



# MWH Laboratories

A Division of MWH Americas, Inc.

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

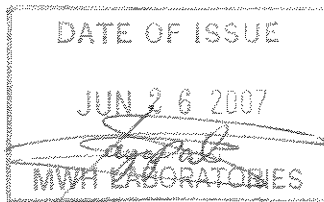
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton  
Project Manager



Report#: 206014  
Project: CL04  
PO#: Susan Crowley

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 14 page[s].



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

200014

M/LABS USE ONLY:

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

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

SAMPLES CHECKED/LOGGED IN BY: FC

SAMPLE TEMP, RECEIPT AT LAB: SI

BLUE ICE: FROZEN  PARTIALLY FROZEN  THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

Weekly Permit Compliance Samples - SO #6532 & #6534

KERRMCGEE-MP

Tronox LLC - Henderson Plant  
PO Box 55  
Henderson, NV 89009

Sampler Signature: Michele Brown  
Susan Crowley (702) 651-2234

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

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CLO4	RAD/CWB (2 Bils)	NH3, NH3-DIST	PH, NO2-N, NO3-N, NHOR, TSS	CLO3	FE, CR	T-P, TKN	Color	RA228EDD/RA226EDD (2 Bils)	CR	NO2-N, NO3, N-NOR	CMI	SAMPLER COMMENTS	
6:30 AM	5/29/2007		EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X			X		Revised SO #6534
7:00	5/29/2007		INFLUENT	RSW	X		X	X	X	X	X	X	X	X	X			X		Revised SO #6532
																				(2) log 05/30/07

\* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated Finished Water

FW = Other Finished Water

RGW = Raw Ground Water

RSW = Raw Surface Water

Reported by Weight:

SO = Soil

SL = Sludge

CWW = Chlorinated Waste Water

WW = Other Waste Water

SW = Storm Water

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY: Michele Brown

RECEIVED BY: Michele Brown

Veolia Water NA for Tronox LLC - Henderson Plant

5/29/2007 12:00 PM

RELINQUISHED BY:

RECEIVED BY:

Flores 4/6/07 part 5:30 100

STAMPED



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

**Bottle Order for Ironox LLC- Henderson Standing**

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

Client Code KERRMCGEE-MP

Project Code CLO4

W Weekly

PO# / Job#

Blanket PO

SO# 36353 6532 RS

**Sampler: Please Return this Paper with your samples**

Created by HV

Order Date 05/22/07

Date Needed by Client

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

Send Report to

Ironox LLC Henderson Plant  
P.O. Box 55  
Henderson, NV 89009

Billing Address

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

ATTN: Susan Crowley  
PHONE: 702-651-2234

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

Quote#

HV

# of Samples Tests

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

UN#

Important Comments

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
1	CLO4	1 125ml poly /no preservative	UN 2796	This is a weekly sample of
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	3077	<b>INFLEUENT</b> This cooler can be shipped out along with the EFFLUENT cooler as one order.
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	<b>PLEASE SHIP EXTRA</b>
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	<b>BLUE ICE DUE TO</b>
1	COLOR	1 500ml amber glass / no preservative		<b>WARM WEATHER- also</b>
1	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative		<b>use a LARGE COOLER</b>
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	<b>Login - use Profile</b>
1	CRVI-LOW	1x 125 ml poly/ 1 ml NH4SO4/NH4OH buffer	3077	<b>#KERRINF+CRVI-LOW for this site</b>
1	SYRINGE/FILTER/EXTRA BOTTLE	1 60 ml plastic syringe, 1 0.45 um syringe filter, 1 x 125 ml poly no pres		<b>note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC</b>

Test code for CRVI changed to IC  
1-6-04; Moved CBOD to separate order as of 10/21/04; O updated  
12-8-05 to delete some tests and change frequency on others.  
Changed CR-MS to CR and updated profile for login  
added CLO3 back to weekly 2-7-08  
2/10/06- CRVI-LOW separate order deleted NO3RFA as of 7-5-06;  
CRVI-LOW added back to bottle order 4/11/07

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

SHIPPER'S NUMBER: 142619

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

**From: TRONOX LLC**

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

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

CARRIER <b>Federal Express</b>		Date <b>05/29/07</b>	FROM NO. STATION: STATE <b>Henderson, NV 89015</b>	
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400			Authorization <b>S. CROWLEY</b>	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect			FULL NAME OF SHIPPER TRONOX LLC	
N/AR			CUSTOMER PO OR REQ'N NO.	
SHIPPED FROM <b>Henderson, NV</b>			CODE NO. WCN IS <b>1321.10400</b> If it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.	
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY	
	<b>Weekly Discreets—Influent and Effluent Grab Samples Not Regulated</b>  <b>1 ice chest @ 20 lbs 1 ice chest @ 34 lbs</b>		<b>2 COOLERS</b>	
			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. <b>TRONOX LLC</b>	
			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.	
TRUCK SHIPMENTS			FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC – DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.	
PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT	
		<b>0</b>		
<b>2</b>	TOTAL GROSS WEIGHT <b>54</b>	TOTAL TARE WEIGHT <b>0</b>	<b>54</b>	
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding        per				"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"
THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.				
TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859		PER <b>Judi Durkin</b>	AGENT	PER

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



Ship Date: 29MAY07  
ActWgt: 34 LB  
System#: 2274147/INET2600  
Account#: S \*\*\*\*\*

Delivery Address Bar Code



Ref # MSO #142619 - 34.0 lbs.  
Invoice #  
PO #  
Dept #

SHIP TO: (626)568-6400 **BILL SENDER**  
**ATTN: SAMPLE RECEIVING**  
**MONTGOMERY WATSON LABS**  
**750 ROYAL OAKS DR # 100**  
  
**MONROVIA, CA 910163629**

**PRIORITY OVERNIGHT**

**WED**

Deliver By:  
30MAY07

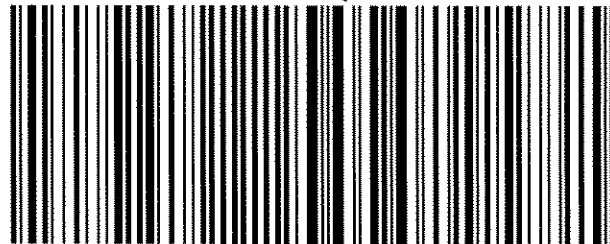
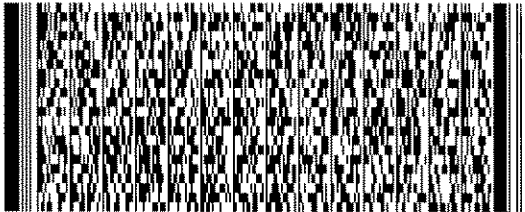
TRK# 7996 4796 3822

FCRM  
0201

**BUR A2**

91016 -CA-US

**QZ WHPA**



Shipping Label: Your shipment is complete

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

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

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

**MWH Laboratories**  
 750 Royal Oaks Drive, Monrovia, CA 91016  
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Tronox LLC - Henderson  
 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

Customer Code: KERRMCGEE-MP  
 PO#: Susan Crowley PO  
 Group#: 206014  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **05/30/07**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2705300073	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CLO4 COLOR CR CRVI-LOW FE N-INOR NH3 NH3-DIST NO2-N NO3 P PH T T-P TKN	Water	29-may-2007 06:30:00
2705300074	INFLUENT	CLO3 CLO4 COLOR CR NH3 NH3-DIST NO2-N NO3 NO3RFA P T T-P TKN	Water	29-may-2007 07:00:00

Test Acronym Description

Test Acronym	Description
@R226EDD	Radium 226 (Sub)
@R228EDD	Radium 228 (Sub)
@RADCWB	Gross Alpha Radiation
CLO3	Chlorate by IC
CLO4	Perchlorate
COLOR	Apparent Color
CR	Chromium, Total, ICAP
CRVI-LOW	Hexavalent chromium(Dissolved)
FE	Iron, Total, ICAP
N-INOR	Total Inorganic Nitrogen-Calc
NH3	Ammonia Nitrogen
NH3-DIST	NPDES Ammonia Distillation
NO2-N	Nitrite, Nitrogen by IC
NO3	Nitrate as Nitrogen by IC
NO3RFA	Nitrate + Nitrite as N by RFA
P	Metals sample pH
PH	PH (H3=past HT, not compliant)
T	Metals Turbidity
T-P	Total phosphorus as P
TKN	Kjeldahl Nitrogen

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Tronox LLC - Henderson  
PO Box 55  
Henderson, NV 89009  
Attn: Susan Crowley  
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Customer Code: KERRMCGEE-MP  
PO#: Susan Crowley PO  
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Project#: CLO4  
Proj Mgr: Andrew Eaton  
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---

Test Acronym Description

---

Test Acronym	Description
TSS	Total Suspended Solids (TSS)

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Report  
Comments  
#206014

### Client Specific Comments

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Client Signature: \_\_\_\_\_

### Group Comments

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

(QC Ref#: 2705300074)

Test: Kjeldahl Nitrogen (ML/EPA 351.2)

SAMPLE DIGESTED WITH 5X AND 1PPM SPIKED, AND RECOVERY WAS 81%





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Laboratory  
 Hits Report  
 #206014

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

Samples Received  
 30-may-2007 12:29:11

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2705300073</b>	<b>EFFLUENT</b>				
06/12/07		Radium 226	<0.888	3	pCi/l	0.89
06/12/07		Radium 226, Minimal Detectable	0.888		pCi/l	
06/12/07		Radium 226, Two Sigma Error	0.323		pCi/l	
06/11/07		Radium 228	0.870	5	pCi/l	0.57
06/11/07		Radium 228, Minimum Detectable	0.573		pCi/l	
06/11/07		Radium 228, Two Sigma Error	0.327		pCi/l	
06/05/07		Alpha, Gross	12	15	pCi/l	11
06/05/07		Alpha, Min Detectable Activity	10.6		pCi/l	
06/05/07		Alpha, Two Sigma Error	10		pCi/l	
06/05/07		Gross Alpha + adjusted error	20.4		pCi/l	
06/04/07		Ammonia Nitrogen	0.73		mg/l	0.050
05/30/07		Apparent Color	15	15	ACU	3.0
06/05/07		Iron, Total, ICAP	2.7	0.3	mg/l	0.040
06/08/07		Kjeldahl Nitrogen	3.9		mg/l	0.20
06/01/07		Metals digestion performed.	Y		Yes/No	
05/30/07		PH (H3=past HT, not compliant)	6.6	6.5-8.5	Units	0.010
06/07/07		Total Inorganic Nitrogen-Calc	0.73		mg/l	0.20
06/05/07		Total Suspended Solids (TSS)	25		mg/l	10
06/01/07		Total phosphorus as P	1.9		mg/l	0.020
	<b>2705300074</b>	<b>INFLUENT</b>				
06/04/07		Ammonia Nitrogen	5.1		mg/l	0.50
05/30/07		Apparent Color	10	15	ACU	3.0
05/31/07		Chlorate by IC	479000		ug/l	50000
06/05/07		Chromium, Total, ICAP	0.072		mg/l	0.020
06/04/07		Hexavalent chromium(Dissolved)	43		ug/l	0.10
06/08/07		Kjeldahl Nitrogen	4.5		mg/l	1.0
06/15/07		Nitrate + Nitrite as N by RFA	14.8	10	mg/l	0.50
05/30/07		Nitrate as Nitrogen by IC	16	10	mg/l	0.62

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Hits Report  
#206014

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

Samples Received  
30-may-2007 12:29:11

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2705300074	INFLUENT				
05/30/07	Perchlorate		275000		ug/l	20000
06/07/07	Total Inorganic Nitrogen-Calc		21		mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Data Report  
#206014

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

Samples Received  
05/30/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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## EFFLUENT (2705300073)      Sampled on 05/29/07 06:30

05/31/07 00:00	370170	( ML/EPA 300.0 )	Chlorate by IC	ND	ug/l	50	5
05/30/07 00:00	369724	( EPA 314 )	Perchlorate	ND	ug/l	10	5
05/30/07 00:00	369539	( ML/SM2120B )	Apparent Color	15	ACU	3.0	1
06/05/07 11:10	370440	( ML/EPA 200.7 )	Chromium, Total, ICAP	ND	mg/l	0.020	2
06/04/07 11:45	370259	( EPA 218.6 )	Hexavalent chromium(Dissolved)	ND	ug/l	0.10	1
06/01/07 12:04		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
06/05/07 11:10	370446	( ML/EPA 200.7 )	Iron, Total, ICAP	2.7	mg/l	0.040	2
06/07/07 12:12	370883	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	0.73	mg/l	0.20	50
06/04/07 00:00	370408	( ML/EPA 350.1 )	Ammonia Nitrogen	0.73	mg/l	0.050	1
05/30/07 13:39	369741	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
05/30/07 13:39	369743	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
05/30/07 00:00	369574	( SM4500-HB )	PH (H3=past HT, not compliant)	6.6	Units	0.010	1
06/01/07 00:00	370059	( S4500PE/ 365.1 )	Total phosphorus as P	1.9	mg/l	0.020	1
06/08/07 00:00	371173	( ML/EPA 351.2 )	Kjeldahl Nitrogen	3.9	mg/l	0.20	1
06/05/07 00:00	370761	( SM 2540D )	Total Suspended Solids (TSS)	25	mg/l	10	1

### Gross Alpha Radiation

06/05/07 00:00	370950	( ML/EPA 900.0 )	Alpha, Gross	12	pCi/l	11	1
06/05/07 00:00	370950	( ML/EPA 900.0 )	Gross Alpha + adjusted error	20.4	pCi/l	0	1
06/05/07 00:00	370950	( ML/EPA 900.0 )	Alpha, Two Sigma Error	10	pCi/l	0	1
06/05/07 00:00	370950	( ML/EPA 900.0 )	Alpha, Min Detectable Activity	10.6	pCi/l	0	1

### Radium 226 (Sub)

06/12/07 00:00		( EPA 903.1 )	Radium 226	<0.888	pCi/l	0.89	1
06/12/07 00:00		( EPA 903.1 )	Radium 226, Two Sigma Error	0.323	pCi/l	0	1
06/12/07 00:00		( EPA 903.1 )	Radium 226, Minimal Detectable	0.888	pCi/l	0	1

### Radium 228 (Sub)

06/11/07 00:00		( EPA 904.0 )	Radium 228	0.870	pCi/l	0.57	1
06/11/07 00:00		( EPA 904.0 )	Radium 228, Two Sigma Error	0.327	pCi/l	0	1
06/11/07 00:00		( EPA 904.0 )	Radium 228, Minimum Detectable	0.573	pCi/l	0	1



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Laboratory  
Data Report  
#206014

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>INFLUENT (2705300074)</b>				<b>Sampled on 05/29/07 07:00</b>				
	05/31/07 00:00	370170	( ML/EPA 300.0 )	Chlorate by IC	479000	ug/l	50000	5000
	05/30/07 00:00	369724	( EPA 314 )	Perchlorate	275000	ug/l	20000	5000
	05/30/07 00:00	369539	( ML/SM2120B )	Apparent Color	10	ACU	3.0	1
	06/05/07 08:01	370439	( ML/EPA 200.7 )	Chromium, Total, ICAP	0.072	mg/l	0.020	2
	06/04/07 12:09	370259	( EPA 218.6 )	Hexavalent chromium(Dissolved)	43	ug/l	0.10	1
	06/07/07 12:12	370883	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	21	mg/l	10	50
	06/04/07 00:00	370408	( ML/EPA 350.1 )	Ammonia Nitrogen	5.1	mg/l	0.50	10
	05/30/07 13:26	369741	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	05/30/07 13:26	369743	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	16	mg/l	0.62	50
	06/15/07 00:00	372124	( ML/EPA 353.2 )	Nitrate + Nitrite as N by RFA	14.8	mg/l	0.50	10
	06/01/07 00:00	370059	( S4500PE/ 365.1 )	Total phosphorus as P	ND	mg/l	0.020	1
	06/06/07 00:00	371173	( ML/EPA 351.2 )	Kjeldahl Nitrogen	4.5	mg/l	1.0	5



# MWH Laboratories

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Laboratory  
QC Summary  
#206014

Tronox LLC - Henderson

---

QC Ref #369539 - Apparent Color Analysis Date: 05/30/2007

2705300073	EFFLUENT	Analyzed by: nem
2705300074	INFLUENT	Analyzed by: nem

QC Ref #369574 - PH (H3=past HT, not compliant) Analysis Date: 05/30/2007

2705300073	EFFLUENT	Analyzed by: dtn
------------	----------	------------------

QC Ref #369724 - Perchlorate Analysis Date: 05/30/2007

2705300073	EFFLUENT	Analyzed by: raja
2705300074	INFLUENT	Analyzed by: raja

QC Ref #369741 - Nitrite, Nitrogen by IC Analysis Date: 05/30/2007

2705300073	EFFLUENT	Analyzed by: jkz
2705300074	INFLUENT	Analyzed by: jkz

QC Ref #369743 - Nitrate as Nitrogen by IC Analysis Date: 05/30/2007

2705300073	EFFLUENT	Analyzed by: jkz
2705300074	INFLUENT	Analyzed by: jkz

QC Ref #370059 - Total phosphorus as P Analysis Date: 06/01/2007

2705300073	EFFLUENT	Analyzed by: njr
2705300074	INFLUENT	Analyzed by: njr

QC Ref #370170 - Chlorate by IC Analysis Date: 05/31/2007

2705300073	EFFLUENT	Analyzed by: raja
2705300074	INFLUENT	Analyzed by: raja



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#206014

Tronox LLC - Henderson  
(continued)

---

QC Ref #370259 - Hexavalent chromium(Dissolved) Analysis Date: 06/04/2007

2705300073	EFFLUENT	Analyzed by: tlh
2705300074	INFLUENT	Analyzed by: tlh

QC Ref #370408 - Ammonia Nitrogen Analysis Date: 06/04/2007

2705300073	EFFLUENT	Analyzed by: nina
2705300074	INFLUENT	Analyzed by: nina

QC Ref #370439 - Chromium, Total, ICAP Analysis Date: 06/05/2007

2705300074	INFLUENT	Analyzed by: wbh
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QC Ref #370440 - Chromium, Total, ICAP Analysis Date: 06/05/2007

2705300073	EFFLUENT	Analyzed by: wbh
------------	----------	------------------

QC Ref #370446 - Iron, Total, ICAP Analysis Date: 06/05/2007

2705300073	EFFLUENT	Analyzed by: wbh
------------	----------	------------------

QC Ref #370761 - Total Suspended Solids (TSS) Analysis Date: 06/05/2007

2705300073	EFFLUENT	Analyzed by: lmr
------------	----------	------------------

QC Ref #370883 - Total Inorganic Nitrogen-Calc Analysis Date: 06/07/2007

2705300073	EFFLUENT	Analyzed by: dwr
2705300074	INFLUENT	Analyzed by: dwr



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Laboratory  
QC Summary  
#206014

Tronox LLC - Henderson  
(continued)

---

QC Ref #370950 - Gross Alpha Radiation

Analysis Date: 06/05/2007

2705300073

EFFLUENT

Analyzed by: ajc

QC Ref #371173 - Kjeldahl Nitrogen

Analysis Date: 06/08/2007

2705300073

EFFLUENT

Analyzed by: njr

2705300074

INFLUENT

Analyzed by: njr

QC Ref #372124 - Nitrate + Nitrite as N by RFA Analysis Date: 06/15/2007

2705300074

INFLUENT

Analyzed by: lupe



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#206014

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## QC Ref #369539      Apparent Color

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

## QC Ref #369574      PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05290031	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	7.64	7.74	UNIT		( 0-20 )	1.3

## QC Ref #369724      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05240303	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	26.5	UGL	106.0	( 85-115 )	
LCS2	Perchlorate	25.0	27.1	UGL	108.4	( 85-115 )	
LCS3	Perchlorate	4	4.10	UGL	102.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.4	UGL	97.6	( 80-120 )	
MSD	Perchlorate	25.0	25.3	UGL	101.2	( 80-120 )	
RPD_LCS	Perchlorate	106.000	108.400	UGL	2.2	( 0-15 )	
RPD_MS	Perchlorate	97.600	101.200	UGL	1.0	( 0-15 )	

## QC Ref #369741      Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05290456	MGL		( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.08	MGL	108.0	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	1.10	MGL	<u>110.0</u>	( 90-110 )	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0623	MGL	124.6	( 50-150 )	
MS	Nitrite, Nitrogen by IC	0.500	0.568	MGL	113.6	( 78-135 )	

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  
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QC Report  
#206014

Tronox LLC - Henderson  
(continued)

MSD	Nitrite, Nitrogen by IC	0.500	0.564	MGL	112.8	( 78-135 )
RPD_LCS	Nitrite, Nitrogen by IC	108.000	110.000	MGL	1.8	( 0-20 )
RPD_MS	Nitrite, Nitrogen by IC	113.600	112.800	MGL	0.7	( 0-20 )

**QC Ref #369743 Nitrate as Nitrogen by IC**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05290456	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.43	MGL	97.2	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.49	MGL	99.6	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0469	MGL	93.8	( 50-150 )	
MS	Nitrate as Nitrogen by IC	1.25	1.24	MGL	99.2	( 80-112 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.24	MGL	99.2	( 80-112 )	
RPD_LCS	Nitrate as Nitrogen by IC	97.200	99.600	MGL	2.4	( 0-20 )	
RPD_MS	Nitrate as Nitrogen by IC	99.200	99.200	MGL	0.0	( 0-20 )	

**QC Ref #370059 Total phosphorus as P**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05300018	MGL		( 0-0 )	
LCS1	Total phosphorus as P	0.4	0.422	MGL	105.5	( 90-110 )	
LCS2	Total phosphorus as P	0.4	0.423	MGL	105.7	( 90-110 )	
MBLK	Total phosphorus as P	ND	<0.020	MGL			
MRL_CHK	Total phosphorus as P	0.02	0.014	MGL	70.0	( 50-150 )	
MS	Total phosphorus as P	0.4	0.427	MGL	106.7	( 90-110 )	
MS2	Total phosphorus as P	0.4	0.454	MGL	<u>113.5</u>	( 90-110 )	
MSD	Total phosphorus as P	0.4	0.427	MGL	106.7	( 90-110 )	
RPD_LCS	Total phosphorus as P	105.500	105.750	MGL	0.2	( 0-10 )	
RPD_MS	Total phosphorus as P	106.750	106.750	MGL	0.0	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
are advisory only, unless otherwise specified in the method.

Tronox LLC - Henderson  
 (continued)

**QC Ref #370170 Chlorate by IC**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05300010	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	199	UGL	99.5	( 90-110 )	
LCS2	Chlorate by IC	200	198	UGL	99.0	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	10.9	UGL	109.0	( 50-150 )	
MS	Chlorate by IC	100	95.7	UGL	95.7	( 75-125 )	
MSD	Chlorate by IC	100	88.7	UGL	88.7	( 75-125 )	
RPD_LCS	Chlorate by IC	99.500	99.000	UGL	0.5	( 0-20 )	
RPD_MS	Chlorate by IC	95.700	88.700	UGL	7.6	( 0-20 )	

**QC Ref #370259 Hexavalent chromium(Dissolved)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05300073	UGL		( 0-0 )	
LCS1	Hexavalent chromium(Dissolved)	2.0	2.06	UGL	103.0	( 90-110 )	
LCS2	Hexavalent chromium(Dissolved)	2.0	2.05	UGL	102.5	( 90-110 )	
MBLK	Hexavalent chromium(Dissolved)	ND	<0.10	UGL			
MRL_CHK	Hexavalent chromium(Dissolved)	0.100	0.109	UGL	109.0	( 50-150 )	
MS	Hexavalent chromium(Dissolved)	2.0	2.11	UGL	105.5	( 90-110 )	
MSD	Hexavalent chromium(Dissolved)	2.0	2.08	UGL	104.0	( 90-110 )	
RPD_LCS	Hexavalent chromium(Dissolved)	103.000	102.500	UGL	0.5	( 0-20 )	
RPD_MS	Hexavalent chromium(Dissolved)	105.500	104.000	UGL	1.4	( 0-20 )	

**QC Ref #370408 Ammonia Nitrogen**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05310253	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen	1.00	1.02	MGL	102.0	( 90-110 )	
LCS2	Ammonia Nitrogen	1.00	1.02	MGL	102.0	( 90-110 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
 Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
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## Tronox LLC - Henderson (continued)

MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MRL_CHK	Ammonia Nitrogen	0.05	0.049	MGL	98.0	( 50-150 )	
MS	Ammonia Nitrogen	1.00	0.950	MGL	95.0	( 90-110 )	
MSD	Ammonia Nitrogen	1.00	0.950	MGL	95.0	( 90-110 )	
MS_2ND	Ammonia Nitrogen	1	0.921	MGL	92.1	( 90-110 )	
RPD_LCS	Ammonia Nitrogen	102.000	102.000	MGL	0.0	( 0-20 )	
RPD_MS	Ammonia Nitrogen	95.000	95.000	MGL	0.0	( 0-20 )	

### QC Ref #370439 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.921	MGL	92.1	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.935	MGL	93.5	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0102	MGL	102.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.976	MGL	97.6	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	1.09	MGL	109.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.977	MGL	97.7	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	( 70-130 )	

### QC Ref #370440 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.994	MGL	99.4	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.946	MGL	94.6	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0102	MGL	102.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.966	MGL	96.6	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.941	MGL	94.1	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.967	MGL	96.7	( 70-130 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
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Tronox LLC - Henderson  
(continued)

QC Ref #370446      Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	5.07	MGL	101.4	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	4.82	MGL	96.4	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.018	MGL	90.0	( 50-150 )	
MS	Iron, Total, ICAP	5.0	5.20	MGL	104.0	( 70-130 )	
MS2	Iron, Total, ICAP	5.0	4.97	MGL	99.4	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	4.92	MGL	98.4	( 70-130 )	
MSD2	Iron, Total, ICAP	5.0	4.95	MGL	99.0	( 70-130 )	
RPD_LCS	Iron, Total, ICAP	101.400	96.400	MGL	5.1	( 0-20 )	
RPD_MS	Iron, Total, ICAP	104.000	98.400	MGL	5.5	( 0-20 )	

QC Ref #370761      Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06010360	MGL		( 0-0 )	
LCS1	Total Suspended Solids (TSS)	175	164	MGL	93.7	( 71-107 )	
LCS2	Total Suspended Solids (TSS)	175	174	MGL	99.4	( 71-107 )	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			
MRL_CHK	Total Suspended Solids (TSS)	10.0	10	MGL	100.0	( 50-150 )	

QC Ref #370950      Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	05300040	PCIL		( 0-0 )	
DUP	Alpha, Gross	ND	ND	PCIL		( 0-20 )	
LCS1	Alpha, Gross	16.6	15.4	PCIL	92.8	( 80-120 )	
LCS2	Alpha, Gross	16.6	17.7	PCIL	106.6	( 80-120 )	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	28.1	PCIL	84.6	( 70-130 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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Tronox LLC - Henderson  
(continued)

RPD_LCS	Alpha, Gross	92.771	106.627	PCIL	13.9	( 0-20 )
DUP	Beta, Gross	ND	ND	PCIL		( 0-20 )
LCS1	Beta, Gross	15.7	14.7	PCIL	93.6	( 80-120 )
LCS2	Beta, Gross	15.7	13.8	PCIL	87.9	( 80-120 )
MBLK	Beta, Gross	ND	<3.0	PCIL		
MS	Beta, Gross	31.4	33.4	PCIL	106.4	( 70-130 )
RPD_LCS	Beta, Gross	93.631	87.898	PCIL	6.3	( 0-20 )

## QC Ref #371173

## Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05300018	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen	4	3.85	MGL	96.2	( 90-110 )	
LCS2	Kjeldahl Nitrogen	4	3.67	MGL	91.8	( 90-110 )	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MRL_CHK	Kjeldahl Nitrogen	0.1	0.083	MGL	83.0	( 50-150 )	
MS	Kjeldahl Nitrogen	4	3.97	MGL	99.2	( 90-110 )	
MSD	Kjeldahl Nitrogen	4	3.92	MGL	98.0	( 90-110 )	
MS_2ND	Kjeldahl Nitrogen	4	3.70	MGL	92.5	( 90-110 )	
RPD_LCS	Kjeldahl Nitrogen	96.250	91.750	MGL	4.8	( 0-20 )	
RPD_MS	Kjeldahl Nitrogen	99.250	98.000	MGL	1.3	( 0-20 )	

## QC Ref #372124

## Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	05300152	MGL		( 0-0 )	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.98	MGL	98.0	( 90-110 )	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.99	MGL	99.0	( 90-110 )	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.046	MGL	92.0	( 50-150 )	
MS	Nitrate + Nitrite as N by RFA	1.0	1.02	MGL	102.0	( 90-110 )	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.987	MGL	98.7	( 90-110 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
are advisory only, unless otherwise specified in the method.



Kerrmcgee

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Phone: 724.722.5214

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June 20, 2007

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

Drinking Water Characterization; Purchase Order No. 99-28240

206014 NV DW, Ra-226/228; NV Cert PA01458 Expires 06/30/07;

MWH Laboratories

Pace Project No. 07-2963

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received and logged in for analysis on June 1, 2007.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney  
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.



PACE ANALYTICAL SERVICES, INC.  
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-2963

CLIENT: Purchase Order Number: 99-28240

B: SAMPLE IDENTIFICATIONS:

PACE: 0706-0043

CLIENT: 2705300073

C: SHIPPING/RECEIVING COMMENTS:

Final Report 6/20/07.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

0000002

0000003

Table 1

General Data Table

MWH Americas, Inc.

Pace Project No. 07-2963

Drinking Water Characterization; 206014 NV DW, Ra-226/228

Charge Order No. 99-28240; NV Cert PA01458 Expires 06/30/07

Sample Identification

0706-0043

2705300073

(5/29/07)

Parameter	Analytical Method	Units	Analyzed	Act ± Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	06/12/07	-0.165 ± 0.323 (0.888)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	06/11/07	0.870 ± 0.327 (0.573)

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



0000004

Table 1  
(Continued)

Parameter	Analytical Method	Units	Sample Identification	
			Analyzed	Act ± Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	06/12/07	0.194 ± 0.284 (0.476)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	06/11/07	0.601 ± 0.291 (0.540)

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

0000005



PACE Analytical Services, Inc  
QC Sheet Drinking Water

# Quality Control Sample Performance Assessment

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

Test: Ra-226  
Analyst: CMC  
Date: 6/7/2007  
Worklist: 14709  
Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB14709  
 MB concentration: 0.194  
 M/B Counting Uncertainty: 0.284  
 MB MDC: 0.476  
 MB Numerical Performance Indicator: 9.27  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs. MDC: **Pass**

**Laboratory Control Sample Assessment**

LCSID (Y or N)?	Y
LCS14709	6/12/2007
Count Date:	6/12/2007
Spike I.D.:	06-005
Spike Concentration (pCi/ml):	57.278
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.500
Target Conc. (pCi/L, g, F):	11.456
Uncertainty (Calculated):	0.275
Result (pCi/L, g, F):	12.610
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.815
Numerical Performance Indicator:	1.23
Percent Recovery:	110.08%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	<b>Pass</b>

**Duplicate Sample Assessment**

Sample I.D.: LCS14709  
 Duplicate Sample I.D.: LCS14709  
 Sample Result (pCi/L, g, F): 12.610  
 Sample Result Counting Uncertainty (pCi/L, g, F): 1.815  
 Sample Duplicate Result (pCi/L, g, F): 10.373  
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 1.624  
 Are sample and/or duplicate results below MDC? NO  
 Duplicate Numerical Performance Indicator: 1.800  
 Duplicate RPD: 19.46%  
 Duplicate Status vs Numerical Indicator: N/A  
 Duplicate Status vs RPD: **Pass**

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

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

Comments:

**Sample Matrix Spike Control Assessment**

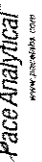
Sample Collection Date: 5/31/2007  
 Sample I.D.: 0706-0023  
 Sample MS I.D.: 0706-0023MS  
 Sample MSD I.D.: 06-005  
 Spike I.D.: 57.279  
 0.20  
 MS/MSD Decay Corrected Spike Concentration (pCi/ml): 0.500  
 Spike Volume Used in MS (mL): 22.911  
 MS Aliquot (L, g, F):  
 MSD Aliquot (L, g, F):  
 MSD Target Conc. (pCi/L, g, F):  
 Spike uncertainty (calculated): 0.550  
 0.000  
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.350  
 Sample Matrix Spike Result: 24.078  
 2.791  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):  
 Sample Matrix Spike Duplicate Result:  
 MS Numerical Performance Indicator: 0.798  
 MSD Numerical Performance Indicator:  
 MS Percent Recovery: 105.09%  
 MSD Percent Recovery:  
 MS Status vs Numerical Indicator: N/A  
 MSD Status vs Numerical Indicator:  
 MS Status vs Recovery: **Pass**  
 MSD Status vs Recovery:

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.:  
 Sample MS I.D.:  
 Sample MSD I.D.:  
 Sample Matrix Spike Result:  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):  
 Sample Matrix Spike Duplicate Result:  
 Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):  
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):  
 Duplicate Numerical Performance Indicator:  
 MS/MSD Duplicate RPD:  
 MS/MSD Duplicate Status vs Numerical Indicator:  
 MS/MSD Duplicate Status vs RPD:

0000006

# Quality Control Sample Performance Assessment



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

Test: Ra-228  
 Analyst: OLB  
 Date: 6/11/2007  
 Worklist: 14698  
 Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB14698  
 MB concentration: 0.601  
 M/B Counting Uncertainty: 0.291  
 MB MDC: 0.540  
 MB Numerical Performance Indicator: 4.05  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs MDC: See Comment\*

**Laboratory Control Sample Assessment**

Count Date:	LCS14698	Y	LCS14698
Spike I.D.:	6/11/2007		6/11/2007
Spike Concentration (pCi/mL):	06-009		06-009
Volume Used (mL):	67.842		67.842
Aliquot Volume (L, g, F):	0.10		0.10
Target Conc. (pCi/L, g, F):	0.800		0.800
Uncertainty (Calculated):	8.480		8.480
Result (pCi/L, g, F):	0.263		0.263
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	7.933		8.435
Numerical Performance Indicator:	0.677		0.660
Percent Recovery:	-1.48		-0.13
Status vs Numerical Indicator:	93.54%		99.46%
Status vs Recovery:	N/A		N/A
	Pass		Pass

**Duplicate Sample Assessment**

Sample I.D.: LCS14698  
 Duplicate Sample I.D.: LCS14698  
 Sample Result (pCi/L, g, F): 7.933  
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.677  
 Sample Duplicate Result (pCi/L, g, F): 8.435  
 Sample Duplicate Counting Uncertainty (pCi/L, g, F): 0.660  
 Are sample and/or duplicate results below MDC? NO  
 Duplicate Numerical Performance Indicator: -1.040  
 Duplicate RPD: 6.13%  
 Duplicate Status vs Numerical Indicator: N/A  
 Duplicate Status vs RPD: Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

**Sample Matrix Spike Control Assessment**

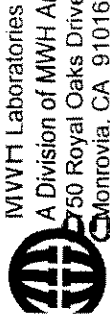
Sample Collection Date: 5/31/2007  
 Sample I.D.: 0706-0022  
 Sample MS I.D.: 0706-0022MS  
 Sample MSD I.D.: 06-009  
 Spike I.D.: 68.099  
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 0.20  
 Spike Volume Used in MS (mL): 0.800  
 Spike Volume Used in MSD (mL): 17.025  
 MS Aliquot (L, g, F): 0.528  
 MS Target Conc. (pCi/L, g, F): 0.705  
 MSD Aliquot (L, g, F): 0.336  
 MSD Target Conc. (pCi/L, g, F): 14.834  
 Spike uncertainty (calculated): 0.924  
 Sample Result Counting Uncertainty (pCi/L, g, F): -5.088  
 Sample Matrix Spike Result: 82.99%  
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): N/A  
 MS Numerical Performance Indicator: Pass

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.:  
 Sample MS I.D.:  
 Sample MSD I.D.:  
 Sample Matrix Spike Result:  
 Sample Matrix Spike Duplicate Result:  
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):  
 Duplicate Numerical Performance Indicator:  
 MS/MSD Duplicate RPD:  
 MS/MSD Duplicate Status vs Numerical Indicator:  
 MS/MSD Duplicate Status vs RPD:

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

Comments:  
 \*The method blank result is below the reporting limit for this analysis and is acceptable.



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Ship To  
**Mike Schnupp**  
**Analytical - Waltz Mill**

**Westinghouse Waltz Mill Site**  
**0 Madison Exit**  
**Madison, PA 15663**

24) 722-5214/5218 Fax (724) 722-5208

**MWH Project # Report Due: Sub PO#**  
 206014 06/22/07 99-28240



emmm

Client Sample ID for reference only

@R226ED 2705300073 EFFLUENT 0706-0043 Radioactivity, Radium 226 Sub-contracted 05/29/07 06:30 dw 1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR  
 @R228ED Radioactivity, Radium 228 Sub-contracted 2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR

MS - 0044

691A 3676 8805

1443

Relinquished by: *[Signature]* Date 05/31/07 Time 1423 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS

Received by: *[Signature]* Date 6/1/07 Time 1423 An Acknowledgement of Receipt is requested to attn: Julie Lee

Date 05/31/07

**\*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!**  
 Report & Invoice must have the MWH Project Number **206014** Sub PO# **99-28240** and Job # **1000032**

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

**Reports:** Elena Montanez Sub-contracting Administrator  
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 Accounts Payable PO BOX 6610, Broomfield, CO 80021

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

NEVEDA

07-2963

Analysis Requested Sample Date & Time Matrix Container