



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
Jul 15 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager

Report#270567R replaces the original Report.



Report#: 270567R
Project: CL04
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 17 page[s].



BUILDING A BETTER WORLD

July 15, 2009

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

Subject: Case Narrative report 270567R

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 08, 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 QC issues were observed:

Several samples were analyzed by the colorimetric method for nitrate because of interferences with the RCRA method due to high salts. Samples were tested past hold time out of unpreserved sample bottles because the initial analysis by IC resulted in adequate resolution of peaks.

Hexavalent chromium was received and analyzed past the 24 hour holding time.

Due to inconsistency with historical data 2 samples were re-analyzed for TDS. It appeared that the wrong sample volume was recorded on the initial analysis because results were approximately 10X too high. The rerun results are reported on this revised report.

Other observations:

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

290567

M/LABS USE ONLY:

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

SAMPLES CHECKED/LOGGED IN BY: SR

SAMPLE TEMP, RECEIPT AT LAB: 2

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: KERR/MCGEE-MP
 PROJECT JOB # / P.O.#: Tronox LLC - Henderson Plant
Quarterly Groundwater Sampling
 Schedule B
 Sampler: Michele Brown
Susan Crowley (702) 651-2234
 Tronox LLC - Henderson Plant
 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	CR 6010	PH 9040	TDS	CL04	CRVI 7196	CL03 9056	NO3 9056	See Bottle Order	SAMPLER Comments
550	5-1-09		M-81	RGW	X		X	X	X	X					2 Bottles
1051	5-1-09		M-70	RGW	X		X	X	X	X					2 Bottles
704	5-1-09		M-71	RGW	X		X	X	X	X					2 Bottles
719	5-1-09		M-72	RGW	X		X	X	X	X					2 Bottles
748	5-1-09		M-38	RGW	X		X	X	X	X					2 Bottles
846	5-1-09		M-36	RGW	X		X	X	X	X	X	X			5 Bottles
835	5-1-09		M-84	RGW	X		X	X	X	X	X	X			3 Bottles
815	5-1-09		M-100	RGW	X		X	X	X	X	X	X			2 Bottles
1005	5-1-09		M-10	RGW	X		X	X	X	X	X	X			5 Bottles
	5-1-09		MD-22	RGW	X		X	X	X	X	X	X			5 Bottles
732	5-1-09		M-22A	RGW	X		X	X	X	X	X	X			2 Bottles
803	5-1-09		M-89	RGW	X		X	X	X	X	X	X			2 Bottles

Reported by Weight

SO = Soil
SL = Sludge

Reported by Volume:

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

RGW = Raw Ground Water
RSW = Raw Surface Water

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

RELINQUISHED BY: Michele Brown SIGNATURE: [Signature] PRINT NAME: Michele Brown COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant DATE: 5-1-09 TIME: 12:00PM

RECEIVED BY: [Signature]

RELINQUISHED BY: [Signature]

RECEIVED BY: [Signature]

Bottle Order for Kerr McGee Chemical Company - Henderson

MWH Laboratories, a Division of MWH Americas, Inc.
 750 Royal Oaks Avenue Suite 100
 Monterey CA 91016 (626) 386-1100 FAX (626) 386-1124

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
 A Annual
 Week 1

SO# 47276 **RS** **Sampler: Please Return this Paper with your samples**

Billing Address
 Kerr McGee Henderson Plant
 P.O. Box 55
 Henderson, NV 89009

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

Ship Sample Kits to
 Kerr McGee
 8000 West Lake Mead Drive
 Henderson, NV 89015

Quote# GJY
Important Comments
 ATTN: Susan Crowley
 PHONE: 702-651-2234
 FAX: 702-651-2310
Bottles-Qty for each sample, type & preservative if any

Created by GJY
 Order Date 03/16/09
 Date Needed by Client
 Date Samples to Arrive at MWL
 SHIELD LOCATION

# of Samples	Tests	UN#	Important Comments
16	TOC9060	UN 2796	LANDFILL WELLS:
4	TOX	UN 2796	M-5A, M-6A, M-7A, H-28A
15	PH9040, EC9050	UN 2031	LOGIN - Please assign 4 lab numbers to each of the quadruplicate tests - TOX, TOC, EC, pH
4	SO49056, CL9056	UN 2796	FOR APRIL SAMPLING EVENT
4	FE6010, MN6010, CR6010, NA6010		Testcodes updated 3-16-06
4	PHENOL96		TDS and CLO4 added 6/16/06. (not in quad)
4	TDS		note to login - please add location code on each of these at login - Quad1, Quad2, Quad3, Quad4 for the 4 replicates of each well for
4	CLO4		

Prepared By

Carrier Qty of Coolers Tracking Number

Date Shipped

ActiveCode Status

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#: 270567
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 05/08/09. 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
2905110089	M-87		Water	07-may-2009 05:50:00
		CLO4 CR6010	PH9040 TDS	
2905110090	M-70		Water	07-may-2009 06:52:00
		CLO4 CR6010	PH9040 TDS	
2905110091	M-71		Water	07-may-2009 07:04:00
		CLO4 CR6010	PH9040 TDS	
2905110092	M-72		Water	07-may-2009 07:19:00
		CLO4 CR6010	PH9040 TDS	
2905110093	M-38		Water	07-may-2009 07:48:00
		CLO4 CR6010	PH9040 TDS	
2905110094	M-36		Water	07-may-2009 08:46:00
		CLO39056 CLO4	CR6010 CRVI7196 NO39056 PH9040	
		TDS		
2905110095	M-84		Water	07-may-2009 08:35:00
		CLO4 CR6010	CRVI7196 PH9040 TDS	
2905110096	M-100		Water	07-may-2009 08:15:00
		CLO4 CR6010	CRVI7196 PH9040 TDS	
2905110097	M-10		Water	07-may-2009 10:05:00
		CLO39056 CLO4	CR6010 CRVI7196 NO39056 PH9040	
		TDS		
2905110098	M-2		Water	07-may-2009 00:00:00
		CLO39056 CLO4	CR6010 CRVI7196 NO39056 PH9040	
		TDS		
2905110099	M-22A		Water	07-may-2009 07:32:00
		CLO4 CR6010	PH9040 TDS	
2905110100	M-89		Water	07-may-2009 08:03:00
		CLO4 CR6010	PH9040 TDS	

Test Acronym Description

Test Acronym	Description
CLO39056	Chlorate by IC
CLO4	Perchlorate

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Test Acronym Description

Test Acronym	Description
CR6010	Chromium, Total, ICAP
CRVI7196	Hexavalent chromium (Cr VI)
NO39056	Nitrate as Nitrogen by IC
PH9040	PH (H3-past HT, not compliant)
TDS	Total Dissolved Solid (TDS)



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

Report revised. TDS for 2905110095 and 2905110096. Due to analyst error, the original TDS results was 10x higher the historical results. Rerun results were 1/10 of original data. Data reported with HA flag.

(QC Ref#: 2905110094)

Test: Nitrate + Nitrite as N by RFA (EPA 353.2)

H1 - Sample analysis performed past holding time. Data not acceptable for regulatory compliance.

(QC Ref#: 2905110095)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)

HA - Initial analysis within holding time. Reanalysis was past holding time.

(QC Ref#: 2905110096)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)

HA - Initial analysis within holding time. Reanalysis was past holding time.

(QC Ref#: 2905110097)

Test: Nitrate + Nitrite as N by RFA (EPA 353.2)

H1 - Sample analysis performed past holding time. Data not acceptable for regulatory compliance.

(QC Ref#: 2905110098)

Test: Nitrate + Nitrite as N by RFA (EPA 353.2)

H1 - Sample analysis performed past holding time. Data not acceptable for regulatory compliance.



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Laboratory
Hits Report
#270567

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

Samples Received
08-may-2009 12:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905110089	M-87				
06/09/09		Chromium, Total, ICAP	3.0		mg/l	0.020
05/08/09		PH (H3=past HT, not compliant)	7.6		Units	0.0010
05/29/09		Perchlorate	339000		ug/l	20000
05/14/09		Total Dissolved Solid (TDS)	4190	500	mg/l	10
	2905110090	M-70				
06/08/09		Chromium, Total, ICAP	0.550		mg/l	0.020
05/08/09		PH (H3=past HT, not compliant)	7.7		Units	0.0010
06/03/09		Perchlorate	118000		ug/l	8000
05/14/09		Total Dissolved Solid (TDS)	2780	500	mg/l	10
	2905110091	M-71				
06/08/09		Chromium, Total, ICAP	5.1		mg/l	0.050
05/08/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
05/29/09		Perchlorate	636000		ug/l	40000
05/14/09		Total Dissolved Solid (TDS)	6060	500	mg/l	10
	2905110092	M-72				
06/08/09		Chromium, Total, ICAP	4.6		mg/l	0.050
05/08/09		PH (H3=past HT, not compliant)	7.5		Units	0.0010
05/29/09		Perchlorate	944000		ug/l	40000
05/14/09		Total Dissolved Solid (TDS)	7780	500	mg/l	10
	2905110093	M-38				
06/08/09		Chromium, Total, ICAP	26		mg/l	0.10
05/08/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010

SUMMARY OF POSITIVE DATA ONLY.



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 PO Box 55
 Henderson , NV 89009

Samples Received
 08-may-2009 12:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905110093	M-38				
06/03/09	Perchlorate		1100000		ug/l	80000
05/14/09	Total Dissolved Solid (TDS)		10200	500	mg/l	10
	2905110094	M-36				
05/23/09	Chlorate by IC		7040000		ug/l	200000
06/08/09	Chromium, Total, ICAP		32		mg/l	0.20
05/08/09	Hexavalent chromium (Cr VI)		35.0		mg/l	0.0050
06/19/09	Nitrate + Nitrite as N by RFA		52.7	10	mg/l	1.0
05/08/09	PH (H3=past HT, not compliant)		7.3		Units	0.0010
06/04/09	Perchlorate		1560000		ug/l	80000
05/14/09	Total Dissolved Solid (TDS)		11700	500	mg/l	10
	2905110095	M-84				
06/08/09	Chromium, Total, ICAP		0.056		mg/l	0.010
05/08/09	Hexavalent chromium (Cr VI)		0.120		mg/l	0.0050
05/08/09	PH (H3=past HT, not compliant)		8.0		Units	0.0010
05/29/09	Perchlorate		8360		ug/l	800
07/02/09	Total Dissolved Solid (TDS)		874	500	mg/l	10
	2905110096	M-100				
06/07/09	Chromium, Total, ICAP		0.15		mg/l	0.020
05/08/09	Hexavalent chromium (Cr VI)		0.148		mg/l	0.0050
05/08/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010
06/04/09	Perchlorate		32300		ug/l	2000
07/02/09	Total Dissolved Solid (TDS)		1440	500	mg/l	10
	2905110097	M-10				

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 PO Box 55
 Henderson , NV 89009

Samples Received
 08-may-2009 12:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905110097	M-10				
05/23/09	Chlorate by IC		200000		ug/l	5000
06/08/09	Chromium, Total, ICAP		0.62		mg/l	0.010
06/19/09	Nitrate + Nitrite as N by RFA		2.4	10	mg/l	0.050
05/08/09	PH (H3=past HT, not compliant)		7.3		Units	0.0010
06/04/09	Perchlorate		23900		ug/l	2000
05/14/09	Total Dissolved Solid (TDS)		3210	500	mg/l	10
	2905110098	MD-2				
05/23/09	Chlorate by IC		7420000		ug/l	200000
06/08/09	Chromium, Total, ICAP		32		mg/l	0.20
05/08/09	Hexavalent chromium (Cr VI)		35.0		mg/l	0.0050
06/19/09	Nitrate + Nitrite as N by RFA		51.4	10	mg/l	1.0
05/08/09	PH (H3=past HT, not compliant)		7.3		Units	0.0010
06/04/09	Perchlorate		1450000		ug/l	80000
05/14/09	Total Dissolved Solid (TDS)		11900	500	mg/l	10
	2905110099	M-22A				
06/08/09	Chromium, Total, ICAP		32		mg/l	0.20
05/08/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
06/04/09	Perchlorate		1750000		ug/l	80000
05/14/09	Total Dissolved Solid (TDS)		10800	500	mg/l	10
	2905110100	M-89				
06/08/09	Chromium, Total, ICAP		25		mg/l	0.10
05/08/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
06/04/09	Perchlorate		968000		ug/l	40000

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Hits Report
#270567

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

Samples Received
08-may-2009 12:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905110100	M-89				
05/14/09	Total Dissolved Solid (TDS)		12800	500	mg/l	10



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

Samples Received
 05/08/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-87 (2905110089)				Sampled on 05/07/09 05:50				
	05/29/09 00:00	486375	(EPA 314)	Perchlorate	339000	ug/l	20000	5000
06/05/09	06/09/09 11:56	487356	(ML/EPA 6010B)	Chromium, Total, ICAP	3.0	mg/l	0.020	2
	05/08/09 15:15	484259	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4190	mg/l	10	1
M-70 (2905110090)				Sampled on 05/07/09 06:52				
	06/03/09 10:17	486887	(EPA 314)	Perchlorate	118000	ug/l	8000	2000
06/03/09	06/08/09 00:00	487112	(ML/EPA 6010B)	Chromium, Total, ICAP	0.550	mg/l	0.020	2
	05/08/09 15:15	484259	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2780	mg/l	10	1
M-71 (2905110091)				Sampled on 05/07/09 07:04				
	05/29/09 00:00	486375	(EPA 314)	Perchlorate	636000	ug/l	40000	10000
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B)	Chromium, Total, ICAP	5.1	mg/l	0.050	5
	05/08/09 15:15	484259	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6060	mg/l	10	1
M-72 (2905110092)				Sampled on 05/07/09 07:19				
	05/29/09 00:00	486375	(EPA 314)	Perchlorate	944000	ug/l	40000	10000
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B)	Chromium, Total, ICAP	4.6	mg/l	0.050	5
	05/08/09 15:15	484259	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7780	mg/l	10	1
M-38 (2905110093)				Sampled on 05/07/09 07:48				
	06/03/09 10:17	486887	(EPA 314)	Perchlorate	1100000	ug/l	80000	20000
06/03/09	06/08/09 00:00	487112	(ML/EPA 6010B)	Chromium, Total, ICAP	26	mg/l	0.10	10
	05/08/09 15:15	484259	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	10200	mg/l	10	1



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Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-36 (2905110094) Sampled on 05/07/09 08:46								
	05/23/09 00:00	485939	(ML/EPA 9056)	Chlorate by IC	7040000	ug/l	200000	20000
	06/04/09 00:00	487085	(EPA 314)	Perchlorate	1560000	ug/l	80000	20000
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B)	Chromium, Total, ICAP	32	mg/l	0.20	20
	05/08/09 17:18	486007	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	35.0	mg/l	0.0050	1
	06/19/09 17:55	488730	(EPA 353.2)	Nitrate + Nitrite as N by RFA	52.7(H1)	mg/l	1.0	20
	05/08/09 15:15	484259	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	11700	mg/l	10	1
M-84 (2905110095) Sampled on 05/07/09 08:35								
	05/29/09 00:00	486375	(EPA 314)	Perchlorate	8360	ug/l	800	200
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B)	Chromium, Total, ICAP	0.056	mg/l	0.010	1
	05/08/09 17:18	486007	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	0.120	mg/l	0.0050	1
	05/08/09 15:15	484259	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	8.0	Units	0.0010	1
05/14/09	07/02/09 17:35	489743	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	874(HA)	mg/l	10	1
M-100 (2905110096) Sampled on 05/07/09 08:15								
	06/04/09 00:00	487085	(EPA 314)	Perchlorate	32300	ug/l	2000	500
06/01/09	06/07/09 00:00	487102	(ML/EPA 6010B)	Chromium, Total, ICAP	0.15	mg/l	0.020	2
	05/08/09 17:18	486007	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	0.148	mg/l	0.0050	1
	05/08/09 15:15	484259	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
05/14/09	07/02/09 17:35	489743	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	1440(HA)	mg/l	10	1
M-10 (2905110097) Sampled on 05/07/09 10:05								
	05/23/09 00:00	485939	(ML/EPA 9056)	Chlorate by IC	200000	ug/l	5000	500
	06/04/09 00:00	487085	(EPA 314)	Perchlorate	23900	ug/l	2000	500
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B)	Chromium, Total, ICAP	0.62	mg/l	0.010	1
	05/08/09 17:18	486007	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.0050	1
	06/19/09 17:55	488730	(EPA 353.2)	Nitrate + Nitrite as N by RFA	2.4(H1)	mg/l	0.050	1
	05/08/09 15:58	484260	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
05/14/09	05/14/09 10:10	484912	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3210	mg/l	10	1



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Tronox LLC - Henderson
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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
MD-2 (2905110098)		Sampled on 05/07/09 00:00						
	05/23/09 00:00	485939	(ML/EPA 9056)	Chlorate by IC	7420000	ug/l	200000	20000
	06/04/09 15:41	487101	(EPA 314)	Perchlorate	1450000	ug/l	80000	20000
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B)	Chromium, Total, ICAP	32	mg/l	0.20	20
	05/08/09 17:18	486007	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	35.0	mg/l	0.0050	1
	06/19/09 17:55	488730	(EPA 353.2)	Nitrate + Nitrite as N by RFA	51.4(H1)	mg/l	1.0	20
	05/08/09 15:58	484260	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	11900	mg/l	10	1
M-22A (2905110099)		Sampled on 05/07/09 07:32						
	06/04/09 00:00	487085	(EPA 314)	Perchlorate	1750000	ug/l	80000	20000
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B)	Chromium, Total, ICAP	32	mg/l	0.20	20
	05/08/09 15:58	484260	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	10800	mg/l	10	1
M-89 (2905110100)		Sampled on 05/07/09 08:03						
	06/04/09 00:00	487085	(EPA 314)	Perchlorate	968000	ug/l	40000	10000
06/03/09	06/08/09 00:00	487112	(ML/EPA 6010B)	Chromium, Total, ICAP	25	mg/l	0.10	10
	05/08/09 15:58	484260	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	12800	mg/l	10	1



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QC Ref #484259 - PH (H3=past HT, not compliant) Analysis Date: 05/08/2009

2905110089	M-87	Analyzed by: sar
2905110090	M-70	Analyzed by: sar
2905110091	M-71	Analyzed by: sar
2905110092	M-72	Analyzed by: sar
2905110093	M-38	Analyzed by: sar
2905110094	M-36	Analyzed by: sar
2905110095	M-84	Analyzed by: sar
2905110096	M-100	Analyzed by: sar

QC Ref #484260 - PH (H3=past HT, not compliant) Analysis Date: 05/08/2009

2905110097	M-10	Analyzed by: sar
2905110098	MD-2	Analyzed by: sar
2905110099	M-22A	Analyzed by: sar
2905110100	M-89	Analyzed by: sar

QC Ref #484912 - Total Dissolved Solid (TDS) Analysis Date: 05/14/2009

2905110097	M-10	Analyzed by: maria
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QC Ref #484913 - Total Dissolved Solid (TDS) Analysis Date: 05/14/2009

2905110089	M-87	Analyzed by: maria
2905110090	M-70	Analyzed by: maria
2905110091	M-71	Analyzed by: maria
2905110092	M-72	Analyzed by: maria
2905110093	M-38	Analyzed by: maria
2905110094	M-36	Analyzed by: maria
2905110098	MD-2	Analyzed by: maria
2905110099	M-22A	Analyzed by: maria
2905110100	M-89	Analyzed by: maria

QC Ref #485939 - Chlorate by IC Analysis Date: 05/23/2009

2905110094	M-36	Analyzed by: ser
2905110097	M-10	Analyzed by: ser
2905110098	MD-2	Analyzed by: ser



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QC Ref #486007 - Hexavalent chromium (Cr VI) Analysis Date: 05/08/2009

2905110094	M-36	Analyzed by: kxs
2905110095	M-84	Analyzed by: kxs
2905110096	M-100	Analyzed by: kxs
2905110097	M-10	Analyzed by: kxs
2905110098	MD-2	Analyzed by: kxs

QC Ref #486375 - Perchlorate Analysis Date: 05/29/2009

2905110089	M-87	Analyzed by: ser
2905110091	M-71	Analyzed by: ser
2905110092	M-72	Analyzed by: ser
2905110095	M-84	Analyzed by: ser

QC Ref #486887 - Perchlorate Analysis Date: 06/03/2009

2905110090	M-70	Analyzed by: ser
2905110093	M-38	Analyzed by: ser

QC Ref #487085 - Perchlorate Analysis Date: 06/04/2009

2905110094	M-36	Analyzed by: ser
2905110096	M-100	Analyzed by: ser
2905110097	M-10	Analyzed by: ser
2905110099	M-22A	Analyzed by: ser
2905110100	M-89	Analyzed by: ser

QC Ref #487101 - Perchlorate Analysis Date: 06/04/2009

2905110098	MD-2	Analyzed by: ser
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QC Ref #487102 - Chromium, Total, ICAP		Analysis Date: 06/07/2009
2905110096	M-100	Analyzed by: csk
QC Ref #487106 - Chromium, Total, ICAP		Analysis Date: 06/08/2009
2905110091	M-71	Analyzed by: csk
2905110092	M-72	Analyzed by: csk
2905110094	M-36	Analyzed by: csk
2905110095	M-84	Analyzed by: csk
2905110097	M-10	Analyzed by: csk
2905110098	MD-2	Analyzed by: csk
2905110099	M-22A	Analyzed by: csk
QC Ref #487112 - Chromium, Total, ICAP		Analysis Date: 06/08/2009
2905110090	M-70	Analyzed by: csk
2905110093	M-38	Analyzed by: csk
2905110100	M-89	Analyzed by: csk
QC Ref #487356 - Chromium, Total, ICAP		Analysis Date: 06/09/2009
2905110089	M-87	Analyzed by: csk
QC Ref #488730 - Nitrate + Nitrite as N by RFA		Analysis Date: 06/19/2009
2905110094	M-36	Analyzed by: azs
2905110097	M-10	Analyzed by: azs
2905110098	MD-2	Analyzed by: azs
QC Ref #489743 - Total Dissolved Solid (TDS)		Analysis Date: 07/02/2009
2905110095	M-84	Analyzed by: jrf
2905110096	M-100	Analyzed by: jrf



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QC Ref #484259 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.90	7.88	UNIT		(0-20)	0.3

QC Ref #484260 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.98	7.95	UNIT		(0-20)	0.4

QC Ref #484912 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05080019	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	534	530	MGL		(0-10)	0.8
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	640	MGL	91.4	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	11	MGL	110.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	97.143	91.429	MGL	6.1	(0-20)	

QC Ref #484913 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05110078	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	2610	2600	MGL		(0-10)	0.4
LCS1	Total Dissolved Solid (TDS)	175	186	MGL	106.3	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	712	MGL	101.7	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	10	MGL	100.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	106.286	101.714	MGL	4.4	(0-20)	

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QC Ref #485939

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210040	UGL		(0-0)	
LCS1	Chlorate by IC	200	201	UGL	100.5	(90-110)	
LCS2	Chlorate by IC	200	201	UGL	100.5	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	8.99	UGL	89.9	(50-150)	
MS	Chlorate by IC	100	102	UGL	102.0	(75-125)	
MSD	Chlorate by IC	100	102	UGL	102.0	(75-125)	
RPD_LCS	Chlorate by IC	100.500	100.500	UGL	0.0	(0-20)	
RPD_MS	Chlorate by IC	102.000	102.000	UGL	0.0	(0-20)	

QC Ref #486007

Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05120005	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.052	MGL	104.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.055	MGL	110.0	(85-115)	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.005	MGL	100.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.05	0.056	MGL	112.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.05	0.055	MGL	110.0	(70-130)	

QC Ref #486375

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05200254	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.1	UGL	96.4	(85-115)	
LCS2	Perchlorate	25.0	25.0	UGL	100.0	(85-115)	
LCS3	Perchlorate	4	4.34	UGL	108.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			

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MS	Perchlorate	25.0	24.9	UGL	99.6	(80-120)
MSD	Perchlorate	25.0	25.1	UGL	100.4	(80-120)
RPD_LCS	Perchlorate	96.400	100.000	UGL	3.7	(0-15)
RPD_MS	Perchlorate	99.600	100.400	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)	
RPD_LCS	Perchlorate	100.800	98.000	UGL	2.8	(0-15)	
RPD_MS	Perchlorate	104.400	98.800	UGL	0.9	(0-15)	

QC Ref #487085 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05200013	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	
LCS2	Perchlorate	25.0	26.2	UGL	104.8	(85-115)	
LCS3	Perchlorate	4	4.93	UGL	123.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	26.8	UGL	107.2	(80-120)	
MSD	Perchlorate	25.0	28.9	UGL	115.6	(80-120)	
RPD_LCS	Perchlorate	100.800	104.800	UGL	3.9	(0-15)	
RPD_MS	Perchlorate	107.200	115.600	UGL	1.1	(0-15)	

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QC Ref #487101 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05130175	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.0	UGL	96.0	(85-115)	
LCS2	Perchlorate	25.0	23.6	UGL	94.4	(85-115)	
LCS3	Perchlorate	4	3.06	UGL	76.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.4	UGL	101.6	(80-120)	
MSD	Perchlorate	25.0	25.0	UGL	100.0	(80-120)	
RPD_LCS	Perchlorate	96.000	94.400	UGL	1.7	(0-15)	
RPD_MS	Perchlorate	101.600	100.000	UGL	1.0	(0-15)	

QC Ref #487102 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060129	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0103	MGL	103.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.911	MGL	91.1	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.978	MGL	97.8	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.921	MGL	92.1	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.937	MGL	93.7	(70-130)	

QC Ref #487106 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05110095	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)	

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MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.06	MGL	106.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.991	MGL	99.1	(70-130)	

QC Ref #487112 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab #29	05120265	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0106	MGL	106.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.831	MGL	83.1	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.997	MGL	99.7	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.941	MGL	94.1	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.958	MGL	95.8	(70-130)	

QC Ref #487356 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05200129	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.09	MGL	109.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0102	MGL	102.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.877	MGL	87.7	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.925	MGL	92.5	(70-130)	

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Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
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QC Ref #488730 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 200906050259		MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.930	MGL	93.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.935	MGL	93.5	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.050	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.0340	MGL	68.0	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1.0	0.963	MGL	96.3	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.965	MGL	96.5	(90-110)	

QC Ref #489743 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	03040357	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	440	444	MGL		(0-10)	0.9
LCS1	Total Dissolved Solid (TDS)	175	172	MGL	98.3	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	690	MGL	98.6	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	10	MGL	100.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	98.286	98.571	MGL	0.3	(0-20)	

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