



MWH Laboratories

A Division of MWH Americas, Inc.

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

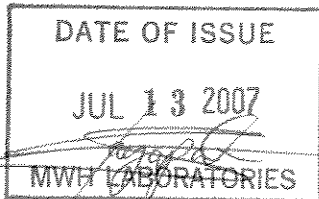
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager



Report#: 207940
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].



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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#: 207940
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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].



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

207940

MWLABS USE ONLY:

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

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

SAMPLES CHECKED/LOGGED IN BY: FC

SAMPLE TEMP, RECEIPT AT LAB: LC

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)								SAMPLER COMMENTS
							ClO4	ClO3	Fe, CR	T-P, TKN	Color	RA228EDD/RA226EDD (2 Bits)	CR	NO2-N, NO3-N, NH4-N	
6:30 AM	6/18/2007			EFFLUENT	X		X	X	X	X	X	X	X		Revised SO #6534
7:00	6/18/2007			INFLUENT	X		X	X	X	X	X	X	X		Revised SO #6532

* MATRIX TYPES:

Reported by Volume:
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water

Reported by Weight:
 SO = Soil
 SL = Sludge

RGW = Raw Ground Water
 RSW = Raw Surface Water

CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
<u>Michele Brown</u>	Michele Brown	Veolia Water NA for Tronox LLC - Henderson Plant	6/18/2007	12:00 PM
<u>Susan Crowley</u>				



MWH Laboratories, a Division of MWH Americas, Inc.
 750 Royal Oaks Avenue Suite 100
 Montrovia 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 CLO4
 PO# / Job#
 Blanket PO

SO# 36353 6532 **RS** **0** **Sampler: Please Return this Paper with your samples**

Created by HV
 Order Date 05/22/07
 Date Needed by Client
 Veolia Water-Tronox LLC
 Gate 1
 8000 West Lake Mead Drive
 Henderson, NV 89015

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
 FAX: 702-651-2310

Quote# HV

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	UN 2796	This is a weekly sample of INFLUENT
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	3077	This cooler can be shipped out along with the EFFLUENT cooler as one order.
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	PLEASE SHIP EXTRA
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	BLUE ICE DUE TO
1	COLOR	1 500ml amber glass / no preservative SHORT HOLDING TIME!!!!		WARM WEATHER- also
1	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative SHORT HOLDING TIME!!!!		use a LARGE COOLER
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	Login - use Profile
1	CRVI-LOW	1x 125 ml poly/ 1 ml NH4SO4/NH4OH buffer	3077	#KERRINF+CRVI-LOW for this site
1	SYRINGE/FILTER/EXTRA BOTTLE	1 60 ml plastic syringe, 1 0.45 um syringe filter, 1 x 125 ml poly no pres		note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
				Test code for CRVI changed to IC
				1-6-04; Moved CBOD to separate order as of 10/21/04; O updated
				12-8-05 to delete some tests and change frequency on others.
				Changed CR-MS to CR and updated profile for login
				added CLO3 back to weekly 2-7-08
				2/10/06- CRVI-LOW separate order
				deleted NO3RFA as of 7-5-06;
				CRVI-LOW added back to bottle order 4/11/07

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#: 207940
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 06/19/07. 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
2706190623	EFFLUENT	@R226EDD @R228EDD @RADCWBCLO3 CLO4 COLOR CR CRVI-LOW FE N-INOR NH3 NH3-DIST NO2-N NO3 P PH T T-P TKN	Water	18-jun-2007 06:30:00
2706190624	INFLUENT	CLO3 CLO4 COLOR CR CRVI-LOW N-INOR NH3 NH3-DIST NO2-N NO3 NO3RFA P T T-P TKN	Water	18-jun-2007 07:00:00

Test Acronym Description

Test Acronym	Description
@R226EDD	Radium 226 (Sub)
@R228EDD	Radium 228 (Sub)
@RADCWBC	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 as P
TKN	Kjeldahl Nitrogen

Tronox LLC - Henderson
PO Box 55
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PO#: Susan Crowley PO
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Test Acronym Description

Test Acronym	Description
TSS	Total Suspended Solids (TSS)



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Report
Comments
#207940

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 Influent 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 California cert 04222CA

(QC Ref#: 2706190623)

Test: Hexavalent chromium(Dissolved) (EPA 218.6)

M1 - Matrix spike recovery was high, the method control sample recovery was acceptable.

(QC Ref#: 2706190624)

Test: Kjeldahl Nitrogen (ML/EPA 351.2)

SAMPLE DILUTED 4X AND SPIKED W/1PPM AND THE RECOVERY WAS 92%



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Laboratory
Hits Report
#207940

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

Samples Received
19-jun-2007 17:27:19

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2706190623	EFFLUENT				
07/05/07		Radium 226	<0.65	3	pCi/l	0.65
07/05/07		Radium 226, Minimal Detectable	0.65		pCi/l	
07/05/07		Radium 226, Two Sigma Error	0.41		pCi/l	
07/11/07		Radium 228	<0.87	5	pCi/l	0.87
07/11/07		Radium 228, Minimum Detectable	0.87		pCi/l	
07/11/07		Radium 228, Two Sigma Error	0.42		pCi/l	
06/28/07		Alpha, Gross	<10.6	15	pCi/l	11
06/28/07		Alpha, Min Detectable Activity	10.6		pCi/l	
06/28/07		Alpha, Two Sigma Error	10		pCi/l	
06/25/07		Ammonia Nitrogen	0.71		mg/l	0.050
06/19/07		Apparent Color	5	15	ACU	3.0
06/25/07		Iron, Total, ICAP	1.0	0.3	mg/l	0.040
06/26/07		Kjeldahl Nitrogen	2.0		mg/l	0.20
06/22/07		Metals digestion performed.	Y		Yes/No	
06/20/07		PH (H3=past HT, not compliant)	7.6	6.5-8.5	Units	0.010
06/28/07		Total Inorganic Nitrogen-Calc	0.71		mg/l	0.20
06/21/07		Total phosphorus as P	0.1		mg/l	0.020
	2706190624	INFLUENT				
06/25/07		Ammonia Nitrogen	4.9		mg/l	0.50
06/19/07		Apparent Color	15	15	ACU	3.0
06/21/07		Chlorate by IC	463000		ug/l	50000
06/20/07		Chromium, Total, ICAP	0.17		mg/l	0.020
06/19/07		Hexavalent chromium(Dissolved)	28		ug/l	0.10
06/26/07		Kjeldahl Nitrogen	2.7		mg/l	0.80
06/20/07		Nitrate + Nitrite as N by RFA	13.9	10	mg/l	1.0
06/19/07		Nitrate as Nitrogen by IC	15	10	mg/l	0.62
06/25/07		Perchlorate	240000		ug/l	20000
06/28/07		Total Inorganic Nitrogen-Calc	20		mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#207940

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

Samples Received
19-jun-2007 17:27:19

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2706190624	INFLUENT				



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Laboratory
 Data Report
 #207940

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

Samples Received
 06/19/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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EFFLUENT (2706190623) Sampled on 06/18/07 06:30

06/21/07 10:41	373361	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
06/25/07 12:23	373700	(EPA 314)	Perchlorate	ND	ug/l	10	5
06/19/07 13:00	372736	(ML/SM2120B)	Apparent Color	5	ACU	3.0	1
06/25/07 22:02	373713	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
06/19/07 16:10	372799	(EPA 218.6)	Hexavalent chromium(Dissolved)	ND(ML)	ug/l	0.10	1
06/22/07 15:43		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
06/25/07 22:02	373715	(ML/EPA 200.7)	Iron, Total, ICAP	1.0	mg/l	0.040	2
06/28/07 09:21	374082	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	0.71	mg/l	0.20	50
06/25/07 00:00	373726	(ML/EPA 350.1)	Ammonia Nitrogen	0.71	mg/l	0.050	1
06/19/07 16:13	372771	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
06/19/07 16:13	372774	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
06/20/07 13:37	372800	(SM4500-HB)	PH (H3=past HT, not compliant)	7.6	Units	0.010	1
06/21/07 15:40	373197	(S4500PE/ 365.1)	Total phosphorus as P	0.1	mg/l	0.020	1
06/26/07 17:32	374005	(ML/EPA 351.2)	Kjeldahl Nitrogen	2.0	mg/l	0.20	1
06/25/07 12:00	373617	(SM 2540D)	Total Suspended Solids (TSS)	ND	mg/l	10	1

Gross Alpha Radiation

06/28/07 00:00	374380	(ML/EPA 900.0)	Alpha, Gross	<10.6	pCi/l	11	1
06/28/07 00:00	374380	(ML/EPA 900.0)	Gross Alpha + adjusted error	NA	pCi/l	0	1
06/28/07 00:00	374380	(ML/EPA 900.0)	Alpha, Two Sigma Error	10	pCi/l	0	1
06/28/07 00:00	374380	(ML/EPA 900.0)	Alpha, Min Detectable Activity	10.6	pCi/l	0	1

Radium 226 (Sub)

07/05/07 00:00		(EPA 903.1)	Radium 226	<0.65	pCi/l	0.65	1
07/05/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.41	pCi/l	0	1
07/05/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.65	pCi/l	0	1

Radium 228 (Sub)

07/11/07 00:00		(EPA 904.0)	Radium 228	<0.87	pCi/l	0.87	1
07/11/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.42	pCi/l	0	1
07/11/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.87	pCi/l	0	1



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Data Report
#207940

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2706190624)				Sampled on 06/18/07 07:00				
	06/21/07 10:41	373361	(ML/EPA 300.0)	Chlorate by IC	463000	ug/l	50000	5000
	06/25/07 12:23	373700	(EPA 314)	Perchlorate	240000	ug/l	20000	5000
	06/19/07 13:00	372736	(ML/SM2120B)	Apparent Color	15	ACU	3.0	1
	06/20/07 21:12	372937	(ML/EPA 200.7)	Chromium, Total, ICAP	0.17	mg/l	0.020	2
	06/19/07 16:34	372799	(EPA 218.6)	Hexavalent chromium(Dissolved)	28	ug/l	0.10	1
	06/28/07 09:21	374082	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	20	mg/l	10	50
	06/25/07 00:00	373726	(ML/EPA 350.1)	Ammonia Nitrogen	4.9	mg/l	0.50	10
	06/19/07 15:59	372771	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	06/19/07 15:59	372774	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	15	mg/l	0.62	50
	06/20/07 00:00	372801	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	13.9	mg/l	1.0	10
	06/21/07 15:40	373197	(S4500PE/ 365.1)	Total phosphorus as P	ND	mg/l	0.020	1
	06/26/07 17:32	374005	(ML/EPA 351.2)	Kjeldahl Nitrogen	2.7	mg/l	0.80	4



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Laboratory
QC Summary
#207940

Tronox LLC - Henderson

QC Ref #372736 - Apparent Color Analysis Date: 06/19/2007

2706190623 EFFLUENT Analyzed by: sar
2706190624 INFLUENT Analyzed by: sar

QC Ref #372771 - Nitrite, Nitrogen by IC Analysis Date: 06/19/2007

2706190623 EFFLUENT Analyzed by: jkz
2706190624 INFLUENT Analyzed by: jkz

QC Ref #372774 - Nitrate as Nitrogen by IC Analysis Date: 06/19/2007

2706190623 EFFLUENT Analyzed by: jkz
2706190624 INFLUENT Analyzed by: jkz

QC Ref #372799 - Hexavalent chromium(Dissolved) Analysis Date: 06/19/2007

2706190623 EFFLUENT Analyzed by: tlh
2706190624 INFLUENT Analyzed by: tlh

QC Ref #372800 - PH (H3=past HT, not compliant) Analysis Date: 06/20/2007

2706190623 EFFLUENT Analyzed by: dtn

QC Ref #372801 - Nitrate + Nitrite as N by RFA Analysis Date: 06/20/2007

2706190624 INFLUENT Analyzed by: lupe

QC Ref #372937 - Chromium, Total, ICAP Analysis Date: 06/20/2007

2706190624 INFLUENT Analyzed by: wbh

QC Ref #373197 - Total phosphorus as P Analysis Date: 06/21/2007

2706190623 EFFLUENT Analyzed by: njr
2706190624 INFLUENT Analyzed by: njr



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Laboratory
QC Summary
#207940

Tronox LLC - Henderson
(continued)

QC Ref #373361 - Chlorate by IC

Analysis Date: 06/21/2007

2706190623 EFFLUENT
2706190624 INFLUENT

Analyzed by: raja
Analyzed by: raja

QC Ref #373617 - Total Suspended Solids (TSS)

Analysis Date: 06/25/2007

2706190623 EFFLUENT

Analyzed by: yvette

QC Ref #373700 - Perchlorate

Analysis Date: 06/25/2007

2706190623 EFFLUENT
2706190624 INFLUENT

Analyzed by: raja
Analyzed by: raja

QC Ref #373713 - Chromium, Total, ICAP

Analysis Date: 06/25/2007

2706190623 EFFLUENT

Analyzed by: wbh

QC Ref #373715 - Iron, Total, ICAP

Analysis Date: 06/25/2007

2706190623 EFFLUENT

Analyzed by: wbh

QC Ref #373726 - Ammonia Nitrogen

Analysis Date: 06/25/2007

2706190623 EFFLUENT
2706190624 INFLUENT

Analyzed by: nina
Analyzed by: nina

QC Ref #374005 - Kjeldahl Nitrogen

Analysis Date: 06/26/2007

2706190623 EFFLUENT
2706190624 INFLUENT

Analyzed by: njr
Analyzed by: njr



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QC Summary
#207940

Tronox LLC - Henderson
(continued)

QC Ref #374082 - Total Inorganic Nitrogen-Calc Analysis Date: 06/28/2007

2706190623
2706190624

EFFLUENT
INFLUENT

Analyzed by: dwr
Analyzed by: dwr

QC Ref #374380 - Gross Alpha Radiation

Analysis Date: 06/28/2007

2706190623

EFFLUENT

Analyzed by: ajc



Tronox LLC - Henderson

QC Ref #372736 Apparent Color

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

QC Ref #372771 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06180029	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	0.0561	MGL	112.2	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.510	MGL	102.0	(78-135)	
MSD	Nitrite, Nitrogen by IC	0.500	0.513	MGL	102.6	(78-135)	
RPD_LCS	Nitrite, Nitrogen by IC	103.000	101.000	MGL	2.0	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	102.000	102.600	MGL	0.6	(0-20)	

QC Ref #372774 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06180029	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.47	MGL	98.8	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.38	MGL	95.2	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0504	MGL	100.8	(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	98.800	95.200	MGL	3.7	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	96.000	96.000	MGL	0.0	(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
#207940

Tronox LLC - Henderson
(continued)

QC Ref #372799 Hexavalent chromium(Dissolved)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06130404	UGL		(0-0)	
LCS1	Hexavalent chromium(Dissolved)	2.0	2.11	UGL	105.5	(90-110)	
LCS2	Hexavalent chromium(Dissolved)	2.0	2.11	UGL	105.5	(90-110)	
MBLK	Hexavalent chromium(Dissolved)	ND	<0.10	UGL			
MRL_CHK	Hexavalent chromium(Dissolved)	0.100	0.099	UGL	99.0	(50-150)	
MS	Hexavalent chromium(Dissolved)	2.0	2.30	UGL	<u>115.0</u>	(90-110)	
MSD	Hexavalent chromium(Dissolved)	2.0	2.29	UGL	<u>114.5</u>	(90-110)	
RPD_LCS	Hexavalent chromium(Dissolved)	105.500	105.500	UGL	0.0	(0-20)	
RPD_MS	Hexavalent chromium(Dissolved)	115.000	114.500	UGL	0.4	(0-20)	

QC Ref #372800 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06190572	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	7.13	7.17	UNIT		(0-20)	0.6

QC Ref #372801 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06150133	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.946	MGL	94.6	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	1.00	MGL	100.0	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.064	MGL	128.0	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1.0	0.958	MGL	95.8	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.858	MGL	<u>85.8</u>	(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.



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QC Report
#207940

Tronox LLC - Henderson
(continued)

QC Ref #372937 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0104	MGL	104.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.96	MGL	96.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.975	MGL	97.5	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.972	MGL	97.2	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.986	MGL	98.6	(70-130)	

QC Ref #373197 Total phosphorus as P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06150296	MGL		(0-0)	
LCS1	Total phosphorus as P	0.4	0.400	MGL	100.0	(90-110)	
LCS2	Total phosphorus as P	0.4	0.399	MGL	99.8	(90-110)	
MBLK	Total phosphorus as P	ND	<0.020	MGL			
MRL_CHK	Total phosphorus as P	0.02	0.014	MGL	70.0	(50-150)	
MS	Total phosphorus as P	0.4	0.396	MGL	99.0	(90-110)	
MS2	Total phosphorus as P	0.4	0.444	MGL	<u>111.0</u>	(90-110)	
MSD	Total phosphorus as P	0.4	0.416	MGL	104.0	(90-110)	
RPD_LCS	Total phosphorus as P	100.000	99.750	MGL	0.3	(0-10)	
RPD_MS	Total phosphorus as P	99.000	104.000	MGL	4.9	(0-20)	

QC Ref #373361 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06180060	UGL		(0-0)	
LCS1	Chlorate by IC	200	197	UGL	98.5	(90-110)	
LCS2	Chlorate by IC	200	196	UGL	98.0	(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.



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#207940

Tronox LLC - Henderson
(continued)

MBLK	Chlorate by IC	ND	<10	UGL		
MRL_CHK	Chlorate by IC	10.0	11.5	UGL	115.0	(50-150)
MS	Chlorate by IC	100	95.2	UGL	95.2	(75-125)
MSD	Chlorate by IC	100	94.3	UGL	94.3	(75-125)
RPD_LCS	Chlorate by IC	98.500	98.000	UGL	0.5	(0-20)
RPD_MS	Chlorate by IC	95.200	94.300	UGL	0.9	(0-20)

QC Ref #373617 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06200460	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	158	MGL	90.3	(71-107)	
LCS2	Total Suspended Solids (TSS)	175	154	MGL	88.0	(71-107)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			
MRL_CHK	Total Suspended Solids (TSS)	10.0	10	MGL	100.0	(50-150)	

QC Ref #373700 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06210211	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	
LCS2	Perchlorate	25.0	25.1	UGL	100.4	(85-115)	
LCS3	Perchlorate	4	4.41	UGL	110.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	21.2	UGL	84.8	(80-120)	
MSD	Perchlorate	25.0	22.1	UGL	88.4	(80-120)	
RPD_LCS	Perchlorate	102.000	100.400	UGL	1.6	(0-15)	
RPD_MS	Perchlorate	84.800	88.400	UGL	1.0	(0-15)	

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 #373713 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.966	MGL	96.6	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.972	MGL	97.2	(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	0.996	MGL	99.6	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.949	MGL	94.9	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.961	MGL	96.1	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	

QC Ref #373715 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	5.13	MGL	102.6	(85-115)	
LCS2	Iron, Total, ICAP	5.0	4.71	MGL	94.2	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.022	MGL	110.0	(50-150)	
MS	Iron, Total, ICAP	5.0	5.32	MGL	106.4	(70-130)	
MS2	Iron, Total, ICAP	5.0	4.99	MGL	99.8	(70-130)	
MSD	Iron, Total, ICAP	5.0	5.10	MGL	102.0	(70-130)	
MSD2	Iron, Total, ICAP	5.0	5.44	MGL	108.8	(70-130)	
RPD_LCS	Iron, Total, ICAP	102.600	94.200	MGL	8.5	(0-20)	
RPD_MS	Iron, Total, ICAP	106.400	102.000	MGL	4.2	(0-20)	

QC Ref #373726 Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06210285	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)	

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Tronox LLC - Henderson (continued)

MBLK	Ammonia Nitrogen	ND	<0.050	MGL		
MRL_CHK	Ammonia Nitrogen	0.05	0.044	MGL	88.0	(50-150)
MS	Ammonia Nitrogen	1.00	1.01	MGL	101.0	(90-110)
MSD	Ammonia Nitrogen	1.00	1.01	MGL	101.0	(90-110)
MS_2ND	Ammonia Nitrogen	1	0.988	MGL	98.8	(90-110)
RPD_LCS	Ammonia Nitrogen	104.000	104.000	MGL	0.0	(0-20)
RPD_MS	Ammonia Nitrogen	101.000	101.000	MGL	0.0	(0-20)

QC Ref #374005

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06190196	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.78	MGL	94.5	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.81	MGL	95.2	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MRL_CHK	Kjeldahl Nitrogen	0.1	0.122	MGL	122.0	(50-150)	
MS	Kjeldahl Nitrogen	4	3.78	MGL	94.5	(90-110)	
MSD	Kjeldahl Nitrogen	4	3.87	MGL	96.8	(90-110)	
MS_2ND	Kjeldahl Nitrogen	4	3.75	MGL	93.8	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	94.500	95.250	MGL	0.8	(0-20)	
RPD_MS	Kjeldahl Nitrogen	94.500	96.750	MGL	2.4	(0-20)	

QC Ref #374380

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06200492	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	16.5	PCIL	99.4	(80-120)	
LCS2	Alpha, Gross	16.6	15.4	PCIL	92.8	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	33.0	PCIL	99.4	(70-130)	
RPD_LCS	Alpha, Gross	99.398	92.771	PCIL	6.9	(0-20)	
DUP	Beta, Gross	ND	ND	PCIL		(0-20)	
LCS1	Beta, Gross	15.7	13.5	PCIL	86.0	(80-120)	

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Tronox LLC - Henderson (continued)

LCS2	Beta, Gross	15.7	15.6	PCIL	99.4	(80-120)
MBLK	Beta, Gross	ND	<3.0	PCIL		
MS	Beta, Gross	31.4	32.2	PCIL	102.5	(70-130)
RPD_LCS	Beta, Gross	85.987	99.363	PCIL	14.4	(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.



Waltz Mill Radiochemistry Lab

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July 13, 2007

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

Drinking Water Characterization; Purchase Order No. 99-28464
207940 NV DW, Ra-226/228; NV Cert PA01458 Expires 07/31/07;
MWH Laboratories
Pace Project No. 07-3317

Dear Ms. Lewis:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received and logged in for analysis on June 22, 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: 07-3317

CLIENT: Purchase Order Number: 99-28464

B: SAMPLE IDENTIFICATIONS:

PACE: 0706-1251

CLIENT: 2706190623

C: SHIPPING/RECEIVING COMMENTS:

Final Report 7/13/07.

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. 07-3317
Drinking Water Characterization; 207940 NV DW, Ra-226/228
Charge Order No. 99-28464; NV Cert PA01458 Expires 07/31/07

Page 1 of 2

Parameter	Analytical Method	Units	Analyzed	Sample Identification	Act ± Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	07/05/07	0706-1251	(0.649)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	07/11/07	2706190623 (6/18/07)	(0.868)

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

0000004

Table 1
(Continued)

Parameter	Analytical Method	Units	Analyzed	Act ± Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	07/05/07	0.074 ± 0.324 (0.688)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	07/10/07	0.750 ± 0.344 (0.632)

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

Sample Identification

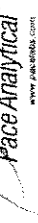
0706-1252

Method Blank

(6/22/07)

2/13/07

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CMC
Date: 6/29/2007
Worklist: 14840
Matrix: DW

Method Blank Assessment

MB Sample ID: MB14840
MB concentration: 0.074
M/B Counting Uncertainty: 0.324
MB MDC: 0.688
MB Numerical Performance Indicator: 2.70
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

Count Date:	LCS (Y or N)?	Y
7/5/2007	LCS14840	7/5/2007
06-005	06-005	06-005
57.276	57.276	57.276
0.10	0.10	0.10
0.500	0.500	0.500
11.455	11.455	11.455
0.275	0.275	0.275
10.760	10.760	10.760
1.702	1.702	1.702
-0.79	-0.79	-0.79
80.32%	80.32%	93.93%
N/A	N/A	N/A
Pass	Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS14840
Duplicate Sample I.D.: LCS14840
Sample Result (pCi/L, g, F): 9.201
Sample Result Counting Uncertainty (pCi/L, g, F): 1.423
Sample Duplicate Result (pCi/L, g, F): 10.760
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 1.702
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: -1.377
Duplicate RPD: 15.62%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Sample Matrix Spike Control Assessment

Sample Collection Date: 5/18/2007
Sample I.D.: 0705-1460B
Sample MS I.D.: 0705-1460BMS
Spike I.D.: 06-005
MS/MSD Decay Corrected Spike Concentration (pCi/mL): 57.279
Spike Volume Used in MS (mL): 0.20
Spike Volume Used in MSD (mL): 0.500
MS Aliquot (L, g, F): 22.912
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F): 0.550
Spike uncertainty (calculated): 0.189
Sample Result: 0.276
Sample Matrix Spike Result: 21.381
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 2.461
Sample Matrix Spike Duplicate Result: -1.328
MS Numerical Performance Indicator: 92.50%
MS Percent Recovery: N/A
MSD Percent Recovery: Pass
MS Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:
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:

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

Comments:

0000005

0000006

PACE Analytical Services, Inc.

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: OLB
 Date: 7/10/2007
 Worklist: 14830
 Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

27/13/07

Method Blank Assessment

MB Sample ID: MB14830
 MB concentration: 0.750
 M/B Counting Uncertainty: 0.344
 MB MDC: 0.632
 MB Numerical Performance Indicator: 4.28
 MB Status vs Numerical Indicator: N/A
 MB Status vs MPC: See Comment*

Laboratory Control Sample Assessment

LCSID (Y or N)?	Y
LCS14830	7/10/2007
06-009	67.193
0.10	0.800
8.399	0.260
5.808	0.683
-6.86	69.15%
N/A	N/A
Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS14830
 Duplicate Sample I.D.: LCS14830
 Sample Result (pCi/L, g, F): 5.815
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.715
 Sample Duplicate Result (pCi/L, g, F): 5.808
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.683
 Are sample and/or duplicate results below MDC? NO
 Duplicate Numerical Performance Indicator: 0.015
 Duplicate RPD: 0.13%
 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:
 *The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment

Sample Collection Date: 6/21/2007
 Sample I.D.: 0706-1337
 Sample MS I.D.: 0706-1337MS
 Sample MSD I.D.: 06-009
 Spike I.D.: 67.629
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 0.20
 Spike Volume Used in MS (mL): 0.800
 Spike Volume Used in MSD (mL): 16.907
 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): 0.524
 Sample Result: 0.670
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.443
 Sample Matrix Spike Result: 13.996
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 1.008
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 MS Numerical Performance Indicator:
 MSD Numerical Performance Indicator:
 MS Percent Recovery: 78.82%
 MS Status vs Numerical Indicator: N/A
 MS 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:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 Duplicate Numerical Performance Indicator:
 MS/MSD Duplicate Indicator RPD:
 MS/MSD Duplicate Status vs Numerical Indicator:
 MS/MSD Duplicate Status vs RPD:



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MWH Project # Report Due: Sub PO#
 207940 07/12/07 99-28464

Use MWH Lab # for ID

ncl

Client Sample ID for reference only

	Sample	Date & Time	Matrix	Container	
@R228ED	2706190623	EFFLUENT	Radioactivity, Radium 226 Sub-contracted	06/18/07 06:30 dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION
@R228ED			Radioactivity, Radium 228 Sub-contracted		2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION
					MB-1252

Date 06/20/07

Submittal Form & Purchase Order

*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers! Report & Invoice must have the MWH Project Number 207940 Sub PO# 99-28464 and Job # 1000032

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

07-3317

Reports: Elena Montanez / Christine Lewis Sub-contracting Administrator
 EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com
 MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016
 Phone (626) 386-1118 / 1137 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

[Signature]

Relinquished by:

Sample Control

Date 06/20/07

Time 13:20

MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS

Page 1

An Acknowledgement of Receipt is requested to attn: Christine Lewis

Received by:

Date

Time 11:00