



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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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 26 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 270992
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 7 page[s].



MWH

BUILDING A BETTER WORLD

June 26, 2009

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

Subject: Case Narrative report 270992

Sample receipt: The samples arrived at MWH on May 20, 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:

Nitrate was analyzed past hold time by the colorimetric method out of an unpreserved bottle due to significant interferences with the RCRA IC method. This method change was approved by NDEP.

TDS was run within hold time and then rerun past hold time due inconsistent results.

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

270992



CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES

M/LABS USE ONLY:

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

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

SAMPLES CHECKED/LOGGED IN BY: J/SJS

SAMPLE TEMP, RECEIPT AT LAB: 5°

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **Tronex LLC**

PROJECT JOB # / P.O.#: **Annual Groundwater Sampling - April / May**

Sampler: **Tronex LLC**
 PO Box 55
 Henderson, NV 89009

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP
1335	MAY 14-09	FB. M-39	M-39.051909	RGW	X	AQ
1335	MAY 14-09	FB. M-39	FB.M-39.051909	RGW	X	AQ

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes)

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

PH	Specific Conductance	Total Chromium	Hexavalent Chromium	Perchlorate, ClO ₄	TDS	CHLORATE	SAMPLER COMMENTS
	X	X	X	X	X	X	

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

Reported by Weight:
 SO = Soil
 SL = Sludge

RELINQUISHED BY: *[Signature]* SIGNATURE

RECEIVED BY: *[Signature]* PRINT NAME: VICTORIA TANSER

RELINQUISHED BY: *[Signature]* PRINT NAME: De Sanchez

RECEIVED BY: _____

COMPANY/TITLE: GES-ENV/Enviro. Scientist

DATE: 5/20/09 TIME: 10:30

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

Henderson, NV 89015



J9010901302023

Ship Date: 19MAY09
 ActWgt: 50.0 LB
 CAD: 7219287/INET9011
 Account#: S *****

Delivery Address Bar Code



Ref #
 Invoice #
 PO #
 Dept #

SHIP TO: (626) 386-1100

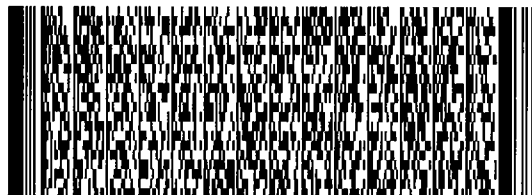
BILL SENDER

Sample Receiving

MWH Labs

750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016

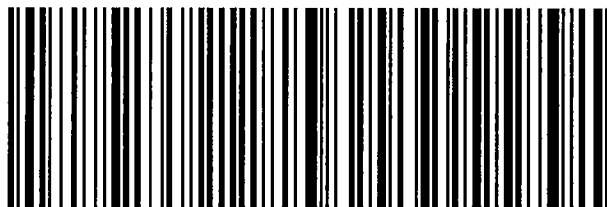


TRK# 7966 2072 5820
 0201

WED - 20MAY A2
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.
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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#: 270992
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **05/20/09**. 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
2905200140	M-39	CLO39056 CLO4 TDS	Water CR6010	19-may-2009 13:35:00 P T
2905200141	FB M-39	CLO39056 CLO4 TDS	Water CR6010	19-may-2009 00:00:00 P T

Test Acronym Description

Test Acronym	Description
CLO39056	Chlorate by IC
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
NO39056	Nitrate as Nitrogen by IC
P	Metals sample pH
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



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Report
Comments
#270992

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: _____ *[Handwritten Signature]*

Group Comments

TDS. Original run on 5/26 was within holding time. But the result was 8060mg/L which had the TDS/EC ratio of 0.99. The normal range is 0.55 to 0.7. Rerun on 6/2 had result of 7760mg/L with ratio of 0.94.

(NO3RFA) Sample was initially run by 300.0, but could not be reported due to extreme matrix interference. The sample was analyzed by 353.2 out of hold time. No preserved bottle was available so an unpreserved was used.

(QC Ref#: 2905200140)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)

HA - Initial analysis within holding time. Reanalysis was past holding time.



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Laboratory
Hits Report
#270992

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

Samples Received
20-may-2009 17:41:19

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905200140	M-39				
06/04/09		Chlorate by IC	1370000		ug/l	50000
06/09/09		Chromium, Total, ICAP	4.7		mg/l	0.020
06/08/09		Metals digestion performed.	Y		Yes/No	
06/25/09		Nitrate + Nitrite as N by RFA	9.96	10	mg/l	1.0
06/09/09		Perchlorate	434000		ug/l	20000
06/02/09		Total Dissolved Solid (TDS)	7760	500	mg/l	10
	2905200141	FB M-39				



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Laboratory
Data Report
#270992

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

Samples Received
05/20/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-39 (2905200140)				Sampled on 05/19/09 13:35				
	06/04/09 00:00	487113	(ML/EPA 9056)	Chlorate by IC	1370000	ug/l	50000	5000
	06/09/09 00:00	487261	(EPA 314)	Perchlorate	434000	ug/l	20000	5000
06/09/09	06/09/09 18:49	487360	(ML/EPA 6010B)	Chromium, Total, ICAP	4.7	mg/l	0.020	2
	06/08/09 13:47		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	06/25/09 17:17	488823	(EPA 353.2)	Nitrate + Nitrite as N by RFA	9.96	mg/l	1.0	20
06/02/09	06/02/09 18:35	487326	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7760 (HA)	mg/l	10	1
FB M-39 (2905200141)				Sampled on 05/19/09 00:00				
	06/04/09 00:00	487113	(ML/EPA 9056)	Chlorate by IC	ND	ug/l	10	1
	06/09/09 00:00	487685	(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
	05/20/09 17:34	485620	(ML/EPA 9056)	Nitrate as Nitrogen by IC	ND	mg/l	0.10	1
05/26/09	05/26/09 16:10	486585	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	ND	mg/l	10	1



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Laboratory
QC Summary
#270992

Tronox LLC - Henderson

QC Ref #485620	- Nitrate as Nitrogen by IC	Analysis Date: 05/20/2009
2905200141	FB M-39	Analyzed by: vxt
QC Ref #486585	- Total Dissolved Solid (TDS)	Analysis Date: 05/26/2009
2905200141	FB M-39	Analyzed by: jrf
QC Ref #487113	- Chlorate by IC	Analysis Date: 06/04/2009
2905200140	M-39	Analyzed by: ser
2905200141	FB M-39	Analyzed by: ser
QC Ref #487261	- Perchlorate	Analysis Date: 06/09/2009
2905200140	M-39	Analyzed by: ser
QC Ref #487326	- Total Dissolved Solid (TDS)	Analysis Date: 06/02/2009
2905200140	M-39	Analyzed by: jrf
QC Ref #487360	- Chromium, Total, ICAP	Analysis Date: 06/09/2009
2905200140	M-39	Analyzed by: csk
2905200141	FB M-39	Analyzed by: csk
QC Ref #487685	- Perchlorate	Analysis Date: 06/09/2009
2905200141	FB M-39	Analyzed by: ser
QC Ref #488823	- Nitrate + Nitrite as N by RFA	Analysis Date: 06/25/2009
2905200140	M-39	Analyzed by: azs



Tronox LLC - Henderson

QC Ref #485620 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05200091	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.69	MGL	107.6	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.69	MGL	107.6	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0475	MGL	95.0	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.32	MGL	105.6	(87-121)	
MSD	Nitrate as Nitrogen by IC	1.25	1.25	MGL	100.0	(87-121)	
RPD_LCS	Nitrate as Nitrogen by IC	107.600	107.600	MGL	0.0	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	105.600	100.000	MGL	5.4	(0-20)	

QC Ref #486585 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210034	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	436	428	MGL		(0-10)	1.9
LCS1	Total Dissolved Solid (TDS)	175	188	MGL	107.4	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	692	MGL	98.9	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	11	MGL	110.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	107.429	98.857	MGL	8.3	(0-20)	

QC Ref #487113 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 20	0905200111	UGL		(0-0)	
LCS1	Chlorate by IC	200	194	UGL	97.0	(90-110)	
LCS2	Chlorate by IC	200	198	UGL	99.0	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	9.81	UGL	98.1	(50-150)	
MS	Chlorate by IC	100	102	UGL	102.0	(75-125)	
MSD	Chlorate by IC	100	104	UGL	104.0	(75-125)	

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)

RPD_LCS	Chlorate by IC	97.000	99.000	UGL	2.0	(0-20)
RPD_MS	Chlorate by IC	102.000	104.000	UGL	1.9	(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 #487326 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	04220209	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	146	140	MGL		(0-10)	4.2
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	688	MGL	98.3	(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)	97.143	98.286	MGL	1.2	(0-20)	

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)	

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Laboratory
QC Report
#270992

Tronox LLC - Henderson (continued)

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 #487685 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	0603044	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.5	UGL	94.0	(85-115)	
LCS2	Perchlorate	25.0	23.2	UGL	92.8	(85-115)	
LCS3	Perchlorate	4	3.02	UGL	75.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.4	UGL	97.6	(80-120)	
MSD	Perchlorate	25.0	24.0	UGL	96.0	(80-120)	
RPD_LCS	Perchlorate	94.000	92.800	UGL	1.3	(0-15)	
RPD_MS	Perchlorate	97.600	96.000	UGL	1.0	(0-15)	

QC Ref #488823 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 200906040267		MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.997	MGL	99.7	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.994	MGL	99.4	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.050	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.0334	MGL	66.8	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1.0	0.998	MGL	99.8	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	1.00	MGL	100.0	(90-110)	

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.