



MWH Laboratories

A Division of MWH Americas, Inc.

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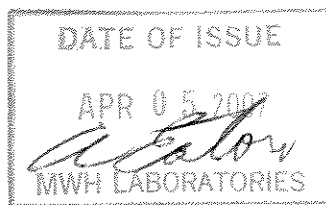
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager



Report#: 198527
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 14 page[s].



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 Ironox LLC- Henderson Standing

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

Client Code KERRMCGEE-MP
Project Code CLC4
PO# / Job#
Blanket PO

SO# 34500 6534 RS **0** **Sampler: Please Return this Paper with your samples**

Created by
Order Date **02/05/07**
Date Needed by Client
Date Samples to Arrive at MWL
SHIP LOCATION

Ship Sample Kits to
Veolia Water-Tronox LLC
Gate 1
8000 West Lake Mead Drive
Henderson, NV 89015

Billing Address
Ironox LLC
Attn: Accounts Payable
P.O. BOX 268859
Oklahoma City, OK 73126-8859

ATTN: Susan Crowley
PHONE: 702-651-2234
FAX: 702-651-2310
ATTN: Susan Crowley
PHONE: 702-651-2234
FAX: 702-651-2310

Quote#

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

UN#

Important Comments

# of Samples	Tests	Qty	Carrier	Date Shipped	Status	Tracking Number	Prepared By
1	CLO4	1	125ml poly /no preservative				
1	@RADCW8	2	1 125 ml poly / no pres & 1 x 500 ml poly + 2 ml HNO3 (18%)				
1	NH3, NH3-DIST	1	250 ml poly+ 1 ml H2SO4 (50%)				
1	PH, NO2-N, NO3, N-INOR, TSS	1	500 ml poly/ no preservative SHORT HOLDING TIME!!!!				
1	FE, CR	1	250ml poly acid rinsed + 1ml HNO3 (18%)				
1	T-P, TKN	1	250ml poly + 0.5ml H2SO4 (50%)				
1	COLOR	1	500ml amber glass / no preservative SHORT HOLDING TIME!!!!				
1	RA228EDD/RA226EDD	2	1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE DLS				
1	CLO3	1	60ml poly+0.60 mL 5% EDA sol'n				
			note: deleted CRVI-LOW from bottle order - being sent separately from now on				

This is the weekly order for the
EFFLUENT
NOTIFY LAB AS SOON AS CR-VI
COMES IN - 24HR ht
RA226/228 to be subbed to a NV
certified lab
**PLEASE SHIP EXTRA
BLUE ICE DUE TO
WARM WEATHER -
also use a LARGE
COOLER**
login - use profile
**#KERREFF for this site
CLIENT CODE CHANGED 7/25/03
Testcode for CRVI changed to IC
effective 1/6/04
Moved CBOD to separate order as
of 10/21/04
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
 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#: 198527
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **03/13/07**. 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
2703130663	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CLO4 COLOR CR FE N-INOR NH3 NO3 P PH T T-P TKN TSS	Water	12-mar-2007 06:30:00
2703130664	INFLUENT	CLO3 CLO4 COLOR CR NH3-DIST NO2-N NO3 NO3RFA P T-P TKN	Water	12-mar-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
#198527

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

(TKN) CCBs and Method Blank are greater than 1/2 MRL but less than MRL.

(T-P) Method Blank and CCBs bracketing these samples have values greater 1/2 MRL of 0.02ppm, but less than actual MRL.

(TKN) TKN is less than ammonia due to signal suppression on TKN. This has been documented in previous analyses. Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA. Nevada Cert PA91-2004-77



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Laboratory
Hits Report
#198527

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

Samples Received
13-mar-2007 17:23:50

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
2703130663		EFFLUENT				
04/02/07	Radium 226		<0.801	3	pCi/l	0.80
04/02/07	Radium 226, Minimal Detectable		0.801		pCi/l	
04/02/07	Radium 226, Two Sigma Error		0.357		pCi/l	
03/29/07	Radium 228		<0.732	5	pCi/l	0.73
03/29/07	Radium 228, Minimum Detectable		0.732		pCi/l	
03/29/07	Radium 228, Two Sigma Error		0.387		pCi/l	
03/21/07	Alpha, Gross		15	15	pCi/l	9.2
03/21/07	Alpha, Min Detectable Activity		9.18		pCi/l	
03/21/07	Alpha, Two Sigma Error		9.6		pCi/l	
03/21/07	Gross Alpha + adjusted error		23.1		pCi/l	
03/23/07	Ammonia Nitrogen		1.6		mg/l	0.10
03/13/07	Apparent Color		10	15	ACU	3.0
03/20/07	Iron, Total, ICAP		0.34	0.3	mg/l	0.040
03/22/07	Kjeldahl Nitrogen		3.0		mg/l	0.20
03/20/07	Metals digestion performed.		Y		Yes/No	
03/15/07	PH (H3=past HT, not compliant)		7.5	6.5-8.5	Units	0.0010
03/26/07	Total Inorganic Nitrogen-Calc		1.6		mg/l	0.20
03/20/07	Total phosphorus-P		0.15		mg/l	0.020
2703130664		INFLUENT				
03/23/07	Ammonia Nitrogen		2.6		mg/l	0.10
03/13/07	Apparent Color		10	15	ACU	3.0
03/17/07	Chlorate by IC		469000		ug/l	50000
03/13/07	Chromium, Total, ICAP		0.027		mg/l	0.020
03/16/07	Nitrate + Nitrite as N by RFA		16	10	mg/l	2.5
03/13/07	Nitrate as Nitrogen by IC		16	10	mg/l	5.0
03/20/07	Perchlorate		203000		ug/l	20000
03/26/07	Total Inorganic Nitrogen-Calc		19		mg/l	10
03/20/07	Total phosphorus-P		0.03		mg/l	0.020

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#198527

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

Samples Received
13-mar-2007 17:23:50

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2703130664	INFLUENT				



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Laboratory
 Data Report
 #198527

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

Samples Received
 03/13/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
EFFLUENT (2703130663) Sampled on 03/12/07 06:30								
	03/17/07 00:00	357766	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
	03/20/07 00:00	358352	(EPA 314)	Perchlorate	ND	ug/l	10	5
	03/13/07 00:00	357069	(ML/S2120B)	Apparent Color	10	ACU	3.0	1
	03/20/07 21:05	358182	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	03/20/07 11:54		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	03/20/07 21:05	358184	(ML/EPA 200.7)	Iron, Total, ICAP	0.34	mg/l	0.040	2
	03/26/07 09:53	358779	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	1.6	mg/l	0.20	50
	03/23/07 00:00	358749	(ML/EPA 350.1)	Ammonia Nitrogen	1.6	mg/l	0.10	2
	03/13/07 15:27	357083	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	03/13/07 15:27	357085	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
	03/15/07 00:00	357397	(4500HB/ E 150)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
	03/20/07 00:00	357999	(S4500PE/ 365.1)	Total phosphorus-P	0.15	mg/l	0.020	1
	03/22/07 00:00	358531	(ML/EPA 351.2)	Kjeldahl Nitrogen	3.0	mg/l	0.20	1
	03/16/07 14:16	357768	(ML/EPA 160.2)	Total Suspended Solids (TSS)	ND	mg/l	10	1
Gross Alpha Radiation								
	03/21/07 00:00	358835	(ML/EPA 900.0)	Alpha, Gross	15	pCi/l	9.2	1
	03/21/07 00:00	358835	(ML/EPA 900.0)	Gross Alpha + adjusted error	23.1	pCi/l	0	1
	03/21/07 00:00	358835	(ML/EPA 900.0)	Alpha, Two Sigma Error	9.6	pCi/l	0	1
	03/21/07 00:00	358835	(ML/EPA 900.0)	Alpha, Min Detectable Activity	9.18	pCi/l	0	1
Radium 226 (Sub)								
	04/02/07 00:00		(EPA 903.1)	Radium 226	<0.801	pCi/l	0.80	1
	04/02/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.357	pCi/l	0	1
	04/02/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.801	pCi/l	0	1
Radium 228 (Sub)								
	03/29/07 00:00		(EPA 904.0)	Radium 228	<0.732	pCi/l	0.73	1
	03/29/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.387	pCi/l	0	1
	03/29/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.732	pCi/l	0	1



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Laboratory
 Data Report
 #198527

Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2703130664)				Sampled on 03/12/07 07:00				
	03/17/07 00:00	357766	(ML/EPA 300.0)	Chlorate by IC	469000	ug/l	50000	5000
	03/20/07 00:00	358352	(EPA 314)	Perchlorate	203000	ug/l	20000	5000
	03/13/07 00:00	357069	(ML/S2120B)	Apparent Color	10	ACU	3.0	1
	03/13/07 23:26	356990	(ML/EPA 200.7)	Chromium, Total, ICAP	0.027	mg/l	0.020	2
	03/26/07 09:53	358779	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	19	mg/l	10	50
	03/23/07 00:00	358749	(ML/EPA 350.1)	Ammonia Nitrogen	2.6	mg/l	0.10	2
	03/13/07 15:14	357083	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	03/13/07 15:14	357085	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	16	mg/l	5.0	50
	03/16/07 16:45	357767	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	16	mg/l	2.5	25
	03/20/07 00:00	357999	(S4500PE/ 365.1)	Total phosphorus-P	0.03	mg/l	0.020	1
	03/22/07 00:00	358531	(ML/EPA 351.2)	Kjeldahl Nitrogen	ND	mg/l	0.20	1



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Laboratory
QC Summary
#198527

Tronox LLC - Henderson

QC Ref #356990 - Chromium, Total, ICAP Analysis Date: 03/13/2007

2703130664 INFLUENT Analyzed by: wbh

QC Ref #357069 - Apparent Color Analysis Date: 03/13/2007

2703130663 EFFLUENT Analyzed by: bxr
2703130664 INFLUENT Analyzed by: bxr

QC Ref #357083 - Nitrite, Nitrogen by IC Analysis Date: 03/13/2007

2703130663 EFFLUENT Analyzed by: jkz
2703130664 INFLUENT Analyzed by: jkz

QC Ref #357085 - Nitrate as Nitrogen by IC Analysis Date: 03/13/2007

2703130663 EFFLUENT Analyzed by: jkz
2703130664 INFLUENT Analyzed by: jkz

QC Ref #357397 - PH (H3=past HT, not compliant) Analysis Date: 03/15/2007

2703130663 EFFLUENT Analyzed by: sar

QC Ref #357766 - Chlorate by IC Analysis Date: 03/17/2007

2703130663 EFFLUENT Analyzed by: raja
2703130664 INFLUENT Analyzed by: raja

QC Ref #357767 - Nitrate + Nitrite as N by RFA Analysis Date: 03/16/2007

2703130664 INFLUENT Analyzed by: maria

QC Ref #357768 - Total Suspended Solids (TSS) Analysis Date: 03/16/2007

2703130663 EFFLUENT Analyzed by: anh



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Laboratory
QC Summary
#198527

Tronox LLC - Henderson
(continued)

QC Ref #357999 - Total phosphorus-P		Analysis Date: 03/20/2007
2703130663	EFFLUENT	Analyzed by: njr
2703130664	INFLUENT	Analyzed by: njr
QC Ref #358182 - Chromium, Total, ICAP		Analysis Date: 03/20/2007
2703130663	EFFLUENT	Analyzed by: wbh
QC Ref #358184 - Iron, Total, ICAP		Analysis Date: 03/20/2007
2703130663	EFFLUENT	Analyzed by: wbh
QC Ref #358352 - Perchlorate		Analysis Date: 03/20/2007
2703130663	EFFLUENT	Analyzed by: raja
2703130664	INFLUENT	Analyzed by: raja
QC Ref #358531 - Kjeldahl Nitrogen		Analysis Date: 03/22/2007
2703130663	EFFLUENT	Analyzed by: njr
2703130664	INFLUENT	Analyzed by: njr
QC Ref #358749 - Ammonia Nitrogen		Analysis Date: 03/23/2007
2703130663	EFFLUENT	Analyzed by: nina
2703130664	INFLUENT	Analyzed by: nina
QC Ref #358779 - Total Inorganic Nitrogen-Calc		Analysis Date: 03/26/2007
2703130663	EFFLUENT	Analyzed by: dwr
2703130664	INFLUENT	Analyzed by: dwr



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Laboratory
QC Summary
#198527

Tronox LLC - Henderson
(continued)

QC Ref #358835 - Gross Alpha Radiation

2703130663

EFFLUENT

Analysis Date: 03/21/2007

Analyzed by: ajc



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Laboratory
QC Report
#198527

Tronox LLC - Henderson

QC Ref #356990 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.954	MGL	95.4	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.947	MGL	94.7	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0102	MGL	102.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.947	MGL	94.7	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.949	MGL	94.9	(70-130)	

QC Ref #357069 Apparent Color

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

QC Ref #357083 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03130007	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.03	MGL	103.0	(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	0.050	0.0573	MGL	114.6	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.526	MGL	105.2	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.527	MGL	105.4	(90-110)	
RPD_LCS	Nitrite, Nitrogen by IC	103.000	101.000	MGL	2.0	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	105.200	105.400	MGL	0.2	(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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#198527

Tronox LLC - Henderson
(continued)

QC Ref #357085 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03130007	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.41	MGL	96.4	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0461	MGL	92.2	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.20	MGL	96.0	(80-112)	
MSD	Nitrate as Nitrogen by IC	1.25	1.20	MGL	96.0	(80-112)	
RPD_LCS	Nitrate as Nitrogen by IC	98.000	96.400	MGL	1.6	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	96.000	96.000	MGL	0.0	(0-20)	

QC Ref #357397 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03140006	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	7.8	7.7	UNIT		(0-20)	1.3

QC Ref #357766 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03090128	UGL		(0-0)	
LCS1	Chlorate by IC	200	213	UGL	106.5	(90-110)	
LCS2	Chlorate by IC	200	209	UGL	104.5	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	12.3	UGL	123.0	(50-150)	
MS	Chlorate by IC	100	101	UGL	101.0	(75-125)	
MSD	Chlorate by IC	100	108	UGL	108.0	(75-125)	
RPD_LCS	Chlorate by IC	106.500	104.500	UGL	1.9	(0-20)	
RPD_MS	Chlorate by IC	101.000	108.000	UGL	6.7	(0-20)	

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Tronox LLC - Henderson
 (continued)

QC Ref #357767 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03090133	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.97	MGL	97.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.98	MGL	98.0	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.07	MGL	140.0	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1.0	0.94	MGL	94.0	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.90	MGL	90.0	(90-110)	

QC Ref #357768 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03140059	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	164	MGL	93.7	(80-120)	
LCS2	Total Suspended Solids (TSS)	175	164	MGL	93.7	(80-120)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

QC Ref #357999 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03130608	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.423	MGL	105.7	(90-110)	
LCS2	Total phosphorus-P	0.4	0.440	MGL	110.0	(90-110)	
MBLK	Total phosphorus-P	ND	<0.020	MGL			
MS	Total phosphorus-P	0.4	0.436	MGL	109.0	(90-110)	
MSD	Total phosphorus-P	0.4	0.419	MGL	104.7	(90-110)	
RPD_LCS	Total phosphorus-P	105.750	110.000	MGL	3.9	(0-10)	
RPD_MS	Total phosphorus-P	109.000	104.750	MGL	4.0	(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 #358182 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.968	MGL	96.8	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.985	MGL	98.5	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.010	MGL	100.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.967	MGL	96.7	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.986	MGL	98.6	(70-130)	

QC Ref #358184 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.86	MGL	97.2	(85-115)	
LCS2	Iron, Total, ICAP	5.0	4.96	MGL	99.2	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0213	MGL	106.5	(50-150)	
MS	Iron, Total, ICAP	5.0	5.00	MGL	100.0	(70-130)	
MS2	Iron, Total, ICAP	5.0	4.81	MGL	96.2	(70-130)	
MSD	Iron, Total, ICAP	5.0	5.13	MGL	102.6	(70-130)	
MSD2	Iron, Total, ICAP	5.0	4.83	MGL	96.6	(70-130)	
RPD_MS	Iron, Total, ICAP	100.000	102.600	MGL	2.6	(0-20)	

QC Ref #358352 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03140188	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.1	UGL	100.4	(85-115)	
LCS2	Perchlorate	25.0	25.4	UGL	101.6	(85-115)	
LCS3	Perchlorate	4	3.83	UGL	95.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.1	UGL	96.4	(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)

Method	Analyte	25.0	22.2	UGL	88.8	(70-130)
MSD	Perchlorate					
RPD_LCS	Perchlorate	100.400	101.600	UGL	1.2	(0-20)
RPD_MS	Perchlorate	96.400	88.800	UGL	8.2	(0-20)

QC Ref #358531 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03140075	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	4.06	MGL	101.5	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.99	MGL	99.8	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	3.80	MGL	95.0	(90-110)	
MSD	Kjeldahl Nitrogen	4	3.86	MGL	96.5	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	101.500	99.750	MGL	1.7	(0-20)	
RPD_MS	Kjeldahl Nitrogen	95.000	96.500	MGL	1.6	(0-20)	

QC Ref #358749 Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03140255	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.07	MGL	107.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.08	MGL	108.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MRL_CHK	Ammonia Nitrogen	0.05	0.041	MGL	<u>0.8</u>	(50-150)	
MS	Ammonia Nitrogen	1.00	1.03	MGL	103.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	
MS_2ND	Ammonia Nitrogen	1	1.05	MGL	105.0	(90-110)	
RPD_LCS	Ammonia Nitrogen	107.000	108.000	MGL	0.9	(0-20)	
RPD_MS	Ammonia Nitrogen	103.000	104.000	MGL	1.0	(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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Laboratory
QC Report
#198527

Tronox LLC - Henderson
(continued)

QC Ref #358835

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03130100	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	17.9	PCIL	107.8	(80-120)	
LCS2	Alpha, Gross	16.6	18.4	PCIL	110.8	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	37.3	PCIL	112.3	(70-130)	
RPD_LCS	Alpha, Gross	107.831	110.843	PCIL	2.8	(0-20)	
DUP	Beta, Gross	ND	ND	PCIL		(0-20)	
LCS1	Beta, Gross	15.7	17.1	PCIL	108.9	(80-120)	
LCS2	Beta, Gross	15.7	14.7	PCIL	93.6	(80-120)	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	32.5	PCIL	103.5	(70-130)	
RPD_LCS	Beta, Gross	108.917	93.631	PCIL	15.1	(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.



Kerr magoo

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April 4, 2007

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

Wastewater Characterization; Purchase Order No. 99-27074
198527 NV ww, Ra-226/228; NV Cert Expires 04/30/07; MWH Laboratories
Pace Project No. 07-1559

Dear Ms. Montanez:

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

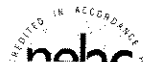
Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:jac

Enclosures

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.



PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-1559

CLIENT: Purchase Order Number: 99-27074

B: SAMPLE IDENTIFICATIONS:

PACE: 0703-0911

CLIENT: 2703130663

C: SHIPPING/RECEIVING COMMENTS:

Final Report 4/4/07.

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.

0000002

0000003

Table 1

General Data Table

MWH Americas, Inc.

Pace Project No. 07-1559

Wastewater Characterization; 198527 NV ww, Ra-226/228

Charge Order No. 99-27074; NV Cert Expires 04/30/07

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act + Unc (MDC)	
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	04/02/07	0703-0911	0.000 ± 0.357 (0.801)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/29/07	2703130663 (3/12/07)	0.566 ± 0.387 (0.732)

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

0000004

Table 1
(Continued)

Page 2 of 2

Parameter	Analytical Method	Units	Sample Identification	
			Analyzed	Act + Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	04/02/07	0.167 ± 0.233 (0.226)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/29/07	0.621 ± 0.327 (0.558)

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



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CMC
Date: 3/28/2007
Worklist: 14255
Matrix: DW

Method Blank Assessment

MB Sample ID: MB14255
MB concentration: 0.167
M/B Counting Uncertainty: 0.231
MB MDC: 0.226
MB Numerical Performance Indicator: 11.98
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

Count Date	LCS14255	Y	LCS214255
4/2/2007	06-005	57.283	06-005
Spike I.D.:	57.283	0.10	57.283
Spike Concentration (pCi/mL):	0.500	0.500	0.500
Volume Used (mL):	11.457	11.457	11.457
Aliquot Volume (L, g, F):	0.275	0.275	0.275
Target Conc. (pCi/L, g, F):	11.739	11.962	11.962
Uncertainty (Calculated):	1.742	1.838	1.838
Result (pCi/L, g, F):	-0.35	0.53	0.53
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	97.23%	104.41%	104.41%
Numerical Performance Indicator:	N/A	N/A	N/A
Status vs Numerical Indicator:	Pass	Pass	Pass
Percent Recovery:			
Status vs Recovery:			

Duplicate Sample Assessment

Sample I.D.: LCS14255
Duplicate Sample I.D.: LCS214255
Sample Result (pCi/L, g, F): 11.139
Sample Result Counting Uncertainty (pCi/L, g, F): 1.742
Sample Duplicate Result (pCi/L, g, F): 11.962
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 1.838
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: -0.637
Duplicate RPD: 7.12%
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:

Sample Matrix Spike Control Assessment

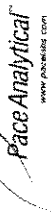
Sample Collection Date: 3/13/2007
Sample I.D.: 0703-0915
Sample MS I.D.: 0703-0915MS
Sample MSD I.D.: 06-005
MS/MSD Decay Corrected Spike Concentration (pCi/mL): 57.284
Spike I.D.: 0.20
Spike Volume Used in MSD (mL): 0.500
MS Aliquot (L, g, F): 22.914
MSD Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated): 0.550
Sample Result: -0.070
Sample Result Counting Uncertainty (pCi/L, g, F): 0.239
Sample Matrix Spike Result: 18.741
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 2.311
Sample Matrix Spike Duplicate Result: -3.367
MS Numerical Performance Indicator: 82.10%
MSD Numerical Performance Indicator: N/A
MS Status vs Numerical Indicator: Pass
MSD Status vs Recovery: Pass

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:
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
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:

0000006

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: OLB
 Date: 3/29/2007
 Worklist: 14264
 Matrix: DW

24/4/06

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID: MB14264
 MB concentration: 0.621
 MB Counting Uncertainty: 0.306
 MB MDC: 0.558
 MB Numerical Performance Indicator: 3.98
 MB Status vs Numerical Indicator: N/A
 MB Status vs. MDC: See Comment

Laboratory Control Sample Assessment

LCS (Y or N)?	Y
LCS14264	3/29/2007
LCS14264	06-009
Count Date:	3/29/2007
Spike I.D.:	06-009
Spike Concentration (pCi/mL):	69.515
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.800
Target Conc. (pCi/L, g, F):	8.689
Uncertainty (Calculated):	0.269
Result (pCi/L, g, F):	6.077
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.663
Numerical Performance Indicator:	-7.15
Percent Recovery:	69.93%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment

Sample I.D.: LCS14264
 Duplicate Sample I.D.: LCS14264
 Sample Result (pCi/L, g, F): 6.263
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.667
 Sample Duplicate Result (pCi/L, g, F): 6.077
 Sample Duplicate Counting Uncertainty (pCi/L, g, F): 0.663
 Are sample and/or duplicate results below MDC? NO
 Duplicate Numerical Performance Indicator: 0.388
 Duplicate RPD: 3.02%
 Duplicate Status vs Numerical Indicator: N/A
 Duplicate Status vs RPD: Pass

Sample Matrix Spike Control Assessment

Sample Collection Date: 3/7/2007
 Sample I.D.: 0703-0627
 Sample MS I.D.: 0703-0627MS
 Sample MSD I.D.:
 Spike I.D.: 06-009
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 70.037
 Spike Volume Used in MS (mL): 0.20
 Spike Volume Used in MSD (mL):
 MS Aliquot (L, g, F): 0.800
 MS Target Conc. (pCi/L, g, F): 17.509
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F): 0.543
 Spike uncertainty (calculated):
 Sample Result: 0.190
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.260
 Sample Matrix Spike Result: 12.691
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 0.827
 Sample Matrix Spike Duplicate Result:
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 MS Numerical Performance Indicator: -9.599
 MSD Numerical Performance Indicator:
 MS Percent Recovery: 71.40%
 MSD Percent Recovery:
 MS Status vs Numerical Indicator: N/A
 MSD Status vs Numerical Indicator:
 MS Status vs Recovery: Pass
 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:
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Sample Matrix Spike Duplicate 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:

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.



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 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016-3629
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Ship To
Mike Schnupp
Pace Analytical - Waltz Mill

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

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

MWH Project # Report Due: Sub PO#
 198527 04/05/07 99 - 27074



enmm

Client Sample ID for reference only

Date 03/14/07 Submittal Form & Purchase Order 99-27074

*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!
 Report & Invoice must have the MWH Project Number 198527 and Job # 1000032
 Sub PO# 99-27074

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
 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

07-1559
 Provide in each Report
 the Specified State
 Certification # & Exp Date for
 requested tests + matrix

NEVEDA

Analysis Requested	Sample Date & Time	Matrix	Container
Radioactivity, Radium 226 Sub-contracted	03/12/07 06:30	(W) 1 1L poly + 4ml HNO3 (18%) COMPLIANCE D.C.	
Radioactivity, Radium 228 Sub-contracted		(W) 2 1L poly + 4ml HNO3 (18%) COMPLIANCE D.C.	
Method Blank		not 3/15/07	

Relinquished by: *[Signature]* Date 03/14/07 Time 14:15
 Sample Control
 Received by: *[Signature]* Date 3/15/07 Time 10:20
 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS
 Page 1
 An Acknowledgement of Receipt is requested to attn: Julie Lee