



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3829
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

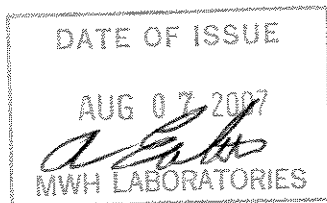
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager



Report#: 211354
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 11 page[s].



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750 Royal Oaks Drive, Suite 100
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August 7, 2007

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

Subject: Case Narrative report 211354

Enclosed is MWH Laboratories Report 211354

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on July 24, 2007 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

Sincerely,

Andrew Eaton, PhD
Project Manager



CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES



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: *211354*

SAMPLE TEMP, RECEIPT AT LAB: *211354*

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

KERRMCGEE-MP
Collection Wells Fields - Weekly - SO #12373
Tronox LLC - Henderson Plant
PO Box 55
Henderson, NV 89009

PROJECT JOB # / P.O.#

(check for yes)

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CLG	IDS	CR	SAMPLER COMMENTS
0530	7/23/07		ART-1	RSW	X		X	X		SBO - 12373 & 18787
0530	7/23/07		ART-2	RSW	X		X	X		
0530	7/23/07		ART-3	RSW	X		X	X		
0530	7/23/07		ART-4	RSW	X		X	X		
0530	7/23/07		ART-5	RSW	X		X	X		
0530	7/23/07		ART-6	RSW	X		X	X		
0530	7/23/07		ART-7	RSW	X		X	X		
0530	7/23/07		ART-8	RSW	X		X	X		
0600	7/23/07		PC-99R2/R3	RSW	X		X	X		
0600	7/23/07		PC-115R	RSW	X		X	X		
0600	7/23/07		PC-116R	RSW	X		X	X		
0600	7/23/07		Seep Surface Flow	RSW	X		X	X		

* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated Finished Water

FW = Other Finished Water

Reported by Weight:

RGW = Raw Ground Water

RSW = Raw Surface Water

CWW = Chlorinated Waste Water

WW = Other Waste Water

SW = Storm Water

NO SAMPLES

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY: *Michele Brown*

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY: *S. Jimena*

DATE: 7/23/2007

TIME: 12:00pm

MW

Veolia Water for Tronox LLC - Henderson Plant



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 W Weekly
 Project Code CLO4 Week 1
 PO# / Job# GWREMEDICATION
 Blanket PO

SO# 36892 12373 RS

Sampler: Please Return this Paper with your samples

0

Created by
 Order Date 06/18/07
 Date Needed by Client
 Date Samples to Arrive at MWL
 SHIP LOCATION

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
 PO BOX 268859
 Oklahoma City, OK 73126-8859

ATTN: Susan Crowley
 PHONE: 702-651-2234

ATTN: Susan Crowley
 PHONE: 702-651-2234

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

Quote#

of Samples Tests

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

UN#

Important Comments

30 CLO4, TDS,

1 250 ml poly /no preservative

Per Ed Krish 7-4-06 all samples will be TDS in lieu of EC

see comments section

SHEET OF LABELS WITH WELL-IDS

PC-117, PC-118, PC-119,
 PC-120, and PC-121

PC-116R

PC-99R2

PC-99R3

PC-115R

ART-1

ART-2

ART-3

ART-4

ART-5

ART-6

ART-7

ART-8

Seep Surface Flow

SF-1"

Do NOT prelabel bottles with site, but provide pre-printed labels for client to stick on

EXTRA BOTTLES INCLUDED

client code changed 7/25/03

Testcode updated 3-16-06

standing order changed 6-14-06

login note added 7-6-06

TDS



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#: 211354
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **07/24/07**. 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
2707240535	ART-1	CLO4 TDS	Water	23-jul-2007 05:30:00
2707240536	ART-2	CLO4 TDS	Water	23-jul-2007 05:30:00
2707240537	ART-3	CLO4 TDS	Water	23-jul-2007 05:30:00
2707240538	ART-4	CLO4 TDS	Water	23-jul-2007 05:30:00
2707240539	ART-6	CLO4 TDS	Water	23-jul-2007 05:30:00
2707240540	ART-7	CLO4 TDS	Water	23-jul-2007 05:30:00
2707240541	ART-8	CLO4 TDS	Water	23-jul-2007 05:30:00
2707240542	PC-99R2/R3	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240543	PC-115R	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240544	PC-116R	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240545	SF-1	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240546	PC-117	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240547	PC-118	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240548	PC-119	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240549	PC-120	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240550	PC-121	CLO4 TDS	Water	23-jul-2007 06:00:00
2707240551	PC-133	CLO4 TDS	Water	23-jul-2007 06:00:00

Tronox LLC - Henderson
PO Box 55
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Attn: Susan Crowley
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Customer Code: KERRMCGEE-MP
PO#: Susan Crowley PO
Group#: 211354
Project#: CLO4
Proj Mgr: Andrew Eaton
Phone: (626) 386-1125

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2707240552	ART-9	CLO4 TDS	Water	23-jul-2007 05:30:00

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
TDS	Total Dissolved Solid (TDS)



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Report
Comments
#211354

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
#211354

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

Samples Received
24-jul-2007 16:28:25

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2707240535	ART-1				
07/25/07	Perchlorate		98		ug/l	20
07/26/07	Total Dissolved Solid (TDS)		6920	500	mg/l	10
	2707240536	ART-2				
07/25/07	Perchlorate		87600		ug/l	20000
07/26/07	Total Dissolved Solid (TDS)		9820	500	mg/l	10
	2707240537	ART-3				
07/25/07	Perchlorate		295000		ug/l	40000
07/26/07	Total Dissolved Solid (TDS)		8900	500	mg/l	10
	2707240538	ART-4				
07/25/07	Perchlorate		316000		ug/l	40000
07/26/07	Total Dissolved Solid (TDS)		6740	500	mg/l	10
	2707240539	ART-6				
07/26/07	Perchlorate		65600		ug/l	20000
07/26/07	Total Dissolved Solid (TDS)		7680	500	mg/l	10
	2707240540	ART-7				
07/26/07	Perchlorate		133000		ug/l	20000
07/26/07	Total Dissolved Solid (TDS)		10400	500	mg/l	10
	2707240541	ART-8				

SUMMARY OF POSITIVE DATA ONLY.



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Samples Received
24-jul-2007 16:28:25

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2707240541	ART-8				
07/26/07	Perchlorate		263000		ug/l	40000
07/26/07	Total Dissolved Solid (TDS)		9900	500	mg/l	10
	2707240542	PC-99R2/R3				
07/26/07	Perchlorate		11300		ug/l	2000
07/26/07	Total Dissolved Solid (TDS)		4080	500	mg/l	10
	2707240543	PC-115R				
07/26/07	Perchlorate		11300		ug/l	2000
07/26/07	Total Dissolved Solid (TDS)		4240	500	mg/l	10
	2707240544	PC-116R				
07/26/07	Perchlorate		9270		ug/l	2000
07/26/07	Total Dissolved Solid (TDS)		4310	500	mg/l	10
	2707240545	SF-1				
07/26/07	Perchlorate		11		ug/l	10
07/26/07	Total Dissolved Solid (TDS)		6450	500	mg/l	10
	2707240546	PC-117				
07/26/07	Perchlorate		3100		ug/l	400
07/26/07	Total Dissolved Solid (TDS)		3450	500	mg/l	10
	2707240547	PC-118				

SUMMARY OF POSITIVE DATA ONLY.



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#211354

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Susan Crowley
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Samples Received
24-jul-2007 16:28:25

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2707240547	PC-118				
07/26/07	Perchlorate		9370		ug/l	800
07/26/07	Total Dissolved Solid (TDS)		4270	500	mg/l	10
	2707240548	PC-119				
07/26/07	Perchlorate		7150		ug/l	400
07/26/07	Total Dissolved Solid (TDS)		4070	500	mg/l	10
	2707240549	PC-120				
07/26/07	Perchlorate		1550		ug/l	400
07/26/07	Total Dissolved Solid (TDS)		2810	500	mg/l	10
	2707240550	PC-121				
07/26/07	Perchlorate		1270		ug/l	400
07/26/07	Total Dissolved Solid (TDS)		2660	500	mg/l	10
	2707240551	PC-133				
07/26/07	Perchlorate		3950		ug/l	400
07/26/07	Total Dissolved Solid (TDS)		3470	500	mg/l	10
	2707240552	ART-9				
07/26/07	Perchlorate		333000		ug/l	20000
07/26/07	Total Dissolved Solid (TDS)		8350	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Samples Received
07/24/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
ART-1 (2707240535) Sampled on 07/23/07 05:30								
	07/25/07 11:18	378278	(EPA 314)	Perchlorate	98	ug/l	20	5
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6920	mg/l	10	1
ART-2 (2707240536) Sampled on 07/23/07 05:30								
	07/25/07 11:18	378278	(EPA 314)	Perchlorate	87600	ug/l	20000	5000
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9820	mg/l	10	1
ART-3 (2707240537) Sampled on 07/23/07 05:30								
	07/25/07 11:18	378278	(EPA 314)	Perchlorate	295000	ug/l	40000	10000
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8900	mg/l	10	1
ART-4 (2707240538) Sampled on 07/23/07 05:30								
	07/25/07 11:18	378278	(EPA 314)	Perchlorate	316000	ug/l	40000	10000
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6740	mg/l	10	1
ART-6 (2707240539) Sampled on 07/23/07 05:30								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	65600	ug/l	20000	5000
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7680	mg/l	10	1
ART-7 (2707240540) Sampled on 07/23/07 05:30								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	133000	ug/l	20000	5000
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	10400	mg/l	10	1
ART-8 (2707240541) Sampled on 07/23/07 05:30								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	263000	ug/l	40000	10000
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9900	mg/l	10	1



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Data Report
#211354

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-99R2/R3 (2707240542) Sampled on 07/23/07 06:00								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	11300	ug/l	2000	500
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4080	mg/l	10	1
PC-115R (2707240543) Sampled on 07/23/07 06:00								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	11300	ug/l	2000	500
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4240	mg/l	10	1
PC-116R (2707240544) Sampled on 07/23/07 06:00								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	9270	ug/l	2000	500
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4310	mg/l	10	1
SF-1 (2707240545) Sampled on 07/23/07 06:00								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	11	ug/l	10	5
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6450	mg/l	10	1
PC-117 (2707240546) Sampled on 07/23/07 06:00								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	3100	ug/l	400	100
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3450	mg/l	10	1
PC-118 (2707240547) Sampled on 07/23/07 06:00								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	9370	ug/l	800	200
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4270	mg/l	10	1
PC-119 (2707240548) Sampled on 07/23/07 06:00								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	7150	ug/l	400	100
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4070	mg/l	10	1
PC-120 (2707240549) Sampled on 07/23/07 06:00								
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	1550	ug/l	400	100
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2810	mg/l	10	1



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#211354

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-121 (2707240550)				Sampled on 07/23/07 06:00				
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	1270	ug/l	400	100
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2660	mg/l	10	1
PC-133 (2707240551)				Sampled on 07/23/07 06:00				
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	3950	ug/l	400	100
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3470	mg/l	10	1
ART-9 (2707240552)				Sampled on 07/23/07 05:30				
	07/26/07 01:51	378282	(EPA 314)	Perchlorate	333000	ug/l	20000	5000
07/26/07	07/26/07 11:00	379044	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8350	mg/l	10	1



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Laboratory
QC Summary
#211354

Tronox LLC - Henderson

QC Ref #378278 - Perchlorate

Analysis Date: 07/25/2007

2707240535	ART-1	Analyzed by: clv
2707240536	ART-2	Analyzed by: clv
2707240537	ART-3	Analyzed by: clv
2707240538	ART-4	Analyzed by: clv

QC Ref #378282 - Perchlorate

Analysis Date: 07/26/2007

2707240539	ART-6	Analyzed by: clv
2707240540	ART-7	Analyzed by: clv
2707240541	ART-8	Analyzed by: clv
2707240542	PC-99R2/R3	Analyzed by: clv
2707240543	PC-115R	Analyzed by: clv
2707240544	PC-116R	Analyzed by: clv
2707240545	SF-1	Analyzed by: clv
2707240546	PC-117	Analyzed by: clv
2707240547	PC-118	Analyzed by: clv
2707240548	PC-119	Analyzed by: clv
2707240549	PC-120	Analyzed by: clv
2707240550	PC-121	Analyzed by: clv
2707240551	PC-133	Analyzed by: clv
2707240552	ART-9	Analyzed by: clv

QC Ref #379044 - Total Dissolved Solid (TDS)

Analysis Date: 07/26/2007

2707240535	ART-1	Analyzed by: yvette
2707240536	ART-2	Analyzed by: yvette
2707240537	ART-3	Analyzed by: yvette
2707240538	ART-4	Analyzed by: yvette
2707240539	ART-6	Analyzed by: yvette
2707240540	ART-7	Analyzed by: yvette
2707240541	ART-8	Analyzed by: yvette
2707240542	PC-99R2/R3	Analyzed by: yvette
2707240543	PC-115R	Analyzed by: yvette
2707240544	PC-116R	Analyzed by: yvette
2707240545	SF-1	Analyzed by: yvette
2707240546	PC-117	Analyzed by: yvette
2707240547	PC-118	Analyzed by: yvette
2707240548	PC-119	Analyzed by: yvette
2707240549	PC-120	Analyzed by: yvette
2707240550	PC-121	Analyzed by: yvette
2707240551	PC-133	Analyzed by: yvette



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Laboratory
QC Summary
#211354

Tronox LLC - Henderson
(continued)

2707240552

ART-9

Analyzed by: yvette



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#211354

Tronox LLC - Henderson

QC Ref #378278 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	07240272	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.2	UGL	96.8	(85-115)	
LCS2	Perchlorate	25.0	24.7	UGL	98.8	(85-115)	
LCS3	Perchlorate	4	3.69	UGL	92.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.2	UGL	88.8	(80-120)	
MSD	Perchlorate	25.0	22.7	UGL	90.8	(80-120)	
RPD_LCS	Perchlorate	96.800	98.800	UGL	2.0	(0-15)	
RPD_MS	Perchlorate	88.800	90.800	UGL	1.0	(0-15)	

QC Ref #378282 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	07240320	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.9	UGL	99.6	(85-115)	
LCS2	Perchlorate	25.0	24.5	UGL	98.0	(85-115)	
LCS3	Perchlorate	4	4.20	UGL	105.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.2	UGL	96.8	(80-120)	
MSD	Perchlorate	25.0	21.6	UGL	86.4	(80-120)	
RPD_LCS	Perchlorate	99.600	98.000	UGL	1.6	(0-15)	
RPD_MS	Perchlorate	96.800	86.400	UGL	0.9	(0-15)	

QC Ref #379044 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	07240535	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	6920	6940	MGL		(0-10)	0.3
LCS1	Total Dissolved Solid (TDS)	175	178	MGL	101.7	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	708	MGL	101.1	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	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.



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Laboratory
QC Report
#211354

Tronox LLC - Henderson
(continued)

MRL_CHK	Total Dissolved Solid (TDS)	10.0	13	MGL	130.0	(50-150)
RPD_LCS	Total Dissolved Solid (TDS)	101.714	101.143	MGL	0.6	(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.