

Laboratory Report

for

Tronox LLC PO Box 55 Henderson, NV 89009 Attention: Susan Crowley Fax: 702-651-2310

Date of Issue 11/08/2010 LABORATOR

LXG: Linda Geddes Project Manager



Report#: 344804 Project: CWA-RCRA Group: Weekly Influent-Effluent long TAT

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 Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

🌐 MW	н		
LABO	RATORIES	Acknowledgement of Samples R	eceived
Tronox	LLC	Customer Co	de: TRONOX
PO Box	55		r #: 344804
Henders	on, NV 89009		ect: CWA-RCRA
	isan Crowley		oup: Weekly Influent-Effluent long TAT
Phone:	702-651-2234		ger: Linda Geddes one: (626) 386-1163
listed be	÷ .	from you on September 28, 2010 . They hat mation is incorrect, please contact your ser	
Sample #	Sample ID		Sample Date
01009280156	Effluent		Sep 27, 2010 08:30
	@ACOPEDD	@R226EDD	@R228EDD
	Apparent Color	Chromium Total ICAP	Hexavalent chromium(Dissolved)
	Iron Total ICAP	PH (H3=past HT not compliant)	Total Kjeldahl Nitrogen
	Total phosphorus as P	Total Suspended Solids (TSS)	
201009280157	Influent		Sep 27, 2010 09:00
	Apparent Color	Chromium Total ICAP	Hexavalent chromium(Dissolved)
	Total Kjeldahl Nitrogen	Total phosphorus as P	
Tes	st Description		
		Co-precipitation (Sub)	
@	at Description		

ON LABORATORIES CHAIN OF CUSTODY RECORD	750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629 LOGIN COMMENTS: SAMPLES CHECKED/LOGGED IN BY:	SAMPLE TEMP, RECEIPT AT LAB: 3.2	BLUE ICE: FROZEN X PARTIALLY FROZEN THAWED		PROJECT JOB # / P.O.# Check for yes) (check for yes)	CWA-RCRA CWA-RCRA		DENTIFIER, STATE D# COMMENTS C		EFFLUENT X X X X X X X X X X X X X X X X X X X	INFLUENT RSW X X X X X			Reported by Volume: Reported by Weight: CFW = Chlor(am)inated Finished Water RWW = Chlorinated Waste Water Reported by Weight: FW = Other Finished Water RSW = Raw Surface Water WW = Other Waste Water SO = Soil FW = Other Finished Water SW = Storm Water SW = Storm Water SL = Sludge	TURE COMPANYITILE DATE TIME COMPANYITILE	Michele Brown	A TOMONIA MW4 LABS 9/28 11:14		
O	MWLABS USE ONLY: ,, 91016-3629 LOGIN COMMENTS:				PROJECT JOB # / P.O.#	CWA-RCRA	Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009							ted by Volume: Chlor(am)inated Finished Water Other Finished Water	ш	(24)	J.		
MONTGOMERY WATSON LABORATORIES	yal Oaks dr. Suite 100 Monrovia, Ca.	(626) 386-1100 (800) 566-5227		TO BE COMPLETED BY SAMPLER:	COMPANY / PROJECT NAME	xc	Sampler Signature: Michele Brown Mullul Buru Susan Crowley (702) 651-2234	TIME DATE LOCATION		8:30 AM 9/27/2010	9:00 957/2010			* MATRIX TYPES: Report CFW = (FW = (SIGNATURE	RELINQUISHED DY: N. N. ILLE BY OTL	RECEIVEDBY	RELINQUISHED BY:	RECEIVED BY-

PAGE 1 of 1

C-0-C#

H Americas, Inc. Bottle Order for Tronox LLC Page 1 X (626) 386-1124	Group#	HL Project Manager Client Code TRONOX			Ship Sample Kits to Send Report to tronox LLC Tronox LLC Billing Address		n, NV 89015 Henderson, NV 89009	dy Prescott Attn: Susan Crowley Attn: Susan Crowley	34	Fax: 702-651-2310 Fax: 702-651-2310	Qteline# Bottles - Qty for each sample, type & preservative if any	1 sterile 125mL poly Sterile filter + syringe and instructions	1 500ml poly 2ml 18%HNO3+125ml poly/no pres	1 1L poly RA_226_4mi HNO3 18%	1 1L poly 4ml HNC3 (18%)	1 500ml amber glass no preservative	1 250ml acid rinsed 1ml HNO3 (18%)	1 250ml acid rinsed 1ml HNO3 (18%)	1 125ml poly 1ml NH4SO4/NH4OH buffer	1 125ml poly no preservative	s as P 1 250ml poly 0.5ml H2SO4 (50%)	1 500ml poly TDS - no preservative		
Monrovia, CA 91016 (626) 386-1100 FAX (626) 386-1124		Linda Geddes Your MWHL Project Manager	BO #: 22394 Sampler: please return Created By: LXG this paper with your samples Order Date: 09/10/2010	Bottle Orders	Veolia Water-	Ship By: Gate 1 08/31/2010 560 West Lake Mead Pkwy	Henderson, NV 89015	Attn: Wendy Prescott	Phone:	Tax:	Tests Qteline#	4/3	1 ONLPHA	1 @R226EDD	1 @R228EDD	2 Apparent Color	1 Chromium Total ICAP	1 Chromium Total ICAP, Iron Total ICAP	2 Hexavalent Chromium (Dissolved)	1 PH (H3=past HT not compliant)	2 Total Kjeldahl Nitrogen, Total phosphorus as P	1 Total Suspended Solids (TSS)	Comments	

Effluent gets - alpha, 226/228, color, cr, hex chrome, Fe, PH, TKN, T-P, TSS Influent gets - color, chormium, hex chrome, TKN, T-P

Code Status Date Shipped Via

Tracking #

of Coolers

Prepared By



November 06, 2010

Ms. Susan Crowley Tronox PO Box 55 Henderson, NV 89009

Subject: Case Narrative report 344804

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on September 28, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative: For the MWH Laboratories data the following issues were observed:

Other Observations:

Gross Alpha and Radium226/228 were submitted by Pace Labs. Please see their case narrative for any issues.

5/37

Sincerely,

ila Seddes

Linda Geddes Project Manager

750 Royal Oaks Drive Suite 100

TEL 626-3865-1100 FAX 626-386-1101

Monrovia, CA 91016 www.mwhlabs.com



Tronox LLC Susan Crowley PO Box 55 Henderson, NV 89009

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.

Rinda Seddes

Group Comments

Signature:

Analytical results for Alpha by Co-precipitation, Radium 226 and Radium 228 are submitted by Pace Analytical Services, Greensburg, PA



A Division of MWH Americas, Inc.

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

Tronox LLC

Susan Crowley PO Box 55 Henderson, NV 89009 Laboratory Hits Report: 344804

Samples Received on: 09/28/2010

Analyzed	An	alyte	Sample ID	Result	Federal MCL	Units	MRL
	201	009280156	Effluent				
)9/28/2010	12:10	Apparent Color		15	15	ACU	3
0/29/2010	22:16	Gross Alpha by	Coprecipitation	13.3	15	pCi/L	2.5
0/15/2010	5:50	Iron Total ICAP		3.3	0.3	mg/L	0.02
)9/29/2010	18:49	Kjeldahl Nitroge	en	5.9		mg/L	0.2
)9/29/2010	13:31	PH (H3=past H	T not compliant)	6.8		Units	0.1
0/15/2010	15:18	Radium 228		1.00	5	pCi/L	0.83
0/01/2010	15:07	Total phosphore	us as P	0.36		mg/L	0.02
9/29/2010	15:22	Total Suspende	ed Solids (TSS)	18		mg/L	10
	201	009280157	Influent				
9/28/2010	12:11	Apparent Color		15	15	ACU	3
0/15/2010	5:55	Chromium Tota	I ICAP	0.070		mg/L	0.01
)9/28/2010	11:45	Hexavalent chro	omium(Dissolved)	25		ug/L	0.05
)9/29/2010	18:50	Kjeldahl Nitroge	en	6.5		mg/L	1
0/01/2010	15:08	Total phosphore	us as P	0.062		mg/L	0.02



Tronox LLC Susan Crowley PO Box 55 Henderson, NV 89009

Samples Received on: 09/28/2010

Prepared	Analyz	ed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
Effluent (201009280	<u>156)</u>						Sampled	lon 09	/27/2010	0830
		EPA	903.1 - R	adium 226 (S	ub)						
	10/11/2010	14:12		(EPA 903.1)	Radium 226	<0.621	pCi/L		0.62	0.0000	1
	10/11/2010	14:12		(EPA 903.1)	Radium 226 Minimal Detectable	0.621	pCi/L			0.0000	1
	10/11/2010	14:12		(EPA 903.1)	Radium 226 Two Sigma Error	0.405	pCi/L			0.0000	1
		EPA 9	904.0 - R	adium 228 (Sເ	(du						
	10/15/2010	15:18		(EPA 904.0)	Radium 228	1.00	pCi/L		0.83	0.0000	1
	10/15/2010	15:18		(EPA 904.0)	Radium 228 Minimum Detectable	0.835	pCi/L			0.0000	1
	10/15/2010	15:18		(EPA 904.0)	Radium 228 Two Sigma Error	0.448	pCi/L			0.0000	1
		SM 7	110C - G	ross Alpha by	Co-precipitation (Sub)						
	10/29/2010	22:16		(SM 7110C)	Alpha, Min Detectable Activity	2.45	pCi/L			0.0000	1
	10/29/2010	22:16		(SM 7110C)	Alpha, Two Sigma Error	2.19	pCi/L			0.0000	1
	10/29/2010	22:16		(SM 7110C)	Gross Alpha by Coprecipitation	13.3	pCi/L		2.5	0.0000	1
		EPA	351.2 - To	otal Kjeldahl N	Nitrogen						
	09/29/2010	18:49	571292	(EPA 351.2)	Kjeldahl Nitrogen	5.9	mg/L	0.044	0.2	0.044	1
		EPA 2	200.7 - IC	P Metals							
	10/15/2010	5::50	572814	(EPA 200.7)	Chromium Total ICAP	0.0059J	mg/L	0.00044	0.01	0.0004	1
	10/15/2010	5::50	572814	(EPA 200.7)	Iron Total ICAP	3.3	mg/L	0.0050	0.02	0.0050	1
		EPA 2	218.6 - H	exavalent chr	omium(Dissolved)						
	09/28/2010	11:36	570854	(EPA 218.6)	Hexavalent chromium(Dissolved)	ND	ug/L	0.033	0.05	0.033	1
		SM45	00-PE/E	PA 365.1 - Tot	al phosphorus as P (T-P)						
	10/01/2010	15:07	564619	(SM4500-PE/EP A 365.1)	P Total phosphorus as P	0.36	mg/L	0.0084	0.02	0.0084	1
		SM45	600-HB -	PH (H3=past H	HT not compliant)						
	09/29/2010	13:31	570921	(SM4500-HB)	PH (H3=past HT not compliant)	6.8	Units	0.10	0.1	0.100	1
		SM 2	540D - To	otal Suspende	ed Solids (TSS)						
	09/29/2010	15:22	570918	(SM 2540D)	Total Suspended Solids (TSS)	18	mg/L	4.4	10	4.4	1
		SM 2	120B - A	pparent Color			-				

Rounding on totals after summation. (c) - indicates calculated results Sample Quantitation Limit (SQL) = MDL * Dilution Factor



Tronox LLC Susan Crowley PO Box 55 Henderson, NV 89009 Laboratory Data Report: 344804

Samples Received on: 09/28/2010

Prepared	Analyz	ed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
	09/28/2010	12:10	570876	(SM 2120B)	Apparent Color	15	ACU	3	3	3.0	1
Influent (201009280	<u>157)</u>						Sampled	on 09	/27/2010	0900
		EPA :	351.2 - T	otal Kjeldahl Nit	trogen						
	09/29/2010	18:50	571292	(EPA 351.2)	Kjeldahl Nitrogen	6.5	mg/L	0.044	1	0.22	5
		EPA 2	200.7 - 10	P Metals							
	10/15/2010	5::55	572814	(EPA 200.7)	Chromium Total ICAP	0.070	mg/L	0.00044	0.01	0.0004	1
		EPA 2	218.6 - H	exavalent chror	nium(Dissolved)						
	09/28/2010	11:45	570854	(EPA 218.6)	Hexavalent chromium(Dissolved)	25	ug/L	0.033	0.05	0.033	1
		SM45	00-PE/E	PA 365.1 - Total	phosphorus as P (T-P)						
	10/01/2010	15:08	564619	(SM4500-PE/EP A 365.1)	Total phosphorus as P	0.062	mg/L	0.0084	0.02	0.0084	1
		SM 2'	120B - A	pparent Color							
	09/28/2010	12:11	570876	(SM 2120B)	Apparent Color	15	ACU	3	3	3.0	1



Tronox LLC

QC Ref # 564619 - Total phosphorus as P (T-P) Analysis Date: 10/01/2010 201009280156 Effluent 201009280157 Influent QC Ref # 570854 - Hexavalent chromium(Dissolved) Analysis Date: 09/28/2010 201009280156 Effluent Influent 201009280157 QC Ref # 570876 - Apparent Color Analysis Date: 09/28/2010 201009280156 Effluent 201009280157 Influent QC Ref # 570918 - Total Suspended Solids (TSS) Analysis Date: 09/29/2010 201009280156 Effluent QC Ref # 570921 - PH (H3=past HT not compliant) Analysis Date: 09/29/2010 201009280156 Effluent Analysis Date: 09/29/2010 QC Ref # 571292 - Total Kjeldahl Nitrogen 201009280156 Effluent 201009280157 Influent QC Ref # 572814 - ICP Metals Analysis Date: 10/15/2010 201009280156 Effluent Influent 201009280157

Analyzed by: NJR

Analyzed by: NJR

Analyzed by: TLH

Analyzed by: TLH

Analyzed by: SAR

Analyzed by: SAR

Analyzed by: JRF

Analyzed by: NEM

Analyzed by: NJR

Analyzed by: NJR

Analyzed by: NINA

Analyzed by: NINA



Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 564619 - To	tal phosphorus as P (T-P) by SM4	500-PE/EPA 3	65.1		Α	nalysis D	ate: 10/01/2	010	
LCS1	Total phosphorus as P		0.4	0.372	mg/L	93	(90-110)		
LCS2	Total phosphorus as P		0.4	0.373	mg/L	93	(90-110)	20	0.27
MBLK	Total phosphorus as P			<0.02	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0182	mg/L	91	(50-150)		
MS_201009230448	Total phosphorus as P	0.13	0.4	0.534	mg/L	102	(90-110)		
MS2_201009300263	Total phosphorus as P	0.090	0.4	0.500	mg/L	103	(90-110)		
MSD_201009230448	Total phosphorus as P	0.13	0.4	0.531	mg/L	102	(90-110)	20	0.0
QC Ref# 570854 - He	exavalent chromium(Dissolved) by	EPA 218.6			Α	nalysis D	ate: 09/28/20	010	
LCS1	Hexavalent chromium(Dissolved)		2.0	2.02	ug/L	101	(90-110)		
LCS2	Hexavalent chromium(Dissolved)		2.0	2.01	ug/L	100	(90-110)		
MBLK	Hexavalent chromium(Dissolved)			<0.1	ug/L				
MRL_CHK	Hexavalent chromium(Dissolved)		0.05	0.0481	ug/L	96	(50-150)		
MS_201009270154	Hexavalent chromium(Dissolved)	ND	2.0	2.03	ug/L	102	(90-110)		
MS2_201009280049	Hexavalent chromium(Dissolved)	6.7	2.0	8.75	ug/L	104	(90-110)		
MSD_201009270154	Hexavalent chromium(Dissolved)	ND	2.0	2.09	ug/L	104	(90-110)	20	1.9
QC Ref# 570876 - Ap	oparent Color by SM 2120B				Α	nalysis D	ate: 09/28/20	010	
DUP_201009280071	Apparent Color	ND		ND	ACU		(0-20)		
DUP1_201009270185	Apparent Color	ND		ND	ACU		(0-20)		
MBLK	Apparent Color			<3	ACU				
QC Ref# 570918 - To	tal Suspended Solids (TSS) by SM	2540D			Α	nalysis D	ate: 09/29/20	010	
DUP_201009270041	Total Suspended Solids (TSS)	10		10.0	mg/L		(0-10)	10	0.0
DUP_201009280156	Total Suspended Solids (TSS)	18		19.0	mg/L		(0-10)	10	5.4
LCS1	Total Suspended Solids (TSS)		175	170	mg/L	97	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	180	mg/L	103	(71-107)	20	5.7
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	13.0	mg/L	130	(50-150)		
QC Ref# 570921 - PH	I (H3=past HT not compliant) by SI	M4500-HB			Α	nalysis D	ate: 09/29/20	010	
DUP1_201009290014	PH (H3=past HT not compliant)	8.0		8.02	Units		(0-20)	20	0.0
DUP1_201009300370	PH (H3=past HT not compliant)	8.0		7.97	Units		(0-20)	20	0.0
LCS1	PH (H3=past HT not compliant)		6.0	5.99	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)	20	0.1
QC Ref# 571292 - To	tal Kjeldahl Nitrogen by EPA 351.2	2			Α	nalysis D	ate: 09/29/20	010	
LCS1	Kjeldahl Nitrogen		4.0	4.23	mg/L	106	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	4.24	mg/L	106	(90-110)	20	0.24

Spike recovery is already corrected for native results.

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.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



Tronox LLC (continued)

Laboratory QC Report: 344804

QC Туре	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.188	mg/L	94	(50-150)		
MS_201009230424	Kjeldahl Nitrogen	0.36	4.0	4.35	mg/L	100	(90-110)		
MSD_201009230424	Kjeldahl Nitrogen	0.36	4.0	4.4	mg/L	101	(90-110)	20	1.3
QC Ref# 572814 - ICP	Metals by EPA 200.7				A	nalysis Da	nte: 10/15/20	10	
LCS1	Chromium Total ICAP		1.0	1.07	mg/L	107	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.02	mg/L	102	(85-115)	20	4.8
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.00905	mg/L	91	(50-150)		
MS_201009300444	Chromium Total ICAP	ND	1.0	1.02	mg/L	102	(70-130)		
MS2_201009300445	Chromium Total ICAP	ND	1.0	1.04	mg/L	104	(70-130)		
MSD_201009300444	Chromium Total ICAP	ND	1.0	1.04	mg/L	104	(70-130)	20	1.9
MSD2_201009300445	Chromium Total ICAP	ND	1.0	1.05	mg/L	105	(70-130)	20	0.96
LCS1	Iron Total ICAP		5.0	5.55	mg/L	111	(85-115)		
LCS2	Iron Total ICAP		5.0	5.48	mg/L	110	(85-115)	20	1.3
MBLK	Iron Total ICAP			<0.02	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0212	mg/L	106	(50-150)		
MS_201009300444	Iron Total ICAP	0.18	5.0	5.79	mg/L	112	(70-130)		
MS2_201009300445	Iron Total ICAP	2.4	5.0	8.33	mg/L	118	(70-130)		
MSD_201009300444	Iron Total ICAP	0.18	5.0	5.79	mg/L	112	(70-130)	20	0.0
MSD2_201009300445	Iron Total ICAP	2.4	5.0	8.42	mg/L	120	(70-130)	20	1.7

Spike recovery is already corrected for native results.

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.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



Pace Analytical Services, Inc. 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

November 03, 2010

Ms. Jaclyn L. Contreras MWH Americas, Inc. Royal Oaks Dr. Suite 100 Monrovia, CA 910163629

RE: Project: PACE-PA 344804 Pace Project No.: 3035914

Dear Ms. Contreras:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sugardy allins

Jacquelyn Collins

jacquelyn.collins@pacelabs.com Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, MWH Americas, Inc.

REPORT OF LABORATORY ANALYSIS

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Page 1 of 8



Pace Analytical Services, Inc. 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

CERTIFICATIONS

Project: PACE-PA 344804 Pace Project No.: 3035914

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601 Alabama Certification #: 41590 Arizona Certification #: AZ0734 Arkansas Certification California/NELAC Certification #: 04222CA Colorado Certification Connecticut Certification #: PH 0694 **Delaware Certification** Florida/NELAC Certification #: E87683 Guam/PADEP Certification Hawaii/PADEP Certification Idaho Certification Illinois/PADEP Certification Indiana/PADEP Certification Iowa Certification #: 391 Kansas/NELAC Certification #: E-10358 Kentucky Certification #: 90133 Louisiana/NELAC Certification #: LA080002 Louisiana/NELAC Certification #: 4086 Maine Certification #: PA0091 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification Missouri Certification #: 235 Montana Certification #: Cert 0082 Nevada Certification New Hampshire/NELAC Certification #: 2976 New Jersey/NELAC Certification #: PA 051 New Mexico Certification New York/NELAC Certification #: 10888 North Carolina Certification #: 42706 Oregon/NELAC Certification #: PA200002 Pennsylvania/NELAC Certification #: 65-00282 Puerto Rico Certification #: PA01457 South Dakota Certification Tennessee Certification #: TN2867 Texas/NELAC Certification #: T104704188-09 TX Utah/NELAC Certification #: ANTE Virgin Island/PADEP Certification Virginia Certification #: 00112 Washington Certification #: C1941 West Virginia Certification #: 143 Wisconsin/PADEP Certification Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Date Received

3035914001	201009280156	Drinking Water	09/27/10 08:30
Lab ID	Sample ID	Matrix	Date Collected
Project: Pace Project No.:	PACE-PA 344804 3035914		

	-			
4001	201009280156	Drinking Water	09/27/10 08:30	10/21/10 10:00

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project: PACE-PA 344804 Pace Project No.: 3035914

				Analytes	
Lab ID	Sample ID	Method	Analysts	Reported	Laboratory
3035914001	201009280156	SM 7110C	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS





PROJECT NARRATIVE

Project: PACE-PA 344804

Pace Project No.: 3035914

Method: SM 7110C

Description:7110C Gross AlphaClient:MWH LaboratoriesDate:November 03, 2010

General Information:

1 sample was analyzed for SM 7110C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

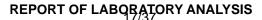
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.







ANALYTICAL RESULTS

Project: PACE-PA 344804

Pace Project No.: 3035914

Sample: 201009280156 PWS:	Lab ID: 30359140 Site ID:	01 Collected: 09/27/10 08:30 Sample Type:	Received:	10/21/10 10:00	Matrix: Drinking	Water
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	SM 7110C	13.3 ± 2.19 (2.45) p	oCi/L	10/29/10 22:16	6 12587-46-1	

Date: 11/03/2010 09:11 AM

REPORT OF LABORATORY ANALYSIS

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Page 6 of 8



QUALITY CONTROL DATA

Project:	PACE-PA 344804				
Pace Project No.:	3035914				
QC Batch:	RADC/6587	Analysis Method	: SM 7110C		
QC Batch Method:	SM 7110C	Analysis Descrip	tion: 7110C Gros	s Alpha	
Associated Lab Sar	mples: 303591400 ⁴	1			
METHOD BLANK:	232669	Matrix: Wa	ter		
Associated Lab Sat	mples: 303591400 ⁴	1			
Para	meter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Gross Alpha	-(0.431 ± 0.687 (2.16)	pCi/L	10/29/10 05:58	

REPORT OF LABORATORY ANALYSIS





QUALIFIERS

Project: PACE-PA 344804

Pace Project No.: 3035914

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

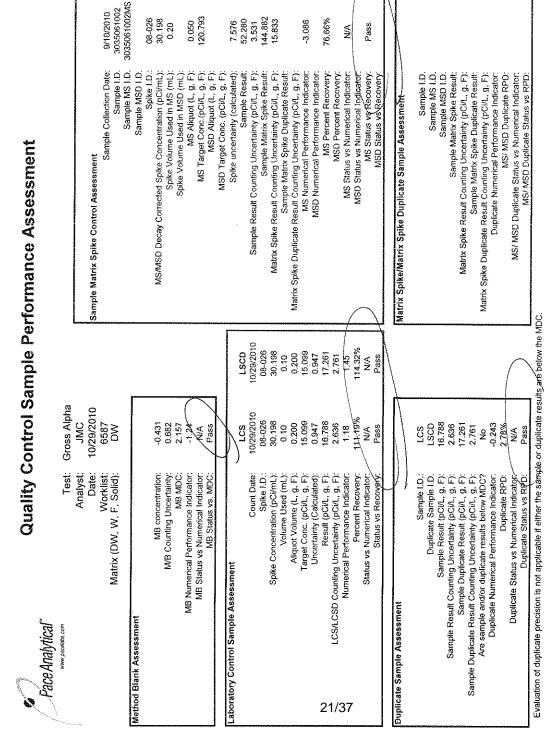
LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS



QA Assessment Spreadsheet PACE Analytical Services Waitz Mill Laboratory



1 of 1

Um~ 11/3/10

Comments:

Purchase Order 99-06570 ubmitted under different MWH project numbers/ and Job # 1000014 steed (if extracted) and Method reference on the report. de for List of Terms and Conditions	Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix. Samples from the State of NEVADA		PWS Systemcode PWSID		MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN CELSIUS An Acknowledgement of Receipt is requested to attn. Christine Lewis
Date 10/20/2010 Submittal Form & Purchase Order 99-06570 *REPORTING REQUIRMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers! Report & Invoice must have the MWH Project Number 34804 Sub PO# 99-06570 and Job # 1000014 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: Jackie Contreras Sub-Contracting Administrator EMAIL TO: mwhiabs-subcontractreports@mwhgiobal.com MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016 Phone (626) 386-1165 Fax (626) 386-1122 Invoices to: MWH LABORATORIES Accounts Payable PO BOX 6610, Broomfield, CO 80021	2 week Rush	S (only Analysis Requested	Gross Alpha (Sub) 09/27/10 0830 Water	Sample Control Date Date
M/WH Laboratories A Division of M/WH Americas, Inc. 750 Royal Oaks Drive Suite 100 Monrovia, CA 91016-3629 Ph (626) 386-1100 Fax (626) 386-1095 Re	Road, Suite 2 Services, Inc. 15601	2 N Fax 724-850-5601		201009280156 Effluent	Ray
MVH Lat A Division c 750 Royal C Monrovia, C Ph (626) 381	ship To 1638 Roseytown Road, Suite 2 PACE Analytical Services, Inc. Greensburg, PA 15601	724-850-5600		20.00 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Relinquished by: Received by:

Sa	mple Condition	Upon Receipt Sros
Face Analytical Client Name	: <u>MWH</u>	Project # <u>3036914</u>
Courier: X Fed Ex UPS USPS Clier Tracking #: 429428722718	,	Pace Other Optional Proj Due Date: Proj Name:
Custody Seal on Cooler/Box Present:	, ,	ntact: yes no
Packing Material: Bubble Wrap Bubble	Bags 🕅 None [Other
Thermometer Used <u>3 5</u>	Type of Ice: Wet	
Cooler Temperature NA Temp should be above freezing to 6°C	Biological Tissue i	s Frozen: Yes No Date and Initials of person examining contents: Comments:
Chain of Custody Present:	XYes □No □N/A	1
Chain of Custody Filled Out:	Yes No N/A	2.
Chain of Custody Relinquished:	Yes No N/A	3.
Sampler Name & Signature on COC:	□Yes ĂNO □N/A	4.
Samples Arrived within Hold Time:		5.
Short Hold Time Analysis (<72hr):	□Yes XNO □N/A	6.
Rush Turn Around Time Requested:		7. DWK
Sufficient Volume:	XYes □No □N/A	8.
Correct Containers Used:	Yes No N/A	9.
-Pace Containers Used:	Reves XNO □N/A	
Containers Intact:	Yes DNO DN/A	10.
Filtered volume received for Dissolved tests	□Yes □No ¤N/A	11
Sample Labels match COC:	Yes INO IN/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>ں</u>	
All containers needing preservation have been checked.	ØYes ⊡No □N/A	13. 10/21/10 C 1046
All containers needing preservation are found to be in compliance with EPA recommendation.	□Yes XNO □N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes ØNo	Initial when SmB Lot # of added RF10-0282-2
Samples checked for dechlorination:	□yes □no 太n/A	14.
Headspace in VOA Vials (>6mm):	□Yes □No ⊠N/A	15.
Trip Blank Present:	□Yes □No 🗖N/A	16.
Trip Blank Custody Seals Present		
Pace Trip Blank Lot # (if purchased):	-	
Client Notification/ Resolution: Person Contacted:	Date/T	Field Data Required? Y / N
Comments/ Resolution:		
· · · ·		
Project Manager Review:	<u>faCa</u>	<u>llen</u> Date: 10/21/10

Note: Whenever there is a discrepancy affecting. North Carolina compliance sar23#37 copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Pace Analytical Services, Inc. 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

October 19, 2010

Ms. Jaclyn L. Contreras MWH Americas, Inc. Royal Oaks Dr. Suite 100 Monrovia, CA 910163629

RE: Project: PACE-PA 344804 Pace Project No.: 3034744

Dear Ms. Contreras:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sugardy allins

Jacquelyn Collins

jacquelyn.collins@pacelabs.com Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, MWH Americas, Inc.

REPORT OF LABORATORY ANALYSIS

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Page 1 of 10



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CERTIFICATIONS

Project: PACE-PA 344804

Pace Project No.: 3034744

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601 Alabama Certification #: 41590 Arizona Certification #: AZ0734 Arkansas Certification California/NELAC Certification #: 04222CA Colorado Certification Connecticut Certification #: PH 0694 **Delaware Certification** Florida/NELAC Certification #: E87683 Guam/PADEP Certification Hawaii/PADEP Certification Idaho Certification Illinois/PADEP Certification Indiana/PADEP Certification Iowa Certification #: 391 Kansas/NELAC Certification #: E-10358 Kentucky Certification #: 90133 Louisiana/NELAC Certification #: LA080002 Louisiana/NELAC Certification #: 4086 Maine Certification #: PA0091 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification Missouri Certification #: 235 Montana Certification #: Cert 0082 Nevada Certification New Hampshire/NELAC Certification #: 2976 New Jersey/NELAC Certification #: PA 051 New Mexico Certification New York/NELAC Certification #: 10888 North Carolina Certification #: 42706 Oregon/NELAC Certification #: PA200002 Pennsylvania/NELAC Certification #: 65-00282 Puerto Rico Certification #: PA01457 South Dakota Certification Tennessee Certification #: TN2867 Texas/NELAC Certification #: T104704188-09 TX Utah/NELAC Certification #: ANTE Virgin Island/PADEP Certification Virginia Certification #: 00112 Washington Certification #: C1941 West Virginia Certification #: 143 Wisconsin/PADEP Certification Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

3034744001	201009280156	Drinking Water	09/27/10 08:30	09/30/10 10:00
Lab ID	Sample ID	Matrix	Date Collected	Date Received
Pace Project No.				
Project: PACE-PA 344804				

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project: PACE-PA 344804 Pace Project No.: 3034744

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3034744001	201009280156	EPA 903.1	RMD	1	PASI-PA
		EPA 904.0	DJL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS





PROJECT NARRATIVE

Project: PACE-PA 344804

Pace Project No.: 3034744

Method: EPA 903.1

Description:903.1 Radium 226Client:MWH LaboratoriesDate:October 19, 2010

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:







PROJECT NARRATIVE

Project: PACE-PA 344804

Pace Project No.: 3034744

Method: EPA 904.0

Description:904.0 Radium 228Client:MWH LaboratoriesDate:October 19, 2010

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

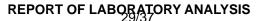
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.







ANALYTICAL RESULTS

Project: PACE-PA 344804

Pace Project No.: 3034744

Sample: 201009280156 PWS:	Lab ID: 30347440 Site ID:	001 Collected: 09/27/10 08:30 Sample Type:	Received:	09/30/10 10:00	Matrix: Drinking	Water
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226 Radium-228	EPA 903.1 EPA 904.0	· · ·	pCi/L pCi/L	10/11/10 14:12 10/15/10 15:18	2 13982-63-3 3 15262-20-1	

Date: 10/19/2010 09:39 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project:	PACE-PA 344804				
Pace Project No.:	3034744				
QC Batch:	RADC/6343	Analysis Method:	EPA 903.1		
QC Batch Method:	EPA 903.1	Analysis Descripti	on: 903.1 Radiu	um-226	
Associated Lab Sa	mples: 30347440	001			
METHOD BLANK:	222762	Matrix: Wate	er		
Associated Lab Sa	mples: 30347440	001			
Para	meter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226		$-0.061 \pm 0.266 (0.652)$	pCi/L	10/11/10 13:05	

REPORT OF LABORATORY ANALYSIS





QUALITY CONTROL DATA

Project:	PACE-PA 344804	1				
Pace Project No.:	3034744					
QC Batch:	RADC/6344	Analysis Method:	EPA 904.0			
QC Batch Method	EPA 904.0	Analysis Description	n: 904.0 Radiu	um 228		
Associated Lab Sa	amples: 3034744	001				
METHOD BLANK	222763	Matrix: Water				
Associated Lab Sa	amples: 3034744	001				
Para	ameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers	
Radium-228		$0.252 \pm 0.362 (0.771)$	pCi/L	10/15/10 15:17		

REPORT OF LABORATORY ANALYSIS 32/37





QUALIFIERS

Project: PACE-PA 344804

Pace Project No.: 3034744

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

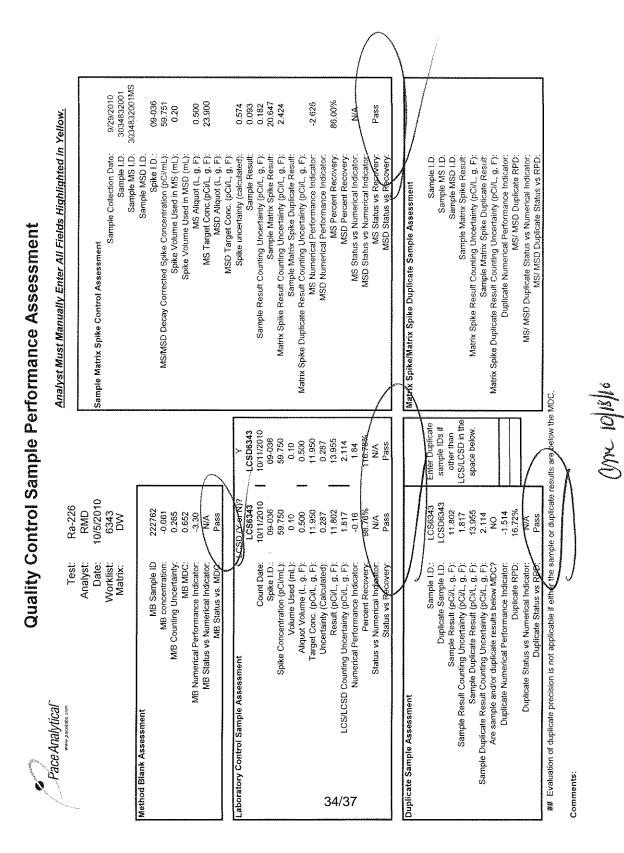
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS





Method Blank Assessment Method Blank Assessment MB Numerica MB Statu MB Statu	L Concet Aliquot Aliquot Concet Aliquot Aliquot Aliquot S vs Nuu Aliquot S vs Nuu	Control Sa Ra-228 DJL 9/21/2010 6344 DW 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.037 0.0309 0.8000 0.8000 0.8000 0.800000000	ample Pe 10,10,10,10,10,10,10,10,10,10,10,10,10,1	s l	Yellow. 9/29/2010 3034832001MS 09-037 79.314 0.200 19.828 19.828 19.828 1.281 1.281 1.281 1.281 1.596 1.596 1.596 1.596 1.596 1.598 1.81 21.456 1.596 1.598 1.81 21.456 1.598 1.835 2.4456 1.581 2.4456 1.581 2.4456 1.581 2.4456 1.581 2.4456 1.581 2.4456 1.581 2.4456 1.581 2.4456 1.581 2.4456 1.581 2.4456 1.581 2.582 2.582 2.582 2.582 2.582 2.582 2.582 2.582 2.582 2.592 2.	\sim
	Status vs Recovery:	Pass	Pass	MSD Status vs. Recovery:	A CANADA SA	
Duplicate Sample Assessment	Sampte I.D.: Dupficate Sampte I.D.	LCS6344 LCSD6344	Enter Duplicate sample IDs If	Matrix Spike/Matrix Spike Duplicate Sample Assessment Sample I.D. Sample NS I.D.		
Sat Sample Result Counting Sample Duplicate Result Counting Are sample and/or duplic Duplicate Numerica Duplicate Statu	50 252	/	other than LCS/LCSD in the space below.	Sample MSD I,D Sample MSD I,D Sample Matrix Spike Result Matrix Spike Result Counting Uncertainty (pC/tl, g, F) Sample Matrix Spike Duplicate Result Counting Uncertainty (pC/L, g, F) Duplicate Result Counting Uncertainty (pC/L, g, F) MS/ MSD Duplicate RPD: MS/ MSD Duplicate Status vs Numerical Indicator MS/ MSD Duplicate Status vs RPD:		

0m-10/18/10 ## Evaluation of duplicate precision is not applicable tether the sample or duplicate results are below the MDC.

Comments:

Ra-228 NELAC DW Printed 10/18/2010 12:58 PM

Date 9/29/2010 Submittal Form & Purchase Order 99-06299 *REPORTING REQURMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers! Report & Invoice must have the MWH Project Number 344804 Sub PO# 99-06299 and Job # 1000014 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 See reverse side for List of Terms and Conditions	racting AdministratorProvide in each Report the Specified State Certification # & Exp Date for requested tests100, Monrovia, CA 91016+ matrix26) 386-1122Samples from the State of NEVADA26) 386-1122comfield, CO 80021		Sample Date & Time Matrix PWS Systemcode PWSID	09/27/10 0830 Water OOV		 Time/500 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN CELSIUS Time 1000 An Acknowledgement of Receipt is requested to attin Christine Lewis
Date 9/29/2010 Submittal Fc *REPORTING REQUIRMENTS: Do Not Combine Report with any other s Report & Invoice must have the MWH Project Number 344804 Sub PO# <u>Report all quality control data according to Method, Include dates analyzed.</u> Results must have Complete data & QC with Approval Signature. See	Reports: Jackie Contreras Sub-Contracting Administrator EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016 Phone (626) 386-1165 Fax (626) 386-1122 Invoices to: MWH LABORATORIES Accounts Payable PO BOX 6610, Broomfield, CO 80021		Sub PO# 99-06299 Client Sample ID for reference only Analysis Requested	Radium 226 (Sub) Radium 228 (Sub)	ŷ	Sample Control Date $\frac{3/26/\sqrt{3}}{\sqrt{200}}$ Time/ 500 Date $\frac{\sqrt{20}/\sqrt{3}}{\sqrt{20}}$ Time 1000 Page 1 of 1
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	l, Suite 2 ces, Inc. 1	Fax 724-850-5601	 2000000000000000000000000000000000000	201009280156 Effluent 201009280156 Effluent		- Company
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-	ship To 1638 Roseytown Road, Suite 2 PACE Analytical Services, Inc. Greensburg, PA 15601		MWH Project # 344804 JLS	EPA 903.1 900 8028EDD EPA 904.0 2000 8228EDD		Reinquished by:

San	nple Condition	Upon Receipt	Sme
Pace Analytical Client Name:	mw	4	Project # <u>30 34 744</u>
Courier: X Fed Ex UPS USPS Clien Tracking #: 4294 25720510	X .	Pace Other	Optional Proj. Due Date: Proj. Name:
Custody Seal on Cooler/Box Present:	🖄 no 🛛 Seals	intact: 🔄 yes 🗌	no
Packing Material: Bubble Wrap	Bags 🔄 None	Other	
Thermometer Used 3 5	Type of Ice: Wet	Blue None	Samples on ice, cooling process has begun
Cooler Temperature NA Temp should be above freezing to 6°C	Biological Tissue	is Frozen: Yes No Comments:	Date and Initials of person examining contents: <u>SmB_92010</u>
Chain of Custody Present:	Xiyes 🗆 No 🗆 N/A	1.	
Chain of Custody Filled Out:		2.	
Chain of Custody Relinquished:	XYes □No □N/A	3.	
Sampler Name & Signature on COC:	□Yes ĎNo □N/A	4.	
Samples Arrived within Hold Time:	Yes 🗆 No 🗆 N/A	5.	
Short Hold Time Analysis (<72hr):		6.	
Rush Turn Around Time Requested:		7.	
Sufficient Volume:	X Yes □No □N/A	8.	
Correct Containers Used:	,Xyes ⊡No ⊡N/A	9.	
-Pace Containers Used:	□Yes XNo □N/A		
Containers Intact:		10.	
Filtered volume received for Dissolved tests		11.	
Sample Labels match COC:	Yes ⊡No ⊡N/A	12.	
-Includes date/time/ID/Analysis Matrix:(1)			
All containers needing preservation have been checked.	Xyes ⊡No ⊡N/A	13.all bottles	930/10@1510
All containers needing preservation are found to be in compliance with EPA recommendation.			
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)		initial when completed SMB	Lot # of added m4-94-3
Samples checked for dechlorination:			
Headspace in VOA Vials (>6mm):	□Yes □No ☑N/A	15.	
Trip Blank Present:		16.	
Trip Blank Custody Seals Present	□Yes □No ĎN/A		
Pace Trip Blank Lot # (if purchased):			
Client Notification/ Resolution:		an 190 min an	Field Data Required? Y / N
Person Contacted:	Date/	Time:	
Comments/ Resolution:			
		17 1 10 h	
Project Manager Review:	- La		Date: /0//////

Note: Whenever there is a discrepancy affecting North Carolina compliance sage/97a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)