



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)

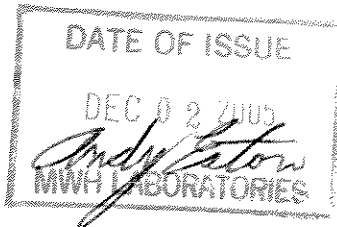
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

Attention: Susan Crowley
Fax: 702-651-2310



ADE Andy Eaton
Project Manager



Report#: 160075
CLO4

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].



160075

MVLARS USE ONLY:

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016-3629
(626) 568-6400 (800) 566-5227

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS

SAMPLE TEMP, RECEIPT AT LAB: 20

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **KERRMCGEE-MP**
 PROJECT JOB # / P.O.#: **Wendy Prescott**
 Weekly Cr. Consent Order Compliance Samples

Kerr-McGee Chemical LLC
PO Box 55
Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes)

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	ANALYSES REQUIRED				SAMPLER COMMENTS
							Total Cr	Hexavalent Chromium	Total Cr ₂	NO ₃ as N	
10:00 AM	10-23,25,27-05		GWTP Discharge	RSW		X	X	X	X	Total Cr sample preserved with HNO ₃	
10:00 AM	10/27/2005		GWTP West Well Feed	RSW	X		X			Total Cr sample preserved with HNO ₃	
10:00 AM	10/27/2005		GWTP East Well Feed	RSW	X		X			Total Cr sample preserved with HNO ₃	
										East & West CLO4 added beginning 11-11-04	

* 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

SIGNATURE

PRINT NAME

COMPANY/TITLE

TIME

RELINQUISHED BY: <u>Wendy Prescott</u>	DATE: 10/27/2005	TIME: 12:00
RECEIVED BY: <u>JE SANCHEZ</u>	DATE: 10/28/05	TIME: 10:00
RELINQUISHED BY:		
RECEIVED BY:		

Veolia Water NA for Kerr McGee Chemical LLC



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 Kerr McGee Chemical Company - Henderson

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

Client Code KERRMCGEE-MP
Project Code CLO4
PO# / Job#
Blanket PO

W Weekly
Week 1
Period

SO# 26689 16287 RS

Sampler: Please Return this Paper with your samples

Created by EEF

Order Date

10/17/05

Date Needed by Client

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

Send Report to
Kerr McGee-Henderson Plant
P.O. Box 55
Henderson, NV 89009

Billing Address
KMC LLC
attn: Contract 304280
P.O. Box 3049
Livonia, MI 48150

ATTN: Susan Crowley
PHONE: 702-651-2234

ATTN: Susan Crowley
PHONE: 702-651-2234
FAX: 702-651-2310

Quote#

EEF

of Samples Tests

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

UN#

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
3	CR	1 250 ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	GWTP WEST WELL FEED
3	CR-VI	1 125ml poly acid rinsed/ no preservative SHORT HOLDING TIME!!!!		GWTP EAST WELL FEED
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	GWTP DISCHARGE
3	CLO4	1 125ml poly /no preservative AMBER IF WITH CLO3!		CLO4, CLO3, NO3RFA on DISCHARGE
1	NO3RFA	1 250 ml poly+ 1 ml H2SO4 (50%)	UN 2796	CR, and CRVI and CLO4 on all samples
				Please sample late in the day and send via priority overnight to ensure that we receive CRVI within hold time whenever possible.
				SHIPPING - PLEASE PRELABEL BOTTLES
				revised 4/29/04 lvg
				revised 11/4/04 ade
				shipping - the CLO3 bottle has been missed several times - please be sure it is included!

ActiveCode Status Date Shipped Carrier Qty of Coolers Tracking Number Prepared By

SCANNED

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#: 160075
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **10/28/05**. 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
2510280613	GWTP DISCHARGE	CLO3 CLO4	Water	27-oct-2005 10:00:00
		T	CR CR-VI	NO3RFA P
2510280614	GWTP WEST WELL FEED	CLO4 CR	Water	27-oct-2005 10:00:00
			CR-VI P	T
2510280615	GWTP EAST WELL FEED	CLO4 CR	Water	27-oct-2005 10:00:00
			CR-VI P	T

Test Acronym Description

Test Acronym	Description
CLO3	Chlorate by IC
CLO4	Perchlorate
CR	Chromium, Total, ICAP
CR-VI	Hexavalent chromium (Cr VI)
NO3RFA	Nitrate + Nitrite as N by RFA
P	Metals sample pH
T	Metals Turbidity



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Report
Comments
#160075

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.

Client Signature: _____

(QC Ref#: 2510280613)

Test: Hexavalent chromium (Cr VI) (MWH SW7196)

H3- Sample was received and analyzed past holding time.

(QC Ref#: 2510280614)

Test: Hexavalent chromium (Cr VI) (MWH SW7196)

H3- Sample was received and analyzed past holding time.

(QC Ref#: 2510280615)

Test: Hexavalent chromium (Cr VI) (MWH SW7196)

H3- Sample was received and analyzed past holding time.



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Laboratory
Hits Report
#160075

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

Samples Received
28-oct-2005 21:13:31

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2510280613	GWTP DISCHARGE				
11/15/05		Chlorate by IC	4900000		ug/l	100000
11/08/05		Chromium, Total, ICAP	0.24		mg/l	0.02
10/28/05		Hexavalent chromium (Cr VI)	0.014		mg/l	0.01
11/13/05		Nitrate + Nitrite as N by RFA	0.56	10	mg/l	0.1
11/07/05		Perchlorate	1400000		ug/l	200000
	2510280614	GWTP WEST WELL FEED				
11/08/05		Chromium, Total, ICAP	2.1		mg/l	0.1
10/28/05		Hexavalent chromium (Cr VI)	2.4		mg/l	0.05
11/07/05		Perchlorate	1800000		ug/l	200000
	2510280615	GWTP EAST WELL FEED				
11/08/05		Chromium, Total, ICAP	16		mg/l	0.2
10/28/05		Hexavalent chromium (Cr VI)	18		mg/l	0.25
11/08/05		Perchlorate	1200000		ug/l	200000

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#160075

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

Samples Received
10/28/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
GWTP DISCHARGE (2510280613)				Sampled on 10/27/05 10:00				
	11/15/05 00:00	295583	(ML/EPA 300.1)	Chlorate by IC	4900000	ug/l	100000	10000
	11/07/05 23:17	294093	(EPA 314)	Perchlorate	1400000	ug/l	200000	50000
	11/08/05 04:05	294043	(MWH200.7/6010B)	Chromium, Total, ICAP	0.24	mg/l	0.02	2
	10/28/05 00:00	294076	(MWH SW7196)	Hexavalent chromium (Cr VI)	0.014 (H3)	mg/l	0.01	2
	11/13/05 00:00	297882	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	0.56	mg/l	0.1	1
GWTP WEST WELL FEED (2510280614)				Sampled on 10/27/05 10:00				
	11/07/05 23:34	294093	(EPA 314)	Perchlorate	1800000	ug/l	200000	50000
	11/08/05 04:08	294043	(MWH200.7/6010B)	Chromium, Total, ICAP	2.1	mg/l	0.1	10
	10/28/05 00:00	294076	(MWH SW7196)	Hexavalent chromium (Cr VI)	2.4 (H3)	mg/l	0.05	10
GWTP EAST WELL FEED (2510280615)				Sampled on 10/27/05 10:00				
	11/08/05 02:41	294093	(EPA 314)	Perchlorate	1200000	ug/l	200000	50000
	11/08/05 04:14	294043	(MWH200.7/6010B)	Chromium, Total, ICAP	16	mg/l	0.2	20
	10/28/05 00:00	294076	(MWH SW7196)	Hexavalent chromium (Cr VI)	18 (H3)	mg/l	0.25	50



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Laboratory
QC Summary
#160075

Tronox LLC - Henderson

QC Ref #294043 - Chromium, Total, ICAP Analysis Date: 11/08/2005

2510280613	GWTP DISCHARGE	Analyzed by: wbh
2510280614	GWTP WEST WELL FEED	Analyzed by: wbh
2510280615	GWTP EAST WELL FEED	Analyzed by: wbh

QC Ref #294076 - Hexavalent chromium (Cr VI) Analysis Date: 10/28/2005

2510280613	GWTP DISCHARGE	Analyzed by: dtn
2510280614	GWTP WEST WELL FEED	Analyzed by: dtn
2510280615	GWTP EAST WELL FEED	Analyzed by: dtn

QC Ref #294093 - Perchlorate Analysis Date: 11/07/2005

2510280613	GWTP DISCHARGE	Analyzed by: bxs
2510280614	GWTP WEST WELL FEED	Analyzed by: bxs
2510280615	GWTP EAST WELL FEED	Analyzed by: bxs

QC Ref #295583 - Chlorate by IC Analysis Date: 11/15/2005

2510280613	GWTP DISCHARGE	Analyzed by: bxs
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QC Ref #297882 - Nitrate + Nitrite as N by RFA Analysis Date: 11/13/2005

2510280613	GWTP DISCHARGE	Analyzed by: ali
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Tronox LLC - Henderson

QC Ref #294043 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.948	MGL	94.8	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.963	MGL	96.3	(85-115)	1.6
MBLK	Chromium, Total, ICAP	ND	<0.01	MGL			
MS	Chromium, Total, ICAP	1.00	0.92	MGL	92.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.92	MGL	92.0	(70-130)	0.00

QC Ref #294076 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	10280614	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.053	MGL	106.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	MGL	102.0	(85-115)	3.8
MBLK	Hexavalent chromium (Cr VI)	ND	<0.005	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.004	MGL	80.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.50	0.47	MGL	94.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.50	0.46	MGL	92.0	(70-130)	2.2

QC Ref #294093 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	25.0	22.6	UGL	90.4	(85-115)	
LCS2	Perchlorate	25.0	22.7	UGL	90.8	(85-115)	0.44
MBLK	Perchlorate	ND	<4	UGL			
MS	Perchlorate	25.0	21.9	UGL	87.6	(70-130)	
MSD	Perchlorate	25.0	22.5	UGL	90.0	(70-130)	2.7

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
#160075

Tronox LLC - Henderson
(continued)

QC Ref #295583

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	11010003	UGL		(0-0)	
LCS1	Chlorate by IC	200	195	UGL	97.5	(75-125)	
LCS2	Chlorate by IC	200	200	UGL	100.0	(75-125)	2.5
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	11.1	UGL	111.0	(50-150)	
MS	Chlorate by IC	100	91	UGL	91.0	(75-125)	
MSD	Chlorate by IC	100	91	UGL	91.0	(75-125)	0.00

QC Ref #297882

Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	11020152	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	1.05	MGL	105.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	1.08	MGL	108.0	(90-110)	2.8
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.1	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.100	0.103	MGL	103.0	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1.0	1.08	MGL	108.0	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.98	MGL	98.0	(90-110)	9.7

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.