



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)

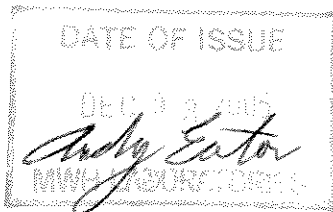
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

Attention: Susan Crowley
Fax: 702-651-2310



ADE Andy Eaton
Project Manager

Report#160656R replaces the original Report.



Report#: 160656R
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].



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

162956

MVLABS 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:

SAMPLE TEMP, RECEIPT AT LAB: 50

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#		IDENTIFIER, STATE ID#		LOCATION		DATE		TIME		MATRIX *	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)						SAMPLER COMMENTS
KERRMCGEE-HP Wendy Prescott Susan Crowley (702) 851-2224		Weekly Cr Consent Order Compliance Samples		Kerr-McGee Chemical LLC PO Box 55 Henderson, NV 89009		GWTP Discharge		10-30-11-13-05		10:00 AM					Total Cr	Hexavalent Chromium	Total Cr	Total Cr	NO ₃ as N		
												X	X	X	X	X	Total Cr sample preserved with HNO ₃				
												X	X	X	X	X	Total Cr sample preserved with HNO ₃				
												X	X	X	X	X	Total Cr sample preserved with HNO ₃				
																	East & West CLO4 added beginning 11-11-04				

* MATRIX TYPES:

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

Reported by Weight:
SO = Soil
SL = Sludge

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

Reported by Volume:

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY:	Wendy Prescott	Wendy Prescott	Veolia Water NA for Kerr-McGee Chemical LLC	11/3/2005	12:00
RECEIVED BY:					
RELINQUISHED BY:	Jeanette Carantes - S/S	Jeanette Carantes		11/4/05	11:05
RECEIVED BY:					

C.O.#



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

Period

W Weekly

Week 1

SO# 26952 16287 RS

Sampler: Please Return this Paper with your samples

0 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

KMCLLC
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#

of Samples Tests

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

UN#

Important Comments

# 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		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 lxxg 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

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#: 160656
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **11/04/05**. 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
2511040134	GWTP DISCHARGE	CLO3 CLO4 CR CR-VI T	Water	03-nov-2005 10:00:00 NO3RFA P
2511040137	GWTP WEST WELL FEED	CLO4 CR CR-VI P	Water	03-nov-2005 10:00:00 T
2511040138	GWTP EAST WELL FEED	CLO4 CR CR-VI P	Water	03-nov-2005 10:00:00 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
#160656

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: _____

Group Comments

Report revised to correct nitrate dilution error

(QC Ref#: 2511040134)

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

H3- Sample was received and analyzed past holding time.

(QC Ref#: 2511040137)

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

H3- Sample was received and analyzed past holding time.

(QC Ref#: 2511040138)

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

H3- Sample was received and analyzed past holding time.



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Laboratory
Hits Report
#160656

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

Samples Received
04-nov-2005 15:37:46

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2511040134	GWTP DISCHARGE				
11/16/05		Chlorate by IC	4700000		ug/l	200000
11/10/05		Chromium, Total, ICAP	0.28		mg/l	0.02
11/13/05		Nitrate + Nitrite as N by RFA	48	10	mg/l	10
11/28/05		Perchlorate	1600000		ug/l	200000
	2511040137	GWTP WEST WELL FEED				
11/10/05		Chromium, Total, ICAP	2.1		mg/l	0.1
11/11/05		Hexavalent chromium (Cr VI)	2.3		mg/l	0.05
11/28/05		Perchlorate	2000000		ug/l	200000
	2511040138	GWTP EAST WELL FEED				
11/10/05		Chromium, Total, ICAP	16		mg/l	0.2
11/04/05		Hexavalent chromium (Cr VI)	18		mg/l	0.5
11/28/05		Perchlorate	1200000		ug/l	200000

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#160656

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

Samples Received
11/04/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
GWTP DISCHARGE (2511040134)				Sampled on 11/03/05 10:00				
	11/16/05 00:00	295945	(ML/EPA 300.1)	Chlorate by IC	4700000	ug/l	200000	20000
	11/28/05 16:07	297470	(EPA 314)	Perchlorate	1600000	ug/l	200000	50000
	11/10/05 19:50	294761	(MWH200.7/6010B)	Chromium, Total, ICAP	0.28	mg/l	0.02	2
	11/11/05 00:00	295078	(MWH SW7196)	Hexavalent chromium (Cr VI)	ND(H3)	mg/l	0.01	2
	11/13/05 00:00	297882	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	48	mg/l	10	100
GWTP WEST WELL FEED (2511040137)				Sampled on 11/03/05 10:00				
	11/28/05 16:24	297470	(EPA 314)	Perchlorate	2000000	ug/l	200000	50000
	11/10/05 20:09	294761	(MWH200.7/6010B)	Chromium, Total, ICAP	2.1	mg/l	0.1	10
	11/11/05 00:00	295078	(MWH SW7196)	Hexavalent chromium (Cr VI)	2.3(H3)	mg/l	0.05	10
GWTP EAST WELL FEED (2511040138)				Sampled on 11/03/05 10:00				
	11/28/05 16:41	297470	(EPA 314)	Perchlorate	1200000	ug/l	200000	50000
	11/10/05 20:18	294761	(MWH200.7/6010B)	Chromium, Total, ICAP	16	mg/l	0.2	20
	11/04/05 00:00	294080	(MWH SW7196)	Hexavalent chromium (Cr VI)	18(H3)	mg/l	0.5	100



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Laboratory
QC Summary
#160656

Tronox LLC - Henderson

QC Ref #294080 - Hexavalent chromium (Cr VI) Analysis Date: 11/04/2005

2511040138 GWTP EAST WELL FEED Analyzed by: dtn

QC Ref #294761 - Chromium, Total, ICAP Analysis Date: 11/10/2005

2511040134 GWTP DISCHARGE Analyzed by: wbh
2511040137 GWTP WEST WELL FEED Analyzed by: wbh
2511040138 GWTP EAST WELL FEED Analyzed by: wbh

QC Ref #295078 - Hexavalent chromium (Cr VI) Analysis Date: 11/11/2005

2511040134 GWTP DISCHARGE Analyzed by: wbh
2511040137 GWTP WEST WELL FEED Analyzed by: wbh

QC Ref #295945 - Chlorate by IC Analysis Date: 11/16/2005

2511040134 GWTP DISCHARGE Analyzed by: bxs

QC Ref #297470 - Perchlorate Analysis Date: 11/28/2005

2511040134 GWTP DISCHARGE Analyzed by: bxs
2511040137 GWTP WEST WELL FEED Analyzed by: bxs
2511040138 GWTP EAST WELL FEED Analyzed by: bxs

QC Ref #297882 - Nitrate + Nitrite as N by RFA Analysis Date: 11/13/2005

2511040134 GWTP DISCHARGE Analyzed by: ali



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Laboratory
QC Report
#160656

Tronox LLC - Henderson

QC Ref #294080 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	11040088	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	MGL	102.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.052	MGL	104.0	(85-115)	1.9
MBLK	Hexavalent chromium (Cr VI)	ND	<0.005	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.006	MGL	120.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.05	0.056	MGL	112.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.05	0.054	MGL	108.0	(70-130)	3.6

QC Ref #294761 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.905	MGL	90.5	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.917	MGL	91.7	(85-115)	1.3
MBLK	Chromium, Total, ICAP	ND	<0.01	MGL			
MS	Chromium, Total, ICAP	1.00	0.944	MGL	94.4	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.946	MGL	94.6	(70-130)	0.21

QC Ref #295078 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	11110158	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	MGL	102.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.050	MGL	100.0	(85-115)	2.0
MBLK	Hexavalent chromium (Cr VI)	ND	<0.005	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.006	MGL	120.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.50	0.47	MGL	94.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.50	0.47	MGL	94.0	(70-130)	0.00

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
#160656

Tronox LLC - Henderson
(continued)

QC Ref #295945 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	11090478	UGL		(0-0)	
LCS1	Chlorate by IC	200	198	UGL	99.0	(75-125)	
LCS2	Chlorate by IC	200	197	UGL	98.5	(75-125)	0.51
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	10.3	UGL	103.0	(50-150)	
MS	Chlorate by IC	100	94	UGL	94.0	(75-125)	
MSD	Chlorate by IC	100	97	UGL	97.0	(75-125)	3.1

QC Ref #297470 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	25.0	24.1	UGL	96.4	(85-115)	
LCS1	Perchlorate	25.0	24.5	UGL	98.0	(85-115)	
MBLK	Perchlorate	ND	<4	UGL			
MS	Perchlorate	25.0	25.2	UGL	100.8	(70-130)	
MSD	Perchlorate	25.0	24.4	UGL	97.6	(70-130)	3.2

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.