



# 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)

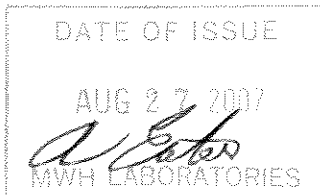
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

Attention: Susan Crowley  
Fax: (405) 302-4607



ADE Andy Eaton  
Project Manager



Report#: 211999  
Project: CL04  
PO#: Susan Crowle

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 15 page[s].



## **MWH Laboratories**

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August 27, 2007

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

Subject: Case Narrative report 211999

Enclosed is MWH Laboratories Report 211999

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on August 1, 2007 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:

TDS on one sample (M-37) was performed within hold time and then repeated outside of holding time because the initial TDS was not consistent with historical data. The past hold time result is reported.

Sincerely,

Andrew Eaton, PhD  
Project Manager



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

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: *[Signature]*

SAMPLE TEMP, RECEIPT AT LAB: *[Signature]*

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED *[initials]*

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: PROJECT JOB # / P.O.#  
 Schedule B  
 KERRMCGEE-MP  
 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	PH 9040	TDS	CLO4	CRVI 7196	CLO3 9056	NO3 9056	See Bottle Order	SAMPLER Comments
7:21	7-31-07	M-64	RGW	RGW	X		X	X	X					2 Bottles
7:43	7-31-07	M-65	RGW	RGW	X		X	X	X					2 Bottles
7:58	7-31-07	M-66	RGW	RGW	X		X	X	X					2 Bottles
8:23	7-31-07	M-57A	RGW	RGW	X		X	X	X					2 Bottles
8:40	7-31-07	M-19	RGW	RGW	X		X	X	X					2 Bottles
8:57	7-31-07	M-69	RGW	RGW	X		X	X	X					2 Bottles
9:10	7-31-07	M-99	RGW	RGW	X		X	X	X					2 Bottles
9:25	7-31-07	M-98	RGW	RGW	X		X	X	X					2 Bottles
12:29	7-31-07	M-25	RGW	RGW	X		X	X	X					2 Bottles
12:46	7-31-07	M-34	RGW	RGW	X		X	X	X	X				3 Bottles
12:52	7-31-07	EO-1	RGW	RGW	X		X	X	X	X				3 Bottles
	7-31-07	MD-4	RGW	RGW	X		X	X	X	X				2 Bottles

\* MATRIX TYPES: Reported by Volume: CFW = Chlor(amin)ated Finished Water, FW = Other Finished Water  
 Reported by Weight: SO = Soil, SL = Sludge  
 RGW = Raw Ground Water, RSW = Raw Surface Water  
 CWW = Chlorinated Waste Water, WW = Other Waste Water, SW = Storm Water

SIGNATURE: *[Signature]* PRINT NAME: Michele Brown  
 COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant  
 DATE: 7-31-07 TIME: 12:00PM  
 RECEIVED BY: *[Signature]*  
 RECEIVED BY: *[Signature]* DATE: 8-1-07 TIME: 10:00





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**

Client Code KERRMCGEE-MP      Q Quarterly      Period  
 Project Code CLC4      Week 1  
 PO# / Job#  
 Blanket PO

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

SO# 36799 33899 RS

**Sampler: Please Return this Paper with your samples**

Created by 0 Ship Sample Kits to  
 Order Date 06/12/07 Tronox LLC-Veolia Water  
 Gate 1  
 Date Needed 8000 West Lake Mead Drive  
 by Client Henderson, NV 89015

**Billing Address**

Tronox LLC  
 P.O. Box 3049  
 Livonia, MI 48150

ATTN: Susan Crowley .....      ATTN: Susan Crowley .....      Quote#  
 PHONE: 702-651-2234 .....      PHONE: 702-651-2234 .....        
 FAX: 702-651-2310 .....      FAX: 702-651-2310 .....     

**SHIP LOCATION**

# 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
101	CR6010	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS
101	CLO4, TDS, PH9040	1 500 ml poly /no preservative	-	First, Third, and fourth quarters
15	CRV17196	1 125ml poly acid rinsed/ no preservative SHORT HOLDING TIME!!!!	-	NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht
-	-	-	-	TDS count increased to 101 effective 6/16/06;; deleted EC as of 7-14-06
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	

**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#: 211999  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **08/01/07**. 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
2708010219	M-64	CLO4 CR6010	Water P PH9040	31-jul-2007 07:31:00 TDS
2708010220	M-65	CLO4 CR6010	Water P PH9040	31-jul-2007 07:43:00 TDS
2708010221	M-66	CLO4 CR6010	Water P PH9040	31-jul-2007 07:58:00 TDS
2708010222	M-57A	CLO4 CR6010	Water P PH9040	31-jul-2007 08:23:00 TDS
2708010223	M-79	CLO4 CR6010	Water P PH9040	31-jul-2007 08:40:00 TDS
2708010224	M-69	CLO4 CR6010	Water P PH9040	31-jul-2007 08:57:00 TDS
2708010225	M-99	CLO4 CR6010	Water P PH9040	31-jul-2007 09:10:00 TDS
2708010226	M-98	CLO4 CR6010	Water P PH9040	31-jul-2007 09:25:00 TDS
2708010227	M-25	CLO4 CR6010	Water P PH9040	31-jul-2007 12:29:00 TDS
2708010228	M-37	CLO4 CR6010	Water CRVI7196 P PH9040	31-jul-2007 12:46:00 TDS
2708010229	EB-1	CLO4 CR6010	Water CRVI7196 P PH9040	31-jul-2007 12:52:00 TDS
2708010230	MD-4	CLO4 CR6010	Water P PH9040	31-jul-2007 00:00:00 TDS

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
CRVI7196	Hexavalent chromium (Cr VI)

Tronox LLC - Henderson  
PO Box 55  
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Attn: Susan Crowley  
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Customer Code: KERRMCGEE-MP  
PO#: Susan Crowley PO  
Group#: 211999  
Project#: CLO4  
Proj Mgr: Andrew Eaton  
Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
P	Metals sample pH
PH9040	PH (H3=past HT, not compliant)
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



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Report  
Comments  
#211999

**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: \_\_\_\_\_

A handwritten signature in cursive script, appearing to read "A. E. ...", written over a horizontal line.

(QC Ref#: 2708010228)

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

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



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Laboratory  
Hits Report  
#211999

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

Samples Received  
01-aug-2007 13:37:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2708010219</b>	<b>M-64</b>				
08/06/07	Chromium, Total, ICAP		8.2		mg/l	0.050
08/03/07	Metals digestion performed.		Y		Yes/No	
08/02/07	PH (H3=past HT, not compliant)		7.5		Units	0.0010
08/03/07	Perchlorate		821000		ug/l	200000
08/03/07	Total Dissolved Solid (TDS)		8170	500	mg/l	10
	<b>2708010220</b>	<b>M-65</b>				
08/06/07	Chromium, Total, ICAP		33		mg/l	0.20
08/03/07	Metals digestion performed.		Y		Yes/No	
08/02/07	PH (H3=past HT, not compliant)		7.2		Units	0.0010
08/03/07	Perchlorate		1460000		ug/l	200000
08/03/07	Total Dissolved Solid (TDS)		18700	500	mg/l	10
	<b>2708010221</b>	<b>M-66</b>				
08/06/07	Chromium, Total, ICAP		32		mg/l	0.20
08/03/07	Metals digestion performed.		Y		Yes/No	
08/02/07	PH (H3=past HT, not compliant)		7.2		Units	0.0010
08/03/07	Perchlorate		1800000		ug/l	200000
08/03/07	Total Dissolved Solid (TDS)		18600	500	mg/l	10
	<b>2708010222</b>	<b>M-57A</b>				
08/06/07	Chromium, Total, ICAP		0.083		mg/l	0.020
08/03/07	Metals digestion performed.		Y		Yes/No	
08/02/07	PH (H3=past HT, not compliant)		7.8		Units	0.0010
08/03/07	Perchlorate		23900		ug/l	2000
08/03/07	Total Dissolved Solid (TDS)		3060	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.





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#211999

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Susan Crowley  
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Samples Received  
01-aug-2007 13:37:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2708010223	M-79				
	2708010223	M-79				
08/06/07	Chromium, Total, ICAP		0.50		mg/l	0.020
08/03/07	Metals digestion performed.		Y		Yes/No	
08/02/07	PH (H3=past HT, not compliant)		7.8		Units	0.0010
08/08/07	Perchlorate		134000		ug/l	20000
08/03/07	Total Dissolved Solid (TDS)		2350	500	mg/l	10
	2708010224	M-69				
08/06/07	Chromium, Total, ICAP		0.071		mg/l	0.020
08/03/07	Metals digestion performed.		Y		Yes/No	
08/02/07	PH (H3=past HT, not compliant)		7.5		Units	0.0010
08/03/07	Perchlorate		464000		ug/l	200000
08/03/07	Total Dissolved Solid (TDS)		4050	500	mg/l	10
	2708010225	M-99				
08/06/07	Chromium, Total, ICAP		1.1		mg/l	0.020
08/03/07	Metals digestion performed.		Y		Yes/No	
08/02/07	PH (H3=past HT, not compliant)		7.5		Units	0.0010
08/03/07	Perchlorate		905000		ug/l	200000
08/03/07	Total Dissolved Solid (TDS)		5760	500	mg/l	10
	2708010226	M-98				
08/06/07	Chromium, Total, ICAP		0.089		mg/l	0.020
08/03/07	Metals digestion performed.		Y		Yes/No	
08/02/07	PH (H3=past HT, not compliant)		7.7		Units	0.0010

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Hits Report  
#211999

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Susan Crowley  
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Samples Received  
01-aug-2007 13:37:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2708010226</b>	<b>M-98</b>				
08/03/07	Perchlorate		19400		ug/l	2000
08/03/07	Total Dissolved Solid (TDS)		3620	500	mg/l	10
	<b>2708010227</b>	<b>M-25</b>				
08/06/07	Chromium, Total, ICAP		12		mg/l	0.050
08/03/07	Metals digestion performed.		Y		Yes/No	
08/03/07	PH (H3=past HT, not compliant)		7.4		Units	0.0010
08/04/07	Perchlorate		492000		ug/l	40000
08/03/07	Total Dissolved Solid (TDS)		9400	500	mg/l	10
	<b>2708010228</b>	<b>M-37</b>				
08/06/07	Chromium, Total, ICAP		0.033		mg/l	0.020
08/03/07	Metals digestion performed.		Y		Yes/No	
08/03/07	PH (H3=past HT, not compliant)		7.4		Units	0.0010
08/06/07	Perchlorate		2590000		ug/l	200000
08/09/07	Total Dissolved Solid (TDS)		5950	500	mg/l	10
	<b>2708010229</b>	<b>EB-1</b>				
08/03/07	Metals digestion performed.		Y		Yes/No	
08/03/07	PH (H3=past HT, not compliant)		6.5		Units	0.0010
08/06/07	Perchlorate		1720		ug/l	400
	<b>2708010230</b>	<b>MD-4</b>				
08/06/07	Chromium, Total, ICAP		0.073		mg/l	0.020
08/03/07	Metals digestion performed.		Y		Yes/No	
08/03/07	PH (H3=past HT, not compliant)		7.6		Units	0.0010

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Hits Report  
#211999

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Susan Crowley  
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Samples Received  
01-aug-2007 13:37:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2708010230	MD-4				
08/06/07	Perchlorate		423000		ug/l	40000
08/02/07	Total Dissolved Solid (TDS)		4490	500	mg/l	10

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Laboratory  
Data Report  
#211999

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

Samples Received  
08/01/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-64 (2708010219)</b>			<b>Sampled on 07/31/07 07:31</b>					
	08/03/07 12:20	379843	( EPA 314 )	Perchlorate	821000	ug/l	200000	50000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	8.2	mg/l	0.050	5
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/02/07 00:00	379538	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	8170	mg/l	10	1
<b>M-65 (2708010220)</b>			<b>Sampled on 07/31/07 07:43</b>					
	08/03/07 12:20	379843	( EPA 314 )	Perchlorate	1460000	ug/l	200000	50000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	33	mg/l	0.20	20
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/02/07 00:00	379538	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.2	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	18700	mg/l	10	1
<b>M-66 (2708010221)</b>			<b>Sampled on 07/31/07 07:58</b>					
	08/03/07 12:20	379843	( EPA 314 )	Perchlorate	1800000	ug/l	200000	50000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	32	mg/l	0.20	20
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/02/07 00:00	379538	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.2	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	18600	mg/l	10	1
<b>M-57A (2708010222)</b>			<b>Sampled on 07/31/07 08:23</b>					
	08/03/07 12:20	379843	( EPA 314 )	Perchlorate	23900	ug/l	2000	500
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	0.083	mg/l	0.020	2
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/02/07 00:00	379538	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3060	mg/l	10	1



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Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-79 (2708010223)                    Sampled on 07/31/07 08:40</b>								
	08/08/07 11:10	380214	( EPA 314 )	Perchlorate	134000	ug/l	20000	5000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	0.50	mg/l	0.020	2
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/02/07 00:00	379538	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	2350	mg/l	10	1
<b>M-69 (2708010224)                    Sampled on 07/31/07 08:57</b>								
	08/03/07 12:20	379843	( EPA 314 )	Perchlorate	464000	ug/l	200000	50000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	0.071	mg/l	0.020	2
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/02/07 00:00	379538	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	4050	mg/l	10	1
<b>M-99 (2708010225)                    Sampled on 07/31/07 09:10</b>								
	08/03/07 12:20	379843	( EPA 314 )	Perchlorate	905000	ug/l	200000	50000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	1.1	mg/l	0.020	2
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/02/07 00:00	379538	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	5760	mg/l	10	1
<b>M-98 (2708010226)                    Sampled on 07/31/07 09:25</b>								
	08/03/07 12:20	379843	( EPA 314 )	Perchlorate	19400	ug/l	2000	500
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	0.089	mg/l	0.020	2
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/02/07 00:00	379538	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3620	mg/l	10	1
<b>M-25 (2708010227)                    Sampled on 07/31/07 12:29</b>								
	08/04/07 00:17	379847	( EPA 314 )	Perchlorate	492000	ug/l	40000	10000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	12	mg/l	0.050	5
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/03/07 00:00	381172	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	9400	mg/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-37 (2708010228)                    Sampled on 07/31/07 12:46</b>								
	08/06/07 10:51	380192	( EPA 314 )	Perchlorate	2590000	ug/l	200000	50000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	0.033	mg/l	0.020	2
	08/01/07 13:09	379410	( ML/EPS 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.10	20
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/03/07 00:00	381172	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
08/09/07	08/09/07 12:00	380434	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	5950 (HA)	mg/l	10	1
<b>EB-1 (2708010229)                    Sampled on 07/31/07 12:52</b>								
	08/06/07 10:51	380192	( EPA 314 )	Perchlorate	1720	ug/l	400	100
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	08/01/07 13:05	379410	( ML/EPS 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.0050	1
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/03/07 00:00	381172	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	6.5	Units	0.0010	1
08/03/07	08/03/07 15:00	379984	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	ND	mg/l	10	1
<b>MD-4 (2708010230)                    Sampled on 07/31/07 00:00</b>								
	08/06/07 10:51	380192	( EPA 314 )	Perchlorate	423000	ug/l	40000	10000
08/02/07	08/06/07 00:00	379965	( ML/EPA 6010B )	Chromium, Total, ICAP	0.073	mg/l	0.020	2
	08/03/07 12:10		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	08/03/07 00:00	381172	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
08/02/07	08/02/07 12:00	379891	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	4490	mg/l	10	1



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QC Ref #379410 - Hexavalent chromium (Cr VI) Analysis Date: 08/01/2007

2708010228	M-37	Analyzed by: wbh
2708010229	EB-1	Analyzed by: wbh

QC Ref #379538 - PH (H3=past HT, not compliant) Analysis Date: 08/02/2007

2708010219	M-64	Analyzed by: faj
2708010220	M-65	Analyzed by: faj
2708010221	M-66	Analyzed by: faj
2708010222	M-57A	Analyzed by: faj
2708010223	M-79	Analyzed by: faj
2708010224	M-69	Analyzed by: faj
2708010225	M-99	Analyzed by: faj
2708010226	M-98	Analyzed by: faj

QC Ref #379843 - Perchlorate Analysis Date: 08/03/2007

2708010219	M-64	Analyzed by: clv
2708010220	M-65	Analyzed by: clv
2708010221	M-66	Analyzed by: clv
2708010222	M-57A	Analyzed by: clv
2708010224	M-69	Analyzed by: clv
2708010225	M-99	Analyzed by: clv
2708010226	M-98	Analyzed by: clv

QC Ref #379847 - Perchlorate Analysis Date: 08/04/2007

2708010227	M-25	Analyzed by: clv
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QC Ref #379891 - Total Dissolved Solid (TDS) Analysis Date: 08/02/2007

2708010230	MD-4	Analyzed by: yvette
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QC Ref #379965 - Chromium, Total, ICAP Analysis Date: 08/06/2007

2708010219	M-64	Analyzed by: dyh
2708010220	M-65	Analyzed by: dyh
2708010221	M-66	Analyzed by: dyh
2708010222	M-57A	Analyzed by: dyh



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2708010223	M-79	Analyzed by: dyh
2708010224	M-69	Analyzed by: dyh
2708010225	M-99	Analyzed by: dyh
2708010226	M-98	Analyzed by: dyh
2708010227	M-25	Analyzed by: dyh
2708010228	M-37	Analyzed by: dyh
2708010229	EB-1	Analyzed by: dyh
2708010230	MD-4	Analyzed by: dyh

**QC Ref #379984 - Total Dissolved Solid (TDS) Analysis Date: 08/03/2007**

2708010219	M-64	Analyzed by: yvette
2708010220	M-65	Analyzed by: yvette
2708010221	M-66	Analyzed by: yvette
2708010222	M-57A	Analyzed by: yvette
2708010223	M-79	Analyzed by: yvette
2708010224	M-69	Analyzed by: yvette
2708010225	M-99	Analyzed by: yvette
2708010226	M-98	Analyzed by: yvette
2708010227	M-25	Analyzed by: yvette
2708010229	EB-1	Analyzed by: yvette

**QC Ref #380192 - Perchlorate Analysis Date: 08/06/2007**

2708010228	M-37	Analyzed by: clv
2708010229	EB-1	Analyzed by: clv
2708010230	MD-4	Analyzed by: clv

**QC Ref #380214 - Perchlorate Analysis Date: 08/08/2007**

2708010223	M-79	Analyzed by: clv
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**QC Ref #380434 - Total Dissolved Solid (TDS) Analysis Date: 08/09/2007**

2708010228	M-37	Analyzed by: yvette
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QC Ref #381172 - PH (H3=past HT, not compliant) Analysis Date: 08/03/2007

2708010227	M-25	Analyzed by: faj
2708010228	M-37	Analyzed by: faj
2708010229	EB-1	Analyzed by: faj
2708010230	MD-4	Analyzed by: faj



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QC Ref #379410                      Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	08010228	MGL		( 0-0 )	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	MGL	102.0	( 85-115 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.053	MGL	106.0	( 85-115 )	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.004	MGL	80.0	( 50-150 )	
MS	Hexavalent chromium (Cr VI)	1.00	0.98	MGL	98.0	( 70-130 )	
MSD	Hexavalent chromium (Cr VI)	1.00	1.00	MGL	100.0	( 70-130 )	

QC Ref #379538                      PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	8.43	8.42	UNIT		( 0-20 )	0.1

QC Ref #379843                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	07310411	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	26.5	UGL	106.0	( 85-115 )	
LCS2	Perchlorate	25.0	25.9	UGL	103.6	( 85-115 )	
LCS3	Perchlorate	4	4.53	UGL	113.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.0	UGL	100.0	( 80-120 )	
MSD	Perchlorate	25.0	25.6	UGL	102.4	( 80-120 )	
RPD_LCS	Perchlorate	106.000	103.600	UGL	2.3	( 0-15 )	
RPD_MS	Perchlorate	100.000	102.400	UGL	1.0	( 0-15 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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QC Ref #379847

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	08020557	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	27.2	UGL	108.8	( 85-115 )	
LCS2	Perchlorate	25.0	25.3	UGL	101.2	( 85-115 )	
LCS3	Perchlorate	4	4.17	UGL	104.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.3	UGL	93.2	( 80-120 )	
MSD	Perchlorate	25.0	24.5	UGL	98.0	( 80-120 )	
RPD_LCS	Perchlorate	108.800	101.200	UGL	7.2	( 0-15 )	
RPD_MS	Perchlorate	93.200	98.000	UGL	1.1	( 0-15 )	

QC Ref #379891

Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	07310160	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	6980	6960	MGL		( 0-10 )	0.3
LCS1	Total Dissolved Solid (TDS)	175	178	MGL	101.7	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	704	MGL	100.6	( 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)	101.714	100.571	MGL	1.1	( 0-20 )	

QC Ref #379965

Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	08010373	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	0.970	MGL	97.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.973	MGL	97.3	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0096	MGL	96.0	( 50-150 )	

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MS	Chromium, Total, ICAP	1.00	0.946	MGL	94.6	( 70-130 )
MSD	Chromium, Total, ICAP	1.00	0.983	MGL	98.3	( 70-130 )

**QC Ref #379984 Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	08010221	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	18550	17100	MGL		( 0-10 )	8.1
LCS1	Total Dissolved Solid (TDS)	175	178	MGL	101.7	( 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	11	MGL	110.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	101.714	98.571	MGL	3.1	( 0-20 )	

**QC Ref #380192 Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	08020570	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	26.6	UGL	106.4	( 85-115 )	
LCS2	Perchlorate	25.0	26.7	UGL	106.8	( 85-115 )	
LCS3	Perchlorate	4	3.68	UGL	92.0	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.2	UGL	96.8	( 80-120 )	
MSD	Perchlorate	25.0	24.9	UGL	99.6	( 80-120 )	
RPD_LCS	Perchlorate	106.400	106.800	UGL	0.4	( 0-15 )	
RPD_MS	Perchlorate	96.800	99.600	UGL	1.0	( 0-15 )	

**QC Ref #380214 Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	08010223	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	23.2	UGL	92.8	( 85-115 )	
LCS2	Perchlorate	25.0	23.9	UGL	95.6	( 85-115 )	

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LCS3	Perchlorate	4	3.97	UGL	99.2	( 75-125 )
MBLK	Perchlorate	ND	<4.0	UGL		
MS	Perchlorate	25.0	24.2	UGL	96.8	( 80-120 )
MSD	Perchlorate	25.0	22.8	UGL	91.2	( 80-120 )
RPD_LCS	Perchlorate	92.800	95.600	UGL	3.0	( 0-15 )
RPD_MS	Perchlorate	96.800	91.200	UGL	0.9	( 0-15 )

QC Ref #380434      Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	08040008	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	14080	14200	MGL		( 0-10 )	0.8
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	680	MGL	97.1	( 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)	97.143	97.143	MGL	0.0	( 0-20 )	

QC Ref #381172      PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	8.43	8.38	UNIT		( 0-20 )	0.6

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