



MWH

LABORATORIES

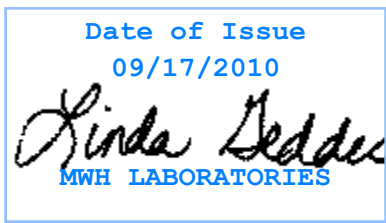
A Division of MWH Americas, Inc.

750 Royal Oak Dr., 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
PO Box 55
Henderson, NV 89009
Attention: Susan Crowley
Fax: 702-651-2310



LXG: Linda Geddes
Project Manager



Report#: 342929
Project: CWA-RCRA
Group: Sulfide-Sulfate

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 Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

Acknowledgement of Samples Received

Tronox LLC

PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234

Customer Code: TRONOX
 Group #: 342929
 Project #: CWA-RCRA
 Sample Group: Sulfide-Sulfate
 Project Manager: Linda Geddes
 Phone: (626) 386-1163

The following samples were received from you on **September 08, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201009080475	Influent	07-Sep-2010 0900
	Sulfate	Sulfide, Total
201009080476	Effluent	07-Sep-2010 0830
	Sulfate	Sulfide, Total

Test Description



342929

MYLABS 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: *W*

SAMPLE TEMP, RECEIPT AT LAB: *R*

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 <input type="checkbox"/> (check for yes)	
TRONOX	CWA-RCRA	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)	

Sampler Signature: Michele Brown <i>Michele Brown</i>		Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009					
Susan Crowley (702) 651-2234							
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	SAMPLER COMMENTS
9:00	9/7/2010		INFLUENT	RSW	X		
8:30	9/7/2010		EFFLUENT	RSW	X		
							<i>← LABEL FOR BOTTLE IS SWITCHED -</i>
							<i>No impact to data. 9/8/10</i>

* MATRIX TYPES:	Reported by Volume: CFW = Chlor(am)inated 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: <i>Michele Brown</i>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		Michele Brown	Veolia Water NA for Tronox LLC - Henderson Plant	9/7/2010	12:00 PM
RELINQUISHED BY:					
RECEIVED BY: <i>[Signature]</i>				9/8/10	10:29

Linda Geddes Your IWWHL Project Manager

BO #: 19583

Created By: LXG

Order Date: 06/01/2010

Bottle Orders

Ship By:
 06/21/2010

Client Code TRONOX
 Project Code CWA-RCRA Bottle Orders
 Group Name Sulfide-Sulfate
 PO# / Job#

Ship Sample Kits to
 Veolia Water-Tronox LLC
 Gate 1
 560 West Lake Mead Pkwy
 Henderson, NV 89015
 Attn: Wendy Prescott
 Phone:
 Fax:

Send Report to
 Tronox LLC
 PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234
 Fax: 702-651-2310

Billing Address
 Tronox LLC
 PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234
 Fax: 702-651-2310

Group#
 Date Sampled
 Date Received

# of Samples	Tests	Qtelinc#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
2	Sulfide		1 125ml poly no preservative	
2	Sulfide Total		1 250 ml poly 10drop NaOH(30%)+5drops ZnAce	

Comments
 Monthly Sulfide-Sulfate on both influent and effluent.
 Shipping - please add additional 1 ml of NaOH to sulfide bottles due to strong reducing capacity of samples

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

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 or record.

SHIPPER'S NUMBER: 144447

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 Federal Express		Date 9/7/10	FROM NO. STATION: STATE Henderson, NV 89015
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization S. Crowley	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC	
N/R		CUSTOMER PO OR REQ'N NO.	CODE NO. WCN IS 10181
N/A		SHIPPED FROM Henderson, NV	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
	Ice Chest with water samples Monthly Influent and Effluent 1 bottle from each site for S-2TOT, SO4 One ice chest @ 11 lbs. Not Regulated		1 COOLER
			Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement: The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TRONOX LLC
			The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement.
TRUCK SHIPMENTS		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.	
PLACARDS OFFERED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	PLACARDS ACCEPTED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
		0	
1	TOTAL GROSS WEIGHT 11	TOTAL TARE WEIGHT 0	11
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 Carron Williams	AGENT	PER

From: Origin ID: LASA (702) 651-2200
Tronox
Tronox
560 W. Lake Mead Parkway
Henderson, NV 89015



J10201000090225

Ship Date: 07SEP10
ActWgt: 11.0 LB
CAD: 100845654/INET3060

Delivery Address Bar Code



Ref # MSO #144447
Invoice #
PO #
Dept #

SHIP TO: (626) 568-6400 BILL SENDER

Attn: Sample Receiving
Montgomery Watson Labs
750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016

WED - 08 SEP A1

TRK# 7962 2039 2973
0201

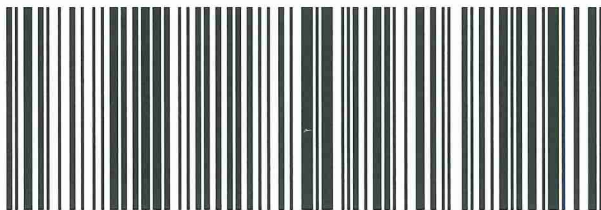
PRIORITY OVERNIGHT

91016

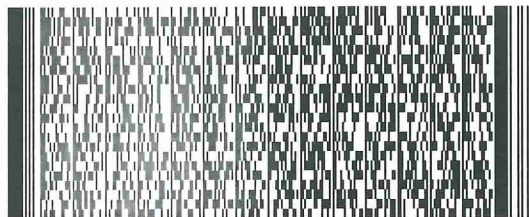
CA-US

BUR

QZ WHPA



508G3/0292/0A24



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.

September 17, 2010

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

Subject: Case Narrative report 342929

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on September 08, 2010 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.

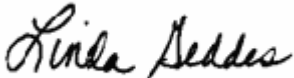
Case Narrative:
For the MWH Laboratories data the following issues were observed:

The pH of the Total Sulfide samples was below acceptance criteria. The pHs were adjusted to >10 prior to analysis. Data is flagged Q5.

Other Observations:

There were no other observations on this sample set.

Sincerely,



Linda Geddes
Project Manager



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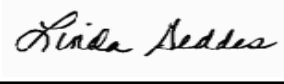
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Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Laboratory Comments
Report: #342929

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: 

Group Comments

The pH of the Total Sulfide samples was below acceptance criteria. The pHs were adjusted to >10 prior to analysis. Data is flagged Q5.

Flags Legend:

Q5 - Sample received with inadequate chemical preservation, but preserved by the laboratory.



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Laboratory
Hits Report: 342929

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/08/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201009080475				
		<u>Influent</u>				
09/08/2010	15:43 Sulfate		1700	250	mg/L	25
		201009080476				
		<u>Effluent</u>				
09/08/2010	15:55 Sulfate		1700	250	mg/L	25



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**Laboratory Data
Report: 342929**

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/08/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution	
<u>Influent (201009080475)</u>							Sampled on 09/07/2010 0900				
EPA 300.0 - Chloride, Sulfate by EPA 300.0											
09/08/2010	15:43	568294	(EPA 300.0)	Sulfate	1700	mg/L	0.060	25	3.0	50	
SM4500SD/376.2 - Sulfide, Total											
09/14/2010	17:26	569135	(SM4500SD/376.2)	Sulfide, Total	ND(Q5)	mg/L	0.024	0.05	0.024	1	
<u>Effluent (201009080476)</u>							Sampled on 09/07/2010 0830				
EPA 300.0 - Chloride, Sulfate by EPA 300.0											
09/08/2010	15:55	568294	(EPA 300.0)	Sulfate	1700	mg/L	0.060	25	3.0	50	
SM4500SD/376.2 - Sulfide, Total											
09/14/2010	17:27	569135	(SM4500SD/376.2)	Sulfide, Total	ND(Q5)	mg/L	0.024	0.05	0.024	1	

Rounding on totals after summation.
(c) - indicates calculated results

Sample Quantitation Limit (SQL) =
MDL * Dilution Factor



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Laboratory
QC Summary: 342929

Tronox LLC

QC Ref # 568294 - Chloride, Sulfate by EPA 300.0

201009080475 Influent
201009080476 Effluent

Analysis Date: 09/08/2010

Analyzed by: S XK
Analyzed by: S XK

QC Ref # 569135 - Sulfide, Total

201009080475 Influent
201009080476 Effluent

Analysis Date: 09/14/2010

Analyzed by: CYP
Analyzed by: CYP



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Laboratory
QC Report: 342929

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 568294 - Chloride, Sulfate by EPA 300.0 by EPA 300.0					Analysis Date: 09/08/2010				
LCS1	Sulfate		50	52.1	mg/L	104	(90-110)		
LCS2	Sulfate		50	52.0	mg/L	104	(90-110)	20	0.19
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	1.02	mg/L	102	(50-150)		
MRL_LW	Sulfate		0.25	0.271	mg/L	108	(50-150)		
MS_201009070137	Sulfate	45	25	101	mg/L	111	(80-120)		
MS_201009080208	Sulfate	27	25	83.4	mg/L	113	(80-120)		
MSD_201009070137	Sulfate	45	25	102	mg/L	112	(80-120)	20	0.90
MSD_201009080208	Sulfate	27	25	83.0	mg/L	112	(80-120)	20	0.89
QC Ref# 569135 - Sulfide, Total by SM450SD/376.2					Analysis Date: 09/14/2010				
LCS1	SulfideTotal		0.5	0.492	mg/L	98	(90-110)		
LCS2	SulfideTotal		0.5	0.483	mg/L	97	(90-110)	20	1.9
MBLK	SulfideTotal			<0.05	mg/L				
MRL_CHK	SulfideTotal		0.05	0.0640	mg/L	128	(50-150)		
MS_201009130071	SulfideTotal	ND	0.5	0.482	mg/L	96	(80-120)		
MSD_201009130071	SulfideTotal	ND	0.5	0.487	mg/L	97	(80-120)	20	1.0

Spike recovery is already corrected for native results.

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.

(S) Indicates surrogate compound.

12/12

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)