



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
Jun 10 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 270507
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

June 11, 2009

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

Subject: Case Narrative report 270507

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 07, 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,

Andrew Eaton, PhD
Project Manager



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

270507

MW LABS USE ONLY:

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

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

SAMPLES CHECKED/LOGGED IN BY: MW/RS

SAMPLE TEMP, RECEIPT AT LAB: 30°C TB

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

(check for yes)

Annual Groundwater Sampling - April / May

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

Sampler

Trorox LLC
Ph: | Brinkhoff
Briante / Susan Crowley
Trorox LLC
PO Box 55
Henderson, NV 89009
(702) 651-2234

TIME DATE LOCATION IDENTIFIER, STATE ID# MATRIX * GRAB COMP

1013 5-6-09 PC-77 RGW X

1455 5-6-09 PC-74 RGW X

pH Specific Conductance Total Chromium Hexavalent Chromium Perchlorate, ClO₄ TDS

SAMPLER COMMENTS

* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

Reported by Weight:

SO = Soil
SL = Sludge
CW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water
RGW = Raw Ground Water
RSW = Raw Surface Water

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY:

Phil Brinkhoff

Phil Brinkhoff

M. DE LUZZA

GES / Geologist

MW H

5-6-09 1600

5-7-9 1242

RECEIVED BY:

RECEIVED BY:

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 KERRMGEE-MP M Monthly Period
 Project Code CLO4
 PO# / Job# GWREMEDICATION
 Blanket PO

SO# 47684 12374 RS

Sampler: Please Return this Paper with your samples

Created by GJY

Order Date
04/16/09

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
 PO BOX 268859
 Oklahoma City, OK 73126-8859

Date Samples
 to Arrive at MWL

ATTN: Susan Crowley
 PHONE: 702-651-2234

ATTN: Susan Crowley
 PHONE: 702-651-2234

Quote#

GJY

SHIP LOCATION

of Samples Tests

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

UN#

Important Comments

41 CLO4, TDS

SHEET OF LABELS WITH WELL-IDS

1 250 ml poly /no preservative

see comments section

These sites are monthly till further notice.
 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
- 1MW-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

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#: 270507
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **05/07/09**. 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
2905080074	PC-77	CLO4 TDS	Water	06-may-2009 10:13:00
2905080075	PC-74	CLO4 TDS	Water	06-may-2009 14:55:00

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
TDS	Total Dissolved Solid (TDS)



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Report
Comments
#270507

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
 #270507

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

Samples Received
 07-may-2009 12:42:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905080074	PC-77				
05/28/09	Perchlorate		2130		ug/l	200
05/13/09	Total Dissolved Solid (TDS)		4570	500	mg/l	10
	2905080075	PC-74				
06/03/09	Perchlorate		1350		ug/l	80
05/13/09	Total Dissolved Solid (TDS)		4230	500	mg/l	10



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Laboratory
 Data Report
 #270507

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

Samples Received
 05/07/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
				PC-77 (2905080074)	Sampled on 05/06/09 10:13			
	05/28/09 07:30	486373	(EPA 314)	Perchlorate	2130	ug/l	200	50
05/13/09	05/13/09 20:00	484868	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4570	mg/l	10	1
				PC-74 (2905080075)	Sampled on 05/06/09 14:55			
	06/03/09 10:17	486887	(EPA 314)	Perchlorate	1350	ug/l	80	20
05/13/09	05/13/09 20:00	484868	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4230	mg/l	10	1



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Laboratory
QC Summary
#270507

Tronox LLC - Henderson

QC Ref #484868 - Total Dissolved Solid (TDS) Analysis Date: 05/13/2009

2905080074 PC-77
2905080075 PC-74

Analyzed by: jrf
Analyzed by: jrf

QC Ref #486373 - Perchlorate

Analysis Date: 05/28/2009

2905080074 PC-77

Analyzed by: ser

QC Ref #486887 - Perchlorate

Analysis Date: 06/03/2009

2905080075 PC-74

Analyzed by: ser



Tronox LLC - Henderson

QC Ref #484868 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05070093	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	5930	5930	MGL		(0-10)	0.0
LCS1	Total Dissolved Solid (TDS)	175	172	MGL	98.3	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	706	MGL	100.9	(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)	98.286	100.857	MGL	2.6	(0-20)	

QC Ref #486373 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05120284	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	
LCS2	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	
LCS3	Perchlorate	4	4.45	UGL	111.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.4	UGL	101.6	(80-120)	
MSD	Perchlorate	25.0	25.3	UGL	101.2	(80-120)	
RPD_LCS	Perchlorate	102.000	102.000	UGL	0.0	(0-15)	
RPD_MS	Perchlorate	101.600	101.200	UGL	1.0	(0-15)	

QC Ref #486887 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06020022	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	
LCS2	Perchlorate	25.0	24.5	UGL	98.0	(85-115)	
LCS3	Perchlorate	4	4.64	UGL	116.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	26.1	UGL	104.4	(80-120)	
MSD	Perchlorate	25.0	24.7	UGL	98.8	(80-120)	

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
 #270507

Tronox LLC - Henderson
 (continued)

RPD_LCS	Perchlorate	100.800	98.000	UGL	2.8	(0-15)
RPD_MS	Perchlorate	104.400	98.800	UGL	0.9	(0-15)

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 are advisory only, unless otherwise specified in the method.