



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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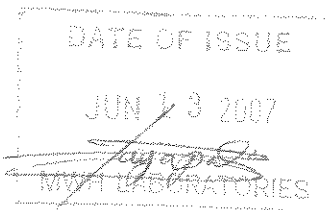
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager

Report#204584R replaces the original Report.



Report#: 204584R
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 15 page[s].

204584



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

MWLABS USE ONLY:

250 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629
 (626) 386-1100 (800) 566-5227

SAMPLES CHECKED/LOGGED IN BY: PC
 LOGIN COMMENTS:
 SAMPLE TEMP, RECEIPT AT LAB: ice
 BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: KERRMCGEE-MP PROJECT JOB # / P.O.#: Weekly Permit Compliance Samples - SO #6532 & #6534

SAMPLER SIGNATURE: Michele Brown Tronox, LLC - Henderson Plant
 PO Box 85
 Henderson, NV 89009

SUSAN CROWLEY (702) 651-2234

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)	SAMPLER COMMENTS
6:30 AM	5/14/2007		EFFLUENT	RSW	X		CL04 RAD CWB (2 Bts) NH3 NH3-DIST PH NO3-N, NO3-N, NH4-N, NH4-TSS CL03 FE, CR T-P, TRN Color FAZ28EDD/RAZ286DD (2 Bts) CR NO2-N, NO3, N-NOR	Revised SO #6534
7:00	5/14/2007		INFLUENT	RSW	X		CL04 RAD CWB (2 Bts) NH3 NH3-DIST PH NO3-N, NO3-N, NH4-N, NH4-TSS CL03 FE, CR T-P, TRN Color FAZ28EDD/RAZ286DD (2 Bts) CR NO2-N, NO3, N-NOR	Revised SO #6532

* MATRIX TYPES: Reported by Volume:
 CFW = Chloraminated Finished Water
 FW = Other Finished Water

Reported by Weight:
 SO = Soil
 SL = Sludge

RGW = Raw Ground Water
 RSW = Raw Surface Water

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

RELINQUISHED BY: Michele Brown SIGNATURE: Michele Brown PRINT NAME: Michele Brown

RECEIVED BY: Fidel Carval COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

DATE: 5/14/2007 TIME: 12:00 PM

RECEIVED BY: [Signature] DATE: 5-15 10:00



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#
Blanket PO

W Weekly
Week 1

SO# 35563 6534 RS

Sampler: Please Return this Paper with your samples

Created by HV
Order Date 04/16/07
Date Needed by Client
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
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# HV

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
1	CLO4	1 125ml poly /no preservative		This is the weekly order for the
1	@RADCW	2- 1 125 ml poly / no pres & 1 x 500 ml poly + 2 ml HNO3 (18%)	UN 2031	EFFLUENT RA226/228 to be subbed to a NV certified lab
1	NH3, NH3-DIST	1 250 ml poly+ 1 ml H2SO4 (50%)	UN 2796	PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER - also use a LARGE COOLER
1	PH, NO2-N, NO3, N-INOR, TSS	1 500 ml poly/ no preservative SHORT HOLDING TIME!!!!		login - use profile #KERREFF +CRVI-LOW
1	FE, CR	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN2031	for this site
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	CLIENT CODE CHANGED 7/25/03 Testcode for CRVI changed to IC effective 1/6/04
1	COLOR	1 500ml amber glass / no preservative SHORT HOLDING TIME!!!!		Moved CBOD to separate order as of 10/21/04
1	RA228EDD/RA226EDD	2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE DL'S	UN 2031	updated BO 12-8-05 - deleted some tests and changed Cr from MS to ICP.
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	added clo3 back 2-7-06
1	CRVI-LOW	1125 ml poly/ 1 ml NH4SO4/NH4OH buffer	3077	removed CRVI-LOW to sep BO 2-10-06
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		added CRVI-LOW as of 4/11/07

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

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#: 204584
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **05/15/07**. 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	Matrix	Sample Date
2705150411	EFFLUENT	Water	14-may-2007 06:30:00
	Tests Scheduled		
	@R226EDD @R228EDD @RADCWB	CLO3 CLO4 COLOR	
	CR CRVI-LOW FE	N-INOR NH3 NH3-DIST	
	NO2-N NO3 P	PH T T-P	
	TKN TSS		
2705150413	INFLUENT	Water	14-may-2007 07:00:00
	Tests Scheduled		
	CLO3 CLO4 COLOR	CR CRVI-LOW N-INOR	
	NH3 NH3-DIST NO2-N	NO3 NO3RFA P	
	T T-P TKN		

Test Acronym Description

Test Acronym	Description
@R226EDD	Radium 226 (Sub)
@R228EDD	Radium 228 (Sub)
@RADCWB	Gross Alpha Radiation
CLO3	Chlorate by IC
CLO4	Perchlorate
COLOR	Apparent Color
CR	Chromium, Total, ICAP
CRVI-LOW	Hexavalent chromium(Dissolved)
FE	Iron; 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
NO3RFA	Nitrate + Nitrite as N by RFA
P	Metals sample pH
PH	PH (H3=past HT, not compliant)
T	Metals Turbidity
T-P	Total phosphorus as P
TKN	Kjeldahl Nitrogen

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Proj Mgr: Andrew Eaton
Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
TSS	Total Suspended Solids (TSS)



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Report
Comments
#204584

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.

Client Signature: _____

Group Comments

Report revised to remove duplicate QC for COLOR.
TKN influent is less than ammonia due to signal suppression on TKN. This has been documented in previous analyses.
Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA California cert 04222CA
by Pace Analytical Services, PA. Nevada Cert PA91-2004-77

(QC Ref#: 2705150413)

Test: Kjeldahl Nitrogen (ML/EPA 351.2)

SAMPLE DILUTED 5X AND SPIKED 1PPM AND THE RECOVERY WAS 71%



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Laboratory
Hits Report
#204584

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

Samples Received
15-may-2007 15:23:22

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2705150411	EFFLUENT				
06/01/07		Radium 226	0.390	3	pCi/l	0.15
06/01/07		Radium 226, Minimal Detectable	0.151		pCi/l	
06/01/07		Radium 226, Two Sigma Error	0.289		pCi/l	
05/24/07		Radium 228	<0.681	5	pCi/l	0.68
05/24/07		Radium 228, Minimum Detectable	0.681		pCi/l	
05/24/07		Radium 228, Two Sigma Error	0.314		pCi/l	
05/22/07		Alpha, Gross	19	15	pCi/l	7.4
05/22/07		Alpha, Min Detectable Activity	7.42		pCi/l	
05/22/07		Alpha, Two Sigma Error	8.7		pCi/l	
05/22/07		Gross Alpha + adjusted error	26.3		pCi/l	
05/21/07		Ammonia Nitrogen	0.34		mg/l	0.050
05/15/07		Apparent Color	10	15	ACU	3.0
05/18/07		Iron, Total, ICAP	2.1	0.3	mg/l	0.040
05/23/07		Kjeldahl Nitrogen	2.2		mg/l	0.20
05/16/07		Metals digestion performed.	Y		Yes/No	
05/16/07		PH (H3=past HT, not compliant)	7.4	6.5-8.5	Units	0.010
05/22/07		Total Inorganic Nitrogen-Calc	0.34		mg/l	0.20
05/19/07		Total Suspended Solids (TSS)	41		mg/l	10
05/17/07		Total phosphorus as P	0.66		mg/l	0.020
	2705150413	INFLUENT				
05/21/07		Ammonia Nitrogen	4.6		mg/l	0.50
05/15/07		Apparent Color	10	15	ACU	3.0
05/19/07		Chlorate by IC	452000		ug/l	50000
05/15/07		Chromium, Total, ICAP	0.045		mg/l	0.020
05/15/07		Hexavalent chromium(Dissolved)	6.2		ug/l	0.10
05/23/07		Kjeldahl Nitrogen	1.4		mg/l	1.0
05/29/07		Nitrate + Nitrite as N by RFA	16	10	mg/l	2.5
05/15/07		Nitrate as Nitrogen by IC	16	10	mg/l	5.0

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#204584

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

Samples Received
15-may-2007 15:23:22

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2705150413	INFLUENT				
05/21/07	Perchlorate		254000		ug/l	20000
05/22/07	Total Inorganic Nitrogen-Calc		21		mg/l	10



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Laboratory
Data Report
#204584

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

Samples Received
05/15/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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EFFLUENT (2705150411) Sampled on 05/14/07 06:30

05/19/07 00:00	367714	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
05/21/07 00:00	368084	(EPA 314)	Perchlorate	ND	ug/l	10	5
05/15/07 00:00	366775	(ML/SM2120B)	Apparent Color	10	ACU	3.0	1
05/18/07 01:56	367352	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
05/15/07 15:45	366824	(EPA 218.6)	Hexavalent chromium(Dissolved)	ND	ug/l	0.10	1
05/16/07 14:25		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
05/18/07 01:56	367359	(ML/EPA 200.7)	Iron, Total, ICAP	2.1	mg/l	0.040	2
05/22/07 10:38	368051	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	0.34	mg/l	0.20	50
05/21/07 00:00	367762	(ML/EPA 350.1)	Ammonia Nitrogen	0.34	mg/l	0.050	1
05/15/07 15:53	367083	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
05/15/07 15:53	367086	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
05/16/07 00:00	367005	(SM4500-HB)	PH (H3=past HT, not compliant)	7.4	Units	0.010	1
05/17/07 00:00	367276	(S4500PE/ 365.1)	Total phosphorus as P	0.66	mg/l	0.020	1
05/23/07 00:00	368438	(ML/EPA 351.2)	Kjeldahl Nitrogen	2.2	mg/l	0.20	1
05/19/07 20:00	367719	(ML/SM2540D)	Total Suspended Solids (TSS)	41	mg/l	10	1

Gross Alpha Radiation

05/22/07 00:00	368905	(ML/EPA 900.0)	Alpha, Gross	19	pCi/l	7.4	1
05/22/07 00:00	368905	(ML/EPA 900.0)	Gross Alpha + adjusted error	26.3	pCi/l	0	1
05/22/07 00:00	368905	(ML/EPA 900.0)	Alpha, Two Sigma Error	8.7	pCi/l	0	1
05/22/07 00:00	368905	(ML/EPA 900.0)	Alpha, Min Detectable Activity	7.42	pCi/l	0	1

Radium 226 (Sub)

06/01/07 00:00		(EPA 903.1)	Radium 226	0.390	pCi/l	0.15	1
06/01/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.289	pCi/l	0	1
06/01/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.151	pCi/l	0	1

Radium 228 (Sub)

05/24/07 00:00		(EPA 904.0)	Radium 228	<0.681	pCi/l	0.68	1
05/24/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.314	pCi/l	0	1
05/24/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.681	pCi/l	0	1



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Laboratory
 Data Report
 #204584

Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2705150413)				Sampled on 05/14/07 07:00				
	05/19/07 00:00	367714	(ML/EPA 300.0)	Chlorate by IC	452000	ug/l	50000	5000
	05/21/07 00:00	368084	(EPA 314)	Perchlorate	254000	ug/l	20000	5000
	05/15/07 00:00	366777	(ML/SM2120B)	Apparent Color	10	ACU	3.0	1
	05/15/07 22:04	366813	(ML/EPA 200.7)	Chromium, Total, ICAP	0.045	mg/l	0.020	2
	05/15/07 15:53	366824	(EPA 218.6)	Hexavalent chromium(Dissolved)	6.2	ug/l	0.10	1
	05/22/07 10:38	368051	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	21	mg/l	10	50
	05/21/07 00:00	367762	(ML/EPA 350.1)	Ammonia Nitrogen	4.6	mg/l	0.50	10
	05/15/07 16:07	367083	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	05/15/07 16:07	367086	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	16	mg/l	5.0	50
	05/29/07 12:03	369460	(ML/EPA 353.2)	Nitrate + Nitrite as N by RPA	16	mg/l	2.5	25
	05/17/07 00:00	367276	(S4500PE/ 365.1)	Total phosphorus as P	ND	mg/l	0.020	1
	05/23/07 00:00	368438	(ML/EPA 351.2)	Kjeldahl Nitrogen	1.4	mg/l	1.0	5



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Laboratory
QC Summary
#204584

Tronox LLC - Henderson

QC Ref #366775 - Apparent Color	Analysis Date: 05/15/2007
2705150411 EFFLUENT	Analyzed by: sar
QC Ref #366777 - Apparent Color	Analysis Date: 05/15/2007
2705150413 INFLUENT	Analyzed by: sar
QC Ref #366813 - Chromium, Total, ICAP	Analysis Date: 05/15/2007
2705150413 INFLUENT	Analyzed by: wbh
QC Ref #366824 - Hexavalent chromium(Dissolved)	Analysis Date: 05/15/2007
2705150411 EFFLUENT	Analyzed by: tlh
2705150413 INFLUENT	Analyzed by: tlh
QC Ref #367005 - PH (H3=past HT, not compliant)	Analysis Date: 05/16/2007
2705150411 EFFLUENT	Analyzed by: dtn
QC Ref #367083 - Nitrite, Nitrogen by IC	Analysis Date: 05/15/2007
2705150411 EFFLUENT	Analyzed by: jkz
2705150413 INFLUENT	Analyzed by: jkz
QC Ref #367086 - Nitrate as Nitrogen by IC	Analysis Date: 05/15/2007
2705150411 EFFLUENT	Analyzed by: jkz
2705150413 INFLUENT	Analyzed by: jkz
QC Ref #367276 - Total phosphorus as P	Analysis Date: 05/17/2007
2705150411 EFFLUENT	Analyzed by: njr
2705150413 INFLUENT	Analyzed by: njr



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Laboratory
QC Summary
#204584

Tronox LLC - Henderson
(continued)

QC Ref #367352 - Chromium, Total, ICAP	Analysis Date: 05/18/2007
2705150411 EFFLUENT	Analyzed by: wbh
QC Ref #367359 - Iron, Total, ICAP	Analysis Date: 05/18/2007
2705150411 EFFLUENT	Analyzed by: wbh
QC Ref #367714 - Chlorate by IC	Analysis Date: 05/19/2007
2705150411 EFFLUENT	Analyzed by: raja
2705150413 INFLUENT	Analyzed by: raja
QC Ref #367719 - Total Suspended Solids (TSS)	Analysis Date: 05/19/2007
2705150411 EFFLUENT	Analyzed by: maria
QC Ref #367762 - Ammonia Nitrogen	Analysis Date: 05/21/2007
2705150411 EFFLUENT	Analyzed by: nina
2705150413 INFLUENT	Analyzed by: nina
QC Ref #368051 - Total Inorganic Nitrogen-Calc	Analysis Date: 05/22/2007
2705150411 EFFLUENT	Analyzed by: dwr
2705150413 INFLUENT	Analyzed by: dwr
QC Ref #368084 - Perchlorate	Analysis Date: 05/21/2007
2705150411 EFFLUENT	Analyzed by: raja
2705150413 INFLUENT	Analyzed by: raja



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Laboratory
QC Summary
#204584

Tronox LLC - Henderson
(continued)

QC Ref #368438 - Kjeldahl Nitrogen

Analysis Date: 05/23/2007

2705150411 EFFLUENT
2705150413 INFLUENT

Analyzed by: njr
Analyzed by: njr

QC Ref #368905 - Gross Alpha Radiation

Analysis Date: 05/22/2007

2705150411 EFFLUENT

Analyzed by: ajc

QC Ref #369460 - Nitrate + Nitrite as N by RFA Analysis Date: 05/29/2007

2705150413 INFLUENT

Analyzed by: maria



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Laboratory
QC Report
#204584

Tronox LLC - Henderson

QC Ref #366775 Apparent Color

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Apparent Color	ND	ND	ACU		(0-20)	

QC Ref #366777 Apparent Color

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Apparent Color	10	10	ACU		(0-20)	0.0

QC Ref #366813 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.987	MGL	98.7	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.990	MGL	99.0	(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	0.992	MGL	99.2	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.99	MGL	99.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.993	MGL	99.3	(70-130)	

QC Ref #366824 Hexavalent chromium(Dissolved)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05100526	UGL		(0-0)	
LCS1	Hexavalent chromium(Dissolved)	2.0	2.01	UGL	100.5	(90-110)	
LCS2	Hexavalent chromium(Dissolved)	2.0	2.02	UGL	101.0	(90-110)	
MBLK	Hexavalent chromium(Dissolved)	ND	<0.10	UGL			
MRL_CHK	Hexavalent chromium(Dissolved)	0.100	0.105	UGL	105.0	(50-150)	
MS	Hexavalent chromium(Dissolved)	2.0	2.13	UGL	106.5	(90-110)	
MSD	Hexavalent chromium(Dissolved)	2.0	2.15	UGL	107.5	(90-110)	
RPD_LCS	Hexavalent chromium(Dissolved)	100.500	101.000	UGL	0.5	(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.



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Tronox LLC - Henderson
(continued)

RPD_MS Hexavalent chromium(Dissolved) 106.500 107.500 UGL 0.9 (0-20)

QC Ref #367005 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05150659	UNIT	0.0	(0-0)	
DUP	PH (H3=past HT, not compliant)	8.20	8.23	UNIT		(0-20)	0.4

QC Ref #367083 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05140402	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.02	MGL	102.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.05	MGL	105.0	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0534	MGL	106.8	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.537	MGL	107.4	(78-135)	
MSD	Nitrite, Nitrogen by IC	0.500	0.540	MGL	108.0	(78-135)	
RPD_LCS	Nitrite, Nitrogen by IC	102.000	105.000	MGL	2.9	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	107.400	108.000	MGL	0.6	(0-20)	

QC Ref #367086 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05140402	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.43	MGL	97.2	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.49	MGL	99.6	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0462	MGL	92.4	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.18	MGL	94.4	(80-112)	
MSD	Nitrate as Nitrogen by IC	1.25	1.20	MGL	96.0	(80-112)	
RPD_LCS	Nitrate as Nitrogen by IC	97.200	99.600	MGL	2.4	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	94.400	96.000	MGL	1.7	(0-20)	

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Tronox LLC - Henderson
(continued)

QC Ref #367276 Total phosphorus as P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05090926	MGL		(0-0)	
LCS1	Total phosphorus as P	0.4	0.420	MGL	105.0	(90-110)	
LCS2	Total phosphorus as P	0.4	0.420	MGL	105.0	(90-110)	
MBLK	Total phosphorus as P	ND	<0.020	MGL			
MRL_CHK	Total phosphorus as P	0.02	0.027	MGL	135.0	(50-150)	
MS	Total phosphorus as P	0.4	0.389	MGL	97.2	(90-110)	
MS2	Total phosphorus as P	0.4	0.432	MGL	108.0	(90-110)	
MSD	Total phosphorus as P	0.4	0.408	MGL	102.0	(90-110)	
RPD_LCS	Total phosphorus as P	105.000	105.000	MGL	0.0	(0-10)	
RPD_MS	Total phosphorus as P	97.250	102.000	MGL	4.8	(0-20)	

QC Ref #367352 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.986	MGL	98.6	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0097	MGL	97.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.974	MGL	97.4	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.987	MGL	98.7	(70-130)	

QC Ref #367359 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.95	MGL	99.0	(85-115)	
LCS2	Iron, Total, ICAP	5.0	4.82	MGL	96.4	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			

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MRL_CHK	Analyte	0.020	0.0233	MGL	116.5	(50-150)
MS	Iron, Total, ICAP	5.0	4.99	MGL	99.8	(70-130)
MS2	Iron, Total, ICAP	5.0	4.78	MGL	95.6	(70-130)
MSD	Iron, Total, ICAP	5.0	5.20	MGL	104.0	(70-130)
MSD2	Iron, Total, ICAP	5.0	4.83	MGL	95.6	(70-130)
RPD_LCS	Iron, Total, ICAP	99.000	96.400	MGL	2.7	(0-20)
RPD_MS	Iron, Total, ICAP	99.800	104.000	MGL	4.1	(0-20)

QC Ref #367714

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05160664	UGL		(0-0)	
LCS1	Chlorate by IC	200	206	UGL	103.0	(90-110)	
LCS2	Chlorate by IC	200	204	UGL	102.0	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	9.31	UGL	93.1	(50-150)	
MS	Chlorate by IC	100	93.4	UGL	93.4	(75-125)	
MSD	Chlorate by IC	100	96.4	UGL	96.4	(75-125)	
RPD_LCS	Chlorate by IC	103.000	102.000	UGL	1.0	(0-20)	
RPD_MS	Chlorate by IC	93.400	96.400	UGL	3.2	(0-20)	

QC Ref #367719

Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05140414	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	142	MGL	81.1	(71-107)	
LCS2	Total Suspended Solids (TSS)	175	144	MGL	82.3	(71-107)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			
MRL_CHK	Total Suspended Solids (TSS)	10.0	10	MGL	100.0	(50-150)	

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Tronox LLC - Henderson
(continued)

QC Ref #367762

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05150227	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.03	MGL	103.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.03	MGL	103.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MRL_CHK	Ammonia Nitrogen	0.05	0.046	MGL	92.0	(50-150)	
MS	Ammonia Nitrogen	1.00	1.02	MGL	102.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	1.02	MGL	102.0	(90-110)	
MS_2ND	Ammonia Nitrogen	1	0.987	MGL	98.7	(90-110)	
RPD_LCS	Ammonia Nitrogen	103.000	103.000	MGL	0.0	(0-20)	
RPD_MS	Ammonia Nitrogen	102.000	102.000	MGL	0.0	(0-20)	

QC Ref #368084

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05150008	UGL		(0-0)	
LCS1	Perchlorate	25.0	26.4	UGL	105.6	(85-115)	
LCS2	Perchlorate	25.0	25.7	UGL	102.8	(85-115)	
LCS3	Perchlorate	4	4.08	UGL	102.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.4	UGL	97.6	(80-120)	
MSD	Perchlorate	25.0	24.8	UGL	99.2	(80-120)	
RPD_LCS	Perchlorate	105.600	102.800	UGL	2.7	(0-15)	
RPD_MS	Perchlorate	97.600	99.200	UGL	1.0	(0-15)	

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QC Ref #368438

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05160126	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.70	MGL	92.5	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.69	MGL	92.2	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MRL_CHK	Kjeldahl Nitrogen	0.1	0.076	MGL	76.0	(50-150)	
MS	Kjeldahl Nitrogen	4	3.77	MGL	94.2	(90-110)	
MSD	Kjeldahl Nitrogen	4	3.76	MGL	94.0	(90-110)	
MS_2ND	Kjeldahl Nitrogen	4	3.77	MGL	94.2	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	92.500	92.250	MGL	0.3	(0-20)	
RPD_MS	Kjeldahl Nitrogen	94.250	94.000	MGL	0.3	(0-20)	

QC Ref #368905

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05160137	PCIL		(0-0)	
DUP	Alpha, Gross	13.8	14.1	PCIL		(0-20)	2.2
LCS1	Alpha, Gross	16.6	15.8	PCIL	95.2	(80-120)	
LCS2	Alpha, Gross	16.6	17.6	PCIL	106.0	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	30.3	PCIL	91.3	(70-130)	
RPD_LCS	Alpha, Gross	95.181	106.024	PCIL	10.8	(0-20)	
DUP	Beta, Gross	1.5	3.5	PCIL		(0-20)	<u>80.0</u>
LCS1	Beta, Gross	15.7	16.0	PCIL	101.9	(80-120)	
LCS2	Beta, Gross	15.7	16.5	PCIL	105.1	(80-120)	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	32.0	PCIL	101.9	(70-130)	
RPD_LCS	Beta, Gross	101.911	105.096	PCIL	3.1	(0-20)	

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QC Ref #369460

Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05180498	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	1.00	MGL	100.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	1.01	MGL	101.0	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.072	MGL	144.0	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1.0	1.01	MGL	101.0	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	1.01	MGL	101.0	(90-110)	

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