

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)

Laboratory Report

for

Tronox LLC PO Box 55 Henderson, NV 89009 Attention: Susan Crowley

Fax: 702-651-2310

Date of Issue
11/16/2010

Output

WH LABORATORIES

LXG: Linda Geddes
Project Manager



Report#: 343486 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.



Acknowledgement of Samples Received

Tronox LLC

PO Box 55

Henderson, NV 89009 Attn: Susan Crowley Phone: 702-651-2234 Customer Code: TRONOX
Folder #: 343486
Project: CWA-RCRA

Sample Group: Weekly Influent-Effluent long TAT

Project Manager: Linda Geddes Phone: (626) 386-1163

The following samples were received from you on **September 14, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID		Sample Date
201009140323	Effluent		Sep 13, 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)	
201009140324	Influent		Sep 13, 2010 09:00
	Apparent Color	Chromium Total ICAP	Hexavalent chromium(Dissolved)
	Total Kjeldahl Nitrogen	Total phosphorus as P	

Test Description

@ACOPEDD -- Gross Alpha by Co-precipitation (Sub)

@R226EDD -- Radium 226 (Sub)

@R228EDD -- Radium 228 (Sub)

MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

3-12-12-12

COMMENTS SAMPLER Reported by Weight: SO = Soil SL = Sludge (check for yes) THAWED ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line) PARTIALLY FROZEN SAMPLES CHECKED/LOGGED IN BY: $\mathbb{S}/$ REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES SAMPLE TEMP, RECEIPT AT LAB: CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water LSS × FROZEN @ALPHA × \times Hd СВ BLUE ICE: (2 Btls.) × RA228EDD/RA226EDD Color \times \times T-P, TKN × \times FE, CR × RGW = Raw Ground Water RSW = Raw Surface Water × AHAJA \times × CrVI COMP × \times CKVB RSW RSW Tronox LLC - Henderson Plant PO Box 55 MATRIX : 750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629 LOGIN COMMENTS: Henderson, NV 89009 MWLABS USE ONLY: IDENTIFIER, STATE ID# Reported by Volume:

CFW = Chlor(am)inated Finished Water

FW = Other Finished Water EFFLUENT INFLUENT PROJECT JOB # / P.O.# CWA-RCRA (800) 566-5227 (702) 651-2234 LOCATION TO BE COMPLETED BY SAMPLER: COMPANY / PROJECT NAME 3/43/6 8:30 AM | 9/13/2010 DATE * MATRIX TYPES: (626) 386-1100 TIME 9:00

PAGE 1 of 1

12:00 PM

9/13/2010

Veolia Water NA for Tronox LLC - Henderson Plant

COMPANY/TITLE

PRINT NAME

SIGNATURE

RECEIVED BY:

Michele Brown

18

RELINQUISHED BY:

RECEIVED BY:

Bottle Order for Tronox LLC

MAWCH Laboratories, a Division of MWH Americas, Inc. 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016 (626) 386-1100 FAX (626) 386-1124

Page 1

Date Received Date Sampled Group#

TRONOX	Project Code CWA-RCRA Bottle Orders	Group Name - Weekly Influent-Effluent long TAT		Send Report to
Client Code TRONOX	Project Code	Group Name	PO#/10p#	
<u>Linda Geddes</u> Your MWHL Project Manager	Sampler place refilth	this paper with your samples		Ship Sample Kits to
Linda	BO #: 21648	S4. (8) : 145	Order Date: 07/28/2010	Bottle Orders

Veolia Water-Tronox LLC

Gate 1

Sing Dy.

Henderson, NV 82015

Atta: Wendy Prescott

Phone:

Fax.

:	Billing Address	Lightox LLC	PO Box 55	Flenderson, NV 89009		Atta: Susan Crowley	Phone: 702-651-2234	Fax: 702-651-2310
Send Report to	Tronox LLC	PO Box 55	Handarson NV 89009			Atta: Susan Crowley	Phone: 702-651-2234	Fax: 702-651-2310

#	# of Samples Tests	Qteline# Bottles - Qty for each sample, type & preservative if any	
2	4/4	1 sterile 125mL poly Sterile filter + syringe and instructions	
-	@АТРНА	1 500ml poly 2ml 18%HNO3+125ml poly/no pres	
~	@R226EDD	1 1L poly RA_226_4ml HNO3 18%	
-	@R228EDD	1 1L poly 4ml HNO3 (18%)	
2	Apparent Color	1 500ml amber glass no preservative	
-	Chromium Total ICAP	1 250ml acid rinsed 1ml HNO3 (18%)	
	C C C C C C C C C C C C C C C C C C C	4 250ml acid rineed 4ml HNO3 (48%)	-

sterile (2011) poly oterile met a symige and morrorie	1 500ml poly 2ml 18%HNO3+125ml poly/no pres	1 1L poly RA_226_4ml HNO3 18%	1 1L poly 4ml HNO3 (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	1 250ml poly 0.5ml H2SO4 (50%)	1 500ml poly TDS - no preservative
/4:	<u>@</u> АҐРНА	@R226EDD	@R228EDD	Apparent Color	Chromium Total ICAP	Chromium Total ICAP, Iron Total ICAP	Hexavalent Chromium (Dissolved)	PH (H3=past HT not compliant)	Total Kjeldahl Nitrogen, Total phosphorus as P	Total Suspended Solids (TSS)

Comments

Weekly influent effluent - long TAT tests

Use sample ID of EFFLUENT and INFLUENT

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

<u>Sia</u>

of Coolers

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 filling or record.

SHIPPER'S NUMBER: 144459

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

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				D	ate			FROM NO. STATION: STATE		
Federa	al Express					9.	/13/	10		Henderson, NV 89015
MWH I 750 Ro Monro	LABORATOF oyal Oaks Av via, CA 910 : 626-568-64	enue, 16-362							,	Authorization S. CROWLEY FULL NAME OF SHIPPER TRONOX LLC CODE NO. WCN IS
FREIGHT CH		llect								10181
	ald Co	IICCI	CUSTOMER PO OR RE	Q'N NO.	un extin	SH	IIPPED	FROM		If it moves between two ports by water, the
N/AR						Henderson, NV				law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.
NO.		DESCF	IPTION AND CLASSIFICAT	TION		STOCK	NO.	TOTAL QUANT	TTY	
Weekly Discreets— (Influent – Effluent Weekly Grabs) Not Regulated One - ice chest @ 20 lbs One - ice chest @ 35 lbs							2	COOLERS		Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement: The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TRONOX LLC The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement.
PLACARDS (OFFERED Y	ES	PLACARDS ACC	_	ES					FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC – DAY OR NIGHT
		10		⊠ N				F.WEIGUT	_	800-424-9300 483-7616 IN DISTRICT OF COLUMBIA
NUMBE	R OF PACKAGES	G	ROSS WEIGHT	TARE V	VEIGHT)		NET	T WEIGHT		202-483-7616 FROM OUTSIDE THE
	2	G	TOTAL ROSS WEIGHT 55	TO TARE V	TAL			55		CONTINENTAL US. "Shippers imprint in lieu of stamp; not a part of
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value declared value of the property is hereby specifically stated by the shipper to be not exceeding per							f the pro	operty. The agreed		Bill of Lading approved by the Interstate Commerce Commission"
							RKED A	AND LABELED ANI	O ARE	IN PROPER CONDITION FOR
TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRA TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859 PER Carron Williams					AGENT				PER	

From: Origin ID: LASA (702) 651-2200

Tronox Tronox

560 W. Lake Mead Parkway

Henderson, NV 89015



J10201008090225

SHIP TO: (626) 568-6400

BILL SENDER

Attn: Sample Receiving Montgomery Watson Labs 750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016



Ship Date: 13SEP10 ActWgt: 35.0 LB CAD: 100845654/INET3060

Delivery Address Bar Code



Ref # MSO #144459

Invoice # PO # Dept #

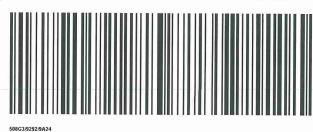
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TUE - 14 SEP A1 PRIORITY OVERNIGHT

QZ WHPA

91016 CA-US

BUR



After printing this label:

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November 16, 2010

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

Subject: Case Narrative report 343486

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on September 14, 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:

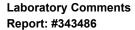
For the MWH Laboratories data the following issues were observed:

Other Observations:

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

Sincerely,

Linda Geddes Project Manager





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

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.

Signature:

Group Comments

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



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Tronox LLCSusan Crowley
PO Box 55
Henderson, NV 89009

Laboratory Hits Report: 343486

Samples Received on: 09/14/2010

Analyzed	Ana	alyte Sample	ID Result	Federal MCL	Units	MRL
	2010	009140323 <u>Effluent</u>				
09/14/2010	13:12	Apparent Color	15	15	ACU	3
11/10/2010	19:56	Gross Alpha by Coprecipitation	16.0	15	pCi/L	2.7
09/21/2010	7:48	Iron Total ICAP	2.0	0.3	mg/L	0.02
09/16/2010	17:12	Kjeldahl Nitrogen	3.5		mg/L	0.2
09/15/2010	18:19	PH (H3=past HT not compliant)	6.9		Units	0.1
09/23/2010	19:18	Total phosphorus as P	0.43		mg/L	0.02
09/15/2010	12:23	Total Suspended Solids (TSS)	10		mg/L	10
	2010	009140324 <u>Influent</u>				
09/14/2010	13:13	Apparent Color	15	15	ACU	3
09/14/2010	12:48	Hexavalent chromium(Dissolve	d) 1.2		ug/L	0.05
09/16/2010	17:13	Kjeldahl Nitrogen	7.6		mg/L	1
09/23/2010	19:26	Total phosphorus as P	0.056		mg/L	0.02

Laboratory Data Report: 343486

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Fax: 626 386 1101

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Tronox LLC Susan Crowley PO Box 55 Henderson, NV 89009

Samples Received on: 09/14/2010

Prepared	Analyz	ed	QC Ref#	Method	Analyte	Result	Units	MDL	MRI	L SQL	Dilution
Effluent ((201009140	<u> (323)</u>						Sampled	d on	09/13/2010	0830
		EPA	903.1 - R	adium 226 (Sul	b)						
	09/27/2010	12:39		(EPA 903.1)	Radium 226	<0.879	pCi/L		0.88	0.0000	1
	09/27/2010	12:39		(EPA 903.1)	Radium 226 Minimal Detectable	0.879	pCi/L			0.0000	1
	09/27/2010	12:39		(EPA 903.1)	Radium 226 Two Sigma Error	0.353	pCi/L			0.0000	1
		EPA	904.0 - R	adium 228 (Sub)						
	10/06/2010	10:18		(EPA 904.0)	Radium 228	<0.808	pCi/L		0.81	0.0000	1
	10/06/2010	10:18		(EPA 904.0)	Radium 228 Minimum Detectable	0.808	pCi/L			0.0000	1
	10/06/2010	10:18		(EPA 904.0)	Radium 228 Two Sigma Error	0.424	pCi/L			0.0000	1
		SM 7	110C - G	ross Alpha by 0	Co-precipitation (Sub)						
	11/10/2010	19:56		(SM 7110C)	Alpha, Min Detectable Activity	2.71	pCi/L			0.0000	1
	11/10/2010	19:56		(SM 7110C)	Alpha, Two Sigma Error	3.83	pCi/L			0.0000	1
	11/10/2010	19:56		(SM 7110C)	Gross Alpha by Coprecipitation	16.0	pCi/L		2.7	0.0000	1
		EPA	351.2 - T	otal Kjeldahl Ni	trogen						
	09/16/2010	17:12	569432	(EPA 351.2)	Kjeldahl Nitrogen	3.5	mg/L	0.044	0.2	0.044	1
		EPA	200.7 - IC	CP Metals							
	09/21/2010	7::48	569865	(EPA 200.7)	Chromium Total ICAP	0.009J	mg/L	0.00044	0.01	0.0004	1
	09/21/2010	7::48	569865	(EPA 200.7)	Iron Total ICAP	2.0	mg/L	0.0050	0.02	0.0050	1
		EPA	218.6 - H	exavalent chroi	mium(Dissolved)						
	09/14/2010	12:12	569121	(EPA 218.6)	Hexavalent chromium(Dissolved)	ND	ug/L	0.033	0.05	0.033	1
		SM45	500-PE/E	PA 365.1 - Total	phosphorus as P (T-P)						
	09/23/2010	19:18	570667	(SM4500-PE/EP A 365.1)	Total phosphorus as P	0.43	mg/L	0.0084	0.02	0.0084	1
		SM45	500-HB -	PH (H3=past H1	not compliant)						
	09/15/2010	18:19	569324	(SM4500-HB)	PH (H3=past HT not compliant)	6.9	Units	0.10	0.1	0.100	1
		SM 2	540D - To	otal Suspended	Solids (TSS)						
	09/15/2010	12:23		(SM 2540D)	Total Suspended Solids (TSS)	10	mg/L	4.4	10	4.4	1
		SM 2		pparent Color	. ,		ŭ				



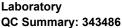
Laboratory Data Report: 343486

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Tronox LLC Susan Crowley PO Box 55 Henderson, NV 89009

Samples Received on: 09/14/2010

Prepared	Analyz	ed	QC Ref#	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
	09/14/2010	13:12	569385	(SM 2120B)	Apparent Color	15	ACU	3	3	3.0	1
<u>Influent (</u>	(201009140	<u>324)</u>						Sampled	on 09	9/13/2010	0900
		EPA :	351.2 - T	otal Kjeldahl Ni	trogen						
	09/16/2010	17:13	569432	(EPA 351.2)	Kjeldahl Nitrogen	7.6	mg/L	0.044	1	0.22	5
		EPA :	200.7 - IC	CP Metals							
	09/18/2010	2::22	569667	(EPA 200.7)	Chromium Total ICAP	0.0062J	mg/L	0.00044	0.01	0.0004	1
		EPA :	218.6 - H	exavalent chro	mium(Dissolved)						
	09/14/2010	12:48	569121	(EPA 218.6)	Hexavalent chromium(Dissolved)	1.2	ug/L	0.033	0.05	0.033	1
		SM45	600-PE/E	PA 365.1 - Tota	l phosphorus as P (T-P)						
	09/23/2010	19:26	570667	(SM4500-PE/EP A 365.1)	Total phosphorus as P	0.056	mg/L	0.0084	0.02	0.0084	1
		SM 2	120B - A	pparent Color							
	09/14/2010	13:13	569385	(SM 2120B)	Apparent Color	15	ACU	3	3	3.0	1





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Tronox LLC

QC Ref # 569121 - Hexavalent chromium(Dissolved)

201009140323 Effluent 201009140324 Influent

QC Ref # 569146 - Total Suspended Solids (TSS)

201009140323 Effluent

QC Ref # 569324 - PH (H3=past HT not compliant)

201009140323 Effluent

QC Ref # 569385 - Apparent Color

201009140323 Effluent 201009140324 Influent

QC Ref # 569432 - Total Kjeldahl Nitrogen

201009140323 Effluent 201009140324 Influent

QC Ref # 569667 - ICP Metals

201009140324 Influent

QC Ref # 569865 - ICP Metals

201009140323 Effluent

QC Ref # 570667 - Total phosphorus as P (T-P)

201009140323 Effluent 201009140324 Influent Analysis Date: 09/14/2010

Analyzed by: TLH Analyzed by: TLH

Analysis Date: 09/15/2010

Analyzed by: JRF

Analysis Date: 09/15/2010

Analyzed by: NEM

Analysis Date: 09/14/2010

Analyzed by: SAR Analyzed by: SAR

Analysis Date: 09/16/2010

Analyzed by: NJR Analyzed by: NJR

Analysis Date: 09/18/2010

Analyzed by: NINA

Analysis Date: 09/21/2010

Analyzed by: NINA

Analysis Date: 09/23/2010

Analyzed by: NJR Analyzed by: NJR

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Laboratory QC Report: 343486

Tronox LLC

	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 569121 - Hexa	avalent chromium(Dissolved) by	EPA 218.6			А	nalysis Da	ate: 09/14/20	010	
LCS1	Hexavalent chromium(Dissolved)		2.0	1.97	ug/L	98	(90-110)		
LCS2	Hexavalent chromium(Dissolved)		2.0	1.97	ug/L	99	(90-110)		
MBLK	Hexavalent chromium(Dissolved)			<0.1	ug/L				
MRL_CHK	Hexavalent chromium(Dissolved)		0.05	0.0574	ug/L	115	(50-150)		
MS_201009130138	Hexavalent chromium(Dissolved)	1.5	2.0	3.52	ug/L	102	(90-110)		
MS_201009140324	Hexavalent chromium(Dissolved)	1.2	2.0	3.19	ug/L	99	(90-110)		
MSD_201009130138	Hexavalent chromium(Dissolved)	1.5	2.0	3.55	ug/L	103	(90-110)	20	0.98
QC Ref# 569146 - Total	I Suspended Solids (TSS) by SM	2540D			Α	nalysis Da	ate: 09/15/20	010	
DUP_201009140323	Total Suspended Solids (TSS)	10		11.0	mg/L		(0-10)	10	9.5
LCS1	Total Suspended Solids (TSS)		175	164	mg/L	94	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	168	mg/L	96	(71-107)	20	2.4
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	13.0	mg/L	130	(50-150)		
QC Ref# 569324 - PH (I	H3=past HT not compliant) by SM	/14500-НВ			Α	nalysis Da	ate: 09/15/20	010	
DUP1_201009150096	PH (H3=past HT not compliant)	7.6		7.56	Units		(0-20)	20	0.13
LCS1	PH (H3=past HT not compliant)		6.0	5.98	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	5.98	Units	100	(98-102)	20	0.0
QC Ref# 569385 - Appa	arent Color by SM 2120B				Α	nalysis Da	ate: 09/14/20	010	
DUP 201009150435	Apparent Color	ND		ND	ACU		(0-20)		
DUP1 201009130007	Apparent Color	ND		ND	ACU		(0-20)		
_ MBLK	Apparent Color			<3	ACU		(0 20)		
QC Ref# 569432 - Tota	I Kjeldahl Nitrogen by EPA 351.2				Α	nalysis Da	ate: 09/16/20	010	
LCS1	Kjeldahl Nitrogen		4.0	4.03	mg/L	101	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	4.17	mg/L	104	(90-110)	20	3.4
MBLK	Kjeldahl Nitrogen			<0.1	mg/L		(00 110)		0.1
MRL CHK	Kjeldahl Nitrogen		0.2	0.207	mg/L	104	(50-150)		
MS 201009100263	Kjeldahl Nitrogen	0.38		4.19	mg/L	95	(90-110)		
MS2_201009110050	Kjeldahl Nitrogen	0.84		4.78	mg/L	99	(90-110)		
_ MSD_201009100263	Kjeldahl Nitrogen	0.38	4.0	4.16	mg/L	95	(90-110)	20	0.74
 QC Ref# 569667 - ICP I	Metals by EPA 200.7				Α	nalvsis Da	ate: 09/17/20	010	
LCS1	Chromium Total ICAP		1.0	0.961	mg/L	96	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.959	mg/L	96	(85-115)	20	0.21
MBLK	Chromium Total ICAP			<0.01	mg/L		(00 110)	20	0.21
MRL_CHK	Chromium Total ICAP		0.01	0.00953	mg/L	95	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u> Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates ria for MS and Dup are advisory unity, parent some action and 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)

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Tronox LLC (continued)

MS2_201009150544

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201009140180	Chromium Total ICAP	ND	1.0	0.955	mg/L	95	(70-130)		
MS2_201009150643	Chromium Total ICAP	ND	1.0	0.943	mg/L	94	(70-130)		
MSD_201009140180	Chromium Total ICAP	ND	1.0	0.962	mg/L	96	(70-130)	20	0.73
MSD2_201009150643	Chromium Total ICAP	ND	1.0	0.965	mg/L	96	(70-130)	20	2.4
LCS1	Iron Total ICAP		5.0	4.78	mg/L	96	(85-115)		
LCS2	Iron Total ICAP		5.0	4.81	mg/L	96	(85-115)	20	0.63
MBLK	Iron Total ICAP			<0.02	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0227	mg/L	114	(50-150)		
MS_201009140180	Iron Total ICAP	ND	5.0	4.77	mg/L	96	(70-130)		
MS2_201009150643	Iron Total ICAP	ND	5.0	4.62	mg/L	92	(70-130)		
MSD_201009140180	Iron Total ICAP	ND	5.0	4.81	mg/L	96	(70-130)	20	0.83
MSD2_201009150643	Iron Total ICAP	ND	5.0	4.81	mg/L	96	(70-130)	20	4.1
QC Ref# 569865 - ICP	Metals by EPA 200.7				A	nalysis Da	nte: 09/21/20	10	
LCS1	Chromium Total ICAP		1.0	1.03	mg/L	103	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.02	mg/L	102	(85-115)	20	0.98
MBLK	Chromium Total ICAP			<0.01	mg/L		,		
MRL_CHK	Chromium Total ICAP		0.01	0.0102	mg/L	102	(50-150)		
MS_201009090345	Chromium Total ICAP	ND	1.0	1.01	mg/L	101	(70-130)		
MS2_201009110102	Chromium Total ICAP	ND	1.0	0.989	mg/L	99	(70-130)		
MSD_201009090345	Chromium Total ICAP	ND	1.0	1.01	mg/L	101	(70-130)	20	0.0
MSD2_201009110102	Chromium Total ICAP	ND	1.0	1.00	mg/L	100	(70-130)	20	1.2
LCS1	Iron Total ICAP		5.0	5.26	mg/L	105	(85-115)		
LCS2	Iron Total ICAP		5.0	5.15	mg/L	103	(85-115)	20	2.1
MBLK	Iron Total ICAP			<0.02	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0203	mg/L	102	(50-150)		
MS_201009090345	Iron Total ICAP	0.13	5.0	5.32	mg/L	104	(70-130)		
MS2_201009110102	Iron Total ICAP	0.062	2 5.0	5.16	mg/L	102	(70-130)		
MSD_201009090345	Iron Total ICAP	0.13	5.0	5.46	mg/L	107	(70-130)	20	2.8
MSD2_201009110102	Iron Total ICAP	0.062	2 5.0	5.14	mg/L	102	(70-130)	20	0.0
QC Ref# 570667 - Tota	al phosphorus as P (T-P) by S	M4500-PE/EPA 3	65.1		A	nalysis Da	ite: 09/23/20	10	
LCS1	Total phosphorus as P		0.4	0.366	mg/L	92	(90-110)		
LCS2	Total phosphorus as P		0.4	0.373	mg/L	93	(90-110)	20	1.9
MBLK	Total phosphorus as P			<0.02	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0200	mg/L	100	(50-150)		
MS_201009150543	Total phosphorus as P	0.048	3 0.4	0.426	mg/L	95	(90-110)		
MCO 204000450544	Total abasabassa sa D	0.046		0.404		07	(00.440)		

Laboratory

QC Report: 343486

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u> Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates ria for MS and Dup are advisory unity, bacter control of are advisory only, unless otherwise specified in the method.

0.048 0.4

0.434

mg/L

(90-110)

Total phosphorus as P

⁽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)



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Laboratory QC Report: 343486

Tronox LLC (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201009150543	Total phosphorus as P	0.048	0.4	0.439	mg/L	98	(90-110)	20	3.4

⁽S) Indicates surrogate compound.

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Fax: 626 386 1101

Tronox LLC

	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 569121 - Hexa	avalent chromium(Dissolved) by	EPA 218.6			А	nalysis Da	ate: 09/14/20	010	
LCS1	Hexavalent chromium(Dissolved)		2.0	1.97	ug/L	98	(90-110)		
LCS2	Hexavalent chromium(Dissolved)		2.0	1.97	ug/L	99	(90-110)		
MBLK	Hexavalent chromium(Dissolved)			<0.1	ug/L				
MRL_CHK	Hexavalent chromium(Dissolved)		0.05	0.0574	ug/L	115	(50-150)		
MS_201009130138	Hexavalent chromium(Dissolved)	1.5	2.0	3.52	ug/L	102	(90-110)		
MS_201009140324	Hexavalent chromium(Dissolved)	1.2	2.0	3.19	ug/L	99	(90-110)		
MSD_201009130138	Hexavalent chromium(Dissolved)	1.5	2.0	3.55	ug/L	103	(90-110)	20	0.98
QC Ref# 569146 - Total	I Suspended Solids (TSS) by SM	2540D			Α	nalysis Da	ate: 09/15/20	010	
DUP_201009140323	Total Suspended Solids (TSS)	10		11.0	mg/L		(0-10)	10	9.5
LCS1	Total Suspended Solids (TSS)		175	164	mg/L	94	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	168	mg/L	96	(71-107)	20	2.4
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	13.0	mg/L	130	(50-150)		
QC Ref# 569324 - PH (I	H3=past HT not compliant) by SM	/14500-НВ			Α	nalysis Da	ate: 09/15/20	010	
DUP1_201009150096	PH (H3=past HT not compliant)	7.6		7.56	Units		(0-20)	20	0.13
LCS1	PH (H3=past HT not compliant)		6.0	5.98	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	5.98	Units	100	(98-102)	20	0.0
QC Ref# 569385 - Appa	arent Color by SM 2120B				Α	nalysis Da	ate: 09/14/20	010	
DUP 201009150435	Apparent Color	ND		ND	ACU		(0-20)		
DUP1 201009130007	Apparent Color	ND		ND	ACU		(0-20)		
_ MBLK	Apparent Color			<3	ACU		(0 20)		
QC Ref# 569432 - Tota	I Kjeldahl Nitrogen by EPA 351.2				Α	nalysis Da	ate: 09/16/20	010	
LCS1	Kjeldahl Nitrogen		4.0	4.03	mg/L	101	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	4.17	mg/L	104	(90-110)	20	3.4
MBLK	Kjeldahl Nitrogen			<0.1	mg/L		(00 110)		0.1
MRL CHK	Kjeldahl Nitrogen		0.2	0.207	mg/L	104	(50-150)		
MS 201009100263	Kjeldahl Nitrogen	0.38		4.19	mg/L	95	(90-110)		
MS2_201009110050	Kjeldahl Nitrogen	0.84		4.78	mg/L	99	(90-110)		
_ MSD_201009100263	Kjeldahl Nitrogen	0.38	4.0	4.16	mg/L	95	(90-110)	20	0.74
 QC Ref# 569667 - ICP I	Metals by EPA 200.7				Α	nalvsis Da	ate: 09/17/20	010	
LCS1	Chromium Total ICAP		1.0	0.961	mg/L	96	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.959	mg/L	96	(85-115)	20	0.21
MBLK	Chromium Total ICAP			<0.01	mg/L		(00 110)	20	0.21
MRL_CHK	Chromium Total ICAP		0.01	0.00953	mg/L	95	(50-150)		

Laboratory QC Report: 343486

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u> Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates ria for MS and Dup are advisory only, pater some actions 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)

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Tronox LLC (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201009140180	Chromium Total ICAP	ND	1.0	0.955	mg/L	95	(70-130)		
MS2_201009150643	Chromium Total ICAP	ND	1.0	0.943	mg/L	94	(70-130)		
MSD_201009140180	Chromium Total ICAP	ND	1.0	0.962	mg/L	96	(70-130)	20	0.73
MSD2_201009150643	Chromium Total ICAP	ND	1.0	0.965	mg/L	96	(70-130)	20	2.4
LCS1	Iron Total ICAP		5.0	4.78	mg/L	96	(85-115)		
LCS2	Iron Total ICAP		5.0	4.81	mg/L	96	(85-115)	20	0.63
MBLK	Iron Total ICAP			<0.02	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0227	mg/L	114	(50-150)		
MS_201009140180	Iron Total ICAP	ND	5.0	4.77	mg/L	96	(70-130)		
MS2_201009150643	Iron Total ICAP	ND	5.0	4.62	mg/L	92	(70-130)		
MSD_201009140180	Iron Total ICAP	ND	5.0	4.81	mg/L	96	(70-130)	20	0.83
MSD2_201009150643	Iron Total ICAP	ND	5.0	4.81	mg/L	96	(70-130)	20	4.1
QC Ref# 569865 - ICP	Metals by EPA 200.7				A	nalysis Da	ate: 09/21/20	10	
LCS1	Chromium Total ICAP		1.0	1.03	mg/L	103	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.02	mg/L	102	(85-115)	20	0.98
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0102	mg/L	102	(50-150)		
MS_201009090345	Chromium Total ICAP	ND	1.0	1.01	mg/L	101	(70-130)		
MS2_201009110102	Chromium Total ICAP	ND	1.0	0.989	mg/L	99	(70-130)		
MSD_201009090345	Chromium Total ICAP	ND	1.0	1.01	mg/L	101	(70-130)	20	0.0
MSD2_201009110102	Chromium Total ICAP	ND	1.0	1.00	mg/L	100	(70-130)	20	1.2
LCS1	Iron Total ICAP		5.0	5.26	mg/L	105	(85-115)		
LCS2	Iron Total ICAP		5.0	5.15	mg/L	103	(85-115)	20	2.1
MBLK	Iron Total ICAP			<0.02	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0203	mg/L	102	(50-150)		
MS_201009090345	Iron Total ICAP	0.13	5.0	5.32	mg/L	104	(70-130)		
MS2_201009110102	Iron Total ICAP	0.06	2 5.0	5.16	mg/L	102	(70-130)		
MSD_201009090345	Iron Total ICAP	0.13	5.0	5.46	mg/L	107	(70-130)	20	2.8
MSD2_201009110102	Iron Total ICAP	0.06	2 5.0	5.14	mg/L	102	(70-130)	20	0.0
QC Ref# 570667 - Tota	I phosphorus as P (T-P) by SI	M4500-PE/EPA 3	865.1		A	nalysis Da	ate: 09/23/20	10	
LCS1	Total phosphorus as P		0.4	0.366	mg/L	92	(90-110)		
LCS2	Total phosphorus as P		0.4	0.373	mg/L	93	(90-110)	20	1.9
MBLK	Total phosphorus as P			<0.02	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0200	mg/L	100	(50-150)		
MS_201009150543	Total phosphorus as P	0.04	8 0.4	0.426	mg/L	95	(90-110)		
MS2_201009150544	Total phosphorus as P	0.04	8 0.4	0.434	mg/L	97	(90-110)		
	. Can pricoprior do do i	0.04	○ 0.¬	0.707	g/L	01	(30-110)		

Laboratory

QC Report: 343486

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u> Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates ria for MS and Dup are advisory unity, bacter control of 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)



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Laboratory QC Report: 343486

Tronox LLC (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201009150543	Total phosphorus as P	0.048	0.4	0.439	mg/L	98	(90-110)	20	3.4

⁽S) Indicates surrogate compound.





1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

November 11, 2010

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

RE: Project: PACE-PA 343486

Pace Project No.: 3036359

Dear Ms. Contreras:

Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 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,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com Project Manager

Enclosures

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



ace Analytica

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(724)850-5600

CERTIFICATIONS

Project: PACE-PA 343486

Pace Project No.: 3036359

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

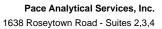
South Dakota Certification

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



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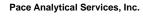
SAMPLE SUMMARY

Project: PACE-PA 343486

Pace Project No.: 3036359

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3036359001	201009140323	Water	09/13/10 08:30	10/28/10 10:00







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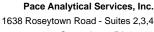
SAMPLE ANALYTE COUNT

Project: PACE-PA 343486

Pace Project No.: 3036359

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory	
3036359001	201009140323	SM 7110C	SJH	1	PASI-PA	





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PROJECT NARRATIVE

Project: PACE-PA 343486

Pace Project No.: 3036359

Method: SM 7110C

Description: 7110C Gross Alpha **Client:** MWH Laboratories **Date:** November 11, 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.







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ANALYTICAL RESULTS

Project: PACE-PA 343486

Pace Project No.: 3036359

Sample: 201009140323 Lab ID: 3036359001 Collected: 09/13/10 08:30 Received: 10/28/10 10:00 Matrix: Water

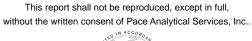
PWS: Site ID: Sample Type:

Parameters Method Act ± Unc (MDC) Units Analyzed CAS No. Qual

Gross Alpha SM 7110C **16.0 ± 3.83 (2.71)** pCi/L 11/10/10 19:56 12587-46-1

Date: 11/11/2010 02:46 PM **REPORT OF LABORATORY ANALYSIS**

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1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

QUALITY CONTROL DATA

Project: PACE-PA 343486

Pace Project No.: 3036359

Date: 11/11/2010 02:46 PM

QC Batch: RADC/6692 Analysis Method: SM 7110C

QC Batch Method: SM 7110C Analysis Description: 7110C Gross Alpha

Associated Lab Samples: 3036359001

METHOD BLANK: 237127 Matrix: Water

Associated Lab Samples: 3036359001

Parameter Act ± Unc (MDC) Units Analyzed Qualifiers

Gross Alpha -0.350 ± 0.623 (1.53) pCi/L 11/10/10 19:41

REPORT OF LABORATORY ANALYSIS

Page 7 of 8





1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601

(724)850-5600

QUALIFIERS

Project: PACE-PA 343486

Pace Project No.: 3036359

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

Date: 11/11/2010 02:46 PM

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



*nelac

QA Assessment Spreadsheet PACE Analytical Services Waltz Mill Laboratory

Face Analytical"

Quality Control Sample Performance Assessment

Test: Gross Alpha 11/11/2010 S Analyst: Date:

Worklist: Matrix (DW, W, F, Solid):

M/B Counting Uncertainty.

MB concentration: MB MDC

Method Blank Assessment

MB Numerical Performance Indicator. MB Status vs Numerical Indicator. MB Status vs. MDC:

Sample Matrix Spike Control Assessment 6692 DW

10/4/2010 3035917003 3035917003MS

Sample Collection Date:

1000			
Š		Sample I.D.	3035917003
		Sample MS I.D.	3035917003MS
		Sample MSD I.D.	
		Spike LD.:	08-026
-0.350		MS/MSD Decay Corrected Spike Concentration (pCi/mL):	30.198
0.619		Spike Volume Used in MS (mL):	0.20
1.527		Spike Volume Used in MSD (mL):	
7	, R. P. T.	MS Aliquot (L, g, F):	0.200
N/A	g of	MS Target Conc.(pCt/L, g, F):	30.198
(Pass	1	MSD Aliquot (L. g. F):	
		MSD Target Conc. (pCifl., g. F):	
		Spike uncertainty (calculated):	1.894
SOT	rsco	Sample Result:	5.174
11/10/2010	11/10/2010	Sample Result Counting Uncertainty (pCi/L, g, F):	1.452
920-80	08-026	Sample Matrix Spike Result:	120.467
30.198	30.198	Matrix Spike Result Counting Uncertainty (pCifl., g. F):	10.668
0.10	0.10	Sample Matrix Spike Duplicate Result:	
0.200	0.200	Matrix Spike Duplicate Result Counting Uncertainty (pCifl., g, F):	
15.099	15.099	MS Numerical Performance Indicator:	15.257
0.947	0.947	MSD Numerical Performance Indicator:	
17.541	17.305	MS Percent Recovery:	381.79%
1.890	1.893	MSD Percent Recovery:	
236	2.4	MS Status vs Nurverical Indicator:	MA
116.17%	114.61%	MSD Status vs Numerical Indicator	<i>'</i>
N/A	N/A	MS Status vs Repovery:	MS High****
Pass	Pass	MSD Status vs-Recovery:	

Count Date:

Laboratory Control Sample Assessment

Spike I.D.:

Spike Concentration (pCi/mL):

Volume Used (mf.):

Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F): Uncertainty (Calculated):

Result (pC/IL, g, F): LCS/LCSD Counting Uncertainty (pC/IL, g, F):

Numerical Performance Indicator:

27/43

Status vs Numerical Indicator Status vs Recoverg:

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D.	Sample MS LD.	Sample MSD LD.	Sample Matrix Spike Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result Counting Uncertainty (pCitt., g, F):	Duplicate Numerical Performance Indicator:	MS/ MSD Duplicate RPD:	MS/ MSD Duplicate Status vs Numerical Indicator.	MS/ MSD Duplicate Status vs RPD:	
Matrix Spike/N			*****		W.		Matrix Spike	-				
	SOT	COST	17.541	1.890	17,305	1.893	Q.	0.173	1.35%	YAN (Pass	
Duplicate Sample Assessment	Sample 1.D.:	Duplicate Sample I.D.	Sample Result (pCi/L, g, F):	Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Duplicate Result (pCi/L, g, F):	Sample Duplicate Result Counting Uncertainty (pCiVL, g, F):	Are sample and/or duplicate results below MDC?	Duplicate Numerical Performance Indicator;	Duplicate RPD:	Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:	

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

Comments:

profit 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.

Assessment 11/11/20102:07 PM



Ph (626) 386-1100 Fax (626) 386-1095

1638 Roseytown Road, Suite 2 PACE Analytical Services, Inc. Ship To

Greensburg, PA 15601

10/27/2010

() () ()

Submittel Form & Purchase Order 99-06555

*REPORTING REQUIRMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbars!

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

MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016 Reports: Jackie Contreras Sub-Contracting Administrator EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com Accounts Payable PO BOX 6610, Broomfield, CO 80021 Phone (626) 386-1165 Fax (626) 386-1122 Invoices to: MWH LABORATORIES

Samples from the State of:NEVADA + matrix.

Certification # & Exp Date for requested tests

Provide in each Report the Specified State

10 day tat

Sub PO# 98990-66 Report Due: 11112010 MWH Project # 343486

Fax 724-850-5601

724-850-5600

Client Sample ID for reference only 201009140323 Effluent

003400 28/43

SM 7110C

SH

Gross Alpha by Co-precipitation (Sub)

Analysis Requested

Date & Time Matrix 09/13/10 0830 Water Sample

PWS Systemcode

DIMASID

tefinguished by:

(eceived by:

Sample Control Date 10 12 4 Time 30 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN CELSIUS

Date 10/2010 Time 1000 An Acknowledgement of Receipt is requested to attr. Christine Lewis

Med

Sample Condition Upon Receipt



Face Analytical Client Name	: <u> </u>	<u> </u>	Project#_	3036389
Courier: Fed Ex UPS USPS Clier Tracking #: 1244 2872 3733	3 <i>f</i>	•	. / Proi	nal Due Date: Name:
Custody Seal on Cooler/Box Present:	no Seals	intact: yes	no L	adaga saaba aa asta ta adada ah
Packing Material: Bubble Wrap Bubble Thermometer Used 3 5	Bags None Type of Ice: Wet	Other Blue (None		
Alln		is Frozen: Yes No	Date and Init	ooling process has begun als of/person examining
Cooler Temperature IVITT Temp should be above freezing to 6°C	Diological rissue	Comments:	contents:_	MIL 10/28/10.
Chain of Custody Present:	Yes ONO ONA	1.		
Chain of Custody Filled Out:	Yes No NA	2.	**************************************	
Chain of Custody Relinquished:	Yes ONO ON/A	3.		
Sampler Name & Signature on COC:	☐Yes DNO ☐N/A	4.		
Samples Arrived within Hold Time:	Yes ONO ONIA	5.		
Short Hold Time Analysis (<72hr):	□Yes ŪNo □N/A	6.		
Rush Turn Around Time Requested:	Types ONO ONIA	7.		
Sufficient Volume:	TYPES ONO ONIA	8.		
Correct Containers Used:	DYes ONO ONA	9.		
-Pace Containers Used:	□Yes ANO □N/A			
Containers Intact:	Yes □No □N/A	10.		
Filtered volume received for Dissolved tests	□Yes □No ÚNA	11.		
Sample Labels match COC:	Yes ONO ONA	12.		
-Includes date/time/ID/Analysis Matrix:	<u>'NT</u>			
All containers needing preservation have been checked.	Yes Ono Ona	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	Qyes □no □n/a	***************************************	ALL	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	initial when completed	Lot # of added preservative	
Samples checked for dechlorination:	□Yes □No □N/A	14.		
Headspace in VOA Vials (>6mm):	□Yes □No \QN/A	15.		
Trip Blank Present:	□Yes □No □N/A	16.		
Trip Blank Custody Seals Present	Dyes DNo DNA			
Pace Trip Blank Lot # (if purchased):	!			
Client Notification/ Resolution:			Field Data Requin	ed? Y / N
Person Contacted:	Date/	Time:		
Comments/ Resolution:				
				fen China
Project Manager Review:		lle	Date:	10/38/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a 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)





1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

October 07, 2010

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

RE: Project: PACE-PA 343486

Pace Project No.: 3033998

Dear Ms. Contreras:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 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,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com Project Manager

Enclosures

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



ace Analytica

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CERTIFICATIONS

Project: PACE-PA 343486

Pace Project No.: 3033998

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

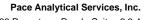
Tennessee Certification #: TN2867

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







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SAMPLE SUMMARY

Project: PACE-PA 343486

Pace Project No.: 3033998

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3033998001	201009140323	Water	09/13/10 08:30	09/16/10 09:50







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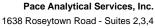
SAMPLE ANALYTE COUNT

Project: PACE-PA 343486

Pace Project No.: 3033998

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory	
3033998001	201009140323	EPA 903.1	RMD	1	PASI-PA	_
		EPA 904.0	DJL	1	PASI-PA	





Greensburg, PA 15601 (724)850-5600



PROJECT NARRATIVE

Project: PACE-PA 343486

Pace Project No.: 3033998

Method: EPA 903.1

Description: 903.1 Radium 226 **Client:** MWH Laboratories **Date:** October 07, 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:

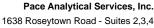
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

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

Additional Comments:





Greensburg, PA 15601 (724)850-5600



PROJECT NARRATIVE

Project: PACE-PA 343486

Pace Project No.: 3033998

Method: EPA 904.0

Description: 904.0 Radium 228 **Client:** MWH Laboratories **Date:** October 07, 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.







1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

ANALYTICAL RESULTS

Project: PACE-PA 343486

Pace Project No.: 3033998

Sample: 201009140323 Lab ID: 3033998001 Collected: 09/13/10 08:30 Received: 09/16/10 09:50 Matrix: Water

PWS: Site ID: Sample Type:

1 443.	Site ib.	Sample Type.				
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	-0.146 ± 0.353 (0.879)	pCi/L	09/27/10 12:39	13982-63-3	
Radium-228	EPA 904.0	$0.609 \pm 0.424 (0.808)$	pCi/L	10/06/10 10:18	15262-20-1	

Date: 10/07/2010 04:31 PM

REPORT OF LABORATORY ANALYSIS This report shall not be reproduced, except in full,

Page 7 of 10







1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601

(724)850-5600

QUALITY CONTROL DATA

Project: PACE-PA 343486

Pace Project No.: 3033998

QC Batch: RADC/6187 Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226

Associated Lab Samples: 3033998001

METHOD BLANK: 216493 Matrix: Water

Associated Lab Samples: 3033998001

Parameter Act ± Unc (MDC) Units Analyzed Qualifiers

Radium-226 0.000 ± 0.293 (0.694) pCi/L $09/27/10 \ 10:31$

Date: 10/07/2010 04:31 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 10





1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

QUALITY CONTROL DATA

Project: PACE-PA 343486

Pace Project No.: 3033998

QC Batch: RADC/6190 Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228

Associated Lab Samples: 3033998001

METHOD BLANK: 216496 Matrix: Water

Associated Lab Samples: 3033998001

Parameter Act ± Unc (MDC) Units Analyzed Qualifiers

Radium-228 $0.309 \pm 0.388 \quad (0.822)$ pCi/L $10/06/10 \ 10:17$

Date: 10/07/2010 04:31 PM

REPORT OF LABORATORY ANALYSIS

Page 9 of 10





1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601

(724)850-5600

QUALIFIERS

Project: PACE-PA 343486

Pace Project No.: 3033998

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

Date: 10/07/2010 04:31 PM

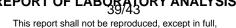
Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

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

LABORATORIES

Pace Analytical Services - Greensburg PASI-PA





Method Blank Assessment

Quality Control Sample Performance Assessment

Ra-226 RMD

Test; Analyst:

Analyst Must Manually Enter All Fields Highlighted in Yellow.

3033997001MS 3033997001 9/15/2010

09-036 59.752 0.20

0.500

0.574 0.425 0.357 19.356 2,117

79.20%

Pass ۷/۷

40/43

MS/ MSD Duplicate Status vs Numerical Indicator: MS/ MSD Duplicate Status vs RPD:

-4.384

			CZ																						1	J	′Ι
Sample Matrix Spike Control Assessment	Sample Collection Date:	Sample I.D.	Sample MS I.D.	Sample MSD I.D.	Spike I.D.:	MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MS (mL):	Spike Volume Used in MSD (mL)	MS Aliquot (L, g, F):	MS Target Conc.(pCi/L, g, F):	MSD Aliquot (L, g, F):	MSD Target Conc. (pC//L, g, F):	Spike uncertainty (calculated):	Sample Result:	Sample Result Counting Uncertainty (pCi/L, g, F):	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):	MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:	MS Percent Recovery:	MSD Percent Recovery:	MS Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:	MS Status vs Recovery.	MSD Status vs Recovery:
													>	LCSD6187	9/27/2010	980-60	59.751	0.10	0.500	11.950	0.287	9.538	1.648	-2.83	79.82%	N/A	Pass
9/20/2010	6187	ΜO			216493	0.000	0.293	0.694	00.00	AVA.	(Pass		LCSD (Y or N)?	LCS6187	9/27/2010	980-60	59.751	0.10	0.500	11.950	0.287	12.399	1.691	0.51	103.76%	MA	⟨ Pass ⟩
Date:	Worklist:	Matrix:		ssment	MB Sample ID	MB concentration:	M/B Counting Uncertainty:	MB MDC:	MB Numerical Performance Indicator:	MB Status vs Numerical Indicator;	MB Status vs. MDC:		Sample Assessment		Count Date:	Spike I.D.:	Spike Concentration (pCVmL):	Volume Used (mL):	Aliquot Volume (L, g, F):	Target Conc. (pCi/L, g, F):	Uncertainty (Calculated):	Result (pCi/L, g, F):	LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Numerical Performance Indicator:	Percent Recovery:	Status vs Numerical Indicator:	Status vs Recovery:

Laboratory Control Sample

	and the state of t		
Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	LCS6187	Enter Duplicate	Sample I.D.
Duplicate Sample I.D.	LCSD6187	sample IDs if	Sample MS I.D.
Sample Result (pCi/L, g, F):	12.399	other than	Sample MSD I.D.
Sample Result Counting Uncertainty (pCi/L, g, F):	1,691	LCS/LCSD in the	Sample Matrix Spike Result:
Sample Duplicate Result (pC/i/L, g, F):	9.538	space below.	Matrix Spike Result Counting Uncertainty (pCi/L, g, F);
Sample Duplicate Result Counting Uncertainty (pClif., g, F):	1.648		Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below MDC?	0 <u>N</u>		Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	2.375		Duplicate Numerical Performance Indicator:
Duplicate RPD:	26.08%		MS/ MSD Duplicate RPD:
Duplicate Status vs Numerical Indicator:	N/A		MS/ MSD Duplicate Status vs Numerical Indicator.
Duplicate Status vs RPD:	(Pass)		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:



Face Analytical was peculiar com

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Ra-228 DJL 9/15/2010 6190 DW

Test: Analyst: Date: Worklist: Matrix: MB MDC:

MB Numerical Performance Indicator: MB Status vs Numerical Indicator: MB Status vs. MDC:

MB Sample ID MB concentration: M/B Counting Uncertainty.

Method Blank Assessment

	Sample Matrix Spike Control Assessment	
	Sample Collection Date:	9/16/2010
	Sample I.D.	3034000001
	Sample MS I.D.	3034000001MS
	Sample MSD I.D.	
	Spike I.D.:	09-037
	MS/MSD Decay Corrected Spike Concentration (pCi/mL):	79.655
	Spike Volume Used in MS (mL):	0.20
	Spike Volume Used in MSD (mL):	
	MS Aliquot (L, g, F):	0.800
	MS Target Conc.(pCi/L, g, F):	19.914
	MSD Aliquot (L, g, F):	
	MSD Target Conc. (pC//L, g, F):	
	Spike uncertainty (calculated):	0.617
06	Sample Result:	1.040
0	Sample Result Counting Uncertainty (pC/Lt, g, F):	0.431
	Sample Matrix Spike Result:	20.515
HACOLO .	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.262
*****	Sample Matrix Spike Duplicate Result.	
	Matrix Spike Duplicate Result Counting Uncertainty (pC/NL, g, F):	
	MS Numerical Performance Indicator:	-0.585
	MSD Numerical Performance Indicator:	
	MS Percent Recovery:	97.80%
	MSD Percent Recovery:	
	MS Status vs Numerical Indicator:	N/A
,0	MSD Status vs Numerical Indicator:	<u> </u>
	MS Status vs Recovery: (Pass
/	MSD Status vs Recovery:	$\bigg)$
	The state of the s	

		١	-	
	Pass		Pass	Status vs Recovery: (
	N/A		NA	Status vs Numerical Indicator:
	92.35%		100.08%	Percent Recovery:
~	-1.61		0.02	Numerical Performance Indicator:
	0.871		0.887	LCS/LCSD Counting Uncertainty (pCt/L, g, F):
	9.135		9.899	Result (pCi/L, g, F):
	0.307		0.307	Uncertainty (Calculated):
	9.891		9,891	Target Conc. (pCl/L, g, F):
Σ	0.800	*****	0.800	Aliquot Volume (L, g, F):
	0.10		0.10	Volume Used (mL):
	79.131		79.132	Spike Concentration (pCi/mL):
	09-037		09-037	Spike I.D.:
	10/6/2010		10/6/2010	Count Date:
	LCSD6190		LCS6190	
	>		LCSD (Y or N)?	aboratory Control Sample Assessment

Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	LCS6190 E	Enter Duplicate	Sample I.D.
Duplicate Sample I.D.	LCSD6190	sample IDs if	Sample MS I.D.
Sample Result (pCi/L, g, F):	9.899	other than	Sample MSD I.D.
Sample Result Counting Uncertainty (pCi/L, g, F):	0.887	CS/LCSD in the	Sample Matrix Spike Result.
Sample Duplicate Result (pCi/L, g, F):	9.135	space below.	Matrix Spike Result Counting Uncertainty (pCVL, g, F):
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.871		Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below MDC?	Q.		Matrix Spike Duplicate Result Counting Uncertainty (pCVL, g, F):
Duplicate Numerical Performance Indicator:	1.204		Duplicate Numerical Performance Indicator,
Duplicate RPD:	~8.03%		MS/ MSD Duplicate RPD:
Duplicate Status vs Numerical Indicator:	N/A		MS/ MSD Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD: (Sass		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:

0/4/10



750 Royal Oaks Drive Suite 100 Monrovia, CA 91016-3629 Ph (626) 386-1100 Fax (626) 386-1095 A Division of MWH Americas, Inc.

1638 Roseytown Road, Suite 2 PACE Analytical Services, Inc. Ship To

Greensburg, PA 15601

9/15/2010

Date

Submittal Form & Purchase Order 99-06222

*REPORTING REQUIRMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers! Report & Invoice must have the MWH Project Number 343486 Sub PO# 99-06222 and Job # 1000014 303390 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

MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016 Reports: Jackie Contreras Sub-Contracting Administrator EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com Accounts Payable PO BOX 6610, Broomfield, CO 80021 Phone (626) 386-1165 Fax (626) 386-1122 Invoices to: MWH LABORATORIES

Provide in each Report the Specified State Certification # & Exp Date for requested tests: + matrix.

Samples from the State of NEVADA

			Analysis Requested	Radium 226 (Sub)	Radium 228 (Sub)
	#Od qnS	99-06222	Client Sample ID for reference only Analysis Requested	ent 🖍	ent /vC
Fax 724-850-5601	Report Due:	10/07/2010	Settleton (n. 18 Cife	201009140323 Effluent >	201009140323 Effluent
724-850-5600	MWH Project#	343486	JLS	EPA 903.1 10 R226EDD	EPA 904.0 TOR228EDD

PWSID

PWS Systemcode

Date & Time Matrix 09/13/10 0830 Water 09/13/10 0830 Water

Sample

Relinquished by:

Received by:

Sample Control Date \$1115

Time () MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 8 OR LESS THAN CELSIUS

Time 114 SOAn Acknowledgement of Receipt is requested to attn. Christine Lewis Date // Kulto

Rhe

San	nple Condition	Upon Receipt		N
Pace Analytical Client Name	Mi	NH	Project #	3033998
Courier: Ted Ex UPS USPS Clien Tracking #: H394 2871 8873	L 2	Pace Other	Optional Proj. Due Proj. Nam	
Custody Seal on Cooler/Box Present: yes	no Seals	intact: 🗌 yes	N no	
Packing Material: Bubble Wrap Bubble	Bags 🗌 None	Other		
Thermometer Used 3 5	Type of ice: Wet	Blue None	Samples on ice, coolin	g process has begun
Cooler Temperature NIH Temp should be above freezing to 6°C	Biological Tissue	is Frozen: Yes No Comments:		of person examining
Chain of Custody Present:	Yes □No □N/A	1.	A Committee of the Comm	
Chain of Custody Filled Out:	Yes ONO ONA	2.		
Chain of Custody Relinquished:	Yes Ono On/A	3.		
Sampler Name & Signature on COC:	□Yes No □N/A	4.		
Samples Arrived within Hold Time:	Mes Ono On/A	5.		
Short Hold Time Analysis (<72hr):	□Yes No □N/A	6.		
Rush Turn Around Time Requested:	□Yes DNO □N/A	7.		
Sufficient Volume:	Dyes ONO ON/A	8.	·	
Correct Containers Used:	Yes ONO ONA	9.		
-Pace Containers Used:	□Yes No □N/A		,	
Containers Intact:	Yes ONO ON/A	10.		
Filtered volume received for Dissolved tests	Yes ONO YONA	11.		
Sample Labels match COC:	Myes □No □N/A	12.		
-Includes date/time/ID/Analysis Matrix:	WT			
All containers needing preservation have been checked.	Yes DNo DN/A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	Yes □No □N/A		PHAZ	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes Buo	Initial when completed Ale	Lot # of added preservative	
Samples checked for dechlorination:	□Yes □No TIN/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	□Yes □No □NA			e de la companya de l
Pace Trip Blank Lot # (if purchased):	m			
Client Notification/ Resolution:	Wasan and Art Community of the community		Field Data Required?	Y / N
Person Contacted:	Date/	Time:		
Comments/ Resolution:		, Acceptation	The state of the s	OXAMBARANAN MARIA MA

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a 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)

Project Manager Review:

Date: