



# MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oake Drive, Suite 100  
Monrovia, California 91016-3829  
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 22 2009  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager



Report#: 268707  
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 11 page[s].



BUILDING A BETTER WORLD

April 23, 2009

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

Subject: Case Narrative report 268707

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on April 7, 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:

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

268707

**MONTGOMERY WATSON LABORATORIES CHAIN OF CUSTODY RECORD**

M/LABS USE ONLY:

750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016  
 (626) 386-1100 (800) 366-5227

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS/sm  
 SAMPLE TEMP, RECEIPT AT LAB: 3  
 BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: PROJECT JOB # / P.O.#  
 KERRMCGEE-IMP (Collection Wells Fields - Weekly - SO #12373)  
 Sampler: Michele Brown Tronox LLC - Henderson Plant  
 Susan Crowley (702) 651-2200 Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES  
 ANALYSES REQUIRED (mark an "X" in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	CLO4	TDS	SAMPLER COMMENTS
5:30	4/6/09		ART-1	RSW	X		X	X	
5:30	4/6/09		ART-2	RSW	X		X	X	
5:30	4/6/09		ART-3	RSW	X		X	X	
5:30	4/6/09		ART-4	RSW	X		X	X	
5:30	4/6/09		ART-5	RSW	X		X	X	
5:30	4/6/09		ART-6	RSW	X		X	X	NO SAMPLE
5:30	4/6/09		ART-7	RSW	X		X	X	NO SAMPLE
5:30	4/6/09		ART-8	RSW	X		X	X	
0600	4/6/09		PC-99R2/R3	RSW	X		X	X	
0600	4/6/09		PC-115R	RSW	X		X	X	
0600	4/6/09		PC-116R	RSW	X		X	X	
0600	4/6/09		Seep Surface Flow	RSW	X		X	X	NO SAMPLE

\* MATRIX TYPES: Reported by Volume:  
 CFW = Chlor(aminated) 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: Michele Brown SIGNATURE  
 RECEIVED BY: Joe Sanchez SIGNATURE  
 RELINQUISHED BY: Joe Sanchez SIGNATURE  
 RECEIVED BY: \_\_\_\_\_ SIGNATURE

PRINT NAME: Michele Brown  
 COMPANY/TITLE: Veolia Water for Tronox LLC - Henderson Plant  
 DATE: 4/6/2009  
 TIME: 10:58  
 4709



750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016  
(626) 386-1100 (800) 566-5227

M/LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: BS

SAMPLE TEMP, RECEIPT AT LAB: 30

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 checked="" type="checkbox"/> (check for yes)					
KERRMCGEE-MP		Collection Wells Fields - Monthly - SO #12373		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)																	
Sampler Signature: <u>Michele Brown</u>																					
Susan Crowley (702) 651-2200																					
Tronox LLC - Henderson Plant LLC PO Box 55 Henderson, NV 89009																					
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	Total CO <sub>2</sub>	TDS													SAMPLER COMMENTS
6:00	4/6/09		SF-1	RSW	X		X	X													
6:00	4/6/09		PC-117	RSW	X		X	X													
6:00	4/6/09		PC-118	RSW	X		X	X													
6:00	4/6/09		PC-119	RSW	X		X	X													NO SAMPLE
6:00	4/6/09		PC-120	RSW	X		X	X													
6:00	4/6/09		PC-121	RSW	X		X	X													
6:00	4/6/09		PC-133	RSW	X		X	X													
5:30	4/6/09		ART-9	RSW	X		X	X													

\* MATRIX TYPES:

Reported by Volume:  
CFW = Chloraminated Finished Water  
FW = Other Finished Water

Reported by Weight:  
SO = Soil  
SL = Sludge

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

Reported by Weight:

RELINQUISHED BY: <u>Michele Brown</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY: <u>[Signature]</u>		Michele Brown	Veolia Water for Tronox LLC - Henderson Plant	4/6/2009	1200pm
RELINQUISHED BY:		<u>[Signature]</u>	MUFT	4/7/09	10:55
RECEIVED BY:					



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 Tronox, 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# GWREMEDIATION  
 Blanket PO

**SO# 47273 12373 RS 0** **Sampler: Please Return this Paper with your samples**

Created by GJY

Order Date 03/16/09

Date Needed by Client

Ship Sample Kits to  
 Veolia Water-Tronox LLC  
 Gate 1  
 8000 West Lake Mead Drive  
 Henderson, NV 89015

Send Report to

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

Billing Address

Tronox, 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#**  
 GJY

# of Samples Tests

Bottles-Qty for each sample, type & preservative if any

UN#

Important Comments

#	Code	Description	Qty	UN#	Comments
30	CLO4, TDS,	1 250 ml poly /no preservative	-	-	Per Ed Krish 7-4-06 all samples will be TDS in lieu of EC Monthly effective 11-30-07
-	SHEET OF LABELS WITH WELL-IDS	see comments section	-	-	PC-117, PC-118, PC-119, PC-120, and PC-121
-			-	-	PC-116R
-			-	-	PC-99R2
-			-	-	PC-99R3
-			-	-	PC-115R
-			-	-	ART-1
-			-	-	ART-2
-			-	-	ART-3
-			-	-	ART-4
-			-	-	ART-5
-			-	-	ART-6
-			-	-	ART-7
-			-	-	ART-8
-			-	-	Seep Surface Flow
-			-	-	SF-1"

**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  
 Testcode updated 3-16-06  
 standard order changed 6-14-06

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: 143638

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>4/6/09</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>		
N/AR		CUSTOMER PO OR REQ'N NO.		<b>CODE NO. WCN IS 1321.10181</b>
		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 Monthly ART and PC Well Samples  One Ice Chest @ 31 lbs</b>		<b>1 Cooler</b>	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.  <b>TRONOX LLC</b>
				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	
		<b>0</b>		
<b>1</b>	TOTAL GROSS WEIGHT <b>31</b>	TOTAL TARE WEIGHT <b>0</b>	<b>31</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>Olga Maestas</b>	AGENT	PER

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



J98116981382923

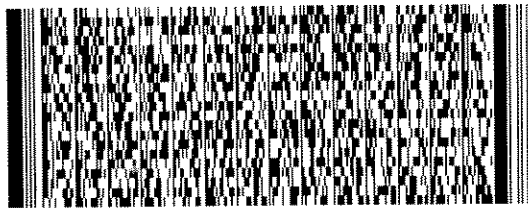
Ship Date: 06APR09  
 ActWgt: 31.0 LB  
 CAD: 2274147/NET9011  
 Account#: S \*\*\*\*\*

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 #143638  
 Invoice #  
 PO #  
 Dept #

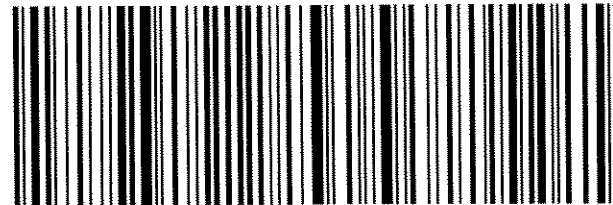


TRK# 7974 8265 0438  
 0201

**TUE - 07APR 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.
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.

**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#: 268707  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **04/07/09**. 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
2904070330	ART-1	CLO4 TDS	Water	06-apr-2009 05:30:00
2904070331	ART-2	CLO4 TDS	Water	06-apr-2009 05:30:00
2904070332	ART-3	CLO4 TDS	Water	06-apr-2009 05:30:00
2904070333	ART-4	CLO4 TDS	Water	06-apr-2009 05:30:00
2904070334	ART-7	CLO4 TDS	Water	06-apr-2009 05:30:00
2904070335	ART-8	CLO4 TDS	Water	06-apr-2009 05:30:00
2904070336	PC-99R2/R3	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070337	PC-115R	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070338	PC-116R	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070339	SF-1	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070340	PC-117	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070341	PC-118	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070342	PC-120	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070343	PC-121	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070344	PC-133	CLO4 TDS	Water	06-apr-2009 06:00:00
2904070345	ART-9	CLO4 TDS	Water	06-apr-2009 05:30:00

Test Acronym Description

Test Acronym	Description
--------------	-------------



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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#: 268707  
Project#: CLO4  
Proj Mgr: Andrew Eaton  
Phone: (626) 386-1125

---

Test Acronym Description

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Test Acronym	Description
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CLO4	Perchlorate
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TDS	Total Dissolved Solid (TDS)
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**MWH Laboratories**  
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Tel: 626 386 1100  
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Report  
Comments  
#268707

**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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 Monrovia, California 91016-3629  
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Laboratory  
 Hits Report  
 #268707

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

Samples Received  
 07-apr-2009 10:58:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2904070330	ART-1				
04/17/09	Perchlorate		275		ug/l	20
04/13/09	Total Dissolved Solid (TDS)		7960	500	mg/l	10
	2904070331	ART-2				
04/11/09	Perchlorate		77500		ug/l	4000
04/13/09	Total Dissolved Solid (TDS)		9900	500	mg/l	10
	2904070332	ART-3				
04/11/09	Perchlorate		327000		ug/l	20000
04/13/09	Total Dissolved Solid (TDS)		8880	500	mg/l	10
	2904070333	ART-4				
04/11/09	Perchlorate		362000		ug/l	20000
04/13/09	Total Dissolved Solid (TDS)		7040	500	mg/l	10
	2904070334	ART-7				
04/11/09	Perchlorate		131000		ug/l	8000
04/13/09	Total Dissolved Solid (TDS)		10020	500	mg/l	10
	2904070335	ART-8				
04/12/09	Perchlorate		253000		ug/l	20000
04/13/09	Total Dissolved Solid (TDS)		9800	500	mg/l	10
	2904070336	PC-99R2/R3				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Hits Report  
#268707

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

Samples Received  
07-apr-2009 10:58:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2904070336	PC-99R2/R3				
04/12/09	Perchlorate		5820		ug/l	800
04/13/09	Total Dissolved Solid (TDS)		3540	500	mg/l	10
	2904070337	PC-115R				
04/12/09	Perchlorate		6930		ug/l	800
04/13/09	Total Dissolved Solid (TDS)		3710	500	mg/l	10
	2904070338	PC-116R				
04/12/09	Perchlorate		4490		ug/l	400
04/13/09	Total Dissolved Solid (TDS)		3350	500	mg/l	10
	2904070339	SF-1				
04/13/09	Total Dissolved Solid (TDS)		6250	500	mg/l	10
	2904070340	PC-117				
04/12/09	Perchlorate		1870		ug/l	200
04/13/09	Total Dissolved Solid (TDS)		2780	500	mg/l	10
	2904070341	PC-118				
04/12/09	Perchlorate		5800		ug/l	800
04/13/09	Total Dissolved Solid (TDS)		3650	500	mg/l	10
	2904070342	PC-120				
04/14/09	Perchlorate		1750		ug/l	200

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Hits Report  
#268707

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

Samples Received  
07-apr-2009 10:58:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2904070342	PC-120				
04/13/09	Total Dissolved Solid (TDS)		2600	500	mg/l	10
	2904070343	PC-121				
04/14/09	Perchlorate		1170		ug/l	80
04/13/09	Total Dissolved Solid (TDS)		2490	500	mg/l	10
	2904070344	PC-133				
04/14/09	Perchlorate		1060		ug/l	200
04/13/09	Total Dissolved Solid (TDS)		2470	500	mg/l	10
	2904070345	ART-9				
04/14/09	Perchlorate		340000		ug/l	20000
04/13/09	Total Dissolved Solid (TDS)		8120	500	mg/l	10



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Laboratory  
Data Report  
#268707

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

Samples Received  
04/07/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>ART-1 (2904070330)                    Sampled on 04/06/09 05:30</b>								
	04/17/09 16:13	481201	( EPA 314	) Perchlorate	275	ug/l	20	5
04/13/09	04/13/09 18:15	481194	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	7960	mg/l	10	1
<b>ART-2 (2904070331)                    Sampled on 04/06/09 05:30</b>								
	04/11/09 15:27	480701	( EPA 314	) Perchlorate	77500	ug/l	4000	1000
04/13/09	04/13/09 18:15	481194	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	9900	mg/l	10	1
<b>ART-3 (2904070332)                    Sampled on 04/06/09 05:30</b>								
	04/11/09 15:27	480701	( EPA 314	) Perchlorate	327000	ug/l	20000	5000
04/13/09	04/13/09 18:15	481194	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	8880	mg/l	10	1
<b>ART-4 (2904070333)                    Sampled on 04/06/09 05:30</b>								
	04/11/09 15:27	480701	( EPA 314	) Perchlorate	362000	ug/l	20000	5000
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	7040	mg/l	10	1
<b>ART-7 (2904070334)                    Sampled on 04/06/09 05:30</b>								
	04/11/09 15:27	480701	( EPA 314	) Perchlorate	131000	ug/l	8000	2000
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	10020	mg/l	10	1
<b>ART-8 (2904070335)                    Sampled on 04/06/09 05:30</b>								
	04/12/09 00:00	480701	( EPA 314	) Perchlorate	253000	ug/l	20000	5000
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	9800	mg/l	10	1
<b>PC-99R2/R3 (2904070336)                Sampled on 04/06/09 06:00</b>								
	04/12/09 00:00	480701	( EPA 314	) Perchlorate	5820	ug/l	800	200
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	3540	mg/l	10	1



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 Monrovia, California 91016-3829  
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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>PC-115R (2904070337)                    Sampled on 04/06/09 06:00</b>								
	04/12/09 00:00	480701	( EPA 314 )	Perchlorate	6930	ug/l	800	200
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	3710	mg/l	10	1
<b>PC-116R (2904070338)                    Sampled on 04/06/09 06:00</b>								
	04/12/09 00:00	480701	( EPA 314 )	Perchlorate	4490	ug/l	400	100
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	3350	mg/l	10	1
<b>SF-1 (2904070339)                    Sampled on 04/06/09 06:00</b>								
	04/12/09 00:00	480701	( EPA 314 )	Perchlorate	ND	ug/l	8.0	2
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	6250	mg/l	10	1
<b>PC-117 (2904070340)                    Sampled on 04/06/09 06:00</b>								
	04/12/09 00:00	480701	( EPA 314 )	Perchlorate	1870	ug/l	200	50
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	2780	mg/l	10	1
<b>PC-118 (2904070341)                    Sampled on 04/06/09 06:00</b>								
	04/12/09 00:00	480701	( EPA 314 )	Perchlorate	5800	ug/l	800	200
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	3650	mg/l	10	1
<b>PC-120 (2904070342)                    Sampled on 04/06/09 06:00</b>								
	04/14/09 15:46	480705	( EPA 314 )	Perchlorate	1750	ug/l	200	50
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	2600	mg/l	10	1
<b>PC-121 (2904070343)                    Sampled on 04/06/09 06:00</b>								
	04/14/09 15:46	480705	( EPA 314 )	Perchlorate	1170	ug/l	80	20
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	2490	mg/l	10	1
<b>PC-133 (2904070344)                    Sampled on 04/06/09 06:00</b>								
	04/14/09 15:46	480705	( EPA 314 )	Perchlorate	1060	ug/l	200	50
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	2470	mg/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>ART-9 (2904070345)</b>				<b>Sampled on 04/06/09 05:30</b>				
	04/14/09 15:46	480705	( EPA 314	) Perchlorate	340000	ug/l	20000	5000
04/13/09	04/13/09 22:15	481195	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	8120	mg/l	10	1





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Monrovia, California 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
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QC Ref #480701 - Perchlorate

Analysis Date: 04/11/2009

2904070331	ART-2	Analyzed by: ser
2904070332	ART-3	Analyzed by: ser
2904070333	ART-4	Analyzed by: ser
2904070334	ART-7	Analyzed by: ser
2904070335	ART-8	Analyzed by: ser
2904070336	PC-99R2/R3	Analyzed by: ser
2904070337	PC-115R	Analyzed by: ser
2904070338	PC-116R	Analyzed by: ser
2904070339	SF-1	Analyzed by: ser
2904070340	PC-117	Analyzed by: ser
2904070341	PC-118	Analyzed by: ser

QC Ref #480705 - Perchlorate

Analysis Date: 04/14/2009

2904070342	PC-120	Analyzed by: ser
2904070343	PC-121	Analyzed by: ser
2904070344	PC-133	Analyzed by: ser
2904070345	ART-9	Analyzed by: ser

QC Ref #481194 - Total Dissolved Solid (TDS)

Analysis Date: 04/13/2009

2904070330	ART-1	Analyzed by: jrf
2904070331	ART-2	Analyzed by: jrf
2904070332	ART-3	Analyzed by: jrf

QC Ref #481195 - Total Dissolved Solid (TDS)

Analysis Date: 04/13/2009

2904070333	ART-4	Analyzed by: jrf
2904070334	ART-7	Analyzed by: jrf
2904070335	ART-8	Analyzed by: jrf
2904070336	PC-99R2/R3	Analyzed by: jrf
2904070337	PC-115R	Analyzed by: jrf
2904070338	PC-116R	Analyzed by: jrf
2904070339	SF-1	Analyzed by: jrf
2904070340	PC-117	Analyzed by: jrf
2904070341	PC-118	Analyzed by: jrf
2904070342	PC-120	Analyzed by: jrf
2904070343	PC-121	Analyzed by: jrf
2904070344	PC-133	Analyzed by: jrf
2904070345	ART-9	Analyzed by: jrf



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Monrovia, California 91016-3629  
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QC Summary  
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QC Ref #481201 - Perchlorate

Analysis Date: 04/17/2009

2904070330

ART-1

Analyzed by: ser



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## QC Ref #480701 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	04080323	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.8	UGL	99.2	( 85-115 )	
LCS2	Perchlorate	25.0	24.6	UGL	98.4	( 85-115 )	
LCS3	Perchlorate	4	4.12	UGL	103.0	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.0	UGL	92.0	( 80-120 )	
MSD	Perchlorate	25.0	23.1	UGL	92.4	( 80-120 )	
RPD_LCS	Perchlorate	99.200	98.400	UGL	0.8	( 0-15 )	
RPD_MS	Perchlorate	92.000	92.400	UGL	1.0	( 0-15 )	

## QC Ref #480705 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	04070464	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.6	UGL	98.4	( 85-115 )	
LCS2	Perchlorate	25.0	24.4	UGL	97.6	( 85-115 )	
LCS3	Perchlorate	4	4.22	UGL	105.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.1	UGL	92.4	( 80-120 )	
MSD	Perchlorate	25.0	23.4	UGL	93.6	( 80-120 )	
RPD_LCS	Perchlorate	98.400	97.600	UGL	0.8	( 0-15 )	
RPD_MS	Perchlorate	92.400	93.600	UGL	1.0	( 0-15 )	

## QC Ref #481194 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	04060437	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	228	230	MGL		( 0-10 )	0.9
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	678	MGL	96.9	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			

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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MRL_CHK	Total Dissolved Solid (TDS)	10.0	9	MGL	90.0	( 50-150 )
RPD_LCS	Total Dissolved Solid (TDS)	97.143	96.857	MGL	0.3	( 0-20 )

### QC Ref #481195 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	04070149	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	398	402	MGL		( 0-10 )	1.0
LCS1	Total Dissolved Solid (TDS)	175	168	MGL	96.0	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	666	MGL	95.1	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	9	MGL	90.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	96.000	95.143	MGL	0.9	( 0-20 )	

### QC Ref #481201 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	094130127	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.1	UGL	96.4	( 85-115 )	
LCS2	Perchlorate	25.0	24.2	UGL	96.8	( 85-115 )	
LCS3	Perchlorate	4	4.02	UGL	100.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.9	UGL	91.6	( 80-120 )	
MSD	Perchlorate	25.0	23.1	UGL	92.4	( 80-120 )	
RPD_LCS	Perchlorate	96.400	96.800	UGL	0.4	( 0-15 )	
RPD_MS	Perchlorate	91.600	92.400	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.