



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 386 1100
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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

DATE OF ISSUE
Jul 02 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



01114CA

Report#: 271854

Project: CLO4

PO#: Susan Crowle

This report shall not be reproduced except in full, without the written approval of the laboratory.

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].



MWH

BUILDING A BETTER WORLD

July 2, 2009

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

Subject: Case Narrative report 271854

Sample receipt: The samples arrived at MWH on June 11, 2009, with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:

For the MWH Laboratories data the following issues were observed:
For phenolics, the blank spikes were recovered low, however the matrix spike and the reporting level check spikes were acceptable. No phenol was detected in samples.

Note that for ion chromatography tests such as perchlorate, the exact analysis time is not shown on the report. Only the date of analysis appears. The time normally defaults to 00:00.

If you have any questions, do not hesitate to contact us.

Sincerely yours,

Andrew Eaton, PhD
Project Manager

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#: 271854
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **06/11/09**. 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
2906110134	M-6A	CL9056 CLO4 NA6010 P TDS TOC9060	Water CR6010 EC9050 PH9040 PHENOL	10-jun-2009 09:54:00 FE6010 MN6010 SO49056 T
2906110143	M-6A	EC9050 PH9040	Water TOC9060 TOX	10-jun-2009 09:54:00
2906110145	M-6A	EC9050 PH9040	Water TOC9060 TOX	10-jun-2009 09:54:00
2906110146	M-6A	EC9050 PH9040	Water TOC9060 TOX	10-jun-2009 09:54:00
2906110150	M-6A	EC9050 PH9040	Water TOC9060 TOX	10-jun-2009 09:54:00

Test Acronym Description

Test Acronym	Description
CL9056	Chloride
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
EC9050	Specific Conductance
FE6010	Iron, Total, ICAP
MN6010	Manganese, Total, ICAP
NA6010	Sodium, Total, ICAP
P	Metals sample pH
PH9040	PH (H3=past HT, not compliant)
PHENOL	Phenolic Compounds
SO49056	Sulfate
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)
TOC9060	Total Organic Carbon
TOX	Total Organic Halogen



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Report
Comments
#271854

Client Specific Comments

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

Signature: _____

(QC Ref#: 2906110134)

Test: Phenolic Compounds (MWH 420/SW9066)

L4 - The associated blank spike recovery was below method acceptance limits.



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Laboratory
Hits Report
#271854

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

Samples Received
11-jun-2009 11:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906110134	M-6A				
06/18/09	Chloride		2900		mg/l	100
06/30/09	Iron, Total, ICAP		0.11		mg/l	0.040
06/29/09	Metals digestion performed.		Y		Yes/No	
06/11/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
06/27/09	Perchlorate		21400		ug/l	2000
06/30/09	Sodium, Total, ICAP		1300		mg/l	20
06/12/09	Specific Conductance		10200		umho/cm	2.0
06/18/09	Sulfate		1200		mg/l	50
06/13/09	Total Dissolved Solid (TDS)		5600	500	mg/l	10
06/17/09	Total Organic Carbon		0.79		mg/l	0.30
06/24/09	Total Organic Halogen		930		ug/l	250
	2906110143	M-6A				
06/11/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
06/12/09	Specific Conductance		10100		umho/cm	2.0
06/17/09	Total Organic Carbon		0.78		mg/l	0.30
06/24/09	Total Organic Halogen		961		ug/l	250
	2906110145	M-6A				
06/11/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
06/12/09	Specific Conductance		10300		umho/cm	2.0
06/17/09	Total Organic Carbon		0.78		mg/l	0.30
06/24/09	Total Organic Halogen		951		ug/l	500
	2906110146	M-6A				
06/11/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
06/12/09	Specific Conductance		10300		umho/cm	2.0

SUMMARY OF POSITIVE DATA ONLY.



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Hits Report
#271854

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

Samples Received
11-jun-2009 11:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906110146	M-6A				
06/17/09	Total Organic Carbon		0.78		mg/l	0.30
06/24/09	Total Organic Halogen		1030		ug/l	500



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Laboratory
Data Report
#271854

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

Samples Received
06/11/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-6A (2906110134)				Sampled on 06/10/09 09:54				
	06/18/09 17:57	488383	(ML/EPA 9056)	Chloride	2900	mg/l	100	100
	06/27/09 16:45	489148	(EPA 314)	Perchlorate	21400	ug/l	2000	500
06/29/09	06/30/09 00:00	489156	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	06/29/09 00:00		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	06/12/09 18:48	487832	(ML/EPA 9050A)	Specific Conductance	10200	umho/cm	2.0	1
06/29/09	06/30/09 00:00	489173	(ML/EPA 6010B)	Iron, Total, ICAP	0.11	mg/l	0.040	2
06/29/09	06/30/09 00:00	489158	(ML/EPA 6010B)	Manganese, Total, ICAP	ND	mg/l	0.0040	2
06/29/09	06/30/09 00:00	489180	(ML/EPA 6010B)	Sodium, Total, ICAP	1300	mg/l	20	20
	06/11/09 15:11	487838	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
06/22/09	06/23/09 16:30	489035	(MWH 420/SW9066)	Phenolic Compounds	ND(L4)	mg/l	0.010	1
	06/18/09 17:57	488384	(ML/EPA 9056)	Sulfate	1200	mg/l	50	100
06/13/09	06/13/09 11:05	487962	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5600	mg/l	10	1
	06/17/09 08:10	488249	(ML/EPA 9060)	Total Organic Carbon	0.79	mg/l	0.30	1
	06/24/09 07:33	488768	(SW9020/SM5320)	Total Organic Halogen	930	ug/l	250	25
M-6A (2906110143)				Sampled on 06/10/09 09:54				
	06/12/09 18:48	487832	(ML/EPA 9050A)	Specific Conductance	10100	umho/cm	2.0	1
	06/11/09 15:11	487838	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
	06/17/09 08:10	488249	(ML/EPA 9060)	Total Organic Carbon	0.78	mg/l	0.30	1
	06/24/09 07:33	488768	(SW9020/SM5320)	Total Organic Halogen	961	ug/l	250	25
M-6A (2906110145)				Sampled on 06/10/09 09:54				
	06/12/09 18:48	487832	(ML/EPA 9050A)	Specific Conductance	10300	umho/cm	2.0	1
	06/11/09 15:11	487838	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
	06/17/09 08:10	488249	(ML/EPA 9060)	Total Organic Carbon	0.78	mg/l	0.30	1
	06/24/09 07:33	488768	(SW9020/SM5320)	Total Organic Halogen	951	ug/l	500	50



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Laboratory
 Data Report
 #271854

Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-6A (2906110146)				Sampled on 06/10/09 09:54				
	06/12/09 18:48	487832	(ML/EPA 9050A)	Specific Conductance	10300	umho/cm	2.0	1
	06/11/09 15:11	487838	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
	06/17/09 08:10	488249	(ML/EPA 9060)	Total Organic Carbon	0.78	mg/l	0.30	1
	06/24/09 07:33	488768	(SW9020/SM5320)	Total Organic Halogen	1030	ug/l	500	50



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Laboratory
QC Summary
#271854

Tronox LLC - Henderson

QC Ref #487832 - Specific Conductance

Analysis Date: 06/12/2009

2906110134	M-6A	Analyzed by: nem
2906110143	M-6A	Analyzed by: nem
2906110145	M-6A	Analyzed by: nem
2906110146	M-6A	Analyzed by: nem

QC Ref #487838 - PH (H3=past HT, not compliant) Analysis Date: 06/11/2009

2906110134	M-6A	Analyzed by: nem
2906110143	M-6A	Analyzed by: nem
2906110145	M-6A	Analyzed by: nem
2906110146	M-6A	Analyzed by: nem

QC Ref #487962 - Total Dissolved Solid (TDS)

Analysis Date: 06/13/2009

2906110134	M-6A	Analyzed by: axd
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QC Ref #488249 - Total Organic Carbon

Analysis Date: 06/17/2009

2906110134	M-6A	Analyzed by: kxs
2906110143	M-6A	Analyzed by: kxs
2906110145	M-6A	Analyzed by: kxs
2906110146	M-6A	Analyzed by: kxs

QC Ref #488383 - Chloride

Analysis Date: 06/18/2009

2906110134	M-6A	Analyzed by: sxk
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QC Ref #488384 - Sulfate

Analysis Date: 06/18/2009

2906110134	M-6A	Analyzed by: sxk
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QC Ref #488768 - Total Organic Halogen

Analysis Date: 06/24/2009

2906110134	M-6A	Analyzed by: kxs
2906110143	M-6A	Analyzed by: kxs
2906110145	M-6A	Analyzed by: kxs
2906110146	M-6A	Analyzed by: kxs



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QC Summary
#271854

Tronox LLC - Henderson
(continued)

QC Ref #489035 - Phenolic Compounds

2906110134 M-6A

Analysis Date: 06/23/2009

Analyzed by: azs

QC Ref #489148 - Perchlorate

2906110134 M-6A

Analysis Date: 06/27/2009

Analyzed by: ser

QC Ref #489156 - Chromium, Total, ICAP

2906110134 M-6A

Analysis Date: 06/30/2009

Analyzed by: csk

QC Ref #489158 - Manganese, Total, ICAP

2906110134 M-6A

Analysis Date: 06/30/2009

Analyzed by: csk

QC Ref #489173 - Iron, Total, ICAP

2906110134 M-6A

Analysis Date: 06/30/2009

Analyzed by: csk

QC Ref #489180 - Sodium, Total, ICAP

2906110134 M-6A

Analysis Date: 06/30/2009

Analyzed by: csk



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QC Report
#271854

Tronox LLC - Henderson

QC Ref #487832 Specific Conductance

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance	106	105	UMHO		(0-20)	0.9
MRL_CHK	Specific Conductance	2.000	1.96	UMHO	98.0	(50-150)	

QC Ref #487838 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.47	7.47	UNIT		(0-20)	0.0

QC Ref #487962 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06110059	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	7700	7700	MGL		(0-10)	0.0
LCS1	Total Dissolved Solid (TDS)	175	162	MGL	92.6	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	654	MGL	93.4	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	7.0	MGL	70.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	92.571	93.429	MGL	0.9	(0-20)	

QC Ref #488249 Total Organic Carbon

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200906090530		MGL		(0-0)	
LCS1	Total Organic Carbon	5.0	4.98	MGL	99.6	(50-150)	
LCS2	Total Organic Carbon	5.0	5.04	MGL	100.8	(90-110)	
MBLK	Total Organic Carbon	ND	<0.30	MGL			
MRL_CHK	Total Organic Carbon	0.200	0.231	MGL	115.5	(50-150)	
MS	Total Organic Carbon	4.0	3.73	MGL	93.2	(80-120)	
MSD	Total Organic Carbon	4.0	3.98	MGL	99.5	(80-120)	
RPD_LCS	Total Organic Carbon	99.600	100.800	MGL	1.2	(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.



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Laboratory
 QC Report
 #271854

Tronox LLC - Henderson
 (continued)

RPD_MS Total Organic Carbon 93.250 99.500 MGL 6.5 (0-20)

QC Ref #488383 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200906190068	MGL		(0-0)	
LCS1	Chloride	25	24.5	MGL	98.0	(90-110)	
LCS2	Chloride	25	24.5	MGL	98.0	(90-110)	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.391	MGL	78.2	(50-150)	
MS	Chloride	12.5	11.3	MGL	90.4	(74-138)	
MSD	Chloride	12.5	11.3	MGL	90.4	(74-138)	
RPD_LCS	Chloride	98.000	98.000	MGL	0.0	(0-20)	
RPD_MS	Chloride	90.400	90.400	MGL	0.0	(0-20)	

QC Ref #488384 Sulfate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200906190068	MGL		(0-0)	
LCS1	Sulfate	50	48.7	MGL	97.4	(90-110)	
LCS2	Sulfate	50	48.7	MGL	97.4	(90-110)	
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	0.500	0.259	MGL	51.8	(50-150)	
MS	Sulfate	25	27.0	MGL	108.0	(84-130)	
MSD	Sulfate	25	27.2	MGL	108.8	(84-130)	
RPD_LCS	Sulfate	97.400	97.400	MGL	0.0	(0-20)	
RPD_MS	Sulfate	108.000	108.800	MGL	0.7	(0-20)	

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Laboratory
QC Report
#271854

Tronox LLC - Henderson
(continued)

QC Ref #488768

Total Organic Halogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Organic Halogen	10	9.91	UGL	99.1	(85-115)	
LCS2	Total Organic Halogen	200	184	UGL	92.0	(85-115)	
MBLK	Total Organic Halogen	ND	<10	UGL			
MS	Total Organic Halogen	100	96.8	UGL	96.8	(90-110)	
MSD	Total Organic Halogen	100	93.2	UGL	93.2	(90-110)	

QC Ref #489035

Phenolic Compounds

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06050137	MGL		(0-0)	
LCS1	Phenolic Compounds	0.08	0.046	MGL	<u>57.5</u>	(90-110)	
LCS2	Phenolic Compounds	0.08	0.070	MGL	<u>87.5</u>	(90-110)	
MBLK	Phenolic Compounds	ND	<0.010	MGL			
MRI_CHK	Phenolic Compounds	0.010	0.0074	MGL	74.0	(50-150)	
MS	Phenolic Compounds	0.08	0.079	MGL	98.8	(90-110)	
MSD	Phenolic Compounds	0.08	0.078	MGL	97.5	(90-110)	

QC Ref #489148

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06240295	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.4	UGL	97.6	(85-115)	
LCS2	Perchlorate	25.0	24.2	UGL	96.8	(85-115)	
LCS3	Perchlorate	4	4.18	UGL	104.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.1	UGL	92.4	(80-120)	
MSD	Perchlorate	25.0	23.3	UGL	93.2	(80-120)	
RPD_LCS	Perchlorate	97.600	96.800	UGL	0.8	(0-15)	
RPD_MS	Perchlorate	92.400	93.200	UGL	1.0	(0-15)	

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 #271854

Tronox LLC - Henderson
 (continued)

QC Ref #489156 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0104	MGL	104.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.996	MGL	99.6	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.984	MGL	98.4	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.970	MGL	97.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.004	MGL	100.4	(70-130)	

QC Ref #489158 Manganese, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		(0-0)	
LCS1	Manganese, Total, ICAP	0.50	0.515	MGL	103.0	(85-115)	
LCS2	Manganese, Total, ICAP	0.50	0.532	MGL	106.4	(85-115)	
MBLK	Manganese, Total, ICAP	ND	<0.0020	MGL			
MRL_CHK	Manganese, Total, ICAP	0.002	0.0022	MGL	110.0	(50-150)	
MS	Manganese, Total, ICAP	0.50	0.507	MGL	101.4	(70-130)	
MSD	Manganese, Total, ICAP	0.50	0.495	MGL	99.0	(70-130)	

QC Ref #489173 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		(0-0)	
LCS1	Iron, Total, ICAP	5.0	5.09	MGL	101.8	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.14	MGL	102.8	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0205	MGL	102.5	(50-150)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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 are advisory only, unless otherwise specified in the method.



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Laboratory
 QC Report
 #271854

Tronox LLC - Henderson
 (continued)

MS	Iron, Total, ICAP	5.0	4.98	MGL	99.6	(70-130)
MSD	Iron, Total, ICAP	5.0	4.86	MGL	97.2	(70-130)

QC Ref #489180 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		(0-0)	
LCS1	Sodium, Total, ICAP	50	49.6	MGL	99.2	(85-115)	
LCS2	Sodium, Total, ICAP	50	52.0	MGL	104.0	(85-115)	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Sodium, Total, ICAP	1.000	0.992	MGL	99.2	(50-150)	
MS	Sodium, Total, ICAP	50	50.5	MGL	101.0	(70-130)	
MSD	Sodium, Total, ICAP	50	46.4	MGL	92.8	(70-130)	
RPD_LCS	Sodium, Total, ICAP	99.200	104.000	MGL	4.7	(0-20)	
RPD_MS	Sodium, Total, ICAP	101.000	92.800	MGL	8.5	(0-20)	

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