



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)

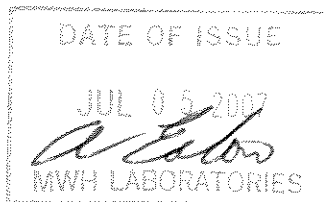
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager



Report#: 207230
Project: CLO4
PO#: Susan Crowle

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 15 page[s].



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

207230

MVLABS USE ONLY:

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

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: MD

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

SAMPLE TEMP, RECEIPT AT LAB: 2°

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **KERRMCGEE-AMP**
 PROJECT JOB # / P.O.#: **Weekly Permit Compliance Samples - SO #6532 & #6534**
 Sampler Signature: Michele Brown
 Susan Crowley (702) 651-2234
 IDENTIFIER, STATE ID#: **Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009**

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	RADCWB (2 Bils)	NH3, NH3-DIST	PH, NO2-N, NO3-N, NH4-N, TSS	CLO3	FE, CR	T-P, TKN	Color	RA228EDD/RA226EDD (2 Bils)	CR	NO2-N, NO3-N, NH4-N	CMI	SAMPLER COMMENTS	
6:30 AM	6/11/2007		EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X					Revised SO #6534
7:00	6/11/2007		INFLUENT	RSW	X		X	X	X		X									Revised SO #6532

* MATRIX TYPES:

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: Michele Brown PRINT NAME: **Michele Brown**
 RECEIVED BY: Joe Sanchez
 RELINQUISHED BY: Joe Sanchez
 COMPANY/TITLE: **Veolia Water NA for Tronox LLC - Henderson Plant**
 DATE: **6-11-2007** TIME: **12:00 PM**
 DATE: **6-12-07** TIME: **10:00**



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

RS

SO# 36354 6534 0 **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

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

SHIP LOCATION

of Samples Tests

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

UN#

Quote#

HV

Important Comments

#	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
1	CLO4	1 125ml poly /no preservative		
1	@RADCWB	2: 1 125 ml poly / no pres & 1 x 500 ml poly + 2 ml HNO3 (18%)	UN 2031	This is the weekly order for the EFFLUENT RA226/228 to be subbed to a NV certified lab
1	NH3, NH3-DIST	1 250 ml poly+ 1 ml H2SO4 (50%)	UN 2796	PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER - also use a LARGE COOLER
1	PH, NO2-N, NO3, N-INOR, TSS	1 500 ml poly/ no preservative SHORT HOLDING TIME!!!!		#KERREFF +CRVI-LOW
1	FE, CR	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN2031	for this site
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	CLIENT CODE CHANGED 7/25/03
1	COLOR	1 500ml amber glass / no preservative SHORT HOLDING TIME!!!!		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 2031	Moved CBOD to separate order as of 10/21/04
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	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	3077	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 4/1/07

SOA 4/23/07

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

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
Veolia Water-Ironox 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 INFLUENT This cooler can be shipped out along with the EFFLUENT cooler as one order.
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	3077	PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	Login - use Profile #KERRINF+CRVI-LOW for this site
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
1	COLOR	1 500ml amber glass / no preservative		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	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative		
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

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: 142636

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.

SCANNED

CARRIER Federal Express		Date 06/11/07	FROM NO. STATION: STATE Henderson, NV 89015	
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400			Authorization S. CROWLEY	
			FULL NAME OF SHIPPER TRONOX LLC CODE NO. WCN IS 1321.10400	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		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.		
N/AR	CUSTOMER PO OR REQ'N NO.	SHIPPED FROM Henderson, NV		
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY	
	Weekly Discreets— (Influent – Effluent Weekly Grabs) Not Regulated 1 ice chest @ 20 lbs 1 ice chest @ 31 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.	
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	
		0		
2	TOTAL GROSS WEIGHT 51	TOTAL TARE WEIGHT 0	51	
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 _____				
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 Judi Durkin	AGENT	PER	

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



CLS8223072123

Ship Date: 11JUN07
 ActWgt: 20 LB
 System#: 2274147/INET7011
 Account#: S *****

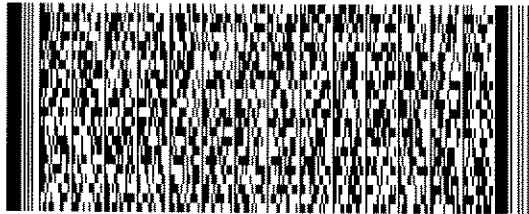
Delivery Address Bar Code



Ref # MSO #142636 - 20.0 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

TUE

TRK# **7981 9424 8862**

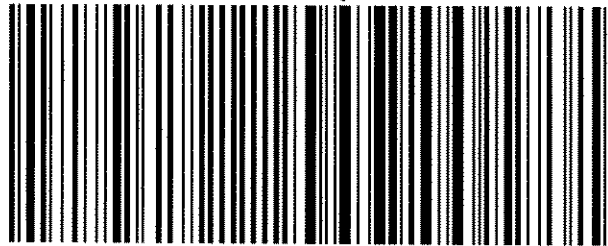
FORM 0201

Deliver By:
 12JUN07

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

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

Customer Code: KERRMCGEE-MP
 PO#: Susan Crowley PO
 Group#: 207230
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 06/12/07. 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
2706120382	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CR FE NO3 P PH TSS	Water	11-jun-2007 06:30:00
				CLO4 COLOR NH3-DIST NO2-N T-P TKN
2706120385	INFLUENT	CLO3 CLO4 NH3-DIST NO2-N T-P	Water	11-jun-2007 07:00:00
				CR NH3 NO3RFA P T

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
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 (B3-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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Report
Comments
#207230

Client Specific Comments

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

Client Signature: _____

Group Comments

(TKN) TKN Influent is less than ammonia due to signal suppression on TKN. This has been documented in previous analyses.

Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA California cert 04222CA y Pace Analytical Services, PA. Nevada Cert PA91-2004-77

(QC Ref#: 2706120335)

Test: Kjeldahl Nitrogen (ML/EPA 351.2)

SAMPLE DILUTED 5X AND SPIKED WITH 96% RECOVERY.



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Laboratory
Hits Report
#207230

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

Samples Received
12-jun-2007 15:05:24

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2706120332	EFFLUENT				
06/25/07		Radium 226	<0.385	3	pCi/l	0.39
06/25/07		Radium 226, Minimal Detectable	0.385		pCi/l	
06/25/07		Radium 226, Two Sigma Error	0.205		pCi/l	
06/27/07		Radium 228	1.46	5	pCi/l	0.48
06/27/07		Radium 228, Minimum Detectable	0.481		pCi/l	
06/27/07		Radium 228, Two Sigma Error	0.317		pCi/l	
06/20/07		Alpha, Gross	13	15	pCi/l	9.8
06/20/07		Alpha, Min Detectable Activity	9.81		pCi/l	
06/20/07		Alpha, Two Sigma Error	9.8		pCi/l	
06/20/07		Gross Alpha + adjusted error	21.2		pCi/l	
06/15/07		Ammonia Nitrogen	0.70		mg/l	0.050
06/12/07		Apparent Color	5	15	ACU	3.0
06/19/07		Iron, Total, ICAP	1.3	0.3	mg/l	0.040
06/14/07		Kjeldahl Nitrogen	2.3		mg/l	0.20
06/18/07		Metals digestion performed.	Y		Yes/No	
06/13/07		PH (H3=past HT, not compliant)	6.6	6.5-8.5	Units	0.010
06/21/07		Total Inorganic Nitrogen-Calc	0.70		mg/l	0.20
06/18/07		Total Suspended Solids (TSS)	11		mg/l	10
06/21/07		Total phosphorus as P	0.29		mg/l	0.020
	2706120335	INFLUENT				
06/15/07		Ammonia Nitrogen	5.6		mg/l	0.50
06/12/07		Apparent Color	10	15	ACU	3.0
06/14/07		Chlorate by IC	469000		ug/l	50000
06/13/07		Chromium, Total, ICAP	0.054		mg/l	0.020
06/12/07		Hexavalent chromium(Dissolved)	8.5		ug/l	0.10
06/14/07		Kjeldahl Nitrogen	3.0		mg/l	1.0
06/15/07		Nitrate + Nitrite as N by RFA	15.0	10	mg/l	0.50
06/12/07		Nitrate as Nitrogen by IC	17	10	mg/l	0.62

SUMMARY OF POSITIVE DATA ONLY.



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

Laboratory
 Hits Report
 #207230

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

Samples Received
 12-jun-2007 15:05:24

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2706120335	INFLUENT				
06/14/07	Perchlorate		259000		ug/l	20000
06/21/07	Total Inorganic Nitrogen-Calc		23		mg/l	10



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Laboratory
 Data Report
 #207230

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

Samples Received
 06/12/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
----------	----------	---------	--------	---------	--------	-------	-----	----------

EFFLUENT (2706120332)

Sampled on 06/11/07 06:30

06/15/07	09:23	372310	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
06/14/07	00:13	371946	(EPA 314)	Perchlorate	ND	ug/l	10	5
06/12/07	15:00	371752	(ML/SM2120B)	Apparent Color	5	ACU	3.0	1
06/19/07	16:28	372640	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
06/12/07	13:19	371966	(EPA 218.6)	Hexavalent chromium(Dissolved)	ND	ug/l	0.10	1
06/18/07	12:28		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
06/19/07	16:28	372642	(ML/EPA 200.7)	Iron, Total, ICAP	1.3	mg/l	0.040	2
06/21/07	14:58	373035	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	0.70	mg/l	0.20	50
06/15/07	15:20	372325	(ML/EPA 350.1)	Ammonia Nitrogen	0.70	mg/l	0.050	1
06/12/07	14:46	371782	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
06/12/07	14:46	371784	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
06/13/07	00:00	371924	(SM4500-HB)	PH (H3=past HT, not compliant)	6.6	Units	0.010	1
06/21/07	15:40	373197	(S4500PE/ 365.1)	Total phosphorus as P	0.29	mg/l	0.020	1
06/14/07	13:55	372009	(ML/EPA 351.2)	Kjeldahl Nitrogen	2.3	mg/l	0.20	1
06/18/07	10:30	372458	(SM 2540D)	Total Suspended Solids (TSS)	11	mg/l	10	1

Gross Alpha Radiation

06/20/07	00:00	373052	(ML/EPA 900.0)	Alpha, Gross	13	pCi/l	9.8	1
06/20/07	00:00	373052	(ML/EPA 900.0)	Gross Alpha + adjusted error	21.2	pCi/l	0	1
06/20/07	00:00	373052	(ML/EPA 900.0)	Alpha, Two Sigma Error	9.8	pCi/l	0	1
06/20/07	00:00	373052	(ML/EPA 900.0)	Alpha, Min Detectable Activity	9.81	pCi/l	0	1

Radium 226 (Sub)

06/25/07	00:00		(EPA 903.1)	Radium 226	<0.385	pCi/l	0.39	1
06/25/07	00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.205	pCi/l	0	1
06/25/07	00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.385	pCi/l	0	1

Radium 228 (Sub)

06/27/07	00:00		(EPA 904.0)	Radium 228	1.46	pCi/l	0.46	1
06/27/07	00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.317	pCi/l	0	1
06/27/07	00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.481	pCi/l	0	1



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Laboratory
 Data Report
 #207230

Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2706120335)				Sampled on 06/11/07 07:00				
	06/14/07 12:47	371980	(ML/EPA 300.0)	Chlorate by IC	469000	ug/l	50000	5000
	06/14/07 00:13	371946	(EPA 314)	Perchlorate	259000	ug/l	20000	5000
	06/12/07 15:00	371752	(ML/SM2120B)	Apparent Color	10	ACU	3.0	1
	06/13/07 14:32	371894	(ML/EPA 200.7)	Chromium, Total, ICAP	0.054	mg/l	0.020	2
	06/12/07 13:43	371966	(EPA 218.6)	Hexavalent chromium(Dissolved)	8.5	ug/l	0.10	1
	06/21/07 14:58	373035	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	23	mg/l	10	50
	06/15/07 15:20	372325	(ML/EPA 350.1)	Ammonia Nitrogen	5.6	mg/l	0.50	10
	06/12/07 14:33	371782	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	06/12/07 14:33	371784	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	17	mg/l	0.62	50
	06/15/07 00:00	372124	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	15.0	mg/l	0.50	10
	06/21/07 15:40	373197	(S4500PE/ 365.1)	Total phosphorus as P	ND	mg/l	0.020	1
	06/14/07 13:55	372009	(ML/EPA 351.2)	Kjeldahl Nitrogen	3.0	mg/l	1.0	5



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QC Summary
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Tronox LLC - Henderson

QC Ref #371752 - Apparent Color Analysis Date: 06/12/2007

2706120332	EFFLUENT	Analyzed by: sar
2706120335	INFLUENT	Analyzed by: sar

QC Ref #371782 - Nitrite, Nitrogen by IC Analysis Date: 06/12/2007

2706120332	EFFLUENT	Analyzed by: jkz
2706120335	INFLUENT	Analyzed by: jkz

QC Ref #371784 - Nitrate as Nitrogen by IC Analysis Date: 06/12/2007

2706120332	EFFLUENT	Analyzed by: jkz
2706120335	INFLUENT	Analyzed by: jkz

QC Ref #371894 - Chromium, Total, ICAP Analysis Date: 06/13/2007

2706120335	INFLUENT	Analyzed by: wbh
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QC Ref #371924 - PH (H3=past HT, not compliant) Analysis Date: 06/13/2007

2706120332	EFFLUENT	Analyzed by: dtn
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QC Ref #371946 - Perchlorate Analysis Date: 06/14/2007

2706120332	EFFLUENT	Analyzed by: raja
2706120335	INFLUENT	Analyzed by: raja

QC Ref #371966 - Hexavalent chromium(Dissolved) Analysis Date: 06/12/2007

2706120332	EFFLUENT	Analyzed by: tlh
2706120335	INFLUENT	Analyzed by: tlh



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#207230

Tronox LLC - Henderson
(continued)

QC Ref #371980 - Chlorate by IC	Analysis Date: 06/14/2007
2706120335 INFLUENT	Analyzed by: raja
QC Ref #372009 - Kjeldahl Nitrogen	Analysis Date: 06/14/2007
2706120332 EFFLUENT	Analyzed by: njr
2706120335 INFLUENT	Analyzed by: njr
QC Ref #372124 - Nitrate + Nitrite as N by RFA	Analysis Date: 06/15/2007
2706120335 INFLUENT	Analyzed by: lupe
QC Ref #372310 - Chlorate by IC	Analysis Date: 06/15/2007
2706120332 EFFLUENT	Analyzed by: raja
QC Ref #372325 - Ammonia Nitrogen	Analysis Date: 06/15/2007
2706120332 EFFLUENT	Analyzed by: njr
2706120335 INFLUENT	Analyzed by: njr
QC Ref #372458 - Total Suspended Solids (TSS)	Analysis Date: 06/18/2007
2706120332 EFFLUENT	Analyzed by: yvette
QC Ref #372640 - Chromium, Total, ICAP	Analysis Date: 06/19/2007
2706120332 EFFLUENT	Analyzed by: wbh



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Tronox LLC - Henderson
(continued)

QC Ref #372642 - Iron, Total, ICAP Analysis Date: 06/19/2007
2706120332 EFFLUENT Analyzed by: wbh

QC Ref #373035 - Total Inorganic Nitrogen-Calc Analysis Date: 06/21/2007
2706120332 EFFLUENT Analyzed by: dwr
2706120335 INFLUENT Analyzed by: dwr

QC Ref #373052 - Gross Alpha Radiation Analysis Date: 06/20/2007
2706120332 EFFLUENT Analyzed by: ajc

QC Ref #373197 - Total phosphorus as P Analysis Date: 06/21/2007
2706120332 EFFLUENT Analyzed by: njr
2706120335 INFLUENT Analyzed by: njr



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Tronox LLC - Henderson

QC Ref #371752 Apparent Color

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

QC Ref #371782 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06110194	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.08	MGL	108.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.08	MGL	108.0	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0607	MGL	121.4	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.570	MGL	114.0	(78-135)	
MSD	Nitrite, Nitrogen by IC	0.500	0.568	MGL	113.6	(78-135)	
RPD_LCS	Nitrite, Nitrogen by IC	108.000	108.000	MGL	0.0	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	114.000	113.600	MGL	0.4	(0-20)	

QC Ref #371784 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06110194	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0446	MGL	89.2	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.23	MGL	98.4	(80-112)	
MSD	Nitrate as Nitrogen by IC	1.25	1.23	MGL	98.4	(80-112)	
RPD_LCS	Nitrate as Nitrogen by IC	98.000	98.000	MGL	0.0	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	98.400	98.400	MGL	0.0	(0-20)	

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QC Report
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Tronox LLC - Henderson
(continued)

QC Ref #371894 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(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	1.03	MGL	103.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	

QC Ref #371924 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06110372	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	8.16	8.13	UNIT		(0-20)	0.4

QC Ref #371946 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06120329	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.4	UGL	97.6	(85-115)	
LCS2	Perchlorate	25.0	23.7	UGL	94.8	(85-115)	
LCS3	Perchlorate	4	4.13	UGL	103.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.7	UGL	98.8	(80-120)	
MSD	Perchlorate	25.0	24.3	UGL	97.2	(80-120)	
RPD_LCS	Perchlorate	97.600	94.800	UGL	2.9	(0-15)	
RPD_MS	Perchlorate	98.800	97.200	UGL	1.0	(0-15)	

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#207230

Tronox LLC - Henderson
(continued)

QC Ref #371966 Hexavalent chromium(Dissolved)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06120332	UGL		(0-0)	
LCS1	Hexavalent chromium(Dissolved)	2.0	2.06	UGL	103.0	(90-110)	
LCS2	Hexavalent chromium(Dissolved)	2.0	2.01	UGL	100.5	(90-110)	
MBLK	Hexavalent chromium(Dissolved)	ND	<0.10	UGL			
MRL_CHK	Hexavalent chromium(Dissolved)	0.100	0.090	UGL	90.0	(50-150)	
MS	Hexavalent chromium(Dissolved)	2.0	2.17	UGL	108.5	(90-110)	
MSD	Hexavalent chromium(Dissolved)	2.0	2.14	UGL	107.0	(90-110)	
RPD_LCS	Hexavalent chromium(Dissolved)	103.000	100.500	UGL	2.5	(0-20)	
RPD_MS	Hexavalent chromium(Dissolved)	108.500	107.000	UGL	1.4	(0-20)	

QC Ref #371980 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06120234	UGL		(0-0)	
LCS1	Chlorate by IC	200	197	UGL	98.5	(90-110)	
LCS2	Chlorate by IC	200	195	UGL	97.5	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	11.5	UGL	115.0	(50-150)	
MS	Chlorate by IC	100	95.7	UGL	95.7	(75-125)	
MSD	Chlorate by IC	100	97.2	UGL	97.2	(75-125)	
RPD_LCS	Chlorate by IC	98.500	97.500	UGL	1.0	(0-20)	
RPD_MS	Chlorate by IC	95.700	97.200	UGL	1.6	(0-20)	

QC Ref #372009 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06070223	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.83	MGL	95.8	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.39	MGL	97.2	(90-110)	

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#207230

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MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL		
MRL_CHK	Kjeldahl Nitrogen	0.1	0.129	MGL	129.0	(50-150)
MS	Kjeldahl Nitrogen	4	3.90	MGL	97.5	(90-110)
MSD	Kjeldahl Nitrogen	4	3.79	MGL	94.8	(90-110)
MS_2ND	Kjeldahl Nitrogen	4	3.95	MGL	98.8	(90-110)
RPD_LCS	Kjeldahl Nitrogen	95.750	97.250	MGL	1.6	(0-20)
RPD_MS	Kjeldahl Nitrogen	97.500	94.750	MGL	2.9	(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)	

QC Ref #372310 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06120243	UGL		(0-0)	
LCS1	Chlorate by IC	200	199	UGL	99.5	(90-110)	
LCS2	Chlorate by IC	200	194	UGL	97.0	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	10.8	UGL	108.0	(50-150)	
MS	Chlorate by IC	100	92.2	UGL	92.2	(75-125)	
MSD	Chlorate by IC	100	90.1	UGL	90.1	(75-125)	
RPD_LCS	Chlorate by IC	99.500	97.000	UGL	2.5	(0-20)	
RPD_MS	Chlorate by IC	92.200	90.100	UGL	2.3	(0-20)	

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QC Report
#207230

Tronox LLC - Henderson
(continued)

QC Ref #372325

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	06110001	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	0.999	MGL	99.9	(90-110)	
LCS2	Ammonia Nitrogen	1.00	0.991	MGL	99.1	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MRL_CHK	Ammonia Nitrogen	0.05	0.040	MGL	80.0	(50-150)	
MS	Ammonia Nitrogen	1.00	1.01	MGL	101.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.975	MGL	97.5	(90-110)	
MS_2ND	Ammonia Nitrogen	1	1.09	MGL	109.0	(90-110)	
RPD_LCS	Ammonia Nitrogen	99.900	99.100	MGL	0.8	(0-20)	
RPD_MS	Ammonia Nitrogen	101.000	97.500	MGL	3.5	(0-20)	

QC Ref #372458

Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06150340	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	178	MGL	101.7	(71-107)	
LCS2	Total Suspended Solids (TSS)	175	156	MGL	89.1	(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 #372640

Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.010	MGL	100.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	

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QC Report
#207230

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(continued)

MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)
MSD2	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)

QC Ref #372642 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	5.25	MGL	105.0	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.16	MGL	103.2	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0194	MGL	97.0	(50-150)	
MS	Iron, Total, ICAP	5.0	5.19	MGL	103.8	(70-130)	
MS2	Iron, Total, ICAP	5.0	5.19	MGL	103.8	(70-130)	
MSD	Iron, Total, ICAP	5.0	5.19	MGL	103.8	(70-130)	
MSD2	Iron, Total, ICAP	5.0	5.12	MGL	102.4	(70-130)	
RPD_LCS	Iron, Total, ICAP	105.000	103.200	MGL	1.7	(0-20)	
RPD_MS	Iron, Total, ICAP	103.800	103.800	MGL	0.0	(0-20)	

QC Ref #373052 Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	06130161	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	16.1	PCIL	97.0	(80-120)	
LCS2	Alpha, Gross	16.6	16.0	PCIL	96.4	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	33.6	PCIL	101.2	(70-130)	
RPD_LCS	Alpha, Gross	96.988	96.386	PCIL	0.6	(0-20)	
DUP	Beta, Gross	ND	ND	PCIL		(0-20)	
LCS1	Beta, Gross	15.7	17.8	PCIL	113.4	(80-120)	
LCS2	Beta, Gross	15.7	15.4	PCIL	98.1	(80-120)	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	30.9	PCIL	98.4	(70-130)	
RPD_LCS	Beta, Gross	113.376	98.089	PCIL	14.5	(0-20)	

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(continued)

QC Ref #373197

Total phosphorus as P

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

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Kennecott-mj

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June 29, 2007

Ms. Elena Montanez
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Drinking Water Characterization; Purchase Order No. 99-28395
207230 NV DW, Ra-226/228; NV Cert PA01458 Expires 05/31/07;
MWH Laboratories
Pace Project No. 07-3185

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 14, 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:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-3185

CLIENT: Purchase Order Number: 99-28395

B: SAMPLE IDENTIFICATIONS:

PACE: 0706-0856

CLIENT: 2706120332

C: SHIPPING/RECEIVING COMMENTS:

Final Report 6/29/07.

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. 07-3185

Drinking Water Characterization; 207230 NV DW, Ra-226/228

Charge Order No. 99-28395; NV Cert PA01458 Expires 05/31/07

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act ± Unc	(MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	06/25/07	0.105 ± 0.205	(0.385)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	06/27/07	1.46 ± 0.317	(0.481)

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

0000004

Table 1
(Continued)

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act ± Unc (MDC)	Method Blank (6/14/07)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	06/25/07	0.164 ± 0.239	(0.401)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	06/26/07	0.761 ± 0.235	(0.379)

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

0000005

Quality Control Sample Performance Assessment



PACE Analytical Services, Inc.

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: OLB
Date: 6/19/2007
Worklist: 14792
Matrix: DW

Method Blank Assessment

MB Sample ID: MB14792
 MB concentration: 0.761
 M/B Counting Uncertainty: 0.235
 MB MDC: 0.379
 MB Numerical Performance Indicator: 6.35
 MB Status vs Numerical Indicator: N/A
 MB Status vs. MDC: See Comment*

Laboratory Control Sample Assessment

Count Date:	LCSD (Y or N)?	Y
6/26/2007	LCSD14792	
06-009	06-009	
Spike Concentration (pCi/mL):	67.504	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.800	
Target Conc. (pCi/L, g, F):	8.438	
Uncertainty (Calculated):	0.262	
Result (pCi/L, g, F):	5.535	
Numerical Performance Indicator:	0.620	
Percent Recovery:	-8.45	
Status vs Numerical Indicator:	65.60%	N/A
Status vs Recovery:	60.81%	Pass

Duplicate Sample Assessment

Sample I.D.:	LCSD14792	Y
Duplicate Sample I.D.:	LCSD14792	
Sample Result Counting Uncertainty (pCi/L, g, F):	5.535	
Sample Duplicate Result (pCi/L, g, F):	0.620	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	5.131	
Are sample and/or duplicate results below MDC?	0.497	
Duplicate Numerical Performance Indicator:	NO	
Duplicate RPD:	0.997	
Duplicate Status vs Numerical Indicator:	7.58%	N/A
Duplicate Status vs RPD:	Pass	Pass

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.

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.

Oliver J.M. Connor for RMX

Sample Matrix Spike Control Assessment

Sample Collection Date: 6/14/2007
 Sample I.D.: 0706-0893B
 Sample MS I.D.: 0706-0893BMS
 Sample MSD I.D.: 06-009
 Spike I.D.: 67.785
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 0.20
 Spike Volume Used in MS (mL): 0.800
 MS Aliquot (L, g, F): 16.946
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/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:
 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 Matrix Spike Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 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-226
Analyst: CMC
Date: 6/18/2007
Worklist: 14774
Matrix: DW

Method Blank Assessment

MB Sample ID: MB14774
MB Concentration: 0.164
MB Counting Uncertainty: 0.239
MB MDC: 0.401
MB Numerical Performance Indicator: 11.01
MB Status vs Numerical Indicator: **N/A**
MB Status vs. MDC: **Pass**

Laboratory Control Sample Assessment

LCS (Y or N)?	Y	N
LCS14774	6/25/2007	06-005
Count Date:	6/25/2007	06-005
Spike I.D.:	57.277	57.277
Spike Concentration (pCi/mL):	0.10	0.10
Volume Used (mL):	0.500	0.500
Aliquot Volume (L, g, F):	11.455	11.455
Target Conc. (pCi/L, g, F):	0.275	0.275
Uncertainty (Calculated):	12.226	12.226
Result (pCi/L, g, F):	1.481	1.547
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	-1.897	0.96
Numerical Performance Indicator:	88.84%	106.73%
Status vs Numerical Indicator:	N/A	Pass
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS14774
Duplicate Sample I.D.: LCS14774
Sample Result (pCi/L, g, F): 10.154
Duplicate Result (pCi/L, g, F): 1.481
Sample Result Counting Uncertainty (pCi/L, g, F): 12.226
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 1.547
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: -1.897
Duplicate RPD: 18.52%
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:

*****If 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.**

Chela J.A. Omas for Rmk

Sample Matrix Spike Control Assessment

Sample Collection Date: 5/28/2007
Sample I.D.: 0706-0841
Sample MS I.D.: 0706-0841MS
Sample MSD I.D.: 06-005
Spike I.D.: 57.279
MS/MSD 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):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated): 0.550
Sample Result Counting Uncertainty (pCi/L, g, F): 0.351
Sample Matrix Spike Result: 0.295
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 16.248
Sample Matrix Spike Duplicate Result: 1.812
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): -7.175
MS Numerical Performance Indicator: 69.39%
MSD Numerical Performance Indicator: N/A
MSD Percent Recovery: N/A
MSD Percent Recovery: N/A
MS Status vs Numerical Indicator: MS Low***
MSD Status vs Numerical Indicator: MS Low***
MS Status vs Recovery: MS Low***
MSD Status vs Recovery: MS Low***

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:



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Ship To: **Mike Schnupp**

Pace Analytical - Waltz Mill

c/o Westinghouse Waltz Mill Site
170 Madison Exit
Madison, PA 15663

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

MWH Project # **207230** Report Due: **07/05/07** Sub PO# **99-28395**

nci
Use MWH Lab # for lab

Client Sample ID for reference only

Container

Lab #	Analysis Requested	Sample Date & Time	Matrix
1 @R226ED	Radioactivity, Radium 226 Sub-contracted	06/11/07 06:30	dw
2 @R228ED	Radioactivity, Radium 228 Sub-contracted		

0706 ~ 0856
mB - 0857

1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION'S
2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION'S

Date **06/13/07** Submittal Form & Purchase Order **99-28395**

*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers! Report & Invoice must have the MWH Project Number **207230** Sub PO# **99-28395** 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

07-3185

Reports: Elena Montanez / Christine Lewis Sub-contracting Administrator
EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com
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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

Relinquished by: *[Signature]* Date **6/13/07** Time **13:34** Sample Control **MB-0857** MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS Page 1

Received by: *[Signature]* Date **6/13/07** Time **13:34** An Acknowledgement of Receipt is requested to attn: Christine Lewis