



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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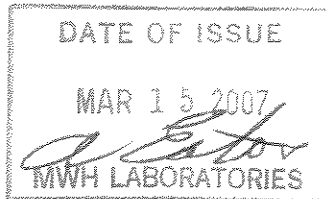
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager



Report#: 196539
Project: CLO4
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 13 page[s].



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

750 Royal Oaks dr. Suite 100
(626) 386-1100 (800) 566-5227

MWLABS USE ONLY:

LOG IN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS

SAMPLE TEMP, RECEIPT AT LAB: 2'

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)	
KERRMCGEE-MP Michele Brown Susan Crowley (702) 651-2234		Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)			
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	SAMPLER COMMENTS
6:30 AM	2/19/2007		EFFLUENT	RSW	X		
7:00	2/19/2007		INFLUENT	RSW	X		Revised SO #6532
							Revised SO #6534

* 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

DATE

TIME

RELINQUISHED BY: *Michele Brown*

RECEIVED BY: *JOE SANCHEZ*

COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

DATE: 2/19/2007

TIME: 12:00 PM

RELINQUISHED BY:

COMPANY/TITLE: MWH

DATE: 2-20-07

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

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

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

SO# 34271 6532 RS

Sampler: Please Return this Paper with your samples

Created by 0
Order Date 01/16/07
Date Needed by Client
SHIP LOCATION

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
P.O. BOX 268859
Oklahoma City, OK 73126-8859

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
1	CLO4	1 125ml poly /no preservative		
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	UN 2796	This is a weekly sample of INFLUENT This cooler can be shipped out along with the IX-EFF cooler as one order. NOTIFY LAB AS SOON AS CR-VI COMES IN. - 24HR ht
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	3077	PLEASE SHIP EXTRA
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN 2031	BLUE ICE DUE TO
1	COLOR	1 500ml amber glass / no preservative	UN2796	WARM WEATHER- also
1	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative		use a LARGE COOLER
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	Login - use Profile
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		#KERRINF for this site note to Login - notify Lisa when this sample comes in so she can run
				NO3 on her IC
				Test code for CRVI changed to IC
				1-6-04: Moved CBOD to separate order as of 10/21/04; O updated 12-8-05 to delete some tests and change frequency on others.
				Changed CR-MS to CR and updated profile for login
				added CLO3 back to weekly 2-7-08
				2/10/06- CRVI-LOW separate order deleted NO3RFA as of 7-5-06;

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#: 196539
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **02/20/07**. 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
2702200010	EFFLUENT	@R226EDD @R228EDD CR FE NO3 P TSS	Water @RADCW B CLO3 N-INOR NH3 PH T	19-feb-2007 06:30:00 CLO4 NH3-DIST NO2-N T-P TKN
2702200011	INFLUENT	CLO3 CLO4 NH3-DIST NO2-N T-P TKN	Water COLOR CR NO3 NO3RFA P T	19-feb-2007 07:00:00 N-INOR NH3

Test Acronym Description

Test Acronym	Description
@R226EDD	Radium 226 (Sub)
@R228EDD	Radium 228 (Sub)
@RADCW B	Gross Alpha Radiation
CLO3	Chlorate by IC
CLO4	Perchlorate
COLOR	Apparent Color
CR	Chromium, Total, ICAP
FE	Iron, Total, ICAP
N-INOR	Total Inorganic Nitrogen-Calc
NH3	Ammonia Nitrogen
NH3-DIST	NPDES Ammonia Distillation
NO2-N	Nitrite, Nitrogen by IC
NO3	Nitrate as Nitrogen by IC
NO3RFA	Nitrate + Nitrite as N by RFA
P	Metals sample pH
PH	PH (H3=past HT, not compliant)
T	Metals Turbidity
T-P	Total phosphorus-P
TKN	Kjeldahl Nitrogen
TSS	Total Suspended Solids (TSS)



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Report
Comments
#196539

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

Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA California cert 04222CA y Pace Analytical Services, PA. Nevada Cert PA91-2004-77 TKN on influent likely a false negative. 1:5 dilution analyzed and still confirmed as non detect. NH3 also re-analyzed and confirmed reported value from dilution.



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Laboratory
Hits Report
#196539

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

Samples Received
20-feb-2007 09:49:28

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2702200010	EFFLUENT				
03/08/07		Radium 226	<0.711	3	pCi/l	0.71
03/08/07		Radium 226, Minimal Detectable	0.711		pCi/l	
03/08/07		Radium 226, Two Sigma Error	0.260		pCi/l	
03/07/07		Radium 228	0.857	5	pCi/l	0.68
03/07/07		Radium 228, Minimum Detectable	0.684		pCi/l	
03/07/07		Radium 228, Two Sigma Error	0.377		pCi/l	
02/26/07		Alpha, Min Detectable Activity	8.70		pCi/l	
02/26/07		Alpha, Two Sigma Error	7.3		pCi/l	
02/20/07		Ammonia Nitrogen	0.703		mg/l	0.050
02/20/07		Apparent Color	15	15	ACU	3.0
02/26/07		Iron, Total, ICAP	2.5	0.3	mg/l	0.040
02/24/07		Kjeldahl Nitrogen	2.3		mg/l	0.20
02/26/07		Metals digestion performed.	Y		Yes/No	
02/20/07		PH (H3=past HT, not compliant)	6.7	6.5-8.5	Units	0.0010
02/22/07		Total Inorganic Nitrogen-Calc	0.70		mg/l	0.20
02/22/07		Total Suspended Solids (TSS)	19		mg/l	10
02/21/07		Total phosphorus-P	0.48		mg/l	0.040
	2702200011	INFLUENT				
02/20/07		Ammonia Nitrogen	1.55		mg/l	0.050
02/20/07		Apparent Color	10	15	ACU	3.0
02/24/07		Chlorate by IC	382000		ug/l	50000
02/20/07		Chromium, Total, ICAP	0.079		mg/l	0.020
02/21/07		Nitrate + Nitrite as N by RFA	16.5	10	mg/l	2.0
02/20/07		Nitrate as Nitrogen by IC	16	10	mg/l	5.0
02/23/07		Perchlorate	206000		ug/l	20000
02/22/07		Total Inorganic Nitrogen-Calc	18		mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#196539

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

Samples Received
02/20/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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EFFLUENT (2702200010) Sampled on 02/19/07 06:30

02/24/07 00:00	354556	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
02/23/07 00:00	354379	(EPA 314)	Perchlorate	ND	ug/l	10	5
02/20/07 00:00	353905	(ML/S2120B)	Apparent Color	15	ACU	3.0	1
02/26/07 15:31	354779	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
02/26/07 10:22		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
02/26/07 15:31	354781	(ML/EPA 200.7)	Iron, Total, ICAP	2.5	mg/l	0.040	2
02/22/07 09:30	354117	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	0.70	mg/l	0.20	50
02/20/07 00:00	353917	(ML/EPA 350.1)	Ammonia Nitrogen	0.703	mg/l	0.050	1
02/20/07 12:18	354001	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
02/20/07 12:18	354004	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
02/20/07 00:00	353901	(4500HB/ E 150)	PH (H3=past HT, not compliant)	6.7	Units	0.0010	1
02/21/07 00:00	354075	(S4500PE/ 365.1)	Total phosphorus-P	0.48	mg/l	0.040	2
02/24/07 22:00	354625	(ML/EPA 351.2)	Kjeldahl Nitrogen	2.3	mg/l	0.20	1
02/22/07 14:45	354474	(ML/EPA 160.2)	Total Suspended Solids (TSS)	19	mg/l	10	1

Gross Alpha Radiation

02/26/07 00:00	355051	(ML/EPA 900.0)	Alpha, Gross	ND	pCi/l	8.7	1
02/26/07 00:00	355051	(ML/EPA 900.0)	Gross Alpha + adjusted error	NA	pCi/l	0	1
02/26/07 00:00	355051	(ML/EPA 900.0)	Alpha, Two Sigma Error	7.3	pCi/l	0	1
02/26/07 00:00	355051	(ML/EPA 900.0)	Alpha, Min Detectable Activity	8.70	pCi/l	0	1

Radium 226 (Sub)

03/08/07 00:00		(EPA 903.1)	Radium 226	<0.711	pCi/l	0.71	1
03/08/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.260	pCi/l	0	1
03/08/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.711	pCi/l	0	1

Radium 228 (Sub)

03/07/07 00:00		(EPA 904.0)	Radium 228	0.857	pCi/l	0.68	1
03/07/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.377	pCi/l	0	1
03/07/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.684	pCi/l	0	1



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Data Report
#196539

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2702200011)				Sampled on 02/19/07 07:00				
	02/24/07 00:00	354556	(ML/EPA 300.0)	Chlorate by IC	382000	ug/l	50000	5000
	02/23/07 00:00	354379	(EPA 314)	Perchlorate	206000	ug/l	20000	5000
	02/20/07 00:00	353905	(ML/S2120B)	Apparent Color	10	ACU	3.0	1
	02/20/07 20:36	353937	(ML/EPA 200.7)	Chromium, Total, ICAP	0.079	mg/l	0.020	2
	02/22/07 09:30	354117	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	18	mg/l	10	50
	02/20/07 00:00	353917	(ML/EPA 350.1)	Ammonia Nitrogen	1.55	mg/l	0.050	1
	02/20/07 12:32	354001	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	02/20/07 12:32	354004	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	16	mg/l	5.0	50
	02/21/07 00:00	354141	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	16.5	mg/l	2.0	10
	02/21/07 00:00	354075	(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.040	2
	02/26/07 20:51	354824	(ML/EPA 351.2)	Kjeldahl Nitrogen	ND	mg/l	0.20	1



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Laboratory
QC Summary
#196539

Tronox LLC - Henderson

QC Ref #353901 - PH (H3=past HT, not compliant) Analysis Date: 02/20/2007

2702200010 EFFLUENT Analyzed by: dtn

QC Ref #353905 - Apparent Color Analysis Date: 02/20/2007

2702200010 EFFLUENT Analyzed by: bxr
2702200011 INFLUENT Analyzed by: bxr

QC Ref #353917 - Ammonia Nitrogen Analysis Date: 02/20/2007

2702200010 EFFLUENT Analyzed by: dav
2702200011 INFLUENT Analyzed by: dav

QC Ref #353937 - Chromium, Total, ICAP Analysis Date: 02/20/2007

2702200011 INFLUENT Analyzed by: wbh

QC Ref #354001 - Nitrite, Nitrogen by IC Analysis Date: 02/20/2007

2702200010 EFFLUENT Analyzed by: jkz
2702200011 INFLUENT Analyzed by: jkz

QC Ref #354004 - Nitrate as Nitrogen by IC Analysis Date: 02/20/2007

2702200010 EFFLUENT Analyzed by: jkz
2702200011 INFLUENT Analyzed by: jkz

QC Ref #354075 - Total phosphorus-P Analysis Date: 02/21/2007

2702200010 EFFLUENT Analyzed by: dtn
2702200011 INFLUENT Analyzed by: dtn



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Laboratory
QC Summary
#196539

Tronox LLC - Henderson
(continued)

QC Ref #354117 - Total Inorganic Nitrogen-Calc Analysis Date: 02/22/2007

2702200010	EFFLUENT	Analyzed by: dwr
2702200011	INFLUENT	Analyzed by: dwr

QC Ref #354141 - Nitrate + Nitrite as N by RFA Analysis Date: 02/21/2007

2702200011	INFLUENT	Analyzed by: dtn
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QC Ref #354379 - Perchlorate Analysis Date: 02/23/2007

2702200010	EFFLUENT	Analyzed by: raja
2702200011	INFLUENT	Analyzed by: raja

QC Ref #354474 - Total Suspended Solids (TSS) Analysis Date: 02/22/2007

2702200010	EFFLUENT	Analyzed by: anh
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QC Ref #354556 - Chlorate by IC Analysis Date: 02/24/2007

2702200010	EFFLUENT	Analyzed by: raja
2702200011	INFLUENT	Analyzed by: raja

QC Ref #354625 - Kjeldahl Nitrogen Analysis Date: 02/24/2007

2702200010	EFFLUENT	Analyzed by: dtn
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QC Ref #354779 - Chromium, Total, ICAP Analysis Date: 02/26/2007

2702200010	EFFLUENT	Analyzed by: wbh
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Laboratory
QC Summary
#196539

Tronox LLC - Henderson
(continued)

QC Ref #354781 - Iron, Total, ICAP

2702200010 EFFLUENT

Analysis Date: 02/26/2007

Analyzed by: wbh

QC Ref #354824 - Kjeldahl Nitrogen

2702200011 INFLUENT

Analysis Date: 02/26/2007

Analyzed by: dtn

QC Ref #355051 - Gross Alpha Radiation

2702200010 EFFLUENT

Analysis Date: 02/26/2007

Analyzed by: ajc

Tronox LLC - Henderson

QC Ref #353901 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02200321	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	7.95	8.00	UNIT		(0-20)	0.6

QC Ref #353905 Apparent Color

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Apparent Color	ND	ND	ACU		(0-20)	

QC Ref #353917 Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02120266	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.06	MGL	106.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.06	MGL	106.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	0.897	MGL	<u>89.7</u>	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.911	MGL	91.1	(90-110)	
RPD_LCS	Ammonia Nitrogen	106.000	106.000	MGL	0.0	(0-20)	
RPD_MS	Ammonia Nitrogen	89.700	91.100	MGL	1.5	(0-20)	

QC Ref #353937 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.984	MGL	98.4	(85-115)	
LCS2	Chromium, Total, ICAP	2.50	2.51	MGL	100.4	(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	0.991	MGL	99.1	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.978	MGL	97.8	(70-130)	

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.



Tronox LLC - Henderson
(continued)

QC Ref #354001 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02200009	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.02	MGL	102.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.03	MGL	103.0	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0495	MGL	99.0	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.491	MGL	98.2	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.489	MGL	97.8	(90-110)	
RPD_LCS	Nitrite, Nitrogen by IC	102.000	103.000	MGL	1.0	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	98.200	97.800	MGL	0.4	(0-20)	

QC Ref #354004 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02200009	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.40	MGL	96.0	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0445	MGL	89.0	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.17	MGL	93.6	(90-110)	
MSD	Nitrate as Nitrogen by IC	1.25	1.18	MGL	94.4	(90-110)	
RPD_LCS	Nitrate as Nitrogen by IC	96.000	98.000	MGL	2.1	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	93.600	94.400	MGL	0.9	(0-20)	

QC Ref #354075 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02160203	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.387	MGL	96.8	(90-110)	
LCS2	Total phosphorus-P	0.4	0.390	MGL	97.5	(90-110)	

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.



Tronox LLC - Henderson
(continued)

MBLK	Total phosphorus-P	ND	<0.020	MGL			
MS	Total phosphorus-P	0.4	0.385	MGL	96.2	(90-110)	
MSD	Total phosphorus-P	0.4	0.385	MGL	96.2	(90-110)	
RPD_LCS	Total phosphorus-P	96.750	97.500	MGL	0.8	(0-10)	
RPD_MS	Total phosphorus-P	96.250	96.250	MGL	0.0	(0-20)	

QC Ref #354141 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02150043	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.970	MGL	97.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.944	MGL	94.4	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.0299	MGL	59.8	(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	1.03	MGL	103.0	(90-110)	

QC Ref #354379 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02210091	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.0	UGL	100.0	(85-115)	
LCS2	Perchlorate	25.0	25.7	UGL	102.8	(85-115)	
LCS3	Perchlorate	4	3.86	UGL	96.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.2	UGL	88.8	(70-130)	
MSD	Perchlorate	25.0	22.1	UGL	88.4	(70-130)	
RPD_LCS	Perchlorate	100.000	102.800	UGL	2.8	(0-20)	
RPD_MS	Perchlorate	88.800	88.400	UGL	0.5	(0-20)	

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.



Tronox LLC - Henderson
(continued)

QC Ref #354474 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02210114	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	172	MGL	98.3	(80-120)	
LCS2	Total Suspended Solids (TSS)	175	164	MGL	93.7	(80-120)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

QC Ref #354556 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02230043	UGL		(0-0)	
LCS1	Chlorate by IC	200	197	UGL	98.5	(75-125)	
LCS2	Chlorate by IC	200	198	UGL	99.0	(75-125)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	11.4	UGL	114.0	(50-150)	
MS	Chlorate by IC	100	90.8	UGL	90.8	(75-125)	
MSD	Chlorate by IC	100	89.3	UGL	89.3	(75-125)	
RPD_LCS	Chlorate by IC	98.500	99.000	UGL	0.5	(0-20)	
RPD_MS	Chlorate by IC	90.800	89.300	UGL	1.7	(0-20)	

QC Ref #354625 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02160200	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.93	MGL	98.2	(90-110)	
LCS2	Kjeldahl Nitrogen	4	4.02	MGL	100.5	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	3.81	MGL	95.2	(90-110)	
MSD	Kjeldahl Nitrogen	4	3.87	MGL	96.8	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	98.250	100.500	MGL	2.3	(0-20)	
RPD_MS	Kjeldahl Nitrogen	95.250	96.750	MGL	1.6	(0-20)	

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.



Tronox LLC - Henderson
(continued)

QC Ref #354779 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.985	MGL	98.5	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.998	MGL	99.8	(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	0.995	MGL	99.5	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.956	MGL	95.6	(70-130)	

QC Ref #354781 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	5.02	MGL	100.4	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.05	MGL	101.0	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0219	MGL	109.5	(50-150)	
MS	Iron, Total, ICAP	5.0	5.23	MGL	104.6	(70-130)	
MS2	Iron, Total, ICAP	5.0	5.01	MGL	100.2	(70-130)	
MSD	Iron, Total, ICAP	5.0	5.07	MGL	101.4	(70-130)	
MSD2	Iron, Total, ICAP	5.0	5.29	MGL	105.8	(70-130)	
RPD_MS	Iron, Total, ICAP	104.600	101.400	MGL	3.1	(0-20)	

QC Ref #354824 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02230220	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.61	MGL	90.2	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.70	MGL	92.5	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	3.74	MGL	93.5	(90-110)	
MSD	Kjeldahl Nitrogen	4	3.72	MGL	93.0	(90-110)	

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.



Tronox LLC - Henderson
(continued)

RPD_LCS	Kjeldahl Nitrogen	90.250	92.500	MGL	2.5	(0-20)
RPD_MS	Kjeldahl Nitrogen	93.500	93.000	MGL	0.5	(0-20)

QC Ref #355051

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02150124	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	15.6	PCIL	94.0	(80-120)	
LCS2	Alpha, Gross	16.6	17.7	PCIL	106.6	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	36.1	PCIL	108.7	(70-130)	
RPD_LCS	Alpha, Gross	93.976	106.627	PCIL	12.6	(0-20)	
DUP	Beta, Gross	ND	ND	PCIL		(0-20)	
LCS1	Beta, Gross	15.7	16.4	PCIL	104.5	(80-120)	
LCS2	Beta, Gross	15.7	14.0	PCIL	89.2	(80-120)	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	33.7	PCIL	107.3	(70-130)	
RPD_LCS	Beta, Gross	104.459	89.172	PCIL	15.8	(0-20)	

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.



Kennmcgee-mf

Pace Analytical Services, Inc.

Exit 54, I-70

Madison, PA 15663

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March 14, 2007

Ms. Elena Montanez
MWH Americas, Inc
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016-3629

Reissued Report

**Drinking Water Characterization; Purchase Order No. 99-26706
196539, NV DW, Ra-226/228; NV Cert Expires 03/31/07; MWH Laboratories
Pace Project No. 07-1056**

Dear Ms. Montanez:

Enclosed is the reissued report for the above-referenced project. Please refer to the Case Narrative, Section IV. Reissue Comments, for an explanation of the reissue. If you have any questions, please call me.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

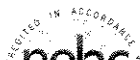
RMK:jac

Enclosures

Page 1 of 7

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-1056

CLIENT: Purchase Order Number: 99-26706

B: SAMPLE IDENTIFICATIONS:

PACE: 0702-1151

CLIENT: 2702200010

C: SHIPPING/RECEIVING COMMENTS:

Reissued Report 3/14/07.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

IV. REISSUE COMMENTS:

Report is being reissued to reflect the corrected expiration date of the NV certificate.

0000002

0000003

Table 1

General Data Table
MWH Americas, Inc.

Pace Project No. 07-1056

Drinking Water Characterization; 196539, NV DW, Ra-226/228

Charge Order No. 99-26706; NV Cert Expires 03/31/07

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act + Unc	(MDC)
				0702-1151	
				2702200010	
				(2/19/07)	
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	03/08/07	-0.077 ± 0.260	(0.711)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/07/07	0.857 ± 0.377	(0.684)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

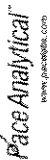
0000004

Table 1
(Continued)

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act ± Unc	(MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	03/08/07	0.000 ± 0.000	(0.180)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/07/07	0.401 ± 0.301	(0.618)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: CMC
Date: 3/2/2007
Worklist: 14110
Matrix: DW

2/3/2007

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID: MB14110
 MB concentration: 0.000
 MB Counting Uncertainty: 0.000
 MB MDC: 0.180
 MB Numerical Performance Indicator: #DIV/0!
 MB Status vs Numerical Indicator: N/A
 MB Status vs MDC: **Pass**

Laboratory Control Sample Assessment

LCS#	(Y or N)?	Y
LCS14110		LCS14110
Count Date:	3/8/2007	3/8/2007
Spike I.D.:	06-005	06-005
Spike Concentration (pCi/mL):	57.284	57.284
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.500
Target Conc. (pCi/L, g, F):	11.457	11.457
Uncertainty (Calculated):	0.275	0.275
Result (pCi/L, g, F):	11.026	10.520
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.735	1.589
Numerical Performance Indicator:	-0.48	-1.14
Percent Recovery:	96.24%	91.82%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS14110
 Duplicate Sample I.D.: LCS14110
 Sample Result (pCi/L, g, F): 11.026
 Sample Result Counting Uncertainty (pCi/L, g, F): 1.735
 Sample Duplicate Result (pCi/L, g, F): 10.520
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 1.589
 Are sample and/or duplicate results below MDC? NO
 Duplicate Numerical Performance Indicator: 0.422
 Duplicate RPD: 4.70%
 Duplicate Status vs Numerical Indicator: N/A
 Duplicate Status vs RPD: **Pass**

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: #DIV/0!

Sample Matrix Spike Control Assessment

Sample Collection Date: 2/19/2007
 Sample I.D.: 0702-1138
 Sample MS I.D.: 0702-1139MS
 Spike I.D.: 06-005
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 57.285
 Spike Volume Used in MS (mL): 0.10
 Spike Volume Used in MSD (mL): 0.500
 MS Aliquot (L, g, F): 11.457
 MS Target Conc. (pCi/L, g, F): 11.457
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 Spike uncertainty (calculated): 0.275
 Sample Result: 0.224
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.253
 Sample Matrix Spike Result: 10.573
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 1.668
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): -1.270
 MS Numerical Performance Indicator: 90.33%
 MS Percent Recovery: N/A
 MS Status vs Numerical Indicator: **Pass**
 MS Status vs Recovery: **Pass**

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
 Sample MS I.D.:
 Sample Matrix Spike Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 Duplicate Numerical Performance Indicator:
 MS/MSD Duplicate RPD:
 MS/MSD Duplicate Status vs Numerical Indicator:
 MS/MSD Duplicate Status vs RPD:

0000005

0000006

PACE Analytical Services, Inc.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: OLB
 Date: 3/7/2007
 Worklist: 14115
 Matrix: DW

Method Blank Assessment

MB Sample ID: MB14115
 MB Concentration: 0.401
 MB Counting Uncertainty: 0.301
 MB MDC: 0.618
 MB Numerical Performance Indicator: 2.61
 MB Status vs Numerical Indicator: N/A
 MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Y
3/7/2007	LCS-D14115
06-009	06-009
70.023	70.023
0.10	0.10
0.800	0.800
8.753	8.753
0.271	0.271
6.658	6.505
0.725	0.740
-5.30	-5.59
76.07%	74.32%
N/A	N/A
Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS14115
 Duplicate Sample I.D.: LCSD14115
 Sample Result (pCi/L, g, F): 6.658
 Sample Duplicate Result (pCi/L, g, F): 6.725
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 6.505
 Are sample and/or duplicate results below MDC? NO
 Duplicate Numerical Performance Indicator: 0.289
 Duplicate RPD: 2.32%
 Duplicate Status vs Numerical Indicator: N/A
 Duplicate Status vs RPD: Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***If all other QC criteria pass, this batch is acceptable. The matrix spike result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

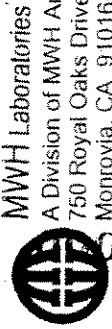
2/3/12/07

Sample Matrix Spike Control Assessment

Sample Collection Date: 2/22/2007
 Sample I.D.: 0702-1187
 Sample MSD I.D.: 0702-1187MS
 Spike I.D.: 06-009
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 70.338
 Spike Volume Used in MS (mL): 0.20
 Spike Volume Used in MSD (mL): 0.800
 MS Aliquot (L, g, F): 17.564
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 Spike uncertainty (calculated):
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.545
 Sample Matrix Spike Result: 0.182
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 0.305
 Sample Matrix Spike Duplicate Result: 11.191
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.967
 MS Numerical Performance Indicator: -11.199
 MSD Numerical Performance Indicator: 62.61%
 MS Percent Recovery: N/A
 MSD Percent Recovery: N/A
 MS Status vs Numerical Indicator: N/A
 MSD Status vs Numerical Indicator: MS Low***
 MS Status vs Recovery: MS Low***
 MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:
 Sample Matrix Spike Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 Duplicate Numerical Performance Indicator:
 MS/MSD Duplicate Status vs Numerical Indicator:
 MS/MSD Duplicate Status vs RPD:



MWH Laboratories
 A Division of MWH Americas, Inc.
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016-3629
 Ph (626) 386-1100 Fax (626) 386-1095

Ship To: **Mike Schnupp**
Trace Analytical - Waltz Mill

Waltz Mill Site
 70 Madison Exit
 Madison, PA 15663

724) 722-5214/5218 Fax (724) 722-5208

MWH Project # Report Due: Sub PO#
 196539 03/15/07 99-26706



ncf

Client Sample ID for reference only

Date 02/21/07

Submittal Form & Purchase Order 99-26706

*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers/ Report & Invoice must have the MWH Project Number 196539 and Job # 1000032

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

07-1056

Reports: Elena Montanez Sub-contracting Administrator
 EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com
 MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016
 Phone (626) 386-1118 Fax (626) 386-1122
 Invoices to: MWH LABORATORIES
 Accounts Payable PO BOX 6610, Broomfield, CO 80021

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix

NEVEDA

	Analysis Requested	Sample Date & Time	Matrix	Container
@R228ED	Radioactivity, Radium 226 Sub-contracted	02/19/07 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE P/C
@R228ED	Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE P/C
				Method Blank 6702-1152

Relinquished by: Date 02/21/07 Time 1:27 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS

Received by: Date 2-22-07 Time 10:00 An Acknowledgement of Receipt is requested to attn: Julie Lee