



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
Jul 15 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 272056
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 6 page[s].



MWH

BUILDING A BETTER WORLD

July 15, 2009

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

Subject: Case Narrative report 272056

Sample receipt: The samples arrived at MWH on June 17, 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:

None

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,

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

Andrew Eaton, PhD
Project Manager



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD **MAINTAINED**

272056

HWLABS USE ONLY:

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

LOGIN COMMENTS: RECEIVED SAMPLE

SAMPLES CHECKED/LOGGED IN BY: MLD

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

FOR CLO39056 & NOS9056

SAMPLE TEMP, RECEIPT AT LAB: 3°C

NOT MARKED ON COC.

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#			REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES																
Tronox LLC Sampler		Annual Groundwater Sampling - April / May			<input type="checkbox"/> (check for yes)																
Brian Ho / Susan Crowley		(702) 651-2234	Tronox LLC PO Box 55 Henderson, NV 89009			ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)															
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP														SAMPLER COMMENTS	
	0209	6-16-09	M-29	RGW	X																

* MATRIX TYPES:
 Reported by Volume:
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water
 RGW = Raw Ground Water
 RSW = Raw Surface Water
 CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water
 Reported by Weight:
 SO = Soil
 SL = Sludge

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		DOUG DAVIS	GES / Geologist	6-16-09	1500
RELINQUISHED BY:		M. DEMESA	Mwit	6-17-09	114
RECEIVED BY:					



MWL Laboratories, a Division of MWH Americas, Inc.
 750 Royal Oaks Avenue Suite 100
 Montrovia CA 91016 (626) 386-1100 FAX (626) 386-1124

Bottle Order for Trinox LLC- Henderson Standing

Andrew Eaton..... Your MWL Project Manager
 (626) 386-1125..... Direct Phone/Voice Mail

Client Code KERRMCGEE-MP M Monthly Period

Project Code CLO4
 PO# / Job# GWREMEDIATION
 Blanket PO

SO# 47684 12374 RS **Sampler: Please Return this Paper with your samples**

Created by GJY

0

Ship Sample Kits to

Veolia Water-Trinox LLC
 Gate 1
 8000 West Lake Mead Drive
 Henderson, NV 89015

Send Report to

Trinox LLC Henderson Plant
 P.O. Box 55
 Henderson, NV 89009

Billing Address

Trinox,LLC
 Attn: Accounts Payable
 PO BOX 268859
 Oklahoma City, OK 73126-8859

Order Date
 04/16/09

Date Needed
 by Client

Date Samples
 to Arrive at MWL

SHIP LOCATION

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#

Important Comments

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
41	CLO4, TDS	1 250 ml poly /no preservative		These sites are monthly till further notice.
-	SHEET OF LABELS WITH WELL-IDS	see comments section		Shipping - please send bottles in cooler rather than a box
-				PC-86, PC-89, PC-91, PC-95, PC-97, PC-10, PC-12, PC-17, PC-18, PC-55, PC-101R
-				L-635, L-637
-				MW-K2, MW-K4
-				ARP-1, ARP-2, ARP-3, ARP-4
-				ARP-5, ARP-6, ARP-7, PC-53
-				PC-103, MW-K5, M-83
-				M-87, PC-98R; PC-56, PC-58;
-				PC-59, PC-60, PC-62, PC-68, PC-122
-				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
-				bottle order and IDs updated 9/9/03

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

henderson, NV 89015



Ship Date: 16JUN09
Act/Wgt: 30.0 LB
CAD: 100263135/NET9060
Account#: S *****

Dims: 21 X 15 X 15 IN

Delivery Address Bar Code



Ref # 20092544V1
Invoice #
PO #
Dept #

SHIP TO: (626) 568-6400 BILL SENDER
sample receiving
Montgomery Watson labs
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

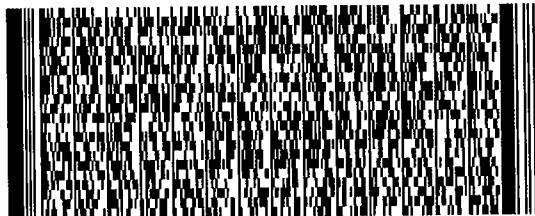
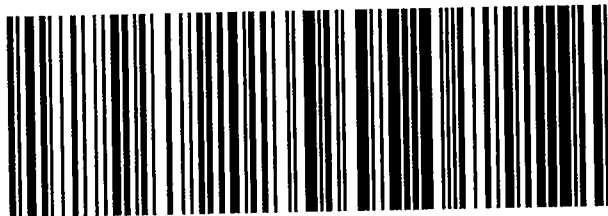
J09200905182023

TRK# 7976 8691 6236
0201

WED - 17JUN A2
PRIORITY OVERNIGHT
DSR

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.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Custody Seal

Date 6/16/09 Project _____
Signature DD Container# 1 of 1

Custody Seal

Date 6/16/09 Project _____
Signature DD Container# 1 of 1

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#: 272056
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **06/17/09**. 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
2906170090	M-29	CLO4 CR6010	Water P T	16-jun-2009 08:09:00 TDS

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
P	Metals sample pH
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



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Report
Comments
#272056

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
#272056

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

Samples Received
17-jun-2009 11:41:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906170090	M-29				
07/02/09	Chlorate by IC		6500		ug/l	100
06/30/09	Chromium, Total, ICAP		0.081		mg/l	0.020
06/29/09	Metals digestion performed.		Y		Yes/No	
06/17/09	Nitrate as Nitrogen by IC		7.02		mg/l	1.0
07/03/09	Perchlorate		2790		ug/l	200
06/19/09	Total Dissolved Solid (TDS)		4520	500	mg/l	10



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Laboratory
Data Report
#272056

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

Samples Received
06/17/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-29 (2906170090)				Sampled on 06/16/09 08:09				
	07/02/09 04:33	489432	(ML/EPA 9056)	Chlorate by IC	6500	ug/l	100	10
	07/03/09 00:00	489429	(EPA 314)	Perchlorate	2790	ug/l	200	50
06/29/09	06/30/09 00:00	489156	(ML/EPA 6010B)	Chromium, Total, ICAP	0.081	mg/l	0.020	2
	06/29/09 00:00		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	06/17/09 22:23	489085	(ML/EPA 9056)	Nitrate as Nitrogen by IC	7.02	mg/l	1.0	10
06/19/09	06/19/09 11:00	488855	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4520	mg/l	10	1



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Laboratory
QC Summary
#272056

Tronox LLC - Henderson

QC Ref #488855	- Total Dissolved Solid (TDS)	Analysis Date: 06/19/2009
2906170090	M-29	Analyzed by: jrf
QC Ref #489085	- Nitrate as Nitrogen by IC	Analysis Date: 06/17/2009
2906170090	M-29	Analyzed by: sxx
QC Ref #489156	- Chromium, Total, ICAP	Analysis Date: 06/30/2009
2906170090	M-29	Analyzed by: csk
QC Ref #489429	- Perchlorate	Analysis Date: 07/03/2009
2906170090	M-29	Analyzed by: ser
QC Ref #489432	- Chlorate by IC	Analysis Date: 07/02/2009
2906170090	M-29	Analyzed by: ser



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Tronox LLC - Henderson

QC Ref #488855 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06160100	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	1506	1500	MGL		(0-10)	0.4
LCS1	Total Dissolved Solid (TDS)	175	176	MGL	100.6	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	696	MGL	99.4	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	12.0	MGL	120.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	100.571	99.429	MGL	1.1	(0-20)	

QC Ref #489085 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06170050	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.012	0.015	MGL	125.0	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.24	MGL	99.2	(87-121)	
MSD	Nitrate as Nitrogen by IC	1.25	1.31	MGL	104.8	(87-121)	
RPD_LCS	Nitrate as Nitrogen by IC	98.000	98.000	MGL	0.0	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	99.200	104.800	MGL	5.5	(0-20)	

QC Ref #489156 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0104	MGL	104.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.996	MGL	99.6	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.984	MGL	98.4	(70-130)	

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
#272056

Tronox LLC - Henderson (continued)

MSD	Chromium, Total, ICAP	1.00	0.970	MGL	97.0	(70-130)
MSD2	Chromium, Total, ICAP	1.00	1.004	MGL	100.4	(70-130)

QC Ref #489429 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06300163	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS3	Perchlorate	4	4.58	UGL	114.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.4	UGL	89.6	(80-120)	
MSD	Perchlorate	25.0	22.5	UGL	90.0	(80-120)	
RPD_LCS	Perchlorate	97.200	97.200	UGL	0.0	(0-15)	
RPD_MS	Perchlorate	89.600	90.000	UGL	1.0	(0-15)	

QC Ref #489432 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06170311	UGL		(0-0)	
LCS1	Chlorate by IC	200	194	UGL	97.0	(90-110)	
LCS2	Chlorate by IC	200	200	UGL	100.0	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	8.59	UGL	85.9	(50-150)	
MS	Chlorate by IC	100	95.4	UGL	95.4	(75-125)	
MSD	Chlorate by IC	100	101	UGL	101.0	(75-125)	
RPD_LCS	Chlorate by IC	97.000	100.000	UGL	3.0	(0-20)	
RPD_MS	Chlorate by IC	95.400	101.000	UGL	5.7	(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.