

PERFORMANCE EVALUATION



Scheduled Study

WS16-4

28-Sep-2016 Through 11-Nov-2016

49670108

RTC Labcode

MT00945

EPA Labcode

Participating Laboratory:

Energy Laboratories-Helena
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Thank you for participating in study WS16-4. Additional information about this study may be found online at www.sigmaaldrich.com/pt.

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Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Duhon".

Jennifer Duhon
Proficiency Testing Supervisor

Accreditors

Evaluations of this dataset will be sent to the accreditor(s) listed below using your laboratory's labcode listed above each accrediting agency. If any of the information listed below is incorrect, please contact RTC immediately.

Accredating Labcode

EPA Region 8

Marcie Tidd
Waste Water/Drinking Water Certification
1595 Wynkoop Street
Denver CO 80202-1129 US

Accredating Labcode

Montana Dept. of Public Health & Human Services

Russell Leu
PO Box 4369
Helena MT 59604-4369 US

RTC is accredited to perform PT programs for the scope of accreditation to ISO/IEC 17043 under ANAB certificate AP-1469



Inorganic Disinfection By-Products

Method:EPA 300.0 2.1 (1993) [10053200]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Bromate ^{1,2} 1535 / PE3306-500ML - Lot LRAB2522 /Analyst:SW/ Analysis Date: 2016-11-01	44 ug/L	42.9	30 to 55.8	0.17	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Bromide ^{1,2} 1540 / PE3306-500ML - Lot LRAB2522 /Analyst:SW/ Analysis Date: 2016-11-01	273 ug/L	258	219 to 296	0.78	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Chlorate ^{1,2} 1570 / PE3306-500ML - Lot LRAB2522 /Analyst:SW/ Analysis Date: 2016-11-01	177 ug/L	157	110 to 204	0.85	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Chlorite ^{1,2} 1595 / PE3306-500ML - Lot LRAB2522 /Analyst:SW/ Analysis Date: 2016-11-01	752 ug/L	760	532 to 988	-0.07	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>

Method:EPA 300.1 (2000) [10053608]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Bromate ^{1,2} 1535 / PE3306-500ML - Lot LRAB2522 /Analyst:SW/ Analysis Date: 2016-10-31	40 ug/L	42.9	30 to 55.8	-0.45	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Chlorate ^{1,2} 1570 / PE3306-500ML - Lot LRAB2522 /Analyst:SW/ Analysis Date: 2016-10-31	173 ug/L	157	110 to 204	0.68	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Chlorite ^{1,2} 1595 / PE3306-500ML - Lot LRAB2522 /Analyst:SW/ Analysis Date: 2016-10-31	748 ug/L	760	532 to 988	-0.11	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>

Microbiology

Method: EPA 1603 (2006) [10236109]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Fecal Coliforms - Sample 01 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	435 CFU/100mL	652	265 to 1040	-1.12	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			
Fecal Coliforms - Sample 02 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:2</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Fecal Coliforms - Sample 03 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	405 CFU/100mL	652	265 to 1040	-1.27	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			
Fecal Coliforms - Sample 04 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	385 CFU/100mL	652	265 to 1040	-1.38	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			
Fecal Coliforms - Sample 05 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:2</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Fecal Coliforms - Sample 06 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:2</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Fecal Coliforms - Sample 07 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:2</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Fecal Coliforms - Sample 08 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:2</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Fecal Coliforms - Sample 09 ^{1,2} 2530 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:2</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			

Method: EPA 1603 (2006) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Fecal Coliforms - Sample 10 ^{1,2} 2530 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 01 ^{1,2} 2525 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	465 CFU/100mL	652	265 to 1040	-0.96	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
E. Coli - Sample 02 ^{1,2} 2525 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 03 ^{1,2} 2525 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	455 CFU/100mL	652	265 to 1040	-1.02	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
E. Coli - Sample 04 ^{1,2} 2525 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	555 CFU/100mL	652	265 to 1040	-0.5	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
E. Coli - Sample 05 ^{1,2} 2525 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 06 ^{1,2} 2525 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 07 ^{1,2} 2525 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 08 ^{1,2} 2525 / MIC001-CFU - Lot LRAM2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>

Method:EPA 1603 (2006) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
E. Coli - Sample 09 ^{1,2} 2525 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 10 ^{1,2} 2525 / MIC001-CFU - Lot LRAB2123 /Analyst:TB/ Analysis Date: 2016-11-03	<5 CFU/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>

Method:SM 9223 B (Colilert® Quanti-Tray®) 21st ED (1997) [20211409]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Coliforms, total - Sample 01 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	821.2 MPN/100mL	652	58 to 1250	0.85	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:198</i>
Coliforms, total - Sample 02 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	51.2 MPN/100mL	41.6	14.2 to 69	0.7	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:13.7</i>
Coliforms, total - Sample 04 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	922.2 MPN/100mL	652	265 to 1040	1.39	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
Coliforms, total - Sample 03 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	774.6 MPN/100mL	652	265 to 1040	0.63	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
Coliforms, total - Sample 05 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>

Coliforms, total - Sample 06 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable
	Evaluation Criteria - 5 <input type="checkbox"/> Voluntary		Evaluation Parameter - deviations:2		
Coliforms, total - Sample 07 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	26.2 MPN/100mL	41.9	14.5 to 69.3	-1.15	Acceptable
	Evaluation Criteria - 8 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:1, b:0, c:0, d:13.7		
Coliforms, total - Sample 08 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable
	Evaluation Criteria - 5 <input type="checkbox"/> Voluntary		Evaluation Parameter - deviations:2		
Coliforms, total - Sample 09 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	37.0 MPN/100mL	41.9	14.5 to 69.3	-0.36	Acceptable
	Evaluation Criteria - 8 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:1, b:0, c:0, d:13.7		

Method:SM 9223 B (Colilert® Quanti-Tray®) 21st ED (1997) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Coliforms, total - Sample 10 ^{1,2} 2500 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 01 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	821.2 MPN/100mL	652	265 to 1040	0.87	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
E. Coli - Sample 02 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 03 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	774.6 MPN/100mL	652	265 to 1040	0.63	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
E. Coli - Sample 04 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	922.2 MPN/100mL	652	265 to 1040	1.39	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:193.6</i>
E. Coli - Sample 05 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 06 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 07 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 08 ^{1,2}	<2 MPN/100mL	0	0 to 0	0	Acceptable

2525 / MIC001-MPN - Lot LRAB2123
/Analyst:AC/ Analysis Date: 2016-11-03

Evaluation Criteria - 5
 Voluntary

Evaluation Parameter - deviations:2

Method:SM 9223 B (Colilert® Quanti-Tray®) 21st ED (1997) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
E. Coli - Sample 09 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>
E. Coli - Sample 10 ^{1,2} 2525 / MIC001-MPN - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	<2 MPN/100mL	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:2</i>

Method:SM 9223 B (Colilert®) 22nd ED (2004) [20212413]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Coliforms, total - Sample 01 ^{1,2} 2500 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	1 Units	1	1 to 1	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
Coliforms, total - Sample 02 ^{1,2} 2500 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	1 Units	1	1 to 1	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
Coliforms, total - Sample 04 ^{1,2} 2500 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	1 Units	1	1 to 1	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
Coliforms, total - Sample 03 ^{1,2} 2500 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	1 Units	1	1 to 1	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
Coliforms, total - Sample 05 ^{1,2} 2500 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
Coliforms, total - Sample 06 ^{1,2} 2500 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
Coliforms, total - Sample 07 ^{1,2}	1 Units	1	1 to 1	0	Acceptable

2500 / MIC001-PA - Lot LRAB2123
 /Analyst:AC/ Analysis Date: 2016-11-03

Evaluation Criteria - 8
 Voluntary

Evaluation Parameter - a:1, b:0, c:0, d:0

Coliforms, total - Sample 08^{1,2}

0 Units 0 0 to 0

0 Acceptable

2500 / MIC001-PA - Lot LRAB2123
 /Analyst:AC/ Analysis Date: 2016-11-03

Evaluation Criteria - 8
 Voluntary

Evaluation Parameter - a:1, b:0, c:0, d:0

Coliforms, total - Sample 09^{1,2}

1 Units 1 1 to 1

0 Acceptable

2500 / MIC001-PA - Lot LRAB2123
 /Analyst:AC/ Analysis Date: 2016-11-03

Evaluation Criteria - 8
 Voluntary

Evaluation Parameter - a:1, b:0, c:0, d:0

Method:SM 9223 B (Colilert®) 22nd ED (2004) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Coliforms, total - Sample 10 ^{1,2} 2500 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 01 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	1 Units	1	1 to 1	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 02 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 03 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	1 Units	1	1 to 1	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 04 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	1 Units	1	1 to 1	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 05 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 06 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 07 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 08 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>

Method:SM 9223 B (Colilert®) 22nd ED (2004) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
E. Coli - Sample 09 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>
E. Coli - Sample 10 ^{1,2} 2525 / MIC001-PA - Lot LRAB2123 /Analyst:AC/ Analysis Date: 2016-11-03	0 Units	0	0 to 0	0	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>

Minerals

Method:EPA 200.7 4.4 (1994) [10013806]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Calcium, Ca ^{1,2} 1035 / PE1304-1KT - Lot LRAB0920 /Analyst:SD/ Analysis Date: 2016-11-03	55.2 mg/L	58.7	49.9 to 67.5	-0.8	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Magnesium, Mg ^{1,2} 1085 / PE1304-1KT - Lot LRAB0920 /Analyst:SD/ Analysis Date: 2016-11-03	11.8 mg/L	12.7	10.8 to 14.6	-0.94	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Potassium, K ^{1,2} 1125 / PE1304-1KT - Lot LRAB0920 /Analyst:SD/ Analysis Date: 2016-11-03	16.2 mg/L	16.8	14.3 to 19.3	-0.48	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Sodium, Na ^{1,2} 1155 / PE1304-1KT - Lot LRAB0920 /Analyst:SD/ Analysis Date: 2016-11-03	17.4 mg/L	17.7	15 to 20.4	-0.23	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					

Method:EPA 200.8 5.4 (1994) [10014605]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Magnesium, Mg ^{1,2} 1085 / PE1304-1KT - Lot LRAB0920 /Analyst:DK/ Analysis Date: 2016-11-11	12.4 mg/L	12.7	10.8 to 14.6	-0.31	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Potassium, K ^{1,2} 1125 / PE1304-1KT - Lot LRAB0920 /Analyst:DK/ Analysis Date: 2016-11-11	15.9 mg/L	16.8	14.3 to 19.3	-0.71	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Sodium, Na ^{1,2} 1155 / PE1304-1KT - Lot LRAB0920 /Analyst:DK/ Analysis Date: 2016-11-11	16.8 mg/L	17.7	15 to 20.4	-0.68	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					

Method:EPA 300.0 2.1 (1993) [10053200]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Chloride ^{1,2} 1575 / PE1364-20ML - Lot LRAB2547 /Analyst:SW/ Analysis Date: 2016-11-04	95.7 mg/L	91.5	77.8 to 105	0.61	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Fluoride ^{1,2} 1730 / PE1364-20ML - Lot LRAB2547 /Analyst:SW/ Analysis Date: 2016-11-04	5.01 mg/L	4.87	4.38 to 5.36	0.57	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					
Sulfate ^{1,2} 2000 / PE1364-20ML - Lot LRAB2547 /Analyst:SW/ Analysis Date: 2016-11-04	58.1 mg/L	58.8	50 to 67.6	-0.16	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					

Method:SM 2340 B 22nd Ed (2011) [20046417]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Hardness, total as CaCO ₃ ^{1,2} 1755 / PE1304-1KT - Lot LRAB0920 /Analyst:SD/ Analysis Date: 2016-11-03	186 mg/L	199	169 to 229	-0.87	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					

Method:SM 4500-F⁻ C 22nd ED (2011) [20102210]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Fluoride ^{1,2} 1730 / PE1364-20ML - Lot LRAB2547 /Analyst:SW/ Analysis Date: 2016-11-07	4.8 mg/L	4.87	4.38 to 5.36	-0.29	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					

Miscellaneous Analytes

Method:EPA 200.8 5.4 (1994) [10014605]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Uranium, U ^{1,2} 3055 / PE1548-20ML - Lot LRAB1700 /Analyst:DK/ Analysis Date: 2016-11-11	12.6 ug/L	13.7	11.1 to 16.3	-0.83	Acceptable <i>Evaluation Parameter - a:.9568, b:.1153, c:.0668, d:.3716</i>
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			

Method:SM 2130 B 22nd Ed (2011) [20042619]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Turbidity ^{1,2} 2055 / PE1342-2ML - Lot LRAA9247 /Analyst:SW/ Analysis Date: 2016-11-03	3.56 NTU	3.41	2.89 to 3.93	0.58	Acceptable <i>Evaluation Parameter - a:0.9755, b:0.0593, c:0.0565, d:0.0661</i>
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			

Method:SM 2320 B 22nd Ed (2011) [20045414]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Alkalinity as CaCO ₃ ^{1,2} 1505 / PE1304-1KT - Lot LRAB0920 /Analyst:SW/ Analysis Date: 2016-11-02	40 mg/L	38.3	34.5 to 42.1	0.89	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			

Method:SM 2330 B 21st ED (2000) [20003354]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Corrosivity ^{1,2} 1620 / PE1304-1KT - Lot LRAB0920 /Analyst:AC/ Analysis Date: 2016-11-11	0 SI Units	-0.33	-0.73 to 0.07	1.67	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0, d:0.200</i>
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			

Method:SM 2510 B 22nd Ed (2011) [20048413]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
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Specific conductance, Conductivity (25°C) ^{1,2}	597 umhos/cm	597	537 to 657	0	Acceptable
1610 / PE1304-1KT - Lot LRAB0920 /Analyst:SW/ Analysis Date: 2016-11-01	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>		

Method:SM 2540 B 22nd Ed (2011) [20049212]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total Solids (TS) ^{1,2}	385 mg/L	470	300 to 640	-1	Acceptable
1950 / PE1304-1KT - Lot LRAB0920 /Analyst:SW/ Analysis Date: 2016-11-02	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.1956, d:-6.683</i>		

Method:SM 2540 C 22nd Ed (2011) [20050424]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total Dissolved Solids at 180°C (TDS) ^{1,2}	382 mg/L	365	292 to 438	0.47	Acceptable
1955 / PE1304-1KT - Lot LRAB0920 /Analyst:SW/ Analysis Date: 2016-11-02	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>		

Method:SM 4500-Cl G 22nd ED (2011) [20081418]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total residual chlorine ^{1,2}	0.78 mg/L	0.81	0.68 to 0.94	-0.38	Acceptable
1940 / PE1450-2ML - Lot LRAB2505 /Analyst:SW/ Analysis Date: 2016-11-09	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1.0000, b:-0.0048, c:0.0723, d:0.0065</i>		

Method:SM 4500-H+ B 22nd ED (2011) [20105015]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
pH ^{1,2}	5.36 Units	5.4	5.2 to 5.6	-0.4	Acceptable
1900 / PE1368-20ML - Lot LRAA9433 /Analyst:SW/ Analysis Date: 2016-11-04	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0, d:0.10</i>		

Nutrients

Method:EPA 300.0 2.1 (1993) [10053200]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Nitrate as N ^{1,2} 1810 / PE1364-20ML - Lot LRAB2547 /Analyst:SW/ Analysis Date: 2016-11-04	6.03 mg/L	6.1	5.49 to 6.71	-0.23	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					
Nitrate+nitrite as N ^{1,2} 1820 / PE1364-20ML - Lot LRAB2547 /Analyst:SW/ Analysis Date: 2016-11-04	6.95 mg/L	7.08	6.02 to 8.14	-0.24	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Nitrite as N ^{1,2} 1840 / PE1364-20ML - Lot LRAB2547 /Analyst:SW/ Analysis Date: 2016-11-04	0.923 mg/L	0.98	0.83 to 1.13	-0.76	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Orthophosphate as P ^{1,2} 1870 / PE1364-20ML - Lot LRAB2547 /Analyst:SW/ Analysis Date: 2016-11-04	1.35 mg/L	1.62	1.38 to 1.86	-2.21	Not Acceptable
<i>Evaluation Criteria - 8</i> <input checked="" type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					

Method:EPA 353.2 2 (1993) [10067604]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Nitrate as N ^{1,2} 1810 / PE1364-20ML - Lot LRAB2547 /Analyst:AC/ Analysis Date: 2016-11-11	5.52 mg/L	6.1	5.49 to 6.71	-1.9	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					
Nitrate+nitrite as N ^{1,2} 1820 / PE1364-20ML - Lot LRAB2547 /Analyst:CM/ Analysis Date: 2016-11-07	6.7 mg/L	7.08	6.02 to 8.14	-0.72	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					
Nitrite as N ^{1,2} 1840 / PE1364-20ML - Lot LRAB2547 /Analyst:CM/ Analysis Date: 2016-11-04	1.17 mg/L	0.98	0.83 to 1.13	2.6	Not Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>					

Method: EPA 365.1 2 (1993) [10070005]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Orthophosphate as P ^{1,2} 1870 / PE1364-20ML - Lot LRAB2547 /Analyst:CM/ Analysis Date: 2016-11-04	0.8 mg/L	1.62	1.38 to 1.86	-6.72	Not Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>	

Trace Metals - Drinking Water

Method: EPA 200.7 4.4 (1994) [10013806]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / PE3458-500ML - Lot LRAB2113 /Analyst:SD/ Analysis Date: 2016-11-09	<50 ug/L	32	22.4 to 41.6	-6.67	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Arsenic, As ^{1,2} 1010 / PE3488-500ML - Lot LRAB2198 /Analyst:SD/ Analysis Date: 2016-11-10	36.9 ug/L	37.1	26 to 48.2	-0.04	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Barium, Ba ^{1,2} 1015 / PE3458-500ML - Lot LRAB2113 /Analyst:SD/ Analysis Date: 2016-11-09	2450 ug/L	2350	2000 to 2700	0.57	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Beryllium, Be ^{1,2} 1020 / PE3488-500ML - Lot LRAB2198 /Analyst:SD/ Analysis Date: 2016-11-09	13.1 ug/L	12.5	10.6 to 14.4	0.64	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Boron, B ^{1,2} 1025 / PE3458-500ML - Lot LRAB2113 /Analyst:SD/ Analysis Date: 2016-11-09	1410 ug/L	1430	1210 to 1640	-0.19	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Cadmium, Cd ^{1,2} 1030 / PE3488-500ML - Lot LRAB2198 /Analyst:SD/ Analysis Date: 2016-11-10	3.9 ug/L	3.48	2.78 to 4.18	1.21	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
Chromium, Cr (total) ^{1,2} 1040 / PE3488-500ML - Lot LRAB2198 /Analyst:SD/ Analysis Date: 2016-11-09	47.9 ug/L	44.8	38.1 to 51.5	0.92	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Copper, Cu ^{1,2} 1055 / PE3488-500ML - Lot LRAB2198 /Analyst:SD/ Analysis Date: 2016-11-09	1010 ug/L	990	891 to 1090	0.4	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>

Iron, Fe ^{1,2}	1060 ug/L	1030	875 to 1180	0.81	Acceptable
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1070 / PE3488-500ML - Lot LRAB2198
 /Analyst:SD/ Analysis Date: 2016-11-10

Evaluation Criteria - 4
 Voluntary

*Evaluation Parameter - break:250,
 highPercentage:0.15, lowPercentage:0.20*

Method:EPA 200.7 4.4 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Lead, Pb ^{1,2} 1075 / PE3488-500ML - Lot LRA2198 /Analyst:SD/ Analysis Date: 2016-11-09	49.4 ug/L	58	40.6 to 75.4	-0.99	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Manganese, Mn ^{1,2} 1090 / PE3488-500ML - Lot LRA2198 /Analyst:SD/ Analysis Date: 2016-11-09	223 ug/L	216	184 to 248	0.43	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Molybdenum, Mo ^{1,2} 1100 / PE3458-500ML - Lot LRA2113 /Analyst:SD/ Analysis Date: 2016-11-09	65.8 ug/L	69.9	59.4 to 80.4	-0.78	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Nickel, Ni ^{1,2} 1105 / PE3488-500ML - Lot LRA2198 /Analyst:SD/ Analysis Date: 2016-11-09	417 ug/L	407	346 to 468	0.33	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Selenium, Se ^{1,2} 1140 / PE3488-500ML - Lot LRA2198 /Analyst:SD/ Analysis Date: 2016-11-09	46.4 ug/L	46.4	37.1 to 55.7	0	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
Silver, Ag ^{1,2} 1150 / PE3458-500ML - Lot LRA2113 /Analyst:SD/ Analysis Date: 2016-11-09	144 ug/L	140	98 to 182	0.19	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Vanadium, V ^{1,2} 1185 / PE3458-500ML - Lot LRA2113 /Analyst:SD/ Analysis Date: 2016-11-09	622 ug/L	613	521 to 705	0.2	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Zinc, Zn ^{1,2} 1190 / PE3488-500ML - Lot LRA2198 /Analyst:SD/ Analysis Date: 2016-11-09	1550 ug/L	1480	1260 to 1700	0.63	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Aluminum, Al ^{1,2} 1000 / PE3488-500ML - Lot LRA2198 /Analyst:SD/ Analysis Date: 2016-11-09	162 ug/L	141	113 to 169	1.5	Acceptable <i>Evaluation Criteria - 4</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - break:500, highPercentage:0.15, lowPercentage:0.20</i>

Method: EPA 200.8 5.4 (1994) [10014605]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / PE3458-500ML - Lot LRAB2113 /Analyst:DK/ Analysis Date: 2016-11-11	25.5 ug/L	32	22.4 to 41.6	-1.35	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Arsenic, As ^{1,2} 1010 / PE3488-500ML - Lot LRAB2198 /Analyst:DK/ Analysis Date: 2016-11-11	40.3 ug/L	37.1	26 to 48.2	0.57	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Barium, Ba ^{1,2} 1015 / PE3458-500ML - Lot LRAB2113 /Analyst:DK/ Analysis Date: 2016-11-11	2240 ug/L	2350	2000 to 2700	-0.63	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Beryllium, Be ^{1,2} 1020 / PE3488-500ML - Lot LRAB2198 /Analyst:DK/ Analysis Date: 2016-11-11	12.4 ug/L	12.5	10.6 to 14.4	-0.11	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Boron, B ^{1,2} 1025 / PE3458-500ML - Lot LRAB2113 /Analyst:DK/ Analysis Date: 2016-11-11	1380 ug/L	1430	1210 to 1640	-0.47	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Cadmium, Cd ^{1,2} 1030 / PE3488-500ML - Lot LRAB2198 /Analyst:DK/ Analysis Date: 2016-11-11	3.62 ug/L	3.48	2.78 to 4.18	0.4	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
Chromium, Cr (total) ^{1,2} 1040 / PE3488-500ML - Lot LRAB2198 /Analyst:DK/ Analysis Date: 2016-11-11	37.2 ug/L	44.8	38.1 to 51.5	-2.26	Not Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>
Copper, Cu ^{1,2} 1055 / PE3488-500ML - Lot LRAB2198 /Analyst:DK/ Analysis Date: 2016-11-11	1020 ug/L	990	891 to 1090	0.61	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Lead, Pb ^{1,2} 1075 / PE3488-500ML - Lot LRAB2198 /Analyst:DK/ Analysis Date: 2016-11-11	53.5 ug/L	58	40.6 to 75.4	-0.52	Acceptable <i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>

Method:EPA 200.8 5.4 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Manganese, Mn ^{1,2} 1090 / PE3488-500ML - Lot LRA2198 /Analyst:DK/ Analysis Date: 2016-11-11	227 ug/L	216	184 to 248	0.68	Acceptable
	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>	
Molybdenum, Mo ^{1,2} 1100 / PE3458-500ML - Lot LRA2113 /Analyst:DK/ Analysis Date: 2016-11-11	65.5 ug/L	69.9	59.4 to 80.4	-0.84	Acceptable
	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>	
Nickel, Ni ^{1,2} 1105 / PE3488-500ML - Lot LRA2198 /Analyst:DK/ Analysis Date: 2016-11-11	392 ug/L	407	346 to 468	-0.49	Acceptable
	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>	
Selenium, Se ^{1,2} 1140 / PE3488-500ML - Lot LRA2198 /Analyst:DK/ Analysis Date: 2016-11-11	50 ug/L	46.4	37.1 to 55.7	0.78	Acceptable
	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>	
Silver, Ag ^{1,2} 1150 / PE3458-500ML - Lot LRA2113 /Analyst:DK/ Analysis Date: 2016-11-11	138 ug/L	140	98 to 182	-0.1	Acceptable
	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>	
Thallium, Tl ^{1,2} 1165 / PE3458-500ML - Lot LRA2113 /Analyst:DK/ Analysis Date: 2016-11-11	5.09 ug/L	4.96	3.47 to 6.45	0.17	Acceptable
	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>	
Zinc, Zn ^{1,2} 1190 / PE3488-500ML - Lot LRA2198 /Analyst:DK/ Analysis Date: 2016-11-11	1560 ug/L	1480	1260 to 1700	0.72	Acceptable
	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.075, d:0</i>	
Aluminum, Al ^{1,2} 1000 / PE3488-500ML - Lot LRA2198 /Analyst:DK/ Analysis Date: 2016-11-11	147 ug/L	141	113 to 169	0.43	Acceptable
	<i>Evaluation Criteria - 4</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - break:500, highPercentage:0.15, lowPercentage:0.20</i>	

Method:EPA 245.1 3 (1994) [10036609]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
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Mercury, Hg ^{1,2}	3.95 ug/L	4.1	2.87 to 5.33	-0.24	Acceptable
1095 / PE3488-500ML - Lot LRAB2198 /Analyst:DK/ Analysis Date: 2016-11-11	<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>		

Trihalomethanes

Method: EPA 524.2 4.1 (1995) [10088809]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total trihalomethanes ^{1,2} 5205 / PE1456-2ML - Lot LRAB1544 /Analyst:KW/ Analysis Date: 2016-11-02	73.4 ug/L	75.9	45.5 to 106	-0.16	Acceptable
		<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.20, d:0</i>	

Volatile Organic Compounds(VOCs)

Method:EPA 524.2 4.1 (1995) [10088809]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Bromodichloromethane ^{1,2} 4395 / PE1456-2ML - Lot LRAB1544 /Analyst:KW/ Analysis Date: 2016-11-02	27.8 ug/L	30.7	24.6 to 36.8	-0.94	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>					
Bromoform ^{1,2} 4400 / PE1456-2ML - Lot LRAB1544 /Analyst:KW/ Analysis Date: 2016-11-02	13.8 ug/L	12.2	9.76 to 14.6	1.31	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>					
Chloroform ^{1,2} 4505 / PE1456-2ML - Lot LRAB1544 /Analyst:KW/ Analysis Date: 2016-11-02	16.2 ug/L	16.9	13.5 to 20.3	-0.41	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>					
Dibromochloromethane ^{1,2} 4575 / PE1456-2ML - Lot LRAB1544 /Analyst:KW/ Analysis Date: 2016-11-02	15.5 ug/L	17.1	13.7 to 20.5	-0.94	Acceptable
<i>Evaluation Criteria - 8</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>					

Sample Information

TRIHALOMETHANES - WS

PE1456-2ML / Lot LRAB1544

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Bromodichloromethane ^{1,2} 4395 Trihalomethanes	ug/L	30.7±0.298	30.2	2.59
Bromoform ^{1,2} 4400 Trihalomethanes	ug/L	12.2±0.108	12.7	1.37
Chloroform ^{1,2} 4505 Trihalomethanes	ug/L	16.9±0.163	16.8	0.94
Dibromochloromethane ^{1,2} 4575 Trihalomethanes	ug/L	17.1±0.166	17.3	1.97
Total trihalomethanes ^{1,2} 5205 Trihalomethanes	ug/L	75.9±0.736	77.5	7.51
Bromodichloromethane ^{1,2} 4395 Volatile Organic Compounds(VOCs)	ug/L	30.7±0.298	30.2	2.59
Bromoform ^{1,2} 4400 Volatile Organic Compounds(VOCs)	ug/L	12.2±0.108	12.7	1.37
Chloroform ^{1,2} 4505 Volatile Organic Compounds(VOCs)	ug/L	16.9±0.163	16.8	0.94
Dibromochloromethane ^{1,2} 4575 Volatile Organic Compounds(VOCs)	ug/L	17.1±0.166	17.3	1.97

TRACE METALS - WS (WHOLE VOLUME) SAMPLE

PE3488-500ML / Lot LRA2198

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Arsenic, As ^{1,2} 1010 Trace Metals - Drinking Water	ug/L	37.1±0.189	38.6	2.78
Beryllium, Be ^{1,2} 1020 Trace Metals - Drinking Water	ug/L	12.5±0.064	13	0.89
Cadmium, Cd ^{1,2} 1030 Trace Metals - Drinking Water	ug/L	3.48±0.018	3.88	0.16
Chromium, Cr (total) ^{1,2} 1040 Trace Metals - Drinking Water	ug/L	44.8±0.228	45.5	2.77
Copper, Cu ^{1,2} 1055 Trace Metals - Drinking Water	ug/L	990±5.05	985	33.1
Iron, Fe ^{1,2} 1070 Trace Metals - Drinking Water	ug/L	1029±5.25	1020	37
Lead, Pb ^{1,2} 1075 Trace Metals - Drinking Water	ug/L	58±0.296	57.5	6.13
Manganese, Mn ^{1,2} 1090 Trace Metals - Drinking Water	ug/L	216±1.10	222	4.87
Mercury, Hg ^{1,2} 1095 Trace Metals - Drinking Water	ug/L	4.10±0.288	4.14	0.86
Nickel, Ni ^{1,2} 1105 Trace Metals - Drinking Water	ug/L	407±2.08	413	32.2
Selenium, Se ^{1,2} 1140 Trace Metals - Drinking Water	ug/L	46.4±0.237	0	0
Zinc, Zn ^{1,2} 1190 Trace Metals - Drinking Water	ug/L	1478±7.54	1530	55.2
Aluminum, Al ^{1,2} 1000 Trace Metals - Drinking Water	ug/L	141±0.722	152	14

PH - WS - 20ML

PE1368-20ML / Lot LRAA9433

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
pH ^{1,2} 1900 Miscellaneous Analytes	Units	5.40±0.028	5.41	0.04
pH ^{1,2} 1900	Units	5.40±0.028	5.41	0.04

ANIONS - WS

PE1364-20ML / Lot LRAB2547

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Orthophosphate as PO4 ²⁻ 11870	mg/L	4.95±0.025	2.94	2.19
Chloride ^{1,2} 1575	mg/L	91.5±0.467	91.3	3.68
Fluoride ^{1,2} 1730	mg/L	4.87±0.025	4.74	0.32
Nitrate as NO3 ^{1,2} 1805	mg/L	27.0±0.138	27.6	1.72
Nitrate as N ^{1,2} 1810	mg/L	6.10±0.031	6.07	0.27
Nitrate+nitrite as N ^{1,2} 1820	mg/L	7.08±0.036	6.97	0.32
Nitrite as NO2 ^{1,2} 1835	mg/L	3.22±0.016	0	0
Nitrite as N ^{1,2} 1840	mg/L	0.979±0.005	0.97	0.09
Orthophosphate as P ^{1,2} 1870	mg/L	1.62±0.008	1.47	0.31
Sulfate ^{1,2} 2000	mg/L	58.8±0.300	58.5	3.25
Orthophosphate as PO4 ²⁻ 11870 Minerals	mg/L	4.95±0.025	2.94	2.19
Chloride ^{1,2} 1575 Minerals	mg/L	91.5±0.467	91.3	3.68
Fluoride ^{1,2} 1730 Minerals	mg/L	4.87±0.025	4.74	0.32
Nitrate as NO3 ^{1,2} 1805 Minerals	mg/L	27.0±0.138	27.6	1.72
Nitrate as N ^{1,2} 1810 Nutrients	mg/L	6.10±0.031	6.07	0.27
Nitrate+nitrite as N ^{1,2} 1820 Nutrients	mg/L	7.08±0.036	6.97	0.32
Nitrite as NO2 ^{1,2} 1835 Minerals	mg/L	3.22±0.016	0	0
Nitrite as N ^{1,2} 1840 Nutrients	mg/L	0.979±0.005	0.97	0.09
Orthophosphate as P ^{1,2} 1870 Nutrients	mg/L	1.62±0.008	1.47	0.31
Phosphorus as P, total ^{1,2} 1910 Miscellaneous Analytes	mg/L	1.62±0.008	1.65	0.05
Sulfate ^{1,2} 2000 Minerals	mg/L	58.8±0.300	58.5	3.25

Nitrate as N ^{1,2} 1810 Minerals	mg/L	6.10±0.031	6.07	0.27
Nitrate+nitrite as N ^{1,2} 1820 Minerals	mg/L	7.08±0.036	6.97	0.32
Nitrite as N ^{1,2} 1840 Minerals	mg/L	0.979±0.005	0.97	0.09
Orthophosphate as P ^{1,2} 1870 Minerals	mg/L	1.62±0.008	1.47	0.31
Sulfate ^{1,2} 2000 Miscellaneous Analytes	mg/L	58.8±0.300	58.5	3.25

RESIDUAL FREE CHLORINE (RFC) - WS

PE1450-2ML / Lot LRAB2505

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Residual free chlorine ^{1,2} 1945 Miscellaneous Analytes	mg/L	0.810±0.005	0.76	0.07
Total residual chlorine ^{1,2} 1940 Miscellaneous Analytes	mg/L	0.810±0.005	0.78	0.06
Combined Chlorine ² 111 Miscellaneous Analytes	mg/L		0	0

TURBIDITY - WS

PE1342-2ML / Lot LRAA9247

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Turbidity ^{1,2} 2055 Miscellaneous Analytes	NTU	3.43	3.5	0.17

URANIUM - WS

PE1548-20ML / Lot LRAB1700

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Uranium, U ^{1,2} 3055 Miscellaneous Analytes	ug/L	14.2	0	0

TRACE METALS - WS (WHOLE VOLUME) SAMPLE

PE3458-500ML / Lot LRAB2113

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Antimony, Sb ^{1,2} 1005 Trace Metals - Drinking Water	ug/L	32.0±0.163	0	0
Barium, Ba ^{1,2} 1015 Trace Metals - Drinking Water	ug/L	2350±12.0	0	0
Boron, B ^{1,2} 1025 Trace Metals - Drinking Water	ug/L	1426±7.27	0	0
Molybdenum, Mo ^{1,2} 1100 Trace Metals - Drinking Water	ug/L	69.9±0.357	0	0
Silver, Ag ^{1,2} 1150 Trace Metals - Drinking Water	ug/L	140±0.714	0	0
Thallium, Tl ^{1,2} 1165 Trace Metals - Drinking Water	ug/L	4.96±0.025	0	0
Vanadium, V ^{1,2} 1185 Trace Metals - Drinking Water	ug/L	613±3.12	0	0

CORROSIVITY/SODIUM - WS

PE1304-1KT / Lot LRAB0920

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Calcium, Ca ^{1,2} 1035 Minerals	mg/L	58.7	57.3	2.42
Magnesium, Mg ^{1,2} 1085 Minerals	mg/L	12.73	12.6	0.74
Potassium, K ^{1,2} 1125 Minerals	mg/L	16.8	16.8	0.75
Sodium, Na ^{1,2} 1155 Minerals	mg/L	17.7	17.9	0.71
Alkalinity as CaCO ₃ ^{1,2} 1505 Miscellaneous Analytes	mg/L	38.3	38.4	2.73
Calcium hardness as CaCO ₃ ^{1,2} 1550 Minerals	mg/L	146	146	5.78
Specific conductance, Conductivity (25°C) ^{1,2} 1610 Miscellaneous Analytes	umhos/cm	597±0.201	597	16.7
Corrosivity ^{1,2} 1620 Miscellaneous Analytes	SI Units	-0.333	0	0
Corrosivity (langlier index @ 25°C) ^{1,2} 1620 Miscellaneous Analytes	Units	-0.333	0	0
Corrosivity (pH) ^{1,2} 1625 Miscellaneous Analytes	Units	7.87	7.96	0.17
Hardness, total as CaCO ₃ ^{1,2} 1755 Minerals	mg/L	199±1.01	196	7.4
Hardness, total as CaCO ₃ (calc.) ^{1,2} 1760 Miscellaneous Analytes	mg/L	199±1.01	197	5.34
Total Solids (TS) ^{1,2} 1950 Miscellaneous Analytes	mg/L	470	418	59.4
Total Dissolved Solids at 180°C (TDS) ^{1,2} 1955 Miscellaneous Analytes	mg/L	365±2.14	370	76.6
Langlier @ 140°F ^{1,2} 1800 Miscellaneous Analytes			0	0
Langlier @ 40°F ² 1800 Miscellaneous Analytes		-0.74	0	0
Langlier @ 50°F ² 1800 Miscellaneous Analytes			0	0
Calcium, Ca ^{1,2} 1035 Trace Metals - Drinking Water	mg/L	58.7	57.3	2.42
Magnesium, Mg ^{1,2} 1085 Trace Metals - Drinking Water	mg/L	12.73	12.6	0.74
Potassium, K ^{1,2} 1125 Trace Metals - Drinking Water	mg/L	16.8	16.8	0.75

Sodium, Na ^{1,2} 1155 Miscellaneous Analytes	mg/L	17.7	17.9	0.71
Calcium hardness as CaCO ₃ ^{1,2} 1550 Miscellaneous Analytes	mg/L	146	146	5.78
Hardness, total as CaCO ₃ ^{1,2} 1755 Miscellaneous Analytes	mg/L	199±1.01	196	7.4

Standard Plate Count - WS

MIC002-2EA / Lot LRAB1782

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Heterotrophic plate count ^{1,2} 2555 Microbiology	CFU/mL	125±5	110	22.9
Heterotrophic Plate Count, MPN ^{1,2} 2555 Microbiology	MPN	154±5	104	140
Heterotrophic plate count ^{1,2} 2555	CFU/mL	125±5	110	22.9
Heterotrophic Plate Count, MPN ^{1,2} 2555	MPN	154±5	104	140

Inorganic Disinfection By-Products - WS (Whole Volume)

PE3306-500ML / Lot LRAB2522

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Bromate ^{1,2} 1535 Inorganic Disinfection By-Products	ug/L	42.9±0.22	0	0
Bromide ^{1,2} 1540 Inorganic Disinfection By-Products	ug/L	257.8±1.31	0	0
Chlorate ^{1,2} 1570 Inorganic Disinfection By-Products	ug/L	157±0.803	0	0
Chlorite ^{1,2} 1595 Inorganic Disinfection By-Products	ug/L	760±3.88	0	0

Complete Volatiles Kit - WS

PE1358-1KT / Lot LRAB0945

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Benzene ^{1,2} 4375 Volatile Organic Compounds(VOCs)	ug/L	12.7±0.123	12.5	0.69
Bromobenzene ^{1,2} 4385 Volatile Organic Compounds(VOCs)	ug/L	16.4±0.159	16.7	0.82
Bromochloromethane ^{1,2} 4390 Volatile Organic Compounds(VOCs)	ug/L	8.26±0.08	8.4	0.88
n-Butylbenzene ^{1,2} 4435 Volatile Organic Compounds(VOCs)	ug/L	7.61±0.074	7.72	0.37
sec-Butylbenzene ^{1,2} 4440 Volatile Organic Compounds(VOCs)	ug/L	13.9±0.135	13.5	1.08
tert-Butylbenzene ^{1,2} 4445 Volatile Organic Compounds(VOCs)	ug/L	6.95±0.067	6.86	0.43
Carbon tetrachloride ^{1,2} 4455 Volatile Organic Compounds(VOCs)	ug/L	16.1±0.156	15.7	1.16
Chlorobenzene ^{1,2} 4475 Volatile Organic Compounds(VOCs)	ug/L	13.2±0.128	13.4	0.7
Chloroethane ^{1,2} 4485 Volatile Organic Compounds(VOCs)	ug/L	31.9±0.31	28.2	4.24
2-Chlorotoluene ^{1,2} 4535 Volatile Organic Compounds(VOCs)	ug/L	7.89±0.077	8.08	0.47
4-Chlorotoluene ^{1,2} 4540 Volatile Organic Compounds(VOCs)	ug/L	7.01±0.068	7.28	0.33
Dibromomethane ^{1,2} 4595 Volatile Organic Compounds(VOCs)	ug/L	10.2±0.099	10.1	0.92
1,2-Dichlorobenzene ^{1,2} 4610 Volatile Organic Compounds(VOCs)	ug/L	12.9±0.125	12.8	0.75
1,3-Dichlorobenzene ^{1,2} 4615 Volatile Organic Compounds(VOCs)	ug/L	13.6±0.132	13.8	0.81
1,4-Dichlorobenzene ^{1,2} 4620 Volatile Organic Compounds(VOCs)	ug/L	14.3±0.139	14.5	0.15
Dichlorodifluoromethane ^{1,2} 4625 Volatile Organic Compounds(VOCs)	ug/L	5.95±0.124	4.85	1.41
Dichlorofluoromethane ² 4627 Volatile Organic Compounds(VOCs)	ug/L	0±0	0	0
1,1-Dichloroethane ^{1,2} 4630 Volatile Organic Compounds(VOCs)	ug/L	13.7±0.133	13.4	0.59
1,2-Dichloroethane ^{1,2} 4635 Volatile Organic Compounds(VOCs)	ug/L	14.7±0.143	14.3	1.02
1,1-Dichloroethylene ^{1,2} 4640 Volatile Organic Compounds(VOCs)	ug/L	11.9±0.115	10.3	1
cis-1,2-Dichloroethylene ^{1,2} 4645 Volatile Organic Compounds(VOCs)	ug/L	7.29±0.071	7.14	0.48

1,2-Dichloropropane ^{1,2} 4655 Volatile Organic Compounds(VOCs)	ug/L	8.07±0.078	8.14	0.76
1,3-Dichloropropane ^{1,2} 4660 Volatile Organic Compounds(VOCs)	ug/L	12.7±0.123	12.6	0.81
2,2-Dichloropropane ^{1,2} 4665 Volatile Organic Compounds(VOCs)	ug/L	9.39±0.091	10.2	1.21
1,1-Dichloropropene ^{1,2} 4670 Volatile Organic Compounds(VOCs)	ug/L	8.53±0.083	8.3	0.95
cis-1,3-Dichloropropene ^{1,2} 4680 Volatile Organic Compounds(VOCs)	ug/L	17.51±0.17	17.1	1.43
trans-1,3-Dichloropropene ^{1,2} 4685 Volatile Organic Compounds(VOCs)	ug/L	7.82±0.076	7.59	0.54
trans-1,2-Dichloroethylene ^{1,2} 4700 Volatile Organic Compounds(VOCs)	ug/L	6.31±0.061	6.16	0.54
Ethylbenzene ^{1,2} 4765 Volatile Organic Compounds(VOCs)	ug/L	14.4±0.14	14.3	0.87
Hexachlorobutadiene ^{1,2} 4835 Volatile Organic Compounds(VOCs)	ug/L	32.6±0.316	31.5	4.06
Isopropylbenzene ^{1,2} 4900 Volatile Organic Compounds(VOCs)	ug/L	14.6±0.141	14.7	1.04
4-Isopropyltoluene ^{1,2} 4910 Volatile Organic Compounds(VOCs)	ug/L	17.6±0.171	17.6	1.27
Methyl bromide (Bromomethane) ^{1,2} 4950 Volatile Organic Compounds(VOCs)	ug/L	9.2±0.138	8.56	3.69
Methyl chloride (Chloromethane) ^{1,2} 4960 Volatile Organic Compounds(VOCs)	ug/L	11.7±0.133	11.1	2.34
Methylene chloride (Dichloromethane) ^{1,2} 4975 Volatile Organic Compounds(VOCs)	ug/L	15.2±0.147	14.4	1.57
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 Volatile Organic Compounds(VOCs)	ug/L	33.6±0.326	33.6	4.47
Naphthalene ^{1,2} 5005 Volatile Organic Compounds(VOCs)	ug/L	21.8±0.211	23.5	1.32
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090 Volatile Organic Compounds(VOCs)	ug/L	9.03±0.088	9.2	0.52
Styrene ^{1,2} 5100 Volatile Organic Compounds(VOCs)	ug/L	15.4±0.149	15.5	1.04
1,1,1,2-Tetrachloroethane ^{1,2} 5105 Volatile Organic Compounds(VOCs)	ug/L	17.9±0.174	17.9	1.13
1,1,2,2-Tetrachloroethane ^{1,2} 5110 Volatile Organic Compounds(VOCs)	ug/L	10.8±0.105	10.6	1.18
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115 Volatile Organic Compounds(VOCs)	ug/L	17.4±0.168	17.4	1.24
Toluene ^{1,2} 5140 Volatile Organic Compounds(VOCs)	ug/L	6.6±0.064	6.6	0.4
1,2,3-Trichlorobenzene ^{1,2} 5150 Volatile Organic Compounds(VOCs)	ug/L	30.7±0.297	30.5	4.5
1,2,4-Trichlorobenzene ^{1,2} 5155 Volatile Organic Compounds(VOCs)	ug/L	14.56±0.141	14.8	0.98
1,1,1-Trichloroethane ^{1,2} 5160 Volatile Organic Compounds(VOCs)	ug/L	12.1±0.117	11.9	0.81

1,1,2-Trichloroethane ^{1,2} 5165 Volatile Organic Compounds(VOCs)	ug/L	6.56±0.064	6.59	0.57
Trichloroethene (Trichloroethylene) ^{1,2} 5170 Volatile Organic Compounds(VOCs)	ug/L	8.18±0.079	8.21	0.51
Trichlorofluoromethane ^{1,2} 5175 Volatile Organic Compounds(VOCs)	ug/L	37.8±0.367	34.5	5.94
1,2,3-Trichloropropane ^{1,2} 5180 Volatile Organic Compounds(VOCs)	ug/L	15±0.146	15.2	2.45
1,2,4-Trimethylbenzene ^{1,2} 5210 Volatile Organic Compounds(VOCs)	ug/L	14.6±0.141	14.8	0.69
1,3,5-Trimethylbenzene ^{1,2} 5215 Volatile Organic Compounds(VOCs)	ug/L	11.5±0.111	11.9	0.65
Vinyl chloride ^{1,2} 5235 Volatile Organic Compounds(VOCs)	ug/L	19.0±0.248	18.7	2.29
m+p-Xylene ^{1,2} 5240 Volatile Organic Compounds(VOCs)	ug/L	15.5±0.15	15.8	0.65
o-Xylene ^{1,2} 5250 Volatile Organic Compounds(VOCs)	ug/L	15.7±0.152	16.4	0.51
Xylene, total ^{1,2} 5260 Volatile Organic Compounds(VOCs)	ug/L	31.2±0.302	32.8	0.95
Benzene ^{1,2} 4375	ug/L	12.7±0.123	12.5	0.69
Bromobenzene ^{1,2} 4385	ug/L	16.4±0.159	16.7	0.82
Bromochloromethane ^{1,2} 4390	ug/L	8.26±0.08	8.4	0.88
n-Butylbenzene ^{1,2} 4435	ug/L	7.61±0.074	7.72	0.37
sec-Butylbenzene ^{1,2} 4440	ug/L	13.9±0.135	13.5	1.08
tert-Butylbenzene ^{1,2} 4445	ug/L	6.95±0.067	6.86	0.43
Carbon tetrachloride ^{1,2} 4455	ug/L	16.1±0.156	15.7	1.16
Chlorobenzene ^{1,2} 4475	ug/L	13.2±0.128	13.4	0.7
Chloroethane ^{1,2} 4485	ug/L	31.9±0.31	28.2	4.24
2-Chlorotoluene ^{1,2} 4535	ug/L	7.89±0.077	8.08	0.47
4-Chlorotoluene ^{1,2} 4540	ug/L	7.01±0.068	7.28	0.33
Dibromomethane ^{1,2} 4595	ug/L	10.2±0.099	10.1	0.92
1,2-Dichlorobenzene ^{1,2} 4610	ug/L	12.9±0.125	12.8	0.75
1,3-Dichlorobenzene ^{1,2} 4615	ug/L	13.6±0.132	13.8	0.81
1,4-Dichlorobenzene ^{1,2} 4620	ug/L	14.3±0.139	14.5	0.15

Dichlorodifluoromethane ^{1,2} 4625	ug/L	5.95±0.124	4.85	1.41
Dichlorofluoromethane ² 4627	ug/L	0±0	0	0
1,1-Dichloroethane ^{1,2} 4630	ug/L	13.7±0.133	13.4	0.59
1,2-Dichloroethane ^{1,2} 4635	ug/L	14.7±0.143	14.3	1.02
1,1-Dichloroethylene ^{1,2} 4640	ug/L	11.9±0.115	10.3	1
cis-1,2-Dichloroethylene ^{1,2} 4645	ug/L	7.29±0.071	7.14	0.48
1,2-Dichloropropane ^{1,2} 4655	ug/L	8.07±0.078	8.14	0.76
1,3-Dichloropropane ^{1,2} 4660	ug/L	12.7±0.123	12.6	0.81
2,2-Dichloropropane ^{1,2} 4665	ug/L	9.39±0.091	10.2	1.21
1,1-Dichloropropene ^{1,2} 4670	ug/L	8.53±0.083	8.3	0.95
cis-1,3-Dichloropropene ^{1,2} 4680	ug/L	17.51±0.17	17.1	1.43
trans-1,3-Dichloropropene ^{1,2} 4685	ug/L	7.82±0.076	7.59	0.54
trans-1,2-Dichloroethylene ^{1,2} 4700	ug/L	6.31±0.061	6.16	0.54
Ethylbenzene ^{1,2} 4765	ug/L	14.4±0.14	14.3	0.87
Hexachlorobutadiene ^{1,2} 4835	ug/L	32.6±0.316	31.5	4.06
Isopropylbenzene ^{1,2} 4900	ug/L	14.6±0.141	14.7	1.04
4-Isopropyltoluene ^{1,2} 4910	ug/L	17.6±0.171	17.6	1.27
Methyl bromide (Bromomethane) ^{1,2} 4950	ug/L	9.2±0.138	8.56	3.69
Methyl chloride (Chloromethane) ^{1,2} 4960	ug/L	11.7±0.133	11.1	2.34
Methylene chloride (Dichloromethane) ^{1,2} 4975	ug/L	15.2±0.147	14.4	1.57
Methyl tert-butyl ether (MTBE) ^{1,2} 5000	ug/L	33.6±0.326	33.6	4.47
Naphthalene ^{1,2} 5005	ug/L	21.8±0.211	23.5	1.32
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090	ug/L	9.03±0.088	9.2	0.52
Styrene ^{1,2} 5100	ug/L	15.4±0.149	15.5	1.04
1,1,1,2-Tetrachloroethane ^{1,2} 5105	ug/L	17.9±0.174	17.9	1.13

1,1,2,2-Tetrachloroethane ^{1,2} 5110	ug/L	10.8±0.105	10.6	1.18
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115	ug/L	17.4±0.168	17.4	1.24
Toluene ^{1,2} 5140	ug/L	6.6±0.064	6.6	0.4
1,2,3-Trichlorobenzene ^{1,2} 5150	ug/L	30.7±0.297	30.5	4.5
1,2,4-Trichlorobenzene ^{1,2} 5155	ug/L	14.56±0.141	14.8	0.98
1,1,1-Trichloroethane ^{1,2} 5160	ug/L	12.1±0.117	11.9	0.81
1,1,2-Trichloroethane ^{1,2} 5165	ug/L	6.56±0.064	6.59	0.57
Trichloroethene (Trichloroethylene) ^{1,2} 5170	ug/L	8.18±0.079	8.21	0.51
Trichlorofluoromethane ^{1,2} 5175	ug/L	37.8±0.367	34.5	5.94
1,2,3-Trichloropropane ^{1,2} 5180	ug/L	15±0.146	15.2	2.45
1,2,4-Trimethylbenzene ^{1,2} 5210	ug/L	14.6±0.141	14.8	0.69
1,3,5-Trimethylbenzene ^{1,2} 5215	ug/L	11.5±0.111	11.9	0.65
Vinyl chloride ^{1,2} 5235	ug/L	19.0±0.248	18.7	2.29
m+p-Xylene ^{1,2} 5240	ug/L	15.5±0.15	15.8	0.65
o-Xylene ^{1,2} 5250	ug/L	15.7±0.152	16.4	0.51
Xylene, total ^{1,2} 5260	ug/L	31.2±0.302	32.8	0.95

WS-Microbiological PT - Presence/Absence

MIC001-PA / Lot LRAB2123

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Coliforms, total - Sample 01 ^{1,2} 2500 Microbiology	Units	1±0	0	0
Coliforms, total - Sample 02 ^{1,2} 2500 Microbiology	Units	1±0	0	0
Coliforms, total - Sample 04 ^{1,2} 2500 Microbiology	Units	1±0	0	0
Coliforms, total - Sample 03 ^{1,2} 2500 Microbiology	Units	1±0	0	0
Coliforms, total - Sample 05 ^{1,2} 2500 Microbiology	Units	0±0	0	0
Coliforms, total - Sample 06 ^{1,2} 2500 Microbiology	Units	0±0	0	0
Coliforms, total - Sample 07 ^{1,2} 2500 Microbiology	Units	1±0	0	0
Coliforms, total - Sample 08 ^{1,2} 2500 Microbiology	Units	0±0	0	0
Coliforms, total - Sample 09 ^{1,2} 2500 Microbiology	Units	1±0	0	0
Coliforms, total - Sample 10 ^{1,2} 2500 Microbiology	Units	0±0	0	0
Fecal Coliforms - Sample 01 ^{1,2} 2530 Microbiology	Units	1±0	136	233
Fecal Coliforms - Sample 02 ^{1,2} 2530 Microbiology	Units	0±0	0	0
Fecal Coliforms - Sample 03 ^{1,2} 2530 Microbiology	Units	1±0	139	211
Fecal Coliforms - Sample 04 ^{1,2} 2530 Microbiology	Units	1±0	122	211
Fecal Coliforms - Sample 05 ^{1,2} 2530 Microbiology	Units	0±0	0.26	2.96
Fecal Coliforms - Sample 06 ^{1,2} 2530 Microbiology	Units	0±0	0	0
Fecal Coliforms - Sample 07 ^{1,2} 2530 Microbiology	Units	0±0	0	0
Fecal Coliforms - Sample 08 ^{1,2} 2530 Microbiology	Units	0±0	0	0
Fecal Coliforms - Sample 09 ^{1,2} 2530 Microbiology	Units	0±0	0	0
Fecal Coliforms - Sample 10 ^{1,2} 2530 Microbiology	Units	0±0	0	0

E. Coli - Sample 01 ^{1,2} 2525 Microbiology	Units	1±0	0	0
E. Coli - Sample 02 ^{1,2} 2525 Microbiology	Units	0±0	0	0
E. Coli - Sample 03 ^{1,2} 2525 Microbiology	Units	1±0	0	0
E. Coli - Sample 04 ^{1,2} 2525 Microbiology	Units	1±0	0	0
E. Coli - Sample 05 ^{1,2} 2525 Microbiology	Units	0±0	0	0
E. Coli - Sample 06 ^{1,2} 2525 Microbiology	Units	0±0	0	0
E. Coli - Sample 07 ^{1,2} 2525 Microbiology	Units	0±0	0	0
E. Coli - Sample 08 ^{1,2} 2525 Microbiology	Units	0±0	0	0
E. Coli - Sample 09 ^{1,2} 2525 Microbiology	Units	0±0	0	0
E. Coli - Sample 10 ^{1,2} 2525 Microbiology	Units	0±0	0	0

WS-Microbiological PT - MPN

MIC001-MPN / Lot LRA2123

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Coliforms, total - Sample 01 ^{1,2} 2500 Microbiology	MPN/100mL	652±96.8	0	0
Coliforms, total - Sample 02 ^{1,2} 2500 Microbiology	MPN/100mL	41.6±6.85	0	0
Coliforms, total - Sample 04 ^{1,2} 2500 Microbiology	MPN/100mL	652±96.8	0	0
Coliforms, total - Sample 03 ^{1,2} 2500 Microbiology	MPN/100mL	652±96.8	0	0
Coliforms, total - Sample 05 ^{1,2} 2500 Microbiology	MPN/100mL	0±0	0	0
Coliforms, total - Sample 06 ^{1,2} 2500 Microbiology	MPN/100mL	0±0	0	0
Coliforms, total - Sample 07 ^{1,2} 2500 Microbiology	MPN/100mL	41.9±6.85	0	0
Coliforms, total - Sample 08 ^{1,2} 2500 Microbiology	MPN/100mL	0±0	0	0
Coliforms, total - Sample 09 ^{1,2} 2500 Microbiology	MPN/100mL	41.9±6.85	0	0
Coliforms, total - Sample 10 ^{1,2} 2500 Microbiology	MPN/100mL	0±0	0	0
Fecal Coliforms - Sample 01 ^{1,2} 2530 Microbiology	MPN/100mL	652±96.8	136	233
Fecal Coliforms - Sample 02 ^{1,2} 2530 Microbiology	MPN/100mL	0±0	0	0
Fecal Coliforms - Sample 03 ^{1,2} 2530 Microbiology	MPN/100mL	652±96.8	139	211
Fecal Coliforms - Sample 04 ^{1,2} 2530 Microbiology	MPN/100mL	652±96.8	122	211
Fecal Coliforms - Sample 05 ^{1,2} 2530 Microbiology	MPN/100mL	0±0	0.26	2.96
Fecal Coliforms - Sample 06 ^{1,2} 2530 Microbiology	MPN/100mL	0±0	0	0
Fecal Coliforms - Sample 07 ^{1,2} 2530 Microbiology	MPN/100mL	0±0	0	0
Fecal Coliforms - Sample 08 ^{1,2} 2530 Microbiology	MPN/100mL	0±0	0	0
Fecal Coliforms - Sample 09 ^{1,2} 2530 Microbiology	MPN/100mL	0±0	0	0
Fecal Coliforms - Sample 10 ^{1,2} 2530 Microbiology	MPN/100mL	0±0	0	0

E. Coli - Sample 01 ^{1,2} 2525 Microbiology	MPN/100mL	652±96.8	0	0
E. Coli - Sample 02 ^{1,2} 2525 Microbiology	MPN/100mL	0±0	0	0
E. Coli - Sample 03 ^{1,2} 2525 Microbiology	MPN/100mL	652±96.8	0	0
E. Coli - Sample 04 ^{1,2} 2525 Microbiology	MPN/100mL	652±96.8	0	0
E. Coli - Sample 05 ^{1,2} 2525 Microbiology	MPN/100mL	0±0	0	0
E. Coli - Sample 06 ^{1,2} 2525 Microbiology	MPN/100mL	0±0	0	0
E. Coli - Sample 07 ^{1,2} 2525 Microbiology	MPN/100mL	0±0	0	0
E. Coli - Sample 08 ^{1,2} 2525 Microbiology	MPN/100mL	0±0	0	0
E. Coli - Sample 09 ^{1,2} 2525 Microbiology	MPN/100mL	0±0	0	0
E. Coli - Sample 10 ^{1,2} 2525 Microbiology	MPN/100mL	0±0	0	0

WS-Microbiological PT - CFU

MIC001-CFU / Lot LRGB2123

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Coliforms, total - Sample 01 ^{1,2} 2500 Microbiology	CFU/100mL	652±96.8	0	0
Coliforms, total - Sample 02 ^{1,2} 2500 Microbiology	CFU/100mL	41.9±6.85	0	0
Coliforms, total - Sample 04 ^{1,2} 2500 Microbiology	CFU/100mL	652±96.8	0	0
Coliforms, total - Sample 03 ^{1,2} 2500 Microbiology	CFU/100mL	652±96.8	0	0
Coliforms, total - Sample 05 ^{1,2} 2500 Microbiology	CFU/100mL	0±0	0	0
Coliforms, total - Sample 06 ^{1,2} 2500 Microbiology	CFU/100mL	0±0	0	0
Coliforms, total - Sample 07 ^{1,2} 2500 Microbiology	CFU/100mL	41.9±6.85	0	0
Coliforms, total - Sample 08 ^{1,2} 2500 Microbiology	CFU/100mL	0±0	0	0
Coliforms, total - Sample 09 ^{1,2} 2500 Microbiology	CFU/100mL	41.9±6.85	0	0
Coliforms, total - Sample 10 ^{1,2} 2500 Microbiology	CFU/100mL	0±0	0	0
Fecal Coliforms - Sample 01 ^{1,2} 2530 Microbiology	CFU/100mL	652±96.8	136	233
Fecal Coliforms - Sample 02 ^{1,2} 2530 Microbiology	CFU/100mL	0±0	0	0
Fecal Coliforms - Sample 03 ^{1,2} 2530 Microbiology	CFU/100mL	652±96.8	139	211
Fecal Coliforms - Sample 04 ^{1,2} 2530 Microbiology	CFU/100mL	652±96.8	122	211
Fecal Coliforms - Sample 05 ^{1,2} 2530 Microbiology	CFU/100mL	0±0	0.26	2.96
Fecal Coliforms - Sample 06 ^{1,2} 2530 Microbiology	CFU/100mL	0±0	0	0
Fecal Coliforms - Sample 07 ^{1,2} 2530 Microbiology	CFU/100mL	0±0	0	0
Fecal Coliforms - Sample 08 ^{1,2} 2530 Microbiology	CFU/100mL	0±0	0	0
Fecal Coliforms - Sample 09 ^{1,2} 2530 Microbiology	CFU/100mL	0±0	0	0
Fecal Coliforms - Sample 10 ^{1,2} 2530 Microbiology	CFU/100mL	0±0	0	0

E. Coli - Sample 01 ^{1,2} 2525 Microbiology	CFU/100mL	652±96.8	0	0
E. Coli - Sample 02 ^{1,2} 2525 Microbiology	CFU/100mL	0±0	0	0
E. Coli - Sample 03 ^{1,2} 2525 Microbiology	CFU/100mL	652±96.8	0	0
E. Coli - Sample 04 ^{1,2} 2525 Microbiology	CFU/100mL	652±96.8	0	0
E. Coli - Sample 05 ^{1,2} 2525 Microbiology	CFU/100mL	0±0	0	0
E. Coli - Sample 06 ^{1,2} 2525 Microbiology	CFU/100mL	0±0	0	0
E. Coli - Sample 07 ^{1,2} 2525 Microbiology	CFU/100mL	0±0	0	0
E. Coli - Sample 08 ^{1,2} 2525 Microbiology	CFU/100mL	0±0	0	0
E. Coli - Sample 09 ^{1,2} 2525 Microbiology	CFU/100mL	0±0	0	0
E. Coli - Sample 10 ^{1,2} 2525 Microbiology	CFU/100mL	0±0	0	0

Definitions and Interpretation of Statistical Analysis:

Assigned Value: Value attributed to a particular quantity and accepted, sometimes by convention, as having an uncertainty appropriate for a given purpose. See ISO/IEC 17043 for additional information. In general the assigned value is the value used to assess proficiency and may or may not be the made to value (gravimetric value).

Accept. Window: The range of values that constitute acceptable performance for a laboratory participating in this PT study.

Z: A Z-Score tells how a single data point compares to normal data. A Z-Score says not only whether a point was above or below average, but how unusual the measurement is. Generally, a method result with a Z-Score less than |2| is considered to be in control, a Z-Score between |2| and |3| is considered 'Questionable', but still within control and a Z greater than |3| is considered not acceptable and the method is out of control. For WS studies, a z-score greater than |2| is unacceptable. Calculated as **Z = (Reported Value - Assigned Value) / Proficiency Std. Dev.**

Proficiency Std. Dev.: Standard deviation calculated based on **Evaluation Criteria.**

Study Mean: Statistical study mean calculated using a robust statistical model (RTC employs the 'Biweight Program'). Robust statistical techniques to minimize the influence that extreme results can have on estimates of the mean and standard deviation. NOTE - These techniques assign less weight to extreme results, rather than eliminate them from a data set.

Study Std. Dev.: Standard deviation calculated from study data using robust statisticals (Biweight).

Gravimetric Value: The 'prepared to' value, determined by gravimetric means. The uncertainty associated to this value is standard uncertainty and based on RTC's gravimetric tolerances.

Evaluation Criteria:

1 - Regression Equation - Acceptance windows based on TNI adopted equation of proficiency value +/- 3 proficiency standard deviations and check limits of proficiency value +/- 2 proficiency standard deviations. Proficiency value and proficiency standard deviation are calculated from gravimetric variables a, b, c, & d as proficiency value = a * gravimetric + b and proficiency standard deviation = c * gravimetric + d.

2 - Study Robust Mean and c,d regression - Acceptance windows based on TNI adopted equation of proficiency value +/- 3 proficiency standard deviations and check limits of proficiency value +/- 2 proficiency standard deviations. Proficiency value and proficiency standard deviation calculated from robust study mean and variables c & d as proficiency value = robust mean and proficiency standard deviation = c * proficiency value + d.

3 - Fixed Limits - Acceptance windows based on span of gravimetric percentage from gravimetric as gravimetric +/- gravimetric * percentage.

4 - Adjustable Fixed Limits - Acceptance windows base on a span of gravimetric percentage from gravimetric as gravimetric +/- gravimetric * lowPercentage where gravimetric < break and gravimetric +/-

gravimetric * highPercentage where gravimetric >= break.

5 - Study Statistics - Acceptance windows based on a number of standard deviations span from the study mean as study mean +/- (deviations * standard deviation).

6 - Log Transform Statistics - Acceptance windows based on lognormal distributed data. Acceptance windows = mean(lognormal) +/- span * standard deviation(lognormal).

7 - Reserved

8 - Regression Equation 2SD - Acceptance windows based on EPA equation of proficiency value +/- 2 proficiency standard deviations. Proficiency value and proficiency standard deviation are calculated from gravimetric variables a, b, c, & d as proficiency value = a * gravimetric + b and proficiency standard deviation = c * gravimetric + d. Generally reserved for drinking water studies.

Proficiency Test Item Preparation, Homogeneity and Stability Assessment - RTC uses proprietary and published methods for the manufacture, homogeneity and stability testing of proficiency test items. RTC's proficiency test materials meet requirements of ISO Guide 34. For more information contact RTC. Additionally RTC complies with TNI Volume 3 'General Requirements for Environmental Proficiency Test Providers', EL-V3-2009, 2009 for all TNI Fields of Proficiency Testing analytes.

Metrological Traceability - All preparations are made using balances calibrated annually traceable to NIST standards. Where appropriate analytical measurements are traceable through an unbroken chain to NIST standards, or a Certified Reference Material manufactured under ISO Guide 34 in conjunction with ISO/IEC 17025.

Statistical Analysis - RTC uses robust statistics to calculate study means and standard deviations - Reference - Kafadar, K, A Biweight Approach to the One-Sample Problem, Journal of the American Statistical Association, Vol. 77, No. 378, June, 1982, pp. 416-424.

Additional Information - Go to www.pt.sigmainformatics.com for additional information on summary statistics for specific methods, advice on the interpretation of the statistical analysis, and additional comments/recommendations. If you failed an analyte it may be required to perform a corrective action and/or retest. RTC recommends that you contact your accreditation body for specific instruction.

Program analyte accrediting footnotes

¹ NELAC Compliant, covered by RTC's ANAB Proficiency Testing Provider accreditation, Cert. AP-1469

² ISO 17043 Accredited, covered by RTC's ANAB Proficiency Testing Provider accreditation, Cert AP-1469

Authorizing Officer:  _____

Date: 11/30/2016

Patrick Brumfield, ASQ CQA
QA Manager

This section of the report is for informational purposes only. If you are unsure about specific accreditation requirements, please contact your state coordinator.

UNACCEPTABLE ANALYTES

RTC Lab Code: **49670108**

PE1364-20ML

ANIONS - WS

Analytes	MethodNumber	MethodName
Nitrite as N ^{1,2}	10067604	EPA 353.2 2 (1993)
Orthophosphate as P ^{1,2}	10053200	EPA 300.0 2.1 (1993)
Orthophosphate as P ^{1,2}	10070005	EPA 365.1 2 (1993)

PE3488-500ML

TRACE METALS - WS (WHOLE VOLUME) SAMPLE

Analytes	MethodNumber	MethodName
Chromium, Cr (total) ^{1,2}	10014605	EPA 200.8 5.4 (1994)

PASS RATE

Number of Reported Results:	137
Number of Passing Results:	133
Pass Rate:	97.08%