RPD_LCS	Nitrite, Nitrogen by IC	109.000	103.000	MGL	5.7	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	140.000	141.200	MGL	0.9	(0-20)	

QC Ref #471253 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02050158	MGL	0.0	(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.46	MGL	98.4	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.47	MGL	98.8	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0518	MGL	103.6	(50-150)	

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
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Laboratory
QC Report
#264822

Tronox LLC - Henderson
(continued)

MS	Nitrate as Nitrogen by IC	1.25	1.27	MGL	101.6	(87-121)
MSD	Nitrate as Nitrogen by IC	1.25	1.25	MGL	100.0	(87-121)
RPD_LCS	Nitrate as Nitrogen by IC	98.400	98.800	MGL	0.4	(0-20)
RPD_MS	Nitrate as Nitrogen by IC	101.600	100.000	MGL	1.6	(0-20)

QC Ref #471750

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	02050470	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.05	MGL	105.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MRL_CHK	Ammonia Nitrogen	0.05	0.051	MGL	102.0	(50-150)	
MS	Ammonia Nitrogen	1.00	0.975	MGL	97.5	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.981	MGL	98.1	(90-110)	
MS_2ND	Ammonia Nitrogen	1	0.962	MGL	96.2	(90-110)	
RPD_LCS	Ammonia Nitrogen	105.000	104.000	MGL	1.0	(0-20)	
RPD_MS	Ammonia Nitrogen	97.500	98.100	MGL	0.6	(0-20)	

QC Ref #471926

Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.06	MGL	106.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0105	MGL	105.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.990	MGL	99.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.978	MGL	97.8	(70-130)	

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Laboratory
QC Report
#264822

Tronox LLC - Henderson
(continued)

QC Ref #471932 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	5.05	MGL	101.0	(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	0.0225	MGL	112.5	(50-150)	
MS	Iron, Total, ICAP	5.0	5.09	MGL	101.8	(70-130)	
MS2	Iron, Total, ICAP	5.0	4.78	MGL	95.6	(70-130)	
MSD	Iron, Total, ICAP	5.0	5.02	MGL	100.4	(70-130)	
MSD2	Iron, Total, ICAP	5.0	4.77	MGL	95.4	(70-130)	
RPD_LCS	Iron, Total, ICAP	101.000	103.200	MGL	2.2	(0-20)	
RPD_MS	Iron, Total, ICAP	101.800	100.400	MGL	1.4	(0-20)	

QC Ref #471956 Boron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Boron, Total, ICAP	0.5	0.502	MGL	100.4	(85-115)	
LCS2	Boron, Total, ICAP	0.5	0.516	MGL	103.2	(85-115)	
MBLK	Boron, Total, ICAP	ND	<0.050	MGL			
MRL_CHK	Boron, Total, ICAP	0.050	0.0607	MGL	121.4	(50-150)	
MS	Boron, Total, ICAP	0.5	0.510	MGL	102.0	(70-130)	
MS2	Boron, Total, ICAP	0.5	0.578	MGL	115.6	(70-130)	
MSD	Boron, Total, ICAP	0.5	0.515	MGL	103.0	(70-130)	
MSD2	Boron, Total, ICAP	0.5	0.583	MGL	116.6	(70-130)	
RPD_LCS	Boron, Total, ICAP	100.400	103.200	MGL	2.8	(0-20)	
RPD_MS	Boron, Total, ICAP	102.000	103.000	MGL	1.0	(0-20)	

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Laboratory
QC Report
#264822

Tronox LLC - Henderson
(continued)

QC Ref #472624 Manganese, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Manganese, Total, ICAP	0.50	0.489	MGL	97.8	(85-115)	
LCS2	Manganese, Total, ICAP	0.50	0.501	MGL	100.2	(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	0.498	MGL	99.6	(70-130)	
MSD	Manganese, Total, ICAP	0.50	0.502	MGL	100.4	(70-130)	

QC Ref #472951 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02050325	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	352	310	MGL		(0-10)	<u>12.7</u>
LCS1	Total Dissolved Solid (TDS)	175	164	MGL	93.7	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	734	MGL	104.9	(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)	93.714	104.857	MGL	11.2	(0-20)	

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