



MWH Laboratories

A Division of MWH Americas, Inc.

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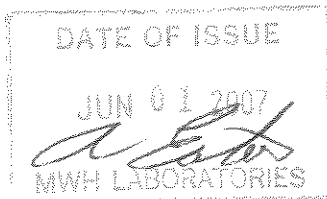
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager



Report#: 202443
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 15 page[s].



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) TKN on influent is less than ammonia due to signal suppression on TKN. This has been documented on previous analyses.

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



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Laboratory
Hits Report
#202443

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

Samples Received
24-apr-2007 13:36:35

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2704240150	EFFLUENT				
05/07/07		Radium 226	<0.771	3	pCi/l	0.77
05/07/07		Radium 226, Minimal Detectable	0.771		pCi/l	
05/07/07		Radium 226, Two Sigma Error	0.397		pCi/l	
05/09/07		Radium 228	<0.866	5	pCi/l	0.87
05/09/07		Radium 228, Minimum Detectable	0.866		pCi/l	
05/09/07		Radium 228, Two Sigma Error	0.414		pCi/l	
04/27/07		Alpha, Gross	31	15	pCi/l	9.9
04/27/07		Alpha, Min Detectable Activity	9.88		pCi/l	
04/27/07		Alpha, Two Sigma Error	12		pCi/l	
04/27/07		Gross Alpha + adjusted error	41.1		pCi/l	
04/30/07		Ammonia Nitrogen	0.39		mg/l	0.050
04/24/07		Apparent Color	15	15	ACU	3.0
05/01/07		Iron, Total, ICAP	1.7	0.3	mg/l	0.040
04/27/07		Kjeldahl Nitrogen	1.9		mg/l	0.20
04/27/07		Metals digestion performed.	Y		Yes/No	
04/25/07		PH (H3=past HT, not compliant)	7.5	6.5-8.5	Units	0.010
05/01/07		Total Inorganic Nitrogen-Calc	0.39		mg/l	0.20
04/24/07		Total Suspended Solids (TSS)	14		mg/l	10
04/26/07		Total phosphorus as P	0.09		mg/l	0.020
	2704240152	INFLUENT				
04/30/07		Ammonia Nitrogen	3.8		mg/l	0.50
04/24/07		Apparent Color	15	15	ACU	3.0
04/27/07		Chlorate by IC	442000		ug/l	50000
04/24/07		Chromium, Total, ICAP	0.22		mg/l	0.020
04/24/07		Hexavalent chromium(Dissolved)	54		ug/l	0.10
04/27/07		Kjeldahl Nitrogen	1.1		mg/l	1.0
05/07/07		Nitrate + Nitrite as N by RFA	15	10	mg/l	2.0
04/24/07		Nitrate as Nitrogen by IC	14	10	mg/l	0.62

SUMMARY OF POSITIVE DATA ONLY.



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Samples Received
24-apr-2007 13:36:35

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2704240152	INFLUENT				
04/27/07	Perchlorate		234000		ug/l	20000
05/01/07	Total Inorganic Nitrogen-Calc		18		mg/l	10



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Laboratory
Data Report
#202443

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

Samples Received
04/24/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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EFFLUENT (2704240150) Sampled on 04/23/07 06:30

04/27/07 00:00	364061	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
04/27/07 00:00	364048	(EPA 314)	Perchlorate	ND	ug/l	10	5
04/24/07 00:00	363472	(ML/SM2120B)	Apparent Color	15	ACU	3.0	1
05/01/07 12:27	364357	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
04/24/07 14:19	363209	(EPA 218.6)	Hexavalent chromium(Dissolved)	ND	ug/l	0.10	1
04/27/07 12:27		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
05/01/07 12:27	364361	(ML/EPA 200.7)	Iron, Total, ICAP	1.7	mg/l	0.040	2
05/01/07 14:10	364222	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	0.39	mg/l	0.20	50
04/30/07 00:00	364073	(ML/EPA 350.1)	Ammonia Nitrogen	0.39	mg/l	0.050	1
04/24/07 13:44	363380	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
04/24/07 13:44	363382	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
04/25/07 00:00	363490	(SM4500-HB)	PH (H3=past HT, not compliant)	7.5	Units	0.010	1
04/26/07 00:00	363955	(S4500PE/ 365.1)	Total phosphorus as P	0.09	mg/l	0.020	1
04/27/07 00:00	364121	(ML/EPA 351.2)	Kjeldahl Nitrogen	1.9	mg/l	0.20	1
04/24/07 19:30	363348	(ML/EPA 160.2)	Total Suspended Solids (TSS)	14	mg/l	10	1

Gross Alpha Radiation

04/27/07 00:00	364504	(ML/EPA 900.0)	Alpha, Gross	31	pCi/l	9.9	1
04/27/07 00:00	364504	(ML/EPA 900.0)	Gross Alpha + adjusted error	41.1	pCi/l	0	1
04/27/07 00:00	364504	(ML/EPA 900.0)	Alpha, Two Sigma Error	12	pCi/l	0	1
04/27/07 00:00	364504	(ML/EPA 900.0)	Alpha, Min Detectable Activity	9.88	pCi/l	0	1

Radium 226 (Sub)

05/07/07 00:00		(EPA 903.1)	Radium 226	<0.771	pCi/l	0.77	1
05/07/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.397	pCi/l	0	1
05/07/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.771	pCi/l	0	1

Radium 228 (Sub)

05/09/07 00:00		(EPA 904.0)	Radium 228	<0.866	pCi/l	0.87	1
05/09/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.414	pCi/l	0	1
05/09/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.866	pCi/l	0	1



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Data Report
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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2704240152)				Sampled on 04/23/07 07:00				
	04/27/07 00:00	364061	(ML/EPA 300.0)	Chlorate by IC	442000	ug/l	50000	5000
	04/27/07 00:00	364048	(EPA 314)	Perchlorate	234000	ug/l	20000	5000
	04/24/07 00:00	363472	(ML/SM2120B)	Apparent Color	15	ACU	3.0	1
	04/24/07 15:11	363230	(ML/EPA 200.7)	Chromium, Total, ICAP	0.22	mg/l	0.020	2
	04/24/07 15:23	363209	(EPA 218.6)	Hexavalent chromium(Dissolved)	54	ug/l	0.10	1
	05/01/07 14:10	364222	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	18	mg/l	10	50
	04/30/07 00:00	364073	(ML/EPA 350.1)	Ammonia Nitrogen	3.8	mg/l	0.50	10
	04/24/07 13:30	363380	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	04/24/07 13:30	363382	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	14	mg/l	0.62	50
	05/07/07 16:55	365523	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	15	mg/l	2.0	20
	04/26/07 00:00	363955	(S4500PE/ 365.1)	Total phosphorus as P	ND	mg/l	0.020	1
	04/27/07 00:00	364121	(ML/EPA 351.2)	Kjeldahl Nitrogen	1.1	mg/l	1.0	5



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QC Summary
#202443

Tronox LLC - Henderson

QC Ref #363209 - Hexavalent chromium(Dissolved) Analysis Date: 04/24/2007

2704240150	EFFLUENT	Analyzed by: tlh
2704240152	INFLUENT	Analyzed by: tlh

QC Ref #363230 - Chromium, Total, ICAP Analysis Date: 04/24/2007

2704240152	INFLUENT	Analyzed by: wbh
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QC Ref #363348 - Total Suspended Solids (TSS) Analysis Date: 04/24/2007

2704240150	EFFLUENT	Analyzed by: dtn
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QC Ref #363380 - Nitrite, Nitrogen by IC Analysis Date: 04/24/2007

2704240150	EFFLUENT	Analyzed by: jkz
2704240152	INFLUENT	Analyzed by: jkz

QC Ref #363382 - Nitrate as Nitrogen by IC Analysis Date: 04/24/2007

2704240150	EFFLUENT	Analyzed by: jkz
2704240152	INFLUENT	Analyzed by: jkz

QC Ref #363472 - Apparent Color Analysis Date: 04/24/2007

2704240150	EFFLUENT	Analyzed by: bxr
2704240152	INFLUENT	Analyzed by: bxr

QC Ref #363490 - PH (H3=past HT, not compliant) Analysis Date: 04/25/2007

2704240150	EFFLUENT	Analyzed by: sar
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QC Ref #363955 - Total phosphorus as P Analysis Date: 04/26/2007

2704240150	EFFLUENT	Analyzed by: njr
2704240152	INFLUENT	Analyzed by: njr



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QC Summary
#202443

Tronox LLC - Henderson
(continued)

QC Ref #364048 - Perchlorate

Analysis Date: 04/27/2007

2704240150 EFFLUENT
2704240152 INFLUENT

Analyzed by: raja
Analyzed by: raja

QC Ref #364061 - Chlorate by IC

Analysis Date: 04/27/2007

2704240150 EFFLUENT
2704240152 INFLUENT

Analyzed by: raja
Analyzed by: raja

QC Ref #364073 - Ammonia Nitrogen

Analysis Date: 04/30/2007

2704240150 EFFLUENT
2704240152 INFLUENT

Analyzed by: nina
Analyzed by: nina

QC Ref #364121 - Kjeldahl Nitrogen

Analysis Date: 04/27/2007

2704240150 EFFLUENT
2704240152 INFLUENT

Analyzed by: njr
Analyzed by: njr

QC Ref #364222 - Total Inorganic Nitrogen-Calc Analysis Date: 05/01/2007

2704240150 EFFLUENT
2704240152 INFLUENT

Analyzed by: dwr
Analyzed by: dwr

QC Ref #364357 - Chromium, Total, ICAP

Analysis Date: 05/01/2007

2704240150 EFFLUENT

Analyzed by: wbh

QC Ref #364361 - Iron, Total, ICAP

Analysis Date: 05/01/2007

2704240150 EFFLUENT

Analyzed by: wbh



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QC Summary
#202443

Tronox LLC - Henderson
(continued)

QC Ref #364504 - Gross Alpha Radiation

Analysis Date: 04/27/2007

2704240150

EFFLUENT

Analyzed by: ajc

QC Ref #365523 - Nitrate + Nitrite as N by RFA Analysis Date: 05/07/2007

2704240152

INFLUENT

Analyzed by: dtn



Tronox LLC - Henderson

QC Ref #363209 Hexavalent chromium(Dissolved)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	04240150	UGL		(0-0)	
LCS1	Hexavalent chromium(Dissolved)	2.0	2.10	UGL	105.0	(90-110)	
LCS2	Hexavalent chromium(Dissolved)	2.0	2.10	UGL	105.0	(90-110)	
MBLK	Hexavalent chromium(Dissolved)	ND	<0.10	UGL			
MRL_CHK	Hexavalent chromium(Dissolved)	0.100	0.095	UGL	95.0	(50-150)	
MS	Hexavalent chromium(Dissolved)	2.0	2.06	UGL	103.0	(90-110)	
MSD	Hexavalent chromium(Dissolved)	2.0	2.18	UGL	109.0	(90-110)	
RPD_LCS	Hexavalent chromium(Dissolved)	105.000	105.000	UGL	0.0	(0-20)	
RPD_MS	Hexavalent chromium(Dissolved)	103.000	109.000	UGL	5.7	(0-20)	

QC Ref #363230 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.973	MGL	97.3	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.97	MGL	97.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0097	MGL	97.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.966	MGL	96.6	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.997	MGL	99.7	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.968	MGL	96.8	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.995	MGL	99.5	(70-130)	

QC Ref #363348 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	04230184	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	150	MGL	85.7	(80-120)	
LCS2	Total Suspended Solids (TSS)	175	142	MGL	81.1	(80-120)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			
MRL_CHK	Total Suspended Solids (TSS)	10.0	10	MGL	100.0	(50-150)	

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
#202443

Tronox LLC - Henderson
(continued)

QC Ref #363380 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	04230298	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.01	MGL	101.0	(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	0.0534	MGL	106.8	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.491	MGL	98.2	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.49	MGL	98.0	(90-110)	
RPD_LCS	Nitrite, Nitrogen by IC	101.000	101.000	MGL	0.0	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	98.200	98.000	MGL	0.2	(0-20)	

QC Ref #363382 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	04230298	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.48	MGL	99.2	(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	0.0467	MGL	93.4	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.21	MGL	96.8	(80-112)	
MSD	Nitrate as Nitrogen by IC	1.25	1.20	MGL	96.0	(80-112)	
RPD_LCS	Nitrate as Nitrogen by IC	99.200	98.000	MGL	1.2	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	96.800	96.000	MGL	0.8	(0-20)	

QC Ref #363472 Apparent Color

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

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Tronox LLC - Henderson
(continued)

QC Ref #363490 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	04240634	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	8.2	8.2	UNIT		(0-20)	0.0

QC Ref #363955 Total phosphorus as P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	04190237	MGL		(0-0)	
LCS1	Total phosphorus as P	0.4	0.400	MGL	100.0	(90-110)	
LCS2	Total phosphorus as P	0.4	0.402	MGL	100.5	(90-110)	
MBLK	Total phosphorus as P	ND	<0.020	MGL			
MRL_CHK	Total phosphorus as P	0.02	0.012	MGL	60.0	(50-150)	
MS	Total phosphorus as P	0.4	0.438	MGL	109.5	(90-110)	
MS2	Total phosphorus as P	0.4	0.434	MGL	108.5	(90-110)	
MSD	Total phosphorus as P	0.4	0.428	MGL	107.0	(90-110)	
RPD_LCS	Total phosphorus as P	100.000	100.500	MGL	0.5	(0-10)	
RPD_MS	Total phosphorus as P	109.500	107.000	MGL	2.3	(0-20)	

QC Ref #364048 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	04230353	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.0	UGL	100.0	(85-115)	
LCS2	Perchlorate	25.0	24.9	UGL	99.6	(85-115)	
LCS3	Perchlorate	4	3.80	UGL	95.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	19.4	UGL	77.6	(70-130)	
MSD	Perchlorate	25.0	20.8	UGL	83.2	(70-130)	
RPD_LCS	Perchlorate	100.000	99.600	UGL	0.4	(0-20)	
RPD_MS	Perchlorate	77.600	83.200	UGL	7.0	(0-20)	

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Tronox LLC - Henderson
(continued)

QC Ref #364061

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	04250014	UGL		(0-0)	
LCS1	Chlorate by IC	200	200	UGL	100.0	(90-110)	
LCS2	Chlorate by IC	200	202	UGL	101.0	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	11.4	UGL	114.0	(50-150)	
MS	Chlorate by IC	100	95.7	UGL	95.7	(75-125)	
MSD	Chlorate by IC	100	92.4	UGL	92.4	(75-125)	
RPD_LCS	Chlorate by IC	100.000	101.000	UGL	1.0	(0-20)	
RPD_MS	Chlorate by IC	95.700	92.400	UGL	3.5	(0-20)	

QC Ref #364073

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	04190238	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.03	MGL	103.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MRL_CHK	Ammonia Nitrogen	0.05	0.043	MGL	86.0	(50-150)	
MS	Ammonia Nitrogen	1.00	0.941	MGL	94.1	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.962	MGL	96.2	(90-110)	
MS_2ND	Ammonia Nitrogen	1	0.969	MGL	96.9	(90-110)	
RPD_LCS	Ammonia Nitrogen	104.000	103.000	MGL	1.0	(0-20)	
RPD_MS	Ammonia Nitrogen	94.100	96.200	MGL	2.2	(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.



Tronox LLC - Henderson
(continued)

QC Ref #364121

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	04190501	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.90	MGL	97.5	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.89	MGL	97.2	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MRL_CHK	Kjeldahl Nitrogen	0.1	0.066	MGL	66.0	(50-150)	
MS	Kjeldahl Nitrogen	4	3.89	MGL	97.2	(90-110)	
MSD	Kjeldahl Nitrogen	4	3.76	MGL	94.0	(90-110)	
MS_2ND	Kjeldahl Nitrogen	4	3.85	MGL	96.2	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	97.500	97.250	MGL	0.3	(0-20)	
RPD_MS	Kjeldahl Nitrogen	97.250	94.000	MGL	3.4	(0-20)	

QC Ref #364357

Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.986	MGL	98.6	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(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	1.01	MGL	101.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.997	MGL	99.7	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	

QC Ref #364361

Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.97	MGL	99.4	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.12	MGL	102.4	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	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.

Tronox LLC - Henderson
 (continued)

MRL_CHK	Analyte	0.020	0.0199	MGL	99.5	(50-150)
MS	Iron, Total, ICAP	5.0	5.15	MGL	103.0	(70-130)
MS2	Iron, Total, ICAP	5.0	5.10	MGL	102.0	(70-130)
MSD	Iron, Total, ICAP	5.0	5.16	MGL	103.2	(70-130)
MSD2	Iron, Total, ICAP	5.0	5.24	MGL	104.6	(70-130)
RPD_LCS	Iron, Total, ICAP	99.400	102.400	MGL	3.0	(0-20)
RPD_MS	Iron, Total, ICAP	103.000	103.200	MGL	0.2	(0-20)

QC Ref #364504
Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	04240035	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	15.4	PCIL	92.8	(80-120)	
LCS2	Alpha, Gross	16.6	14.8	PCIL	89.2	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	31.7	PCIL	95.5	(70-130)	
RPD_LCS	Alpha, Gross	92.771	89.157	PCIL	4.0	(0-20)	
DUP	Beta, Gross	ND	ND	PCIL		(0-20)	
LCS1	Beta, Gross	15.7	16.0	PCIL	101.9	(80-120)	
LCS2	Beta, Gross	15.7	15.4	PCIL	98.1	(80-120)	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	31.9	PCIL	101.6	(70-130)	
RPD_LCS	Beta, Gross	101.911	98.089	PCIL	3.8	(0-20)	

QC Ref #365523
Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	04270100	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.99	MGL	99.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.96	MGL	96.0	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.057	MGL	114.0	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1.0	1.02	MGL	102.0	(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.



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#202443

Tronox LLC - Henderson
(continued)

MSD	Nitrate + Nitrite as N by RFA	1.0	1.00	MGL	100.0	(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.



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

202443

M/LABS USE ONLY:

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

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

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

SAMPLE TEMP, RECEIPT AT LAB: *4*

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: KERRMCGEE-MP PROJECT JOB # / P.O.#: Weekly Permit Compliance Samples - SO #6532 & #6534

SAMPLER SIGNATURE: *Michele Brown* Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009

Susan Crowley (702) 651-2234

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CLO4	RAD/CWB (2 Bts)	NH3, NH3-DIST	PH, NO2-N, NO3-N, INOR, TSS	CLO3	FE, CR	T-P, TKN	Color	RA228EDD/RA228EDD (2 Bts)	CR	NO2-N, NO3-N, INOR	CMI	SAMPLER COMMENTS	
6:30 AM	4/23/2007			EFFLUENT	X		X	X	X	X	X	X	X	X	X			X		Revised SO #6534
7:00	4/23/2007			INFLUENT	X		X	X	X	X	X	X	X	X	X			X		Revised SO #6532

Reported by Volume:

CFW = Chloraminated Finished Water

FW = Other Finished Water

Reported by Weight:

SO = Soil

SL = Sludge

RGW = Raw Ground Water

CFW = Chloraminated Finished Water

FW = Other Finished Water

CWW = Chlorinated Waste Water

WW = Other Waste Water

SW = Storm Water

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY: *Michele Brown*

RECEIVED BY: *[Signature]*

RELINQUISHED BY: *[Signature]*

RECEIVED BY: *[Signature]*

Michele Brown

JOE SANCER

Veolia Water NA for Tronox LLC - Henderson Plant

4/23/2007

12:00 PM



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

Client Code KERRMCGEE-MP W Weekly
 Project Code CLO4 Week 1
 PO# / Job#
 Blanket PO

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

SO# 6534 RS 1 **Sampler: Please Return this Paper with your samples**

Created by AND
 Order Date 08/28/00
 Date Needed by Client
 Date Samples to Arrive at MWL

Send Report to
 Ironox LLC-Henderson Plant
 P.O. Box 55
 Henderson, NV 89009

Billing Address
 Ironox 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#
 ANDRE

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

Important Comments

# of Samples	Tests	UN#	Important Comments
1	CLO4		This is the weekly order for the
1	@RADCW	UN 2031	EFFLUENT
1	NH3, NH3-DIST	UN 2796	RA226/228 to be subbed to a NV certified lab
1	PH, NO2-N, NO3, N-INOR, TSS		PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER - also use a LARGE COOLER
1	FE, CR	UN2031	login - use profile #KERREFF
1	T-P, TKN	UN2796	+CRVI-LOW
1	COLOR		for this site
1	RA228EDD/RA226EDD	UN 2031	CLIENT CODE CHANGED 7/25/03
1	CLO3	UN 1604	Testcode for CRVI changed to IC effective 1/6/04
1	CRVI-LOW	3077	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
			added CRVI-LOW as of 4/11/07

ActiveCode Status Date Shipped Carrier City of Coolers Tracking Number Prepared By

SCANNED



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

SO# 6532 6532 RS

Sampler: Please Return this Paper with your samples

Created by AND
Order Date 08/28/00
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#
ANDRE

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 a weekly sample of
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	UN 2796	INFLUENT This cooler can be shipped out along with the EFFLUENT cooler as one order.
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	3077	PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER-also use a LARGE COOLER
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN 2031	Login - use Profile #KERRINF+CRVI-LOW for this site
1	COLOR	1 500ml amber glass / no preservative	UN2796	note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
1	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative		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
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	added CLO3 back to weekly 2-7-08 2/10/06- CRVI-LOW separate order deleted NO3RFA as of 7-5-06; CRVI-LOW added back to bottle order 4/11/07
1	CRVI-LOW	1x 125 ml poly/ 1 ml NH4SO4/NH4OH buffer	3077	
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		

Prepared By

Carrier City of Coolers Tracking Number

Date Shipped

ActiveCode Status

Carrier

City of Coolers Tracking Number

Prepared By

SCANNED

THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPER'S NUMBER: 142573

SCANNED

RECEIVED subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

From: TRONOX LLC

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said Carrier (the word Carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another Carrier on the route to said destination. It is mutually agreed, as to each Carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the Shipper and accepted for himself and his assigns.

CARRIER Federal Express		Date 04/23/07	FROM NO. STATION: STATE Henderson, NV 89015
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization S. CROWLEY	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC	
N/A/R		CUSTOMER PO OR REQ'N NO.	CODE NO. WCN IS 1321.10400 If it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.
SHIPPED FROM Henderson, NV			
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	Ice Chest with water samples Weekly Discreets (Influent—Effluent Weekly Grabs) 1 Ice Chest @ 30 lbs. 1 Ice Chest @ 20 lbs. Not Regulated		2 COOLERS
TRUCK SHIPMENTS PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
2	TOTAL GROSS WEIGHT 50	TOTAL TARE WEIGHT 0	50
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____			"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"
THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.			
TRONOX LLC Shipper permanent post office address of shipper, PO Box 266859, Oklahoma City, OK 73126-8859	PER Olga Maestas	AGENT	PER

From: Origin ID: LASA (702)651-2230
TRONOX LLC
TRONOX LLC
8000 LAKE MEAD PARKWAY
SHIPPING DEPARTMENT
HENDERSON, NV 89015



Ship Date: 23APR07
ActWgt: 20 LB
System#: 2274147/INET2600
Account#: S *****

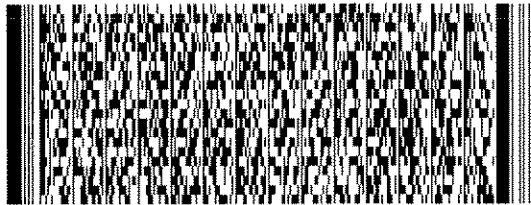
Delivery Address Bar Code



Ref # MSO #142573
Invoice #
PO #
Dept #

SHIP TO: (626)568-6400 **BILL SENDER**
ATTN: SAMPLE RECEIVING
MONTGOMERY WATSON LABS
750 ROYAL OAKS DR # 100

MONROVIA, CA 910163629



PRIORITY OVERNIGHT

TUE

TRK# 7912 8279 1264

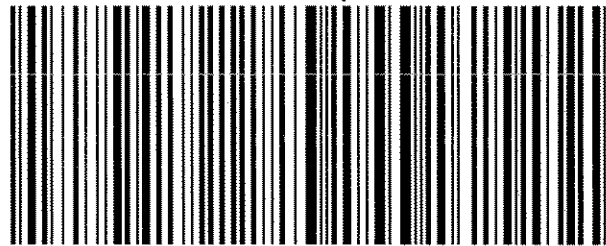
FORM 0201

Deliver By:
24APR07

BUR A2

91016 -CA-US

QZ WHPA



SCANNED

Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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#: 202443
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **04/24/07**. 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
2704240150	EFFLUENT	@R226EDD @R228EDD @RADCWB CR CRVI-LOW NO2-N NO3 P TKN TSS	Water FE P	23-apr-2007 06:30:00 CLO3 CLO4 NH3 NH3-DIST T T-P
2704240152	INFLUENT	CLO3 CLO4 NH3 NH3-DIST T T-P	Water COLOR NO2-N NO3 TKN	23-apr-2007 07:00:00 CR CRVI-LOW N-INOR NO3RFA P

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
CRVI-LOW	Hexavalent chromium(Dissolved)
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

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#: 202443
Project#: CLO4
Proj Mgr: Andrew Eaton
Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
TSS	Total Suspended Solids (TSS)



Kenmcgee-mp

Waltz Mill Radiochemistry Lab
Exit 54, I-70
Madison, PA 15663
Phone: 724.722.5214
Fax: 724.722.5208

May 11, 2007

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

Drinking Water Characterization; Purchase Order No. 99-27668
202443 NV DW, Ra-226/228; NV Cert Expires 05/31/07; MWH Laboratories
Pace Project No. 07-2344

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc.
The sample was received and logged in for analysis on April 26, 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

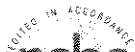
Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-2344

CLIENT: Purchase Order Number: 99-27668

B: SAMPLE IDENTIFICATIONS:

PACE: 0704-1160

CLIENT: 2704240150

C: SHIPPING/RECEIVING COMMENTS:

Final Report 5/11/07.

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. 07-2344
 Drinking Water Characterization; 202443 NV DW, Ra-226/228
 Charge Order No. 99-27668; 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	05/07/07	0.143	± 0.397 (0.771)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	05/09/07	0.452	± 0.414 (0.866)

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	05/07/07	0.057 ± 0.194 (0.420)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	05/09/07	0.407 ± 0.319 (0.649)

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

Esteban

Quality Control Sample Performance Assessment

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

Test: Ra-226
Analyst: CMC
Date: 5/1/2007
Worklist: 14515
Matrix: DW

Method Blank Assessment

MB Sample ID: MB14515
MB concentration: 0.057
MB Counting Uncertainty: 0.194
MB MDC: 0.420
MB Numerical Performance Indicator: 5.85
MB Status vs. Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Y	X
5/7/2007	LCSD14515	57/2007
Spike I.D.:	06-005	57.280
Spike Concentration (pCi/ml):	0.10	0.500
Aliquot Volume (L, g, F):	11.456	0.275
Target Conc. (pCi/L, g, F):	12.349	1.826
Uncertainty (Calculated):	0.95	107.80%
Result (pCi/L, g, F):	N/A	N/A
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Pass	Pass
Numerical Performance Indicator:		
Percent Recovery:		
Status vs Numerical Indicator:		
Status vs Recovery:		

Duplicate Sample Assessment

Sample I.D.: LCS14515
Duplicate Sample I.D.: LCS14515
Sample Result (pCi/L, g, F): 10.814
Sample Result Counting Uncertainty (pCi/L, g, F): 1.620
Sample Duplicate Result (pCi/L, g, F): 12.349
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 1.826
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: -1.233
Duplicate RPD: 13.26%

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: 4/23/2007
Sample I.D.: 0704-1154
Sample MS I.D.: 0704-1154MS
Sample MSD I.D.: 06-005
Spike I.D.: 57.281
MS/MSD Decay Corrected Spike Concentration (pCi/ml): 0.20
Spike Volume Used in MS (mL): 0.500
MS Aliquot (L, g, F): 22.912
MSD Aliquot (L, g, F): 0.550
MSD Target Conc. (pCi/L, g, F): 0.187
Spike uncertainty (calculated): 0.324
Sample Result Counting Uncertainty (pCi/L, g, F): 24.684
Sample Matrix Spike Result: 2.549
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 1.182
Sample Matrix Spike Duplicate Result: 106.92%
MS Numerical Performance Indicator: N/A
MS Percent Recovery: Pass

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

0000005

0000006

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: OLB
 Date: 5/9/2007
 Worklist: 14514
 Matrix: DW

Method Blank Assessment

MB Sample ID: MB14514
 MB concentration: 0.407
 MB Counting Uncertainty: 0.319
 MB MDC: 0.649
 MB Numerical Performance Indicator: 2.50
 MB Status vs Numerical Indicator: N/A
 MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCSID (Y or N)?	Y	LCSID14514
Count Date:	5/9/2007	LCSID14514
Spike I.D.:	06-009	06-009
Spike Concentration (pCi/mL):	68.581	68.581
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.800	0.800
Target Conc. (pCi/L, g, F):	8.573	8.573
Uncertainty (Calculated):	0.266	0.266
Result (pCi/L, g, F):	6.005	5.817
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.838	0.598
Numerical Performance Indicator:	-7.28	-8.26
Percent Recovery:	70.04%	67.86%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

LCSID14514	Y	LCSID14514
Sample I.D.:	LCSD14514	LCSD14514
Duplicate Sample I.D.:	6.805	6.805
Sample Result (pCi/L, g, F):	0.838	0.838
Sample Duplicate Result (pCi/L, g, F):	5.817	5.817
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.598	0.598
Are sample and/or duplicate results below MDC?	NO	NO
Duplicate Numerical Performance Indicator:	0.420	0.420
Duplicate RPD:	3.17%	3.17%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	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.

OLB

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment

Sample Collection Date: 4/23/2007
 Sample I.D.: 0704-1150
 Sample MS I.D.: 0704-1150MS
 Sample MSD I.D.:
 Spike I.D.: 06-009
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 68.959
 Spike Volume Used in MS (mL): 0.20
 MS Aliquot (L, g, F): 0.800
 MS Target Conc. (pCi/L, g, F): 17.240
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 Spike uncertainty (calculated):
 Sample Result: 0.534
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.251
 Sample Matrix Spike Result: 0.373
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 9.238
 Matrix Spike Duplicate Result: 0.782
 Sample Matrix Spike Duplicate Result:
 MS Numerical Performance Indicator: -15.894
 MSD Numerical Performance Indicator:
 MS Percent Recovery: 52.13%
 MSD Percent Recovery:
 MS Status vs Numerical Indicator: N/A
 MSD Status vs Numerical Indicator:
 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 RPD:
 MS/MSD Duplicate Status vs Numerical Indicator:
 MS/MSD Duplicate Status vs RPD:

Date 04/25/07

04/25/07 Submittal Form & Purchase Order 99-27668

Date

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
Westinghouse Waltz Mill Site
70 Madison Exit
Madison, PA 15663

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

MWH Project # Report Due: Sub PO#
202443 05/17/07 99-27668



emmm

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
07-2344

NEVEDA

REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!
Report & Invoice must have the MWH Project Number **202443** and Job # **1000032**
Sub PO# **99-27668**
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

Client Sample ID for reference only	Analysis Requested	Sample Date & Time	Matrix	Container
0704-1160	Radioactivity, Radium 226 Sub-contracted	04/23/07 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION
H02	Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION
MB-1163 1161				

Relinquished by: _____ Date 04/25/07 Time 10:50
Received by: Julie Lee Date 4/26/07 Time 1114
An Acknowledgement of Receipt is requested to attn: Julie Lee
Page 1