



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  
Apr 06 2009  
MWH LABORATORIES

A handwritten signature in cursive script, appearing to read "A. Eaton".

ADE Andy Eaton  
Project Manager



Report#: 265658  
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].



BUILDING A BETTER WORLD

April 7, 2009

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

Subject: Case Narrative report 265658

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 18, 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:

TDS was analyzed past hold time. The initial TDS measurement was from a different sample and the error was not identified until after the holding time.

Other observations:

Note that for ion chromatography analyses such as perchlorate, the exact analysis time is not typically shown on the report. Either a 00:00 is shown or the time of injection of the first sample in the batch.

Sincerely,

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

Andrew Eaton, PhD  
Project Manager



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

265658

MWLABS USE ONLY:

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

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JTB  
SAMPLE TEMP, RECEIPT AT LAB: 40

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME	PROJECT JOB # / P.O.#
KERRMCGEE-MP	CLO4
Sampler Signature: <u>Michele Brown</u>	Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)											SAMPLER COMMENTS																											
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CLO4	TDS	PH9040	CR6010																														
10:12 AM	2/17/2009		M-23				X	X	X	X																														

Reported by Volume:  
 CFW = Chlor(amin)ated 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  
 RECEIVED BY: JTB  
 RELINQUISHED BY: JTB  
 RECEIVED BY: MWH

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
<u>Michele Brown</u>	Michele Brown	Veolia Water NA for Tronox LLC - Henderson Plant	2/17/2009	12:00 PM
<u>JTB</u>	<u>JTB</u>	<u>MWH</u>	<u>2/18</u>	<u>10:50</u>

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 of record.

SHIPPER'S NUMBER: 143572

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 <b>Federal Express</b>		Date <b>2/17/09</b>	FROM NO. STATION: STATE <b>Henderson, NV 89015</b>
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization <b>M. Skromyda</b>	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER <b>TRONOX LLC</b>  <b>CODE NO. WCN IS</b>  <b>1321.10181</b>	
N/AR	CUSTOMER PO OR REQ'N NO.	SHIPPED FROM <b>Henderson, NV</b>	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
	<b>Ice chest with water samples</b>  <b>Monitoring Wells quarterly</b>  <b>One ice chest @ 18 lbs</b>  <b>Not Regulated</b>		<b>1 Cooler</b>
TRUCK SHIPMENTS PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO    PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		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.	
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
<b>1</b>	<b>18</b>	<b>0</b>	<b>18</b>
TOTAL GROSS WEIGHT		TOTAL TARE WEIGHT	
<b>18</b>		<b>0</b>	
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 _____		"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the interstate Commerce Commission"	
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 268859, Oklahoma City, OK 73126-8859	PER <b>Carron Williams</b>	AGENT	PER

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



J90116881232823

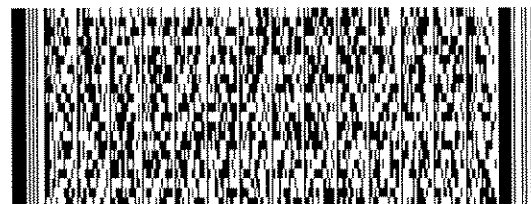
Ship Date: 17FEB09  
 ActWgt: 18.0 LB  
 CAD: 2274147/NET9011  
 Account#: S \*\*\*\*\*

Delivery Address Bar Code



SHIP TO: (626) 568-6400 BILL SENDER  
**ATTN: SAMPLE RECEIVING**  
**MONTGOMERY WATSON LABS**  
**750 ROYAL OAKS DR # 100**  
  
**MONROVIA, CA 91016**

Ref # MSO #143572  
 Invoice #  
 PO #  
 Dept #

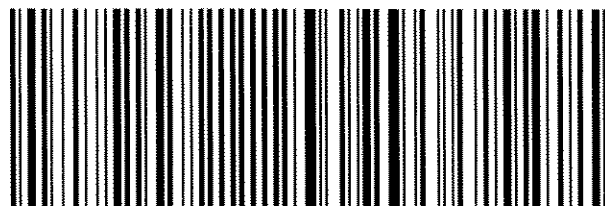


TRK# 7973 4598 7870  
 0201

**WED - 18FEB 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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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.

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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.

**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#: 265658  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **02/18/09**. 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
2902180119	M-23	CLO4 CR6010 P PH9040 T	Water	17-feb-2009 10:12:00

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
P	Metals sample pH
PH9040	PH (H3=past HT, not compliant)
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



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Report  
Comments  
#265658

## 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: \_\_\_\_\_

(QC Ref#: 2902180119)

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

B7 - Target analyte detected in method blank at/above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.  
HA - Initial analysis within holding time. Reanalysis was past holding time.



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Laboratory  
 Hits Report  
 #265658

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

Samples Received  
 18-feb-2009 14:58:04

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902180119	M-23				
02/27/09		Chromium, Total, ICAP	0.73		mg/l	0.020
02/25/09		Metals digestion performed.	Y		Yes/No	
02/18/09		PH (H3=past HT, not compliant)	7.5		Units	0.0010
03/11/09		Perchlorate	245000		ug/l	20000
03/25/09		Total Dissolved Solid (TDS)	4980	500	mg/l	10





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Laboratory  
Data Report  
#265658

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

Samples Received  
02/18/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-23 (2902180119)</b>				<b>Sampled on 02/17/09 10:12</b>				
	03/11/09 16:02	476493	( EPA 314 )	Perchlorate	245000	ug/l	20000	5000
02/25/09	02/27/09 23:41	474745	( ML/EPA 6010B )	Chromium, Total, ICAP	0.73	mg/l	0.020	2
	02/25/09 16:23		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	02/18/09 15:06	473144	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
03/25/09	03/25/09 18:00	479231	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	4980 (B7HA)	mg/l	10	1



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Laboratory  
QC Summary  
#265658

Tronox LLC - Henderson

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QC Ref #0	- Metals Turbidity	Analysis Date: 02/19/2009
2902180119	M-23	Analyzed by: jrf
2902180119	M-23	Analyzed by: jrf
QC Ref #473144	- PH (H3=past HT, not compliant)	Analysis Date: 02/18/2009
2902180119	M-23	Analyzed by: sar
QC Ref #474745	- Chromium, Total, ICAP	Analysis Date: 02/27/2009
2902180119	M-23	Analyzed by: csk
QC Ref #476493	- Perchlorate	Analysis Date: 03/11/2009
2902180119	M-23	Analyzed by: ser
QC Ref #479231	- Total Dissolved Solid (TDS)	Analysis Date: 03/25/2009
2902180119	M-23	Analyzed by: jrf



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Laboratory  
 QC Report  
 #265658

Tronox LLC - Henderson

QC Ref #473144 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	6.38	6.35	UNIT		( 0-20 )	0.5

QC Ref #474745 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02240266	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.992	MGL	99.2	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0099	MGL	99.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.995	MGL	99.5	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.989	MGL	98.9	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.999	MGL	99.9	( 70-130 )	

QC Ref #476493 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	02120271	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	22.8	UGL	91.2	( 85-115 )	
LCS2	Perchlorate	25.0	23.3	UGL	93.2	( 85-115 )	
LCS3	Perchlorate	4	3.55	UGL	88.8	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	20.0	UGL	80.0	( 80-120 )	
MSD	Perchlorate	25.0	20.7	UGL	82.8	( 80-120 )	
RPD_LCS	Perchlorate	91.200	93.200	UGL	2.2	( 0-15 )	
RPD_MS	Perchlorate	80.000	82.800	UGL	1.0	( 0-15 )	

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  
#265658

Tronox LLC - Henderson  
(continued)

QC Ref #479231

Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	03180368	MGL	0.0	( 0-0 )	
DUP	Total Dissolved Solid (TDS)	618	624	MGL		( 0-10 )	1.0
LCS1	Total Dissolved Solid (TDS)	175	188	MGL	107.4	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	702	MGL	100.3	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<u>10</u>	MGL	-		
MRL_CHK	Total Dissolved Solid (TDS)	10.0	11	MGL	110.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	107.429	100.286	MGL	6.9	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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