



MWH Laboratories

A Division of MWH Americas, Inc.

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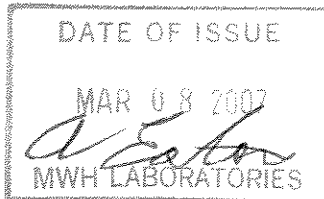
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager



Report#: 195993
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

195993

MWLABS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: FC

(626) 386-1100 (800) 566-5227

SAMPLE TEMP, RECEIPT AT LAB: MC

BLUE ICE: FROZEN 7 PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME	PROJECT JOB # / P.O.#	REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES	<input type="checkbox"/>	(check for yes)
KERENCGHE-MP Michele Brown Susan Crowley (702) 651-2234	Weekly Permit Compliance Samples - SO #6532 & #6534 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	CL04 RADWB (2 Bts)	NH3, NH3-DIST	pH, NO2-N, NO3-N, NH4-N, TSS	CL03 FE, CR	T-P, TKN	Color	FA228EDD/RA226EDD (2 Bts.)	CR (2 Bts.)	NO2-N, NO3-N, NH4-N	SAMPLER COMMENTS	
6:30 AM	2/12/2007		EFFLUENT	RSW	X		X	X	X	X	X	X	X				Revised SO #6534
7:00	2/12/2007		INFLUENT	RSW	X		X	X	X	X	X	X	X				Revised SO #6532
																	6/11/08 MCH

* 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: <u>Michele Brown</u>	Veolia Water NA for Tronox LLC - Henderson Plant	2/12/2007	12:00 PM
RECEIVED BY:			
RELINQUISHED BY:			
RECEIVED BY: <u>Jesse</u>	<u>Fidel/Chavell</u>	<u>2-13</u>	<u>10:00</u>



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
Project Code CLO4
PO# / Job#
Blanket PO

W Weekly
Week 1

Period

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

SO# 34272 6534 RS

Sampler: Please Return this Paper with your samples

Created by 0
Order Date 01/16/07
Date Needed by Client
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		This is the weekly order for the
1	@RADCW	2: 1 125 ml poly / no pres & 1 x 500 ml poly + 2 ml HNO3 (18%)	UN 2031	EFFLUENT
1	NH3, NH3-DIST	1 250 ml poly+ 1 ml H2SO4 (50%)	UN 2796	NOTIFY LAB AS SOON AS CR-VI COMES IN - 24HR ht RA226/228 to be subbed to a NV certified lab
1	PH, NO2-N, NO3, N-INOR, TSS	1 500 ml poly/ no preservative SHORT HOLDING TIME!!!!		PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER - also use a LARGE COOLER
1	FE, CR	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN2031	login - use profile
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	#KERREFF for this site
1	COLOR	1 500ml amber glass / no preservative SHORT HOLDING TIME!!!!		CLIENT CODE CHANGED 7/25/03
1	RA228EDD/RA226EDD	2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE DL'S	UN 2031	Testcode for CRVI changed to IC effective 1/6/04
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	Moved CBOD to separate order as of 10/21/04
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		updated BO 12-8-05 - deleted some tests and changed Cr from MS to ICP.
				added clo3 back 2-7-06
				removed CRVI-LOW to sep BO 2-10-06



MWH Laboratories
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 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#: 195993
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **02/13/07**. 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
2702130555	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CLO4 COLOR CR FE N-INOR NH3 NO2-N NO3 P PH T-P TKN TSS	Water	12-feb-2007 06:30:00
2702130561	INFLUENT	CLO3 CLO4 COLOR CR NH3-DIST NO2-N NO3 NO3RFA P T-P TKN	Water	12-feb-2007 07:00:00

Test Acronym Description

Test Acronym	Description
@R226EDD	Radium 226 (Sub)
@R228EDD	Radium 228 (Sub)
@RADCWB	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
#195993**

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. Nevada Cert PA91-2004-77 Influent NH₃ > TKN. Likely interference with TKN on this matrix, based on earlier matrix spike results.



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Laboratory
 Hits Report
 #195993

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

Samples Received
 13-feb-2007 16:53:14

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2702130555	EFFLUENT				
03/05/07		Radium 226	0.441	3	pCi/l	0.24
03/05/07		Radium 226, Minimal Detectable	0.239		pCi/l	
03/05/07		Radium 226, Two Sigma Error	0.386		pCi/l	
03/02/07		Radium 228	<0.684	5	pCi/l	0.68
03/02/07		Radium 228, Minimum Detectable	0.684		pCi/l	
03/02/07		Radium 228, Two Sigma Error	0.335		pCi/l	
02/21/07		Alpha, Min Detectable Activity	8.96		pCi/l	
02/21/07		Alpha, Two Sigma Error	8.2		pCi/l	
02/16/07		Ammonia Nitrogen	0.494		mg/l	0.050
02/13/07		Apparent Color	10	15	ACU	3.0
02/16/07		Chlorate by IC	201		ug/l	50
02/16/07		Iron, Total, ICAP	0.47	0.3	mg/l	0.040
02/16/07		Metals digestion performed.	Y		Yes/No	
02/14/07		PH (H3=past HT, not compliant)	7.6	6.5-8.5	Units	0.0010
02/20/07		Total Inorganic Nitrogen-Calc	0.49		mg/l	0.20
02/20/07		Total phosphorus-P	0.35		mg/l	0.10
	2702130561	INFLUENT				
02/16/07		Ammonia Nitrogen	1.23		mg/l	0.050
02/13/07		Apparent Color	5	15	ACU	3.0
02/20/07		Chlorate by IC	419000		ug/l	50000
02/19/07		Nitrate + Nitrite as N by RFA	18	10	mg/l	1.0
02/13/07		Nitrate as Nitrogen by IC	16	10	mg/l	5.0
02/18/07		Perchlorate	200000		ug/l	20000
02/20/07		Total Inorganic Nitrogen-Calc	17		mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Data Report
 #195993

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

Samples Received
 02/13/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
EFFLUENT (2702130555) Sampled on 02/12/07 06:30								
	02/16/07 00:00	353540	(ML/EPA 300.0)	Chlorate by IC	201	ug/l	50	5
	02/18/07 00:00	353777	(EPA 314)	Perchlorate	ND	ug/l	10	5
	02/13/07 00:00	352936	(ML/S2120B)	Apparent Color	10	ACU	3.0	1
	02/16/07 23:34	353546	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	02/16/07 12:27		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/16/07 23:34	353549	(ML/EPA 200.7)	Iron, Total, ICAP	0.47	mg/l	0.040	2
	02/20/07 07:38	353794	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	0.49	mg/l	0.20	50
	02/16/07 00:00	353602	(ML/EPA 350.1)	Ammonia Nitrogen	0.494	mg/l	0.050	1
	02/13/07 13:29	352999	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	02/13/07 13:29	353002	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
	02/14/07 00:00	353042	(4500HB/ E 150)	PH (H3-past HT, not compliant)	7.6	Units	0.0010	1
	02/20/07 00:00	353921	(S4500PE/ 365.1)	Total phosphorus-P	0.35	mg/l	0.10	5
	02/22/07 18:00	354336	(ML/EPA 351.2)	Kjeldahl Nitrogen	ND	mg/l	0.20	1
	02/17/07 12:12	353594	(ML/EPA 160.2)	Total Suspended Solids (TSS)	ND	mg/l	10	1
Gross Alpha Radiation								
	02/21/07 00:00	354443	(ML/EPA 900.0)	Alpha, Gross	ND	pCi/l	9.0	1
	02/21/07 00:00	354443	(ML/EPA 900.0)	Gross Alpha + adjusted error	NA	pCi/l	0	1
	02/21/07 00:00	354443	(ML/EPA 900.0)	Alpha, Two Sigma Error	8.2	pCi/l	0	1
	02/21/07 00:00	354443	(ML/EPA 900.0)	Alpha, Min Detectable Activity	8.96	pCi/l	0	1
Radium 226 (Sub)								
	03/05/07 00:00		(EPA 903.1)	Radium 226	0.441	pCi/l	0.24	1
	03/05/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.386	pCi/l	0	1
	03/05/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.239	pCi/l	0	1
Radium 228 (Sub)								
	03/02/07 00:00		(EPA 904.0)	Radium 228	<0.684	pCi/l	0.68	1
	03/02/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.335	pCi/l	0	1
	03/02/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.684	pCi/l	0	1



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Laboratory
Data Report
#195993

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2702130561)		Sampled on 02/12/07 07:00						
	02/20/07 00:00	353817	(ML/EPA 300.0)	Chlorate by IC	419000	ug/l	50000	5000
	02/18/07 00:00	353777	(EPA 314)	Perchlorate	200000	ug/l	20000	5000
	02/13/07 00:00	352936	(ML/S2120B)	Apparent Color	5	ACU	3.0	1
	02/14/07 22:22	353169	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	02/20/07 07:38	353794	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	17	mg/l	10	50
	02/16/07 00:00	353602	(ML/EPA 350.1)	Ammonia Nitrogen	1.23	mg/l	0.050	1
	02/13/07 13:16	352999	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	02/13/07 13:16	353002	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	16	mg/l	5.0	50
	02/19/07 00:00	353804	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	18	mg/l	1.0	20
	02/20/07 00:00	353921	(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.10	5
	02/22/07 18:00	354336	(ML/EPA 351.2)	Kjeldahl Nitrogen	ND	mg/l	0.20	1



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Laboratory
QC Summary
#195993

Tronox LLC - Henderson

QC Ref #352936 - Apparent Color Analysis Date: 02/13/2007

2702130555 EFFLUENT
2702130561 INFLUENT

Analyzed by: sar
Analyzed by: sar

QC Ref #352999 - Nitrite, Nitrogen by IC Analysis Date: 02/13/2007

2702130555 EFFLUENT
2702130561 INFLUENT

Analyzed by: jkz
Analyzed by: jkz

QC Ref #353002 - Nitrate as Nitrogen by IC Analysis Date: 02/13/2007

2702130555 EFFLUENT
2702130561 INFLUENT

Analyzed by: jkz
Analyzed by: jkz

QC Ref #353042 - PH (H3=past HT, not compliant) Analysis Date: 02/14/2007

2702130555 EFFLUENT

Analyzed by: jxl

QC Ref #353169 - Chromium, Total, ICAP Analysis Date: 02/14/2007

2702130561 INFLUENT

Analyzed by: wbh

QC Ref #353540 - Chlorate by IC Analysis Date: 02/16/2007

2702130555 EFFLUENT

Analyzed by: raja

QC Ref #353546 - Chromium, Total, ICAP Analysis Date: 02/16/2007

2702130555 EFFLUENT

Analyzed by: wbh

QC Ref #353549 - Iron, Total, ICAP Analysis Date: 02/16/2007

2702130555 EFFLUENT

Analyzed by: wbh



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Laboratory
QC Summary
#195993

Tronox LLC - Henderson
(continued)

QC Ref #353594 - Total Suspended Solids (TSS) Analysis Date: 02/17/2007

2702130555 EFFLUENT Analyzed by: anh

QC Ref #353602 - Ammonia Nitrogen Analysis Date: 02/16/2007

2702130555 EFFLUENT Analyzed by: dav
2702130561 INFLUENT Analyzed by: dav

QC Ref #353777 - Perchlorate Analysis Date: 02/18/2007

2702130555 EFFLUENT Analyzed by: raja
2702130561 INFLUENT Analyzed by: raja

QC Ref #353794 - Total Inorganic Nitrogen-Calc Analysis Date: 02/20/2007

2702130555 EFFLUENT Analyzed by: dwr
2702130561 INFLUENT Analyzed by: dwr

QC Ref #353804 - Nitrate + Nitrite as N by RFA Analysis Date: 02/19/2007

2702130561 INFLUENT Analyzed by: dtn

QC Ref #353817 - Chlorate by IC Analysis Date: 02/20/2007

2702130561 INFLUENT Analyzed by: raja

QC Ref #353921 - Total phosphorus-P Analysis Date: 02/20/2007

2702130555 EFFLUENT Analyzed by: dtn
2702130561 INFLUENT Analyzed by: dtn



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Laboratory
QC Summary
#195993

Tronox LLC - Henderson
(continued)

QC Ref #354336 - Kjeldahl Nitrogen

Analysis Date: 02/22/2007

2702130555 EFFLUENT
2702130561 INFLUENT

Analyzed by: dtn
Analyzed by: dtn

QC Ref #354443 - Gross Alpha Radiation

Analysis Date: 02/21/2007

2702130555 EFFLUENT

Analyzed by: ajc



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 QC Report
 #195993

Tronox LLC - Henderson

QC Ref #352936 Apparent Color

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

QC Ref #352999 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02130019	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	0.992	MGL	99.2	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.01	MGL	101.0	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.100	0.0507	MGL	50.7	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.546	MGL	109.2	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.541	MGL	108.2	(90-110)	
RPD_LCS	Nitrite, Nitrogen by IC	99.200	101.000	MGL	1.8	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	109.200	108.200	MGL	0.9	(0-20)	

QC Ref #353002 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02130019	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.37	MGL	94.8	(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	0.046	MGL	92.0	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.20	MGL	96.0	(90-110)	
MSD	Nitrate as Nitrogen by IC	1.25	1.19	MGL	95.2	(90-110)	
RPD_LCS	Nitrate as Nitrogen by IC	94.800	98.000	MGL	3.3	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	96.000	95.200	MGL	0.8	(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.



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QC Report
#195993

Tronox LLC - Henderson
(continued)

QC Ref #353042 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02130605	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	8.01	8.04	UNIT		(0-20)	0.4

QC Ref #353169 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.963	MGL	96.3	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.953	MGL	95.3	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0090	MGL	90.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.962	MGL	96.2	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.962	MGL	96.2	(70-130)	

QC Ref #353540 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02140028	UGL		(0-0)	
LCS1	Chlorate by IC	200	197	UGL	98.5	(75-125)	
LCS2	Chlorate by IC	200	192	UGL	96.0	(75-125)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	10.5	UGL	105.0	(50-150)	
MS	Chlorate by IC	100	90.8	UGL	90.8	(75-125)	
MSD	Chlorate by IC	100	90.9	UGL	90.9	(75-125)	
RPD_LCS	Chlorate by IC	98.500	96.000	UGL	2.6	(0-20)	
RPD_MS	Chlorate by IC	90.800	90.900	UGL	0.1	(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 #353546 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.969	MGL	96.9	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.935	MGL	93.5	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0099	MGL	99.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.975	MGL	97.5	(70-130)	

QC Ref #353549 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.85	MGL	97.0	(85-115)	
LCS2	Iron, Total, ICAP	5.0	4.70	MGL	94.0	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0214	MGL	107.0	(50-150)	
MS	Iron, Total, ICAP	5.0	5.08	MGL	101.6	(70-130)	
MSD	Iron, Total, ICAP	5.0	4.92	MGL	98.4	(70-130)	
RPD_MS	Iron, Total, ICAP	101.600	98.400	MGL	3.2	(0-20)	

QC Ref #353594 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02130069	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	164	MGL	93.7	(80-120)	
LCS2	Total Suspended Solids (TSS)	175	172	MGL	98.3	(80-120)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
are advisory only, unless otherwise specified in the method.



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Laboratory
QC Report
#195993

Tronox LLC - Henderson
(continued)

QC Ref #353602

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02120176	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	0.991	MGL	99.1	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.981	MGL	98.1	(90-110)	
RPD_LCS	Ammonia Nitrogen	104.000	104.000	MGL	0.0	(0-20)	
RPD_MS	Ammonia Nitrogen	99.100	98.100	MGL	1.0	(0-20)	

QC Ref #353777

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02130502	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.2	UGL	96.8	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS3	Perchlorate	4	4.30	UGL	107.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.1	UGL	88.4	(70-130)	
MSD	Perchlorate	25.0	22.6	UGL	90.4	(70-130)	
RPD_LCS	Perchlorate	96.800	97.200	UGL	0.4	(0-20)	
RPD_MS	Perchlorate	88.400	90.400	UGL	2.2	(0-20)	

QC Ref #353804

Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02150023	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	1.05	MGL	105.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	1.06	MGL	106.0	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			

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QC Report
#195993

Tronox LLC - Henderson
(continued)

MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.0449	MGL	89.8	(50-150)
MS	Nitrate + Nitrite as N by RFA	1.0	1.05	MGL	105.0	(90-110)
MSD	Nitrate + Nitrite as N by RFA	1.0	1.04	MGL	104.0	(90-110)

QC Ref #353817 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02160039	UGL		(0-0)	
LCS1	Chlorate by IC	200	191	UGL	95.5	(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	10.0	12.1	UGL	121.0	(50-150)	
MS	Chlorate by IC	100	81.6	UGL	81.6	(75-125)	
MSD	Chlorate by IC	100	88.1	UGL	88.1	(75-125)	
RPD_LCS	Chlorate by IC	95.500	99.000	UGL	3.6	(0-20)	
RPD_MS	Chlorate by IC	81.600	88.100	UGL	7.7	(0-20)	

QC Ref #353921 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02130380	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.387	MGL	96.8	(90-110)	
LCS2	Total phosphorus-P	0.4	0.400	MGL	100.0	(90-110)	
MBLK	Total phosphorus-P	ND	<0.020	MGL			
MS	Total phosphorus-P	0.4	0.384	MGL	96.0	(90-110)	
MSD	Total phosphorus-P	0.4	0.382	MGL	95.5	(90-110)	
RPD_LCS	Total phosphorus-P	96.750	100.000	MGL	3.3	(0-10)	
RPD_MS	Total phosphorus-P	96.000	95.500	MGL	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.



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#195993

Tronox LLC - Henderson
(continued)

QC Ref #354336

Kjeldahl Nitrogen

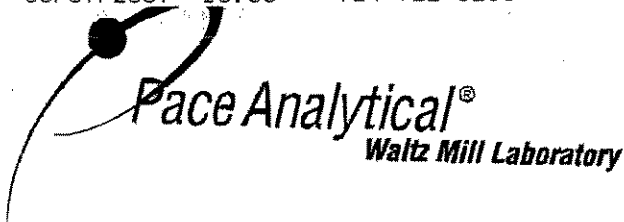
QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02090012	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	4.38	MGL	109.5	(90-110)	
LCS2	Kjeldahl Nitrogen	4	4.11	MGL	102.8	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.18	MGL	104.5	(90-110)	
MSD	Kjeldahl Nitrogen	4	4.17	MGL	104.2	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	109.500	102.750	MGL	6.4	(0-20)	
RPD_MS	Kjeldahl Nitrogen	104.500	104.250	MGL	0.2	(0-20)	

QC Ref #354443

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02120033	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	18.3	PCIL	110.2	(80-120)	
LCS2	Alpha, Gross	16.6	16.6	PCIL	100.0	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	27.3	PCIL	82.2	(70-130)	
RPD_LCS	Alpha, Gross	110.241	100.000	PCIL	9.7	(0-20)	
DUP	Beta, Gross	ND	ND	PCIL		(0-20)	
LCS1	Beta, Gross	15.7	17.5	PCIL	111.5	(80-120)	
LCS2	Beta, Gross	15.7	15.9	PCIL	101.3	(80-120)	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	23.8	PCIL	75.8	(70-130)	
RPD_LCS	Beta, Gross	111.465	101.274	PCIL	9.6	(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.



Kerr Magel-MP
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March 6, 2007

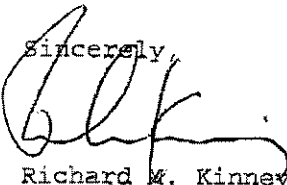
Ms. Elena Montanez
 MWH Americas, Inc
 750 Royal Oaks Drive
 Suite 100
 Monrovia, CA 91016-3629

Drinking Water Characterization; Purchase Order No. 99-26587
 195993, NV DW, Ra-226/228; NV Cert Expires 03/31/07; MWH Laboratories
 Pace Project No. 07-0934

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received on February 15, 2007 and logged in for analysis on February 16, 2007.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,


Richard W. Kinney
 Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-0934

CLIENT: Purchase Order Number: 99-26587

B: SAMPLE IDENTIFICATIONS:

PACE: 0702-0844

CLIENT: 2702130555

C: SHIPPING/RECEIVING COMMENTS:

Final Report 3/6/07.

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.

Table 1

General Data Table

MWH Americas, Inc.

Face Project No. 07-0934

Drinking Water Characterization; 195993, NV DW, Ra-226/228

Charge Order No. 99-26587; NV Cert Expires 03/31/07

Page 1 of 2

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act	Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	03/05/07	0.441	± 0.386
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/02/07	0.424	± 0.335
					(0.239)
					(0.684)

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

0000003

Table I
(Continued)

Page 2 of 2

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				ACT ± Unc (MDC)	Method Blank (2/15/07)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	03/05/07	0.219 ± 0.248	(0.198)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/02/07	0.739 ± 0.330	(0.596)

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

0000004

PACE Analytical Services, Inc
QC Sheet Drinking Water

Quality Control Sample Performance Assessment

Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: CMC
Date: 2/28/2007
Worklist: 14079
Matrix: DW



0000005

2/3/7/07

Method Blank Assessment

MB Sample ID: MB14079
 MB Concentration: 0.219
 MB Counting Uncertainty: 0.248
 MB MDC: 0.198
 MB Numerical Performance Indicator: 13.71
 MB Status vs Numerical Indicator: N/A
 MB Status vs MDC: See Comment*

Laboratory Control Sample Assessment

Count Date	Y
LCS14079 3/5/2007	06-005
08-005 57.284	0.10
0.500 11.457	0.500
0.275 11.457	0.275
1.271 1.856	9.150
-0.19 1.743	-2.58
98.39%	79.88%
N/A	N/A
Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS14079
 Duplicate Sample I.D.: LCS14079
 Sample Result Counting Uncertainty (pCi/L, g, F): 11.271
 Sample Duplicate Result (pCi/L, g, F): 1.856
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 9.150
 Are sample and/or duplicate results below MDC? NO
 Duplicate Numerical Performance Indicator: 1.833
 Duplicate RPD: 20.76%
 Duplicate Status vs Numerical Indicator: N/A
 Duplicate Status vs RPD: Pass

Sample Matrix Spike Control Assessment

Sample Collection Date: 2/12/2007
 Sample I.D.: 0702-0859
 Sample MS I.D.: 0702-0859AMS
 Sample MSD I.D.: 06-005
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 57.286
 Spike Volume Used in MS (mL): 0.20
 Spike Volume Used in MSD (mL): 0.500
 MS Aliquot (L, g, F): 22.914
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 Spike uncertainty (calculated): 0.550
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.000
 Sample Matrix Spike Result: 0.369
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 21.494
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): 2.507
 MS Numerical Performance Indicator: -1.074
 MSD Numerical Performance Indicator: 93.80%
 MS Percent Recovery: N/A
 MSD Percent Recovery: Pass
 MS Status vs Numerical Indicator: N/A
 MSD Status vs Numerical Indicator: Pass
 MS Status vs Recovery: Pass
 MSD Status vs Recovery: Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 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:

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

PACE Analytical Services, Inc.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

3/7/07

Test: Ra-228
Analyst: OLB
Date: 3/27/2007
Worklist: 14063
Matrix: DW

Method Blank Assessment

MB Sample ID: MB14063
 MB Concentration: 0.739
 MB Counting Uncertainty: 0.390
 MB MDC: 0.596
 MB Numerical Performance Indicator: 4.40
 MB Status vs Numerical Indicator: N/A
 MB Status vs MDC: **See Comment**

Laboratory Control Sample Assessment

Count Date:	Spike I.D.:	Spike Concentration (pCi/L, g, F):	Volume Used (mL):	Aliquot Volume (L, g, F):	Target Conc. (pCi/L, g, F):	Result (pCi/L, g, F):	Uncertainty (Calculated):	LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Numerical Performance Indicator:	Percent Recovery:	Status vs Numerical Indicator:	Status vs Recovery:
3/27/2007	06-009	70.138	0.10	0.800	0.272	0.272	0.642	0.642	71.36%	N/A	Pass	
3/27/2007	06-008	70.138	0.10	0.600	0.272	0.272	0.642	0.642	86.05%	N/A	Pass	

Duplicate Sample Assessment

Sample I.D.:	Duplicate Sample I.D.:	Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Are sample and/or duplicate results below MDC?	Duplicate Numerical Performance Indicator:	Duplicate RPD:	Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:
LCS14063	LCS14063	0.887	0.887	NO	0.604	4.77%	N/A	Pass

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

Sample Matrix Spike Control Assessment

Sample Collection Date:	Sample I.D.:	Sample MS I.D.:	Sample MSD I.D.:	Spike I.D.:	MS/MSD Decay Corrected Spike Concentration (pCi/L, g, F):	Spike Volume Used in MS (mL):	Spike Volume Used in MSD (mL):	MS Aliquot (L, g, F):	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):	Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:	MS Percent Recovery:	MSD Percent Recovery:	MS Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:	MS Status vs Recovery:	MSD Status vs Recovery:
2/12/2007	0702-0790	0702-0793MS	06-009	70.570	0.20	0.800	17.643	0.547	-0.066	0.317	11.321	0.855	-10.870	64.96%	N/A	MS Low***								

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	Sample MS I.D.:	Sample MSD I.D.:	Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample 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:
06-009	70.570	0.20	0.800	17.643	0.547	-0.066	0.317	11.321

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

Comments: *The method blank result is below the reporting limit for this analysis and is acceptable. **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.

9000006



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Ship To: **Mike Schnupp**

Pace Analytical - Waltz Mill

c/o Westinghouse Waltz Mill Site
170 Madison Exit
Madison, PA 15663

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

MWH Project # Report Due: Sub PO#
195993 03/08/07 99-26587



ncl

Client Sample ID for reference only

@R226ED

@R228ED

2702130555 EFFLUENT 0702-0844

IMS-0845

Fed Ex

6912 3673 9680

Relinquished by:

Received by:

Date

02/14/07

Submittal Form & Purchase Order 99-26587

***REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers**
Report & Invoice must have the MWH Project Number **195993** Sub PO# **99-26587** 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

Reports: Elena Montanez Sub-contracting Administrator
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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

07-0934

Analysis Requested Sample Date & Time Matrix Container

Radioactivity, Radium 226 Sub-contracted	02/12/07 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR CONTAMINANCE IN 'C'
Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR CONTAMINANCE IN 'C'