



# 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)

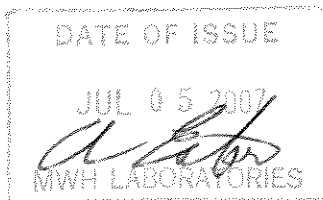
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton  
Project Manager



Report#: 206546  
Project: CLO4  
PO#: Susan Crowle

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 12 page[s].



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

806546

MWLABS USE ONLY:

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

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

LOGIN COMMENTS:

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

SAMPLE TEMP, RECEIPT AT LAB: *[Signature]*

BLUE ICE: FROZEN  PARTIALLY FROZEN  THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: PROJECT JOB # / P.O.#: (check for yes)

KERRMCGEE-NP Weekly Permit Compliance Samples - SO #6532 & #6534

Sample Signature: Thomas McDaniel (702) 651-2234

Susan Crowley

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

## REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	RADCWB (2 Bts)	NH3-NH3-DIST	PH-NH2-N-NH3-N-NOR-TSS	CL03	FE, CR	T-P, TKN	Color	FAZ28EDD/RAZ26EDD (2 Bts)	CR	NO2-N, NO3, N-NOR	CAI	SAMPLER COMMENTS	
6:30 AM	6/4/2007		EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X			X		Revised SO #6534
7:00	6/4/2007		INFLUENT	RSW	X		X	X	X	X	X	X	X	X	X			X		Revised SO #6532
																				(2) Aug 06/05/07 + 200 Cost

\* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated Finished Water  
FW = Other Finished Water

RGW = Raw Ground Water  
RSW = Raw Surface Water

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

Reported by Weight:

SO = Soil  
SL = Sludge

SIGNATURE

PRINT NAME

RELINQUISHED BY: *[Signature]*  
RECEIVED BY: *[Signature]*  
RECEIVED BY:

Thomas McDaniel  
*[Signature]*

COMPANY/TITLE  
Veolia Water NA for Tronox LLC - Henderson Plant

DATE: 6/4/2007  
TIME: 12:00 PM  
*[Signature]*

SCANNED



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

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

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

Client Code KERRMCGEE-MP

Project Code CLO4

W Weekly

PO# / Job#  
Blanket PO

SO# 36354 6534 RS

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

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

Billing Address

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

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

Quote#

HV

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 2031	This is the weekly order for the EFFLUENT
1	@RADCW	2: 1 125 ml poly / no pres & 1 x 500 ml poly + 2 ml HNO3 (18%)	UN 2796	RA226/228 to be subbed to a NV certified lab
1	NH3, NH3-DIST	1 250 ml poly+ 1 ml H2SO4 (50%)		<b>PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER - also use a LARGE COOLER</b>
1	PH, NO2-N, NO3, N-INOR, TSS	1 500 ml poly/ no preservative <b>SHORT HOLDING TIME!!!!</b>	UN2031	<b>#KERREFF +CRVI-LOW</b>
1	FE, CR	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	for this site
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN 2796	CLIENT CODE CHANGED 7/25/03
1	COLOR	1 500ml amber glass / no preservative <b>SHORT HOLDING TIME!!!!</b>		Testcode for CRVI changed to IC effective 1/6/04
1	RA228EDD/RA226EDD	2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE DL'S	UN 1604	Moved CBOD to separate order as of 10/21/04
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	3077	updated BO 12-8-05 - deleted some tests and changed Cr from MS to ICP.
1	CRVI-LOW	1125 ml poly/ 1 ml NH4SO4/NH4OH buffer		added clo3 back 2-7-06
1	SYRINGE, SYRINGE FILTER, EXTRA BOTTLE	1 60 ml plastic syringe, 1 0.45 um syringe filter, 1 x 125 ml poly no pres		removed CRVI-LOW to sep BO 2-10-06
				added CRVI-LOW as of 4/11/07

SCANNED

Prepared By

Carrier

Qty of Coolers

Tracking Number

Date Shipped

Status

ActiveCode



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  
 PO# / Job#  
 Blanket PO

SO# 36353 6532 RS

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

Created by HV  
 Order Date 05/21/07  
 Date Needed by Client  
 Ship Sample Kits to  
 Veolia Water-Tronox LLC  
 Gate 1  
 8000 West Lake Mead Drive  
 Henderson, NV 89015

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 <b>INFLUENT</b> This cooler can be shipped out along with the EFFLUENT cooler as one order. <b>PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER</b> <b>Login - use Profile #KERRINF+CRVI-LOW for this site</b> <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
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	3077	
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	
1	COLOR	1 500ml amber glass / no preservative <b>SHORT HOLDING TIME!!!!</b>		
1	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative <b>SHORT HOLDING TIME!!!!</b>		
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	
1	CRVI-LOW	1x 125 ml poly/ 1 ml NH4SO4/NH4OH buffer	3077	
1	SYRINGE/FILTER/EXTRA BOTTLE	1 60 ml plastic syringe, 1 0.45 um syringe filter, 1 x 125 ml poly no pres		

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

SCANNED

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

SHIPPER'S NUMBER: 142625

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>6/4/07</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 <b>TRONOX LLC</b>		
N/A			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 @ 30 lbs 1 ice chest @ 22 lbs</b>		<b>2 COOLERS</b>		
TRUCK SHIPMENTS PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO    PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC – DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.		
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT		
		<b>0</b>			
<b>2</b>	TOTAL GROSS WEIGHT <b>52</b>	TOTAL TARE WEIGHT <b>0</b>	<b>52</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>Olga Maestas</b>	AGENT	PER	

SCANNED

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



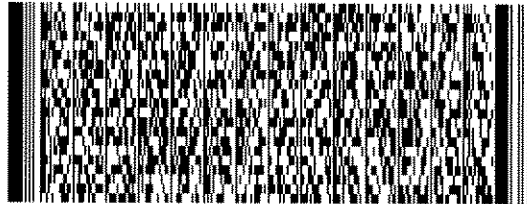
Ship Date: 04JUN07  
ActWgt: 22 LB  
System#: 2274147/NET2600  
Account#: S \*\*\*\*\*

Delivery Address Bar Code



Ref # MSO #142625  
Invoice #  
PO #  
Dept #

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



**PRIORITY OVERNIGHT**

**TUE**

TRK# 7929 9833 7960

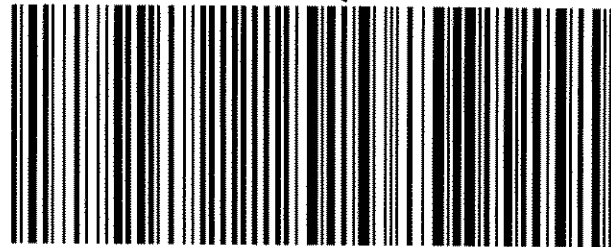
FORM 0201

Deliver By:  
05JUN07

**BUR A2**

91016 -CA-US

**QZ WHPA**



SCANNED

Shipping Label: Your shipment is complete

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

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

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

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: KERRMCGEE-MP  
 PO#: Susan Crowley PO  
 Group#: 206546  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **06/05/07**. 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
2706050534	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CLO4 COLOR CR CRVI-LOW DIGEST NH3-DIST NO2-N NO3 T-P TKN TSS	Water	04-jun-2007 06:30:00
2706050535	INFLUENT	NOTEST	Water	04-jun-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)
DIGEST	Metals digestion performed.
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 ICAP
NOTEST	No test by MWH Labs
P	Metals sample pH
PH	PH (H3=past HT, not compliant)
T	Metals Turbidity
T-P	Total phosphorus as P
TKN	Kjeldahl Nitrogen
TSS	Total Suspended Solids (TSS)



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Monrovia, California 91016-3629  
Tel: 626 386 1100  
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---

Report  
Comments  
#206546

## 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

Analysis Cancelled. Incorrect location sampled. Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA. Nevada Cert PA91-2004-77

(QC Ref#: 2706050534)

Test: Nitrite, Nitrogen by IC (ML/EPA 300.0)

L3- The associated blank spike recovery was above method acceptance limits.





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 1 800 566 LABS (1 800 566 5227)

Laboratory  
 Hits Report  
 #206546

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

Samples Received  
 05-jun-2007 16:56:28

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2706050534</b>	<b>EFFLUENT</b>				
06/19/07		Radium 226	<0.650	3	pCi/l	0.65
06/19/07		Radium 226, Minimal Detectable	0.650		pCi/l	
06/19/07		Radium 226, Two Sigma Error	0.335		pCi/l	
06/15/07		Radium 228	<0.746	5	pCi/l	0.75
06/15/07		Radium 228, Minimum Detectable	0.746		pCi/l	
06/15/07		Radium 228, Two Sigma Error	0.373		pCi/l	
06/14/07		Alpha, Gross	19	15	pCi/l	8.5
06/14/07		Alpha, Min Detectable Activity	8.46		pCi/l	
06/14/07		Alpha, Two Sigma Error	9.4		pCi/l	
06/14/07		Gross Alpha + adjusted error	26.9		pCi/l	
06/11/07		Ammonia Nitrogen	0.093		mg/l	0.050
06/06/07		Apparent Color	10	15	ACU	3.0
06/07/07		Iron, Total, ICAP	3.6	0.3	mg/l	0.040
06/08/07		Kjeldahl Nitrogen	1.9		mg/l	0.20
06/07/07		Metals digestion performed.	Y		Yes/No	
06/06/07		PH (H3=past HT, not compliant)	7.0	6.5-8.5	Units	0.010
06/11/07		Total Suspended Solids (TSS)	26		mg/l	10
06/12/07		Total phosphorus as P	0.80		mg/l	0.020
	<b>2706050535</b>	<b>INFLUENT</b>				
06/12/07		No test by MWH Labs	CANCELLED		--	

SUMMARY OF POSITIVE DATA ONLY.



# MWH Laboratories

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Laboratory  
Data Report  
#206546

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

Samples Received  
06/05/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>EFFLUENT (2706050534)                      Sampled on 06/04/07 06:30</b>								
	06/08/07 00:00	371327	( ML/EPA 300.0 )	Chlorate by IC	ND	ug/l	50	5
	06/06/07 00:01	370870	( EPA 314 )	Perchlorate	ND	ug/l	10	5
	06/06/07 00:00	370805	( ML/SM2120B )	Apparent Color	10	ACU	3.0	1
	06/07/07 21:17	371030	( ML/EPA 200.7 )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	06/05/07 12:25	370644	( EPA 218.6 )	Hexavalent chromium(Dissolved)	ND	ug/l	0.10	1
	06/07/07 12:26		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	06/07/07 21:17	371033	( ML/EPA 200.7 )	Iron, Total, ICAP	3.6	mg/l	0.040	2
	06/13/07 14:59	371754	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	ND	mg/l	10	50
	06/11/07 00:00	371573	( ML/EPA 350.1 )	Ammonia Nitrogen	0.093	mg/l	0.050	1
	06/05/07 14:50	370665	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND(L3)	mg/l	0.62	50
	06/05/07 14:50	370667	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
	06/06/07 00:00	370683	( SM4500-HB )	PH (H3=past HT, not compliant)	7.0	Units	0.010	1
	06/12/07 04:41	371762	( S4500PE/ 365.1)	Total phosphorus as P	0.80	mg/l	0.020	1
	06/08/07 00:00	371173	( ML/EPA 351.2 )	Kjeldahl Nitrogen	1.9	mg/l	0.20	1
	06/11/07 09:00	371548	( SM 2540D )	Total Suspended Solids (TSS)	26	mg/l	10	1
<b>Gross Alpha Radiation</b>								
	06/14/07 00:00	372361	( ML/EPA 900.0 )	Alpha, Gross	19	pCi/l	8.5	1
	06/14/07 00:00	372361	( ML/EPA 900.0 )	Gross Alpha + adjusted error	26.9	pCi/l	0	1
	06/14/07 00:00	372361	( ML/EPA 900.0 )	Alpha, Two Sigma Error	9.4	pCi/l	0	1
	06/14/07 00:00	372361	( ML/EPA 900.0 )	Alpha, Min Detectable Activity	8.46	pCi/l	0	1
<b>Radium 226 (Sub)</b>								
	06/19/07 00:00		( EPA 903.1 )	Radium 226	<0.650	pCi/l	0.65	1
	06/19/07 00:00		( EPA 903.1 )	Radium 226, Two Sigma Error	0.335	pCi/l	0	1
	06/19/07 00:00		( EPA 903.1 )	Radium 226, Minimal Detectable	0.650	pCi/l	0	1
<b>Radium 228 (Sub)</b>								
	06/15/07 00:00		( EPA 904.0 )	Radium 228	<0.746	pCi/l	0.75	1
	06/15/07 00:00		( EPA 904.0 )	Radium 228, Two Sigma Error	0.373	pCi/l	0	1
	06/15/07 00:00		( EPA 904.0 )	Radium 228, Minimum Detectable	0.746	pCi/l	0	1



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Laboratory  
Data Report  
#206546

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>INFLUENT (2706050535)</b>				<b>Sampled on 06/04/07 07:00</b>				
06/12/07 00:00		( ----- )		No test by MWH Labs	CANCELLED	--	0	1



# MWH Laboratories

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Laboratory  
QC Summary  
#206546

Tronox LLC - Henderson

---

QC Ref #370644 - Hexavalent chromium(Dissolved)Analysis Date: 06/05/2007

2706050534 EFFLUENT Analyzed by: tlh

QC Ref #370665 - Nitrite, Nitrogen by IC Analysis Date: 06/05/2007

2706050534 EFFLUENT Analyzed by: jkz

QC Ref #370667 - Nitrate as Nitrogen by IC Analysis Date: 06/05/2007

2706050534 EFFLUENT Analyzed by: jkz

QC Ref #370683 - PH (H3=past HT, not compliant)Analysis Date: 06/06/2007

2706050534 EFFLUENT Analyzed by: dtn

QC Ref #370805 - Apparent Color Analysis Date: 06/06/2007

2706050534 EFFLUENT Analyzed by: nem

QC Ref #370870 - Perchlorate Analysis Date: 06/06/2007

2706050534 EFFLUENT Analyzed by: raja

QC Ref #371030 - Chromium, Total, ICAP Analysis Date: 06/07/2007

2706050534 EFFLUENT Analyzed by: wbh

QC Ref #371033 - Iron, Total, ICAP Analysis Date: 06/07/2007

2706050534 EFFLUENT Analyzed by: wbh



# MWH Laboratories

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Laboratory  
QC Summary  
#206546

Tronox LLC - Henderson  
(continued)

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QC Ref #371173	- Kjeldahl Nitrogen	Analysis Date: 06/08/2007
2706050534	EFFLUENT	Analyzed by: njr
QC Ref #371327	- Chlorate by IC	Analysis Date: 06/08/2007
2706050534	EFFLUENT	Analyzed by: raja
QC Ref #371548	- Total Suspended Solids (TSS)	Analysis Date: 06/11/2007
2706050534	EFFLUENT	Analyzed by: yvette
QC Ref #371573	- Ammonia Nitrogen	Analysis Date: 06/11/2007
2706050534	EFFLUENT	Analyzed by: nina
QC Ref #371754	- Total Inorganic Nitrogen-Calc	Analysis Date: 06/13/2007
2706050534	EFFLUENT	Analyzed by: dwr
QC Ref #371762	- Total phosphorus as P	Analysis Date: 06/12/2007
2706050534	EFFLUENT	Analyzed by: njr
QC Ref #372361	- Gross Alpha Radiation	Analysis Date: 06/14/2007
2706050534	EFFLUENT	Analyzed by: ajc



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#206546

Tronox LLC - Henderson

## QC Ref #370644 Hexavalent chromium(Dissolved)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06040444	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	0.097	UGL	97.0	( 50-150 )	
MS	Hexavalent chromium(Dissolved)	2.0	2.21	UGL	<u>110.5</u>	( 90-110 )	
MSD	Hexavalent chromium(Dissolved)	2.0	2.25	UGL	<u>112.5</u>	( 90-110 )	
RPD_LCS	Hexavalent chromium(Dissolved)	103.000	102.500	UGL	0.5	( 0-20 )	
RPD_MS	Hexavalent chromium(Dissolved)	110.500	112.500	UGL	1.8	( 0-20 )	

## QC Ref #370665 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06050039	MGL		( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.11	MGL	<u>111.0</u>	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	1.07	MGL	107.0	( 90-110 )	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0527	MGL	105.4	( 50-150 )	
MS	Nitrite, Nitrogen by IC	0.500	0.554	MGL	110.8	( 78-135 )	
MSD	Nitrite, Nitrogen by IC	0.500	0.552	MGL	110.4	( 78-135 )	
RPD_LCS	Nitrite, Nitrogen by IC	111.000	107.000	MGL	3.7	( 0-20 )	
RPD_MS	Nitrite, Nitrogen by IC	110.800	110.400	MGL	0.4	( 0-20 )	

## QC Ref #370667 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06050039	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.50	MGL	100.0	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.46	MGL	98.4	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0445	MGL	89.0	( 50-150 )	

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



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 #206546

## Tronox LLC - Henderson (continued)

MS	Nitrate as Nitrogen by IC	1.25	1.20	MGL	96.0	( 80-112 )
MSD	Nitrate as Nitrogen by IC	1.25	1.21	MGL	96.8	( 80-112 )
RPD_LCS	Nitrate as Nitrogen by IC	100.000	98.400	MGL	1.6	( 0-20 )
RPD_MS	Nitrate as Nitrogen by IC	96.000	96.800	MGL	0.8	( 0-20 )

### QC Ref #370683 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06050769	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	7.41	7.36	UNIT		( 0-20 )	0.7

### QC Ref #370805 Apparent Color

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

### QC Ref #370870 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06050661	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.7	UGL	98.8	( 85-115 )	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	( 85-115 )	
LCS3	Perchlorate	4	3.81	UGL	95.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.8	UGL	91.2	( 80-120 )	
MSD	Perchlorate	25.0	21.9	UGL	87.6	( 80-120 )	
RPD_LCS	Perchlorate	98.800	97.200	UGL	1.6	( 0-15 )	
RPD_MS	Perchlorate	91.200	87.600	UGL	1.0	( 0-15 )	

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QC Report  
#206546

Tronox LLC - Henderson  
(continued)

## QC Ref #371030 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.985	MGL	98.5	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.011	MGL	110.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.961	MGL	96.1	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.985	MGL	98.5	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.952	MGL	95.2	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 70-130 )	

## QC Ref #371033 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	5.02	MGL	100.4	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	5.02	MGL	100.4	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.021	MGL	105.0	( 50-150 )	
MS	Iron, Total, ICAP	5.0	4.94	MGL	98.8	( 70-130 )	
MS2	Iron, Total, ICAP	5.0	4.95	MGL	99.0	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	5.03	MGL	100.6	( 70-130 )	
MSD2	Iron, Total, ICAP	5.0	5.08	MGL	101.6	( 70-130 )	
RPD_LCS	Iron, Total, ICAP	100.400	100.400	MGL	0.0	( 0-20 )	
RPD_MS	Iron, Total, ICAP	98.800	100.600	MGL	1.8	( 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 )	

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	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
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 #371327

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06050039	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	209	UGL	104.5	( 90-110 )	
LCS2	Chlorate by IC	200	203	UGL	101.5	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	9.45	UGL	94.5	( 50-150 )	
MS	Chlorate by IC	100	92.5	UGL	92.5	( 75-125 )	
MSD	Chlorate by IC	100	94.2	UGL	94.2	( 75-125 )	
RPD_LCS	Chlorate by IC	104.500	101.500	UGL	2.9	( 0-20 )	
RPD_MS	Chlorate by IC	92.500	94.200	UGL	1.8	( 0-20 )	

QC Ref #371548

Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06070230	MGL		( 0-0 )	
LCS1	Total Suspended Solids (TSS)	175	160	MGL	91.4	( 71-107 )	
LCS2	Total Suspended Solids (TSS)	175	172	MGL	98.3	( 71-107 )	
MBLK	Total Suspended Solids (TSS)	ND	<u>4</u>	MGL			
MRL_CHK	Total Suspended Solids (TSS)	10.0	10	MGL	100.0	( 50-150 )	

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

## QC Ref #371573

## Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06050352	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen	1.00	1.01	MGL	101.0	( 90-110 )	
LCS2	Ammonia Nitrogen	1.00	1.01	MGL	101.0	( 90-110 )	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MRL_CHK	Ammonia Nitrogen	0.05	0.044	MGL	88.0	( 50-150 )	
MS	Ammonia Nitrogen	1.00	0.999	MGL	99.9	( 90-110 )	
MSD	Ammonia Nitrogen	1.00	1.01	MGL	101.0	( 90-110 )	
RPD_LCS	Ammonia Nitrogen	101.000	101.000	MGL	0.0	( 0-20 )	
RPD_MS	Ammonia Nitrogen	99.900	101.000	MGL	1.1	( 0-20 )	

## QC Ref #371762

## Total phosphorus as P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06050352	MGL		( 0-0 )	
LCS1	Total phosphorus as P	0.4	0.417	MGL	104.2	( 90-110 )	
LCS2	Total phosphorus as P	0.4	0.420	MGL	105.0	( 90-110 )	
MBLK	Total phosphorus as P	ND	<0.020	MGL			
MRL_CHK	Total phosphorus as P	0.02	0.023	MGL	115.0	( 50-150 )	
MS	Total phosphorus as P	0.4	0.419	MGL	104.7	( 90-110 )	
MS2	Total phosphorus as P	0.4	0.391	MGL	97.8	( 90-110 )	
MSD	Total phosphorus as P	0.4	0.415	MGL	103.7	( 90-110 )	
RPD_LCS	Total phosphorus as P	104.250	105.000	MGL	0.7	( 0-10 )	
RPD_MS	Total phosphorus as P	104.750	103.750	MGL	1.0	( 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 #372361

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06050688	PCIL		( 0-0 )	
DUP	Alpha, Gross	ND	3.16	PCIL		( 0-20 )	
LCS1	Alpha, Gross	16.6	15.9	PCIL	95.8	( 80-120 )	
LCS2	Alpha, Gross	16.6	15.0	PCIL	90.4	( 80-120 )	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	31.4	PCIL	94.6	( 70-130 )	
RPD_LCS	Alpha, Gross	95.783	90.361	PCIL	5.8	( 0-20 )	
DUP	Beta, Gross	ND	ND	PCIL		( 0-20 )	
LCS1	Beta, Gross	15.7	14.2	PCIL	90.4	( 80-120 )	
LCS2	Beta, Gross	15.7	15.5	PCIL	98.7	( 80-120 )	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	31.0	PCIL	98.7	( 70-130 )	
RPD_LCS	Beta, Gross	90.446	98.726	PCIL	8.8	( 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  
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Kerrmcgill-mp

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Madison, PA 15663  
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June 27, 2007

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

Drinking Water Characterization; Purchase Order No. 99-28322  
206546 NV DW, Ra-226/228; NV Cert PA01458 Expires 06/30/07;  
MWH Laboratories  
Pace Project No. 07-3055

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received on June 7, 2007 and logged in for analysis on June 8, 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 for RMK*

Richard M. Kinney  
Radiochemistry Laboratory Supervisor

RMK:jac

Enclosures

## REPORT OF LABORATORY ANALYSIS

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

PACE ANALYTICAL SERVICES, INC.  
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-3055

CLIENT: Purchase Order Number: 99-28322

B: SAMPLE IDENTIFICATIONS:

PACE: 0706-0388

CLIENT: 2706050534

C: SHIPPING/RECEIVING COMMENTS:

Final Report 06/27/07.

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. 07-3055

Drinking Water Characterization; 206546 NV DW, Ra-226/228

Charge Order No. 99-28322; NV Cert PA01458 Expires 06/30/07

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act	Unc (MDC)
Ra-226	EPA 903.1	pCi/L	06/19/07	0706-0388 2706050534	0.121 ± 0.335 (0.650)
Ra-228	EPA 904.0	pCi/L	06/15/07	(6/4/07)	0.562 ± 0.373 (0.746)

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

0000004

Table 1  
(Continued)

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				0706-0389 Method Blank (6/7/07)	Act ± Unc (MDC)
Ra-226	EPA 903.1	pCi/L	06/19/07	0.297 ± 0.261	(0.161)
Ra-228	EPA 904.0	pCi/L	06/15/07	0.781 ± 0.293	(0.506)

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

0000005

# Quality Control Sample Performance Assessment



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

Test: Ra-226  
Analyst: CMC  
Date: 6/13/2007  
Worklist: 14733  
Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB14733  
MB concentration: 0.297  
MB Counting Uncertainty: 0.261  
MB MDC: 0.161  
MB Numerical Performance Indicator: 16.82  
MB Status vs Numerical Indicator: N/A  
MB Status vs MDC: See Comment

**Laboratory Control Sample Assessment**

LCSD (Y or N)?	Y
LCSD14733	6/19/2007
Count Date:	06-005
Spike I.D.:	57.277
Spike Concentration (pCi/L):	0.10
Volume Used (L, g, F):	0.500
Aliquot Volume (L, g, F):	11.455
Target Conc. (pCi/L, g, F):	0.275
Uncertainty (Calculated):	11.420
Result (pCi/L, g, F):	1.664
LCSD Counting Uncertainty (pCi/L, g, F):	-0.04
Numerical Performance Indicator:	99.69%
Percent Recovery:	N/A
Status vs Numerical Indicator:	Pass
Status vs Recovery:	Pass

**Duplicate Sample Assessment**

Sample I.D.: LCS14733  
Duplicate Sample I.D.: LCS14733  
Sample Result (pCi/L, g, F): 12.745  
Sample Duplicate Result (pCi/L, g, F): 1.756  
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 11.420  
Are sample and/or duplicate results below MDC? NO  
Duplicate Numerical Performance Indicator: 1.073  
Duplicate RPD: 10.96%  
Duplicate Status vs Numerical Indicator: N/A  
Duplicate Status vs RPD: Pass

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 6/7/2007  
Sample I.D.: 0706-0420  
Sample MS I.D.: 0706-0420MS  
Sample MSD I.D.: 06-005  
Spike I.D.: 57.278  
MSMSD Decay Corrected Spike Concentration (pCi/mL): 0.20  
Spike Volume Used in MS (mL): 0.500  
MS Aliquot (L, g, F): 22.911  
MS Target Conc. (pCi/L, g, F): 0.550  
MSD Aliquot (L, g, F): 0.120  
MSD Target Conc. (pCi/L, g, F): 0.332  
Spike uncertainty (calculated): 20.876  
Sample Result: 2.149  
Sample Result Counting Uncertainty (pCi/L, g, F): -1.882  
Sample Matrix Spike Result: 90.80%  
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): N/A  
Sample Matrix Spike Duplicate Result: Pass  
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):  
MS Numerical Performance Indicator:  
MSD Numerical Performance Indicator:  
MS Percent Recovery:  
MS Status vs Numerical Indicator:  
MSD Status vs Numerical Indicator:  
MS Status vs Recovery:  
MSD Status vs Recovery:

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

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

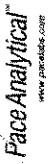
The method blank result is below the reporting limit for this analysis and is acceptable.

*Quadrant One for Rmk  
6/27/07*



0000006

# Quality Control Sample Performance Assessment



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

Test: Ra-228  
Analyst: OLB  
Date: 6/15/2007  
Worklist: 14734  
Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB14734  
 MB concentration: 0.781  
 M/B Counting Uncertainty: 0.293  
 MB MDC: 0.506  
 MB Numerical Performance Indicator: 5.23  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs. MDC: See Comment

**Laboratory Control Sample Assessment**

LCSD (Y or N)?	Y
Count Date:	6/15/2007
Spike I.D.:	06-009
Spike Concentration (pCi/mL):	67.753
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.800
Target Conc. (pCi/L, g, F):	8.469
Uncertainty (Calculated):	0.263
Result (pCi/L, g, F):	7.467
LCSD Counting Uncertainty (pCi/L, g, F):	0.679
Numerical Performance Indicator:	-2.70
Percent Recovery:	88.16%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

**Duplicate Sample Assessment**

Sample I.D.:	LCSD14734
Duplicate Sample I.D.:	LCSD14734
Sample Result (pCi/L, g, F):	7.467
Sample Duplicate Result (pCi/L, g, F):	0.679
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	7.761
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.654
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.612
Duplicate RPD:	3.86%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

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

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

**Comments:**

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

**Sample Matrix Spike Control Assessment**

Sample Collection Date:	6/5/2007
Sample I.D.:	0706-0382
Sample MS I.D.:	0706-0382MS
Sample MSD I.D.:	06-009
Spike I.D.:	67.987
M/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20
Spike Volume Used in MS (mL):	0.800
MS Aliquot (L, g, F):	16.997
MS Target Conc. (pCi/L, g, F):	0.527
MSD Aliquot (L, g, F):	0.076
MSD Target Conc. (pCi/L, g, F):	0.259
Spike uncertainty (calculated):	11.756
Sample Result:	0.696
Sample Result Counting Uncertainty (pCi/L, g, F):	-11.440
Sample Matrix Spike Result:	68.72%
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	N/A
Sample Matrix Spike Duplicate Result:	Pass
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:	

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

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

*Qula J. Omar for RML*  
*6/27/07*

MWH Laboratories

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

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

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

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

MWH Project # Report Due: Sub PO#  
206546 06/28/07 99-28322

Use MWH Lab # for ID

ncl

Client Sample ID for reference only

0706-0388

@R226ED 2706050534 EFFLUENT

@R228ED

mb - 0389

Date 06/06/07

Submittal Form & Purchase Order 99-20322

\*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!  
Report & Invoice must have the MWH Project Number **206546** and Job # **1000032**

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

07-3055

Reports: Elena Montanez / Christine Lewis Sub-contracting Administrator  
EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com  
MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016  
Phone (626) 386-1118 / 1137 Fax (626) 386-1122  
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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

Analysis Requested Sample Date & Time Matrix Container

Radioactivity, Radium 226 Sub-contracted 06/04/07 06:30 dw 1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION OF'S  
Radioactivity, Radium 228 Sub-contracted 2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION OF'S

Relinquished by: *[Signature]* Date 06/06/07 Time 15:46 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS Page 1

Received by: *[Signature]* Date 6/7/07 Time 10:31 An Acknowledgement of Receipt is requested to attn: Christine Lewis