

PERFORMANCE EVALUATION



Scheduled Study

WP16-1

13-Jan-2016 Through 26-Feb-2016

49670108

RTC Labcode

MT00945

EPA Labcode

Participating Laboratory:

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Thank you for participating in study WP16-1. 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.

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Demands

Method:EPA 410.4 2 (1993) [10077404]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Chemical oxygen demand (COD) ^{1,2} 1565 / PE1130-20ML - Lot LRAA7523 /Analyst:CM/ Analysis Date: 2016-01-21	338 mg/L	164	133 to 195	17.06	Not Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:0.9843, b:-0.3171, c:0.0432, d:3.0191</i>

Method:SM 5210 B 22nd ED (2011) [20135017]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
5-day BOD ^{1,2} 1530 / PE1130-20ML - Lot LRAA7523 /Analyst:SW/ Analysis Date: 2016-01-21	108 mg/L	103	55.1 to 150	0.32	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:0.6237, b:0.7022, c:0.0928, d:0.6636</i>
Carbonaceous BOD (CBOD) ^{1,2} 1555 / PE1130-20ML - Lot LRAA7523 /Analyst:SW/ Analysis Date: 2016-01-21	102 mg/L	92.9	43.1 to 143	0.55	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:0.5648, b:0.6665, c:0.0965, d:0.8253</i>

Microbiology

Method:EPA 1603 (2009) [10236154]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Escherichia coli ^{1,2} 2525 / MIC003-2EA - Lot LRAA9312 /Analyst:TB/ Analysis Date: 2016-02-02	110 CFU/100mL	136	0 to 414	-0.28	Acceptable
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>	

Method:SM 9222 D (m-FC) 22nd ED (2010) [20209818]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Fecal coliforms ^{1,2} 2530 / MIC003-2EA - Lot LRAA9312 /Analyst:TB/ Analysis Date: 2016-02-02	100 CFU/100mL	83.7	0 to 223	0.35	Acceptable
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>	

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

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total Coliform, MPN ^{1,2} 2500 / MIC003-2EA - Lot LRAA9312 /Analyst:AC/ Analysis Date: 2016-02-02	203.8 MPN/100 mL	146	0 to 313	1.04	Acceptable
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>	
Escherichia coli, MPN ^{1,2} 2525 / MIC003-2EA - Lot LRAA9312 /Analyst:AC/ Analysis Date: 2016-02-02	203.8 MPN/100 mL	139	0 to 312	1.12	Acceptable
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>	

Minerals

Method:EPA 200.7 4.4 (1994) [10013806]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Calcium, Ca ^{1,2} 1035 / PE1041-1KT - Lot LRAA9549 /Analyst:SD/ Analysis Date: 2016-01-22	54 mg/L	56.5	48 to 65	-0.88	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					
Magnesium, Mg ^{1,2} 1085 / PE1041-1KT - Lot LRAA9549 /Analyst:SD/ Analysis Date: 2016-01-22	24.6 mg/L	25.3	21.5 to 29.1	-0.55	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					
Potassium, K ^{1,2} 1125 / PE1041-1KT - Lot LRAA9549 /Analyst:SD/ Analysis Date: 2016-01-22	10.5 mg/L	10.6	8.48 to 12.7	-0.14	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.0666, d:0</i>					
Sodium, Na ^{1,2} 1155 / PE1041-1KT - Lot LRAA9549 /Analyst:SD/ Analysis Date: 2016-01-22	22.3 mg/L	22.6	18.1 to 27.1	-0.2	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.0666, d:0</i>					

Method:EPA 200.8 5.4 (1994) [10014605]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Calcium, Ca ^{1,2} 1035 / PE1041-1KT - Lot LRAA9549 /Analyst:DK/ Analysis Date: 2016-02-02	55.2 mg/L	56.5	48 to 65	-0.46	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					
Magnesium, Mg ^{1,2} 1085 / PE1041-1KT - Lot LRAA9549 /Analyst:DK/ Analysis Date: 2016-02-02	25.9 mg/L	25.3	21.5 to 29.1	0.47	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					
Potassium, K ^{1,2} 1125 / PE1041-1KT - Lot LRAA9549 /Analyst:DK/ Analysis Date: 2016-02-02	10.7 mg/L	10.6	8.48 to 12.7	0.14	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.0666, d:0</i>					

Sodium, Na ^{1,2}	23.7 mg/L	22.6	18.1 to 27.1	0.73	Acceptable
1155 / PE1041-1KT - Lot LRAA9549 /Analyst:DK/ Analysis Date: 2016-02-03	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.0666, d:0</i>		

Method:EPA 300.0 2.1 (1993) [10053200]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Bromide ^{1,2}	6.73 mg/L	6.42	5.38 to 7.46	0.89	Acceptable
1540 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-21	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1.0098, b:-0.0533, c:0.0400, d:0.0912</i>		
Chloride ^{1,2}	57.6 mg/L	58.1	50.5 to 65.8	-0.2	Acceptable
1575 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-21	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1.005, b:0.0490, c:0.0376, d:0.3716</i>		
Fluoride ^{1,2}	3.09 mg/L	3.05	2.51 to 3.58	0.22	Acceptable
1730 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-21	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9748, b:0.0156, c:0.0487, d:0.0277</i>		
Sulfate ^{1,2}	18.5 mg/L	17.1	13.6 to 20.6	1.21	Acceptable
2000 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-21	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9880, b:-0.2130, c:0.0473, d:0.3309</i>		

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

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Alkalinity as CaCO ₃ ^{1,2}	50.2 mg/L	48.8	41.5 to 56.1	0.58	Acceptable
1505 / PE1041-1KT - Lot LRAA9549 /Analyst:SW/ Analysis Date: 2016-01-20	<i>Evaluation Criteria - 4</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - break:40, highPercentage:0.15, lowPercentage:0.20</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}	236 mg/L	245	208 to 282	-0.73	Acceptable

1755 / PE1041-1KT - Lot LRAA9549
 /Analyst:SD/ Analysis Date: 2016-01-25

Evaluation Criteria - 1
 Voluntary

Evaluation Parameter - a:1, b:0, c:0.05, d:0

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

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Specific conductance, Conductivity (25°C) ^{1,2}	694 umhos/cm	702	632 to 772	-0.34	Acceptable
1610 / PE1041-1KT - Lot LRAA9549 /Analyst:SW/ Analysis Date: 2016-01-20 Evaluation Criteria - 1 <input type="checkbox"/> Voluntary Evaluation Parameter - a:1, b:0, c:0.0333, d:0					

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

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total Solids (TS) ^{1,2}	656 mg/L	620	575 to 665	2.4	Acceptable
1950 / PE3050-500ML - Lot LRAA8001 /Analyst:SW/ Analysis Date: 2016-01-21 Evaluation Criteria - 1 <input type="checkbox"/> Voluntary Evaluation Parameter - a:1.00, b:0.00, c:0.00, d:15.0					

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}	590 mg/L	560	515 to 605	2	Acceptable
1955 / PE3050-500ML - Lot LRAA8001 /Analyst:SW/ Analysis Date: 2016-01-21 Evaluation Criteria - 1 <input type="checkbox"/> Voluntary Evaluation Parameter - a:1, b:0, c:0, d:15.0					

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

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Fluoride ^{1,2}	3 mg/L	3.05	2.51 to 3.58	-0.28	Acceptable
1730 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-25 Evaluation Criteria - 1 <input type="checkbox"/> Voluntary Evaluation Parameter - a:0.9748, b:0.0156, c:0.0487, d:0.0277					

Miscellaneous Analytes

Method:EPA 1632A (1998) [10123407]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Arsenic (V) ² 1011 / PE1075-20ML - Lot LRAB0350 /Analyst:RK/ Analysis Date: 2016-01-25	2100 ug/L	942	659 to 1220	12.29	Not Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>					
Arsenic (III) ^{1,2} 1012 / PE1075-20ML - Lot LRAB0350 /Analyst:RK/ Analysis Date: 2016-01-25	2190 ug/L	1140	798 to 1480	9.21	Not Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>					

Method:EPA 200.7 4.4 (1994) [10013806]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Sulfur ^{1,2} 2017 / PE1285-20ML - Lot LRAB0316 /Analyst:SD/ Analysis Date: 2016-01-22	28.4 mg/L	29.4	20.6 to 38.2	-0.34	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>					

Method:EPA 300.0 2.1 (1993) [10053200]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Iodide ² 99 / PE1047-20ML - Lot LRAB0296 /Analyst:SW/ Analysis Date: 2016-01-22	38 mg/L	41.3	28.9 to 53.7	-0.8	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>					

Method:SM 10200 H 21st ED (2001) [20300225]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Chlorophyll a ² 9346 / PE1311-2ML - Lot LRAA7820 /Analyst:RK/ Analysis Date: 2016-02-02	68.9 ug/L	57.6	0 to 119	0.55	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:0.7, b:0, c:0.25, d:0</i>					

Method:SM 2120 B 22nd Ed (2011) [20039014]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Color ^{1,2} 1605 / PE1126-20ML - Lot LRAA9595 /Analyst:SW/ Analysis Date: 2016-01-20	42 PC Units	29	18.4 to 39.7	3.67	Not Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	<i>Evaluation Parameter - a:0.9474, b:0.6098, c:0.0367, d:2.4407</i>		

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

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Turbidity ^{1,2} 2055 / PE1081-20ML - Lot LRAA8879 /Analyst:SW/ Analysis Date: 2016-01-22	10.6 NTU	10.6	8.66 to 12.6	0	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	<i>Evaluation Parameter - a:1.0040, b:-0.0368, c:0.0475, d:0.1575</i>		

Method:SM 2310 B 22nd Ed (2011) [20044411]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Acidity, as CaCO ₃ ^{1,2} 1500 / PE1269-20ML - Lot LRAA8806 /Analyst:SW/ Analysis Date: 2016-01-25	860 mg/L	834	751 to 917	0.94	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	<i>Evaluation Parameter - a:1, b:0, c:.03333334, d:0</i>		

Method:SM 2540 D 22nd Ed (2011) [20051018]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total Suspended Solids, Non-Filterable Residue (TSS) ^{1,2} 1960 / PE3050-500ML - Lot LRAA8001 /Analyst:SW/ Analysis Date: 2016-01-21	62 mg/L	57.6	47.5 to 67.7	1.31	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	<i>Evaluation Parameter - a:0.9728, b:-0.6338, c:0.0300, d:1.5793</i>		

Method:SM 2540 F 22nd Ed (2011) [20052011]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Settleable solids ^{1,2}	10 mL/L	12.2	8.72 to 15.6	-1.91	Acceptable

1965 / PE1194-1EA - Lot LRAA7765
 /Analyst:SW/ Analysis Date: 2016-01-21

Evaluation Criteria - 1
 Voluntary

Evaluation Parameter - a:1.0436, b:-0.0108,
 c:0.0597, d:4546

Method:SM 3114 C 22nd Ed (2011) [20060235]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Selenium (VI) ^{1,2} 1141 / PE1075-20ML - Lot LRAB0350 /Analyst:RK/ Analysis Date: 2016-01-26	2250 ug/L	872	610 to 1130	15.8	Not Acceptable
		Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:1, b:0, c:0.1, d:0	
Selenium (IV) ^{1,2} 1142 / PE1075-20ML - Lot LRAB0350 /Analyst:RK/ Analysis Date: 2016-01-26	1350 ug/L	931	512 to 1350	2.99	Acceptable
		Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:1, b:0, c:0.15, d:0	

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

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total residual chlorine ^{1,2} 1940 / PE1065-2ML - Lot LRAA7602 /Analyst:SW/ Analysis Date: 2016-01-22	0.75 mg/L	0.81	0.61 to 1	-0.86	Acceptable
		Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:0.9345, b:0.0392, c:0.0688, d:0.0073	
Residual free chlorine ^{1,2} 1945 / PE1065-2ML - Lot LRAA7602 /Analyst:SW/ Analysis Date: 2016-01-22	0.72 mg/L	0.81	0.61 to 1	-1.33	Acceptable
		Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:0.9345, b:0.0392, c:0.0688, d:0.0073	

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

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
pH ^{1,2} 1900 / PE1210-100ML - Lot LRAA9689 /Analyst:SW/ Analysis Date: 2016-01-20	7.88 Units	7.9	7.7 to 8.1	-0.3	Acceptable
		Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:1, b:0, c:0, d:0.06667	

Method:SM 4500-O G 22nd ED (2011) [20121419]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
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Oxygen, dissolved ^{1,2}	6.79 mg/L	7.72	5.4 to 10	-1.2	Acceptable
1880 / PE1077-2ML - Lot LRAA8215 /Analyst:SW/ Analysis Date: 2016-01-25	<i>Evaluation Criteria - 2</i>		<i>Evaluation Parameter - c:0.1, d:0</i>		
	<input type="checkbox"/> Voluntary				

Nutrients

Method:EPA 300.0 2.1 (1993) [10053200]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Nitrate as N ^{1,2} 1810 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-21	6.94 mg/L	6.9	5.66 to 8.15	0.1	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:0.9975, b:-0.0005, c:0.0506, d:0.0642</i>					
Nitrate+nitrite as N ^{1,2} 1820 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-21	8.29 mg/L	7.85	6.52 to 9.17	1	Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:0.9957, b:-0.0010, c:0.0509, d:0.0400</i>					
Nitrite as N ^{1,2} 1840 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-21	1.32 mg/L	0.97	0.78 to 1.15	5.74	Not Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1.0017, b:-0.0030, c:0.0377, d:0.0250</i>					
Orthophosphate as P ^{1,2} 1870 / PE1060-20ML - Lot LRAA9629 /Analyst:SW/ Analysis Date: 2016-01-21	1.47 mg/L	2.5	2.13 to 2.88	-8.24	Not Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>					

Method:EPA 350.1 2 (1993) [10063602]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Ammonia as N ^{1,2} 1515 / PE1195-20ML - Lot LRAA9425 /Analyst:CM/ Analysis Date: 2016-01-25	33.7 mg/L	14.2	11.5 to 17	21.08	Not Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:0.9923, b:0.0567, c:0.0583, d:0.0914</i>					

Method:EPA 353.2 2 (1993) [10067604]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Nitrate as N ^{1,2} 1810 / PE1195-20ML - Lot LRAA9425 /Analyst:AC/ Analysis Date: 2016-01-28	2.05 mg/L	7.03	5.77 to 8.29	-11.83	Not Acceptable
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
<i>Evaluation Parameter - a:0.9975, b:-0.0005, c:0.0506, d:0.0642</i>					

Nitrate+nitrite as N ^{1,2}	2.05 mg/L	7.02	5.82 to 8.22	-12.46	Not Acceptable
1820 / PE1195-20ML - Lot LRAA9425 /Analyst:CM/ Analysis Date: 2016-01-20	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9957, b:-0.0010, c:0.0509, d:0.0400</i>		

Nitrite as N ^{1,2}	1.96 mg/L	2.02	1.72 to 2.32	-0.59	Acceptable
1840 / PE1153-2ML - Lot LRAA7843 /Analyst:CM/ Analysis Date: 2016-01-21	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1.0017, b:-0.0030, c:0.0377, d:0.0250</i>		

Method:EPA 365.1 2 (1993) [10070005]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Orthophosphate as P ^{1,2}	0.138 mg/L	1.46	1.24 to 1.68	-18.11	Not Acceptable
1870 / PE1195-20ML - Lot LRAA9425 /Analyst:CM/ Analysis Date: 2016-01-21	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>		
Phosphorus as P, total ^{1,2}	1.74 mg/L	1.98	1.61 to 2.36	-1.9	Acceptable
1910 / PE1051-2ML - Lot LRAA8570 /Analyst:CM/ Analysis Date: 2016-01-21	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9932, b:0.0084, c:0.0506, d:0.0254</i>		

Method:SM 4500-Norg C 21st ED (1997) [20119806]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Kjeldahl nitrogen, total (TKN) ^{1,2}	15.7 mg/L	13.8	10.4 to 17.2	1.67	Acceptable
1795 / PE1051-2ML - Lot LRAA8570 /Analyst:CM/ Analysis Date: 2016-01-26	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9701, b:0.2283, c:0.0680, d:0.1906</i>		
Nitrogen, total ²	15.7 mg/L	13.7	9.28 to 18.1	1.36	Acceptable
1866 / PE1051-2ML - Lot LRAA8570 /Analyst:AC/ Analysis Date: 2016-01-28	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9645, b:0.1885, c:0.1035, d:0.0225</i>		
Nitrogen, total ²	13.7 mg/L	13.7	9.28 to 18.1	0	Acceptable
1866 / PE1051-2ML - Lot LRAA8570 /Analyst:CM/ Analysis Date: 2016-01-28	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9645, b:0.1885, c:0.1035, d:0.0225</i>		

Trace Metals - Waste Water

Method: EPA 200.7 4.4 (1994) [10013806]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-28	621 ug/L	618	511 to 725	0.08	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9864, b:-1.1174, c:0.0471, d:6.1230</i>
Arsenic, As ^{1,2} 1010 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	820 ug/L	829	708 to 950	-0.22	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9916, b:1.2647, c:0.0422, d:5.1741</i>
Barium, Ba ^{1,2} 1015 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-28	1340 ug/L	1370	1160 to 1580	-0.44	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Beryllium, Be ^{1,2} 1020 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	216 ug/L	221	188 to 254	-0.45	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Boron, B ^{1,2} 1025 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-28	1450 ug/L	1460	1240 to 1680	-0.14	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Cadmium, Cd ^{1,2} 1030 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	58.6 ug/L	60.7	51.6 to 69.8	-0.69	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Chromium, Cr (total) ^{1,2} 1040 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	747 ug/L	759	645 to 873	-0.32	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Cobalt, Co ^{1,2} 1050 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	619 ug/L	647	550 to 744	-0.86	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Copper, Cu ^{1,2} 1055 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	159 ug/L	156	133 to 179	0.38	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>

Method: EPA 200.7 4.4 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Iron, Fe ^{1,2} 1070 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	1930 ug/L	2000	1700 to 2300	-0.7	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Lead, Pb ^{1,2} 1075 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	659 ug/L	690	587 to 794	-0.9	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Lithium, Li ² 1080 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	542 ug/L	552	386 to 718	-0.18	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>
Manganese, Mn ^{1,2} 1090 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	1050 ug/L	1080	918 to 1240	-0.56	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Molybdenum, Mo ^{1,2} 1100 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-28	331 ug/L	330	286 to 375	0.07	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9953, b:-0.1614, c:0.0372, d:2.5555</i>
Nickel, Ni ^{1,2} 1105 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	631 ug/L	648	566 to 731	-0.62	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1.0012, b:1.5795, c:0.0368, d:3.8151</i>
Selenium, Se ^{1,2} 1140 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	749 ug/L	776	660 to 892	-0.7	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Strontium, Sr ^{1,2} 1160 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-28	235 ug/L	236	201 to 271	-0.08	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Thallium, Tl ^{1,2} 1165 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	510 ug/L	499	414 to 584	0.39	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9932, b:-0.9634, c:0.0479, d:4.2361</i>

Method:EPA 200.7 4.4 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Tin, Sn ^{1,2} 1175 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-28	1420 ug/L	1450	1010 to 1880	-0.21	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>
Titanium, Ti ^{1,2} 1180 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-28	146 ug/L	140	119 to 161	0.86	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Vanadium, V ^{1,2} 1185 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	390 ug/L	396	337 to 455	-0.3	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Zinc, Zn ^{1,2} 1190 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	1740 ug/L	1760	1500 to 2020	-0.23	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Aluminum, Al ^{1,2} 1000 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	1020 ug/L	1000	825 to 1180	0.34	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9823, b:9.5889, c:0.0471, d:11.2110</i>

Method:EPA 200.8 5.4 (1994) [10014605]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-01	630 ug/L	618	511 to 725	0.34	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9864, b:-1.1174, c:0.0471, d:6.1230</i>
Arsenic, As ^{1,2} 1010 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	800 ug/L	829	708 to 950	-0.72	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9916, b:1.2647, c:0.0422, d:5.1741</i>
Barium, Ba ^{1,2} 1015 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-01	1360 ug/L	1370	1160 to 1580	-0.15	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>

Beryllium, Be ^{1,2} 1020 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	198 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	221 188 to 254	-2.07	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Boron, B ^{1,2} 1025 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-05	1530 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	1460 1240 to 1680	0.96	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Cadmium, Cd ^{1,2} 1030 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	56.6 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	60.7 51.6 to 69.8	-1.35	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Chromium, Cr (total) ^{1,2} 1040 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	707 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	759 645 to 873	-1.37	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Cobalt, Co ^{1,2} 1050 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	623 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	647 550 to 744	-0.74	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Copper, Cu ^{1,2} 1055 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	152 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	156 133 to 179	-0.51	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>

Method:EPA 200.8 5.4 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Iron, Fe ^{1,2} 1070 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	2030 ug/L	2000	1700 to 2300	0.3	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Lead, Pb ^{1,2} 1075 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	624 ug/L	690	587 to 794	-1.91	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Manganese, Mn ^{1,2} 1090 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	1010 ug/L	1080	918 to 1240	-1.3	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Molybdenum, Mo ^{1,2} 1100 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-01	313 ug/L	330	286 to 375	-1.14	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9953, b:-0.1614, c:0.0372, d:2.5555</i>
Nickel, Ni ^{1,2} 1105 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	624 ug/L	648	566 to 731	-0.87	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1.0012, b:1.5795, c:0.0368, d:3.8151</i>
Selenium, Se ^{1,2} 1140 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	761 ug/L	776	660 to 892	-0.39	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Silver, Ag ^{1,2} 1150 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-01	137 ug/L	136	116 to 156	0.15	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Strontium, Sr ^{1,2} 1160 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-01	243 ug/L	236	201 to 271	0.59	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Thallium, Tl ^{1,2} 1165 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-01	502 ug/L	499	414 to 584	0.11	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9932, b:-0.9634, c:0.0479, d:4.2361</i>

Method:EPA 200.8 5.4 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Tin, Sn ^{1,2} 1175 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-01	1380 ug/L	1450	1010 to 1880	-0.48	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>
Titanium, Ti ^{1,2} 1180 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-01	137 ug/L	140	119 to 161	-0.43	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Vanadium, V ^{1,2} 1185 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	361 ug/L	396	337 to 455	-1.77	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Zinc, Zn ^{1,2} 1190 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	1740 ug/L	1760	1500 to 2020	-0.23	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Aluminum, Al ^{1,2} 1000 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	968 ug/L	1000	825 to 1180	-0.54	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9823, b:9.5889, c:0.0471, d:11.2110</i>

Method:EPA 6010B (1996) [10155609]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	637 ug/L	618	511 to 725	0.53	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9864, b:-1.1174, c:0.0471, d:6.1230</i>
Arsenic, As ^{1,2} 1010 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	848 ug/L	829	708 to 950	0.47	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9916, b:1.2647, c:0.0422, d:5.1741</i>
Barium, Ba ^{1,2} 1015 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	1360 ug/L	1370	1160 to 1580	-0.15	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>

Beryllium, Be ^{1,2} 1020 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	222 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	221	188 to 254	0.09	Acceptable	<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Boron, B ^{1,2} 1025 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	1500 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	1460	1240 to 1680	0.55	Acceptable	<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Cadmium, Cd ^{1,2} 1030 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	62.1 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	60.7	51.6 to 69.8	0.46	Acceptable	<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Chromium, Cr (total) ^{1,2} 1040 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	765 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	759	645 to 873	0.16	Acceptable	<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Cobalt, Co ^{1,2} 1050 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	647 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	647	550 to 744	0	Acceptable	<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Copper, Cu ^{1,2} 1055 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	161 ug/L <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	156	133 to 179	0.64	Acceptable	<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>

Method:EPA 6010B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Iron, Fe ^{1,2} 1070 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	2000 ug/L	2000	1700 to 2300	0	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Lead, Pb ^{1,2} 1075 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	683 ug/L	690	587 to 794	-0.2	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Lithium, Li ² 1080 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	552 ug/L	552	386 to 718	0	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>
Manganese, Mn ^{1,2} 1090 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	1090 ug/L	1080	918 to 1240	0.19	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Molybdenum, Mo ^{1,2} 1100 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	337 ug/L	330	286 to 375	0.47	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9953, b:-0.1614, c:0.0372, d:2.5555</i>
Nickel, Ni ^{1,2} 1105 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	658 ug/L	648	566 to 731	0.36	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1.0012, b:1.5795, c:0.0368, d:3.8151</i>
Selenium, Se ^{1,2} 1140 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	753 ug/L	776	660 to 892	-0.59	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Silver, Ag ^{1,2} 1150 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	134 ug/L	136	116 to 156	-0.29	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Strontium, Sr ^{1,2} 1160 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	251 ug/L	236	201 to 271	1.27	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>

Method:EPA 6010B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Thallium, Tl ^{1,2} 1165 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	514 ug/L	499	414 to 584	0.53	Acceptable <i>Evaluation Parameter - a:0.9932, b:-0.9634, c:0.0479, d:4.2361</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Tin, Sn ^{1,2} 1175 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	1390 ug/L	1450	1010 to 1880	-0.41	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Titanium, Ti ^{1,2} 1180 / PE3053-500ML - Lot LRAA8910 /Analyst:SD/ Analysis Date: 2016-01-29	150 ug/L	140	119 to 161	1.43	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Vanadium, V ^{1,2} 1185 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	401 ug/L	396	337 to 455	0.25	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Zinc, Zn ^{1,2} 1190 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	1810 ug/L	1760	1500 to 2020	0.57	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Aluminum, Al ^{1,2} 1000 / PE3132-500ML - Lot LRAA8316 /Analyst:SD/ Analysis Date: 2016-01-21	1050 ug/L	1000	825 to 1180	0.85	Acceptable <i>Evaluation Parameter - a:0.9823, b:9.5889, c:0.0471, d:11.2110</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			

Method:EPA 6020B (2014) [10156420]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-03	630 ug/L	618	511 to 725	0.34	Acceptable <i>Evaluation Parameter - a:0.9864, b:-1.1174, c:0.0471, d:6.1230</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Arsenic, As ^{1,2} 1010 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	815 ug/L	829	708 to 950	-0.35	Acceptable <i>Evaluation Parameter - a:0.9916, b:1.2647, c:0.0422, d:5.1741</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			

Barium, Ba ^{1,2} 1015 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-03	1380 ug/L	1370	1160 to 1580	0.15	Acceptable
	<i>Evaluation Criteria - 1</i>				<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
	<input type="checkbox"/> Voluntary				
Beryllium, Be ^{1,2} 1020 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	213 ug/L	221	188 to 254	-0.72	Acceptable
	<i>Evaluation Criteria - 1</i>				<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
	<input type="checkbox"/> Voluntary				
Cadmium, Cd ^{1,2} 1030 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	59.4 ug/L	60.7	51.6 to 69.8	-0.43	Acceptable
	<i>Evaluation Criteria - 1</i>				<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
	<input type="checkbox"/> Voluntary				
Chromium, Cr (total) ^{1,2} 1040 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	724 ug/L	759	645 to 873	-0.92	Acceptable
	<i>Evaluation Criteria - 1</i>				<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
	<input type="checkbox"/> Voluntary				
Cobalt, Co ^{1,2} 1050 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	638 ug/L	647	550 to 744	-0.28	Acceptable
	<i>Evaluation Criteria - 1</i>				<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
	<input type="checkbox"/> Voluntary				
Copper, Cu ^{1,2} 1055 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	157 ug/L	156	133 to 179	0.13	Acceptable
	<i>Evaluation Criteria - 1</i>				<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
	<input type="checkbox"/> Voluntary				
Iron, Fe ^{1,2} 1070 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	2080 ug/L	2000	1700 to 2300	0.8	Acceptable
	<i>Evaluation Criteria - 1</i>				<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
	<input type="checkbox"/> Voluntary				

Method: EPA 6020B (2014) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Lead, Pb ^{1,2} 1075 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	654 ug/L	690	587 to 794	-1.04	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Manganese, Mn ^{1,2} 1090 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	1040 ug/L	1080	918 to 1240	-0.74	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Molybdenum, Mo ^{1,2} 1100 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-03	329 ug/L	330	286 to 375	-0.07	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9953, b:-0.1614, c:0.0372, d:2.5555</i>
Nickel, Ni ^{1,2} 1105 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	640 ug/L	648	566 to 731	-0.29	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1.0012, b:1.5795, c:0.0368, d:3.8151</i>
Selenium, Se ^{1,2} 1140 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	749 ug/L	776	660 to 892	-0.7	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Silver, Ag ^{1,2} 1150 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-03	143 ug/L	136	116 to 156	1.03	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Strontium, Sr ^{1,2} 1160 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-03	252 ug/L	236	201 to 271	1.36	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Thallium, Tl ^{1,2} 1165 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-03	502 ug/L	499	414 to 584	0.11	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9932, b:-0.9634, c:0.0479, d:4.2361</i>
Tin, Sn ^{1,2} 1175 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-03	1460 ug/L	1450	1010 to 1880	0.07	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>

Method:EPA 6020B (2014) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Titanium, Ti ^{1,2} 1180 / PE3053-500ML - Lot LRAA8910 /Analyst:DK/ Analysis Date: 2016-02-05	151 ug/L	140	119 to 161	1.57	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>	
Vanadium, V ^{1,2} 1185 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	374 ug/L	396	337 to 455	-1.11	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>	
Zinc, Zn ^{1,2} 1190 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	1760 ug/L	1760	1500 to 2020	0	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>	
Aluminum, Al ^{1,2} 1000 / PE3132-500ML - Lot LRAA8316 /Analyst:DK/ Analysis Date: 2016-01-21	988 ug/L	1000	825 to 1180	-0.2	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:0.9823, b:9.5889, c:0.0471, d:11.2110</i>	

Method:EPA 7470A (1994) [10165807]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Mercury, Hg ^{1,2} 1095 / PE3132-500ML - Lot LRAA8316 /Analyst:RK/ Analysis Date: 2016-02-02	17.5 ug/L	17.6	12.3 to 22.9	-0.06	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>	

Volatile Aromatics

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Benzene ^{1,2} 4375 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	47.2 ug/L	46.3	32.4 to 60.1	0.19	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
1,2-Dichlorobenzene ^{1,2} 4610 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	16.8 ug/L	16.5	11.6 to 21.5	0.18	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
1,3-Dichlorobenzene ^{1,2} 4615 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	102 ug/L	114	80 to 149	-1.05	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
1,4-Dichlorobenzene ^{1,2} 4620 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	76.8 ug/L	86.9	60.8 to 113	-1.16	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
Ethylbenzene ^{1,2} 4765 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	25.4 ug/L	26.3	18.4 to 34.2	-0.34	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
Naphthalene ^{1,2} 5005 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	38.1 ug/L	37	18.5 to 55.5	0.18	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.8785, b:1.4343, c:0.1335, d:0.7561</i>
Styrene ^{1,2} 5100 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	76.4 ug/L	77.7	50.5 to 105	-0.14	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
Toluene ^{1,2} 5140 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	101 ug/L	111	77.7 to 144	-0.9	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
1,2,4-Trichlorobenzene ^{1,2} 5155 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	23.4 ug/L	19.8	8.09 to 31.5	0.92	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9160, b:-1.3028, c:0.1473, d:0.5100</i>

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
m+p-Xylene ^{1,2} 5240 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	71.2 ug/L	77.8	46.7 to 109	-0.63	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
o-Xylene ^{1,2} 5250 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	94 ug/L	95.5	57.3 to 134	-0.12	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
Xylene, total ^{1,2} 5260 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	165 ug/L	173	104 to 243	-0.35	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					

Volatile Halocarbons

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Bromodichloromethane ^{1,2} 4395 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>		
Bromoform ^{1,2} 4400 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	71.6 ug/L	74.3	44.6 to 104	-0.27	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>		
Carbon tetrachloride ^{1,2} 4455 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	121 ug/L	133	79.2 to 187	-0.67	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9577, b:0.0612, c:0.1269, d:0.3443</i>		
Chlorobenzene ^{1,2} 4475 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>		
Chloroethane ^{1,2} 4485 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	61.2 ug/L	94.1	37.6 to 151	-1.75	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>		
Chloroform ^{1,2} 4505 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	19.1 ug/L	18.6	13 to 24.1	0.27	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>		
1,2-Dibromo-3-chloropropane (DBCP) ^{1,2} 4570 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	26 ug/L	25.1	15 to 35.1	0.27	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>		
Dibromochloromethane ^{1,2} 4575 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>		
1,2-Dibromoethane (EDB, Ethylene dibromide) ^{1,2} 4585 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	67.2 ug/L	52.3	34 to 70.6	2.44	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>		

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Dibromomethane ^{1,2} 4595 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<1 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
1,1-Dichloroethane ^{1,2} 4630 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	81.6 ug/L	84.1	53.1 to 115	-0.24	Acceptable <i>Evaluation Parameter - a:0.9977, b:0.2117, c:0.1227, d:0.0174</i>
1,2-Dichloroethane ^{1,2} 4635 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	100 ug/L	97	69 to 125	0.32	Acceptable <i>Evaluation Parameter - a:0.9843, b:1.3728, c:0.0912, d:0.4693</i>
1,1-Dichloroethylene ^{1,2} 4640 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	89.6 ug/L	83.4	47.5 to 119	0.52	Acceptable <i>Evaluation Parameter - a:1.0034, b:0.6630, c:0.1447, d:0.0521</i>
cis-1,2-Dichloroethylene ^{1,2} 4645 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	119 ug/L	111	74.6 to 148	0.66	Acceptable <i>Evaluation Parameter - a:0.9973, b:0.3699, c:0.1095, d:0.0036</i>
1,2-Dichloropropane ^{1,2} 4655 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
cis-1,3-Dichloropropene ^{1,2} 4680 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	34.5 ug/L	35.5	23.1 to 48	-0.24	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
trans-1,3-Dichloropropene ^{1,2} 4685 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	56.4 ug/L	58.7	38.2 to 79.3	-0.34	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
trans-1,2-Dichloroethylene ^{1,2} 4700 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	31.6 ug/L	29.9	18 to 41.9	0.43	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>

Method: EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Methyl bromide (Bromomethane) ^{1,2} 4950 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>
Methyl chloride (Chloromethane) ^{1,2} 4960 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	65.2 ug/L	74.8	29.9 to 120	-0.64	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>
Methylene chloride (Dichloromethane) ^{1,2} 4975 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>
1,1,1,2-Tetrachloroethane ^{1,2} 5105 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	119 ug/L	119	77.2 to 160	0	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
1,1,2,2-Tetrachloroethane ^{1,2} 5110 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	112 ug/L	109	71 to 147	0.24	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	41.6 ug/L	38.3	22.5 to 54	0.63	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9416, b:-0.5063, c:0.1189, d:0.3441</i>
1,1,1-Trichloroethane ^{1,2} 5160 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	30.7 ug/L	29.4	17.6 to 41.2	0.33	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>
1,1,2-Trichloroethane ^{1,2} 5165 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	90.8 ug/L	81.6	57.1 to 106	1.13	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
Trichloroethene (Trichloroethylene) ^{1,2} 5170 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	0.402 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9611, b:0.5720, c:0.1077, d:0.2478</i>

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Trichlorofluoromethane ^{1,2} 5175 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	41.2 ug/L	44.9	18 to 71.9	-0.41	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>		
1,2,3-Trichloropropane ^{1,2} 5180 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	76.8 ug/L	71.4	32.9 to 110	0.42	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9867, b:-0.4721, c:0.1630, d:0.9605</i>		
Vinyl chloride ^{1,2} 5235 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	44.8 ug/L	49.9	20 to 79.8	-0.51	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>		

Group Analysis Summary
 Acceptable : 30 / 30
 Score : 100% - (Acceptable)

Volatile Ketones/Ethers

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
2-Hexanone ^{1,2} 4860 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	102 ug/L	68	31 to 105	2.76	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1.0054, b:-1.1748, c:0.1534, d:1.7764</i>
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	190 ug/L	150	95.5 to 205	2.19	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1.0022, b:-1.0337, c:0.0934, d:4.1819</i>
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	100 ug/L	85.1	56.3 to 114	1.55	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1.0233, b:-0.3620, c:0.1112, d:0.3083</i>

Volatiles

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Acetone ^{1,2} 4315 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	286 ug/L	177	52.7 to 302	2.63	Acceptable <i>Evaluation Parameter - a:0.8856, b:3.5838, c:0.2028, d:1.7474</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				
Acetonitrile ^{1,2} 4320 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<100 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				
Acrolein (Propenal) ^{1,2} 4325 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<200 ug/L	19	0 to 104	-0.67	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				
Acrylonitrile ^{1,2} 4340 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	133 ug/L	140	49.4 to 231	-0.23	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				
Bromobenzene ^{1,2} 4385 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	52.4 ug/L	52.1	17.5 to 86.8	0.03	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				
Bromochloromethane ^{1,2} 4390 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L.	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<50 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				
n-Butylbenzene ^{1,2} 4435 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				
sec-Butylbenzene ^{1,2} 4440 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				

Method: EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
tert-Butylbenzene ^{1,2} 4445 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	71.2 ug/L	83.6	43 to 124	-0.92	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Carbon disulfide ^{1,2} 4450 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
2-Chloroethyl vinyl ether ^{1,2} 4500 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
2-Chlorotoluene ^{1,2} 4535 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
4-Chlorotoluene ^{1,2} 4540 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Dichlorodifluoromethane ^{1,2} 4625 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
1,3-Dichloropropane ^{1,2} 4660 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	58.4 ug/L	52.9	21 to 84.7	0.52	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
2,2-Dichloropropane ^{1,2} 4665 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
1,1-Dichloropropene ^{1,2} 4670 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Hexachlorobutadiene ^{1,2} 4835 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Isopropylbenzene ^{1,2} 4900 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
4-Isopropyltoluene ^{1,2} 4910 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	26 ug/L	27.5	22.4 to 32.7	-0.87	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	74.4 ug/L	79.7	17.4 to 142	-0.25	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
1,2,3-Trichlorobenzene ^{1,2} 5150 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	53.6 ug/L	46.5	13.3 to 79.6	0.65	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
1,2,4-Trimethylbenzene ^{1,2} 5210 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	21.2 ug/L	22.2	14.4 to 29.9	-0.39	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.11666, d:0</i>
1,3,5-Trimethylbenzene ^{1,2} 5215 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	54.8 ug/L	61	39.6 to 82.3	-0.87	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.11666, d:0</i>
Vinyl acetate ^{1,2} 5225 / PE1086-1KT - Lot LRAA7939 /Analyst:KW/ Analysis Date: 2016-01-26	<5.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>

Group Analysis Summary
 Acceptable : 26 / 26
 Score : 100% - (Acceptable)

Sample Information

DEMAND - WP

PE1130-20ML / Lot LRAA7523

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
5-day BOD ^{1,2} 1530 Demands	mg/L	163.23±0.832	94.8	20.5
Carbonaceous BOD (CBOD) ^{1,2} 1555 Demands	mg/L	163.23±0.832	91	14.9
Chemical oxygen demand (COD) ^{1,2} 1565 Demands	mg/L	166.86±0.851	165	15.1
Dissolved organic carbon (DOC) ^{1,2} 1710 Demands	mg/L	65.96±0.336	66	3.77
Total organic carbon (TOC) ^{1,2} 2040 Demands	mg/L	65.96±0.336	64.6	4.91
5-day BOD ^{1,2} 1530 Miscellaneous Analytes	mg/L	163.23±0.832	94.8	20.5
Carbonaceous BOD (CBOD) ^{1,2} 1555 Miscellaneous Analytes	mg/L	163.23±0.832	91	14.9
Chemical oxygen demand (COD) ^{1,2} 1565 Miscellaneous Analytes	mg/L	166.86±0.851	165	15.1
Total organic carbon (TOC) ^{1,2} 2040 Miscellaneous Analytes	mg/L	65.96±0.336	64.6	4.91

MINERALS - WP

PE1041-1KT / Lot LRAA9549

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Calcium, Ca ^{1,2} 1035 Minerals	mg/L	56.5±0.288	54.8	2.53
Magnesium, Mg ^{1,2} 1085 Minerals	mg/L	25.3±0.129	24.7	1.34
Potassium, K ^{1,2} 1125 Minerals	mg/L	10.6±0.054	10.6	0.64
Sodium, Na ^{1,2} 1155 Minerals	mg/L	22.6±0.115	22.6	1.18
Alkalinity as CaCO ₃ ^{1,2} 1505 Minerals	mg/L	48.8±0.249	49.4	2.43
Calcium hardness as CaCO ₃ ^{1,2} 1550 Minerals	mg/L	141±0.719	137	11.5
Specific conductance, Conductivity (25°C) ^{1,2} 1610 Minerals	umhos/cm	702±2.69	700	29.9
Hardness ² 1750 Minerals	mg/L	245±1.25	246	9.66
Hardness, total as CaCO ₃ ^{1,2} 1755 Minerals	mg/L	245±1.25	236	13.7
Calcium, Ca ^{1,2} 1035	mg/L	56.5±0.288	54.8	2.53
Magnesium, Mg ^{1,2} 1085	mg/L	25.3±0.129	24.7	1.34
Potassium, K ^{1,2} 1125	mg/L	10.6±0.054	10.6	0.64
Sodium, Na ^{1,2} 1155	mg/L	22.6±0.115	22.6	1.18
Alkalinity as CaCO ₃ ^{1,2} 1505	mg/L	48.8±0.249	49.4	2.43
Calcium hardness as CaCO ₃ ^{1,2} 1550	mg/L	141±0.719	137	11.5
Specific conductance, Conductivity (25°C) ^{1,2} 1610	umhos/cm	702±2.69	700	29.9
Hardness, total as CaCO ₃ ^{1,2} 1755	mg/L	245±1.25	236	13.7

PH - WP - 100ML

PE1210-100ML / Lot LRAA9689

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
pH ^{1,2} 1900 Miscellaneous Analytes	Units	7.90±0.040	7.91	0.04

SIMPLE NUTRIENTS - WP

PE1195-20ML / Lot LRAA9425

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Ammonia as N ^{1,2} 1515 Nutrients	mg/L	14.3±0.073	14.1	0.96
Nitrate as N ^{1,2} 1810 Nutrients	mg/L	7.05±0.036	7.05	0.29
Nitrate+nitrite as N ^{1,2} 1820 Nutrients	mg/L	7.05±0.036	7.03	0.38
Orthophosphate as P ^{1,2} 1870 Nutrients	mg/L	1.46±0.007	1.48	0.06
Ammonia as N ^{1,2} 1515	mg/L	14.3±0.073	14.1	0.96
Nitrate as N ^{1,2} 1810	mg/L	7.05±0.036	7.05	0.29
Nitrate+nitrite as N ^{1,2} 1820	mg/L	7.05±0.036	7.03	0.38
Orthophosphate as P ^{1,2} 1870	mg/L	1.46±0.007	1.48	0.06

COMPLEX NUTRIENTS - WP

PE1051-2ML / Lot LRAA8570

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Kjeldahl nitrogen, total (TKN) ^{1,2} 1795 Nutrients	mg/L	14.0	14.5	1.78
Organic nitrogen ^{1,2} 1865 Nutrients	mg/L	14.04	0	0
Nitrogen, total ² 1866 Nutrients	mg/L	14.0	14.8	1.89
Phosphorus as P, total ^{1,2} 1910 Nutrients	mg/L	1.99	2.07	0.14

NITRITE - WP

PE1153-2ML / Lot LRAA7843

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Nitrite as N ^{1,2} 1840 Nutrients	mg/L	2.02±0.01	2.04	0.06
Nitrite as N ^{1,2} 1840	mg/L	2.02±0.01	2.04	0.06

RESIDUE - WP

PE3050-500ML / Lot LRAA8001

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Total Solids (TS) ^{1,2} 1950 Minerals	mg/L	620±3.003	642	20.4
Total Dissolved Solids at 180°C (TDS) ^{1,2} 1955 Minerals	mg/L	560±2.703	569	23.4
Total Suspended Solids, Non-Filterable Residue (TSS) ^{1,2} 1960 Miscellaneous Analytes	mg/L	59.85±0.300	59.6	3.04
Total Solids (TS) ^{1,2} 1950	mg/L	620±3.003	642	20.4
Total Dissolved Solids at 180°C (TDS) ^{1,2} 1955	mg/L	560±2.703	569	23.4
Total Suspended Solids, Non-Filterable Residue (TSS) ^{1,2} 1960	mg/L	59.85±0.300	59.6	3.04

TOTAL RESIDUAL CHLORINE - WP

PE1065-2ML / Lot LRAA7602

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Total residual chlorine ^{1,2} 1940 Miscellaneous Analytes	mg/L	0.82±0.0042	0.75	0.05
Residual free chlorine ^{1,2} 1945 Miscellaneous Analytes	mg/L	0.82±0.0042	0.74	0.04

ANIONS - WP

PE1060-20ML / Lot LRAA9629

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Bromide ^{1,2} 1540 Minerals	mg/L	6.41±0.033	6.42	0.4
Chloride ^{1,2} 1575 Minerals	mg/L	57.8±0.295	58.2	3.26
Fluoride ^{1,2} 1730 Minerals	mg/L	3.11±0.016	2.95	0.22
Nitrate as NO ₃ ^{1,2} 1805 Nutrients	mg/L	30.6±0.156	30.2	3.37
Nitrate as N ^{1,2} 1810 Nutrients	mg/L	6.92±0.035	6.98	0.28
Nitrate+nitrite as N ^{1,2} 1820 Nutrients	mg/L	7.88±0.040	8.04	0.31
Nitrite as NO ₂ ^{1,2} 1835 Nutrients	mg/L	3.18±0.016	3.1	0.3
Nitrite as N ^{1,2} 1840 Nutrients	mg/L	0.968±0.005	0.95	0.09
Orthophosphate as P ^{1,2} 1870 Nutrients	mg/L	2.50±0.013	2.55	0.17
Sulfate ^{1,2} 2000 Minerals	mg/L	17.5±0.089	17.3	1.24
Bromide ^{1,2} 1540 Miscellaneous Analytes	mg/L	6.41±0.033	6.42	0.4
Chloride ^{1,2} 1575 Miscellaneous Analytes	mg/L	57.8±0.295	58.2	3.26
Fluoride ^{1,2} 1730 Miscellaneous Analytes	mg/L	3.11±0.016	2.95	0.22
Nitrate as N ^{1,2} 1810 Miscellaneous Analytes	mg/L	6.92±0.035	6.98	0.28
Nitrate+nitrite as N ^{1,2} 1820 Miscellaneous Analytes	mg/L	7.88±0.040	8.04	0.31
Nitrite as N ^{1,2} 1840 Miscellaneous Analytes	mg/L	0.968±0.005	0.95	0.09
Orthophosphate as P ^{1,2} 1870 Miscellaneous Analytes	mg/L	2.50±0.013	2.55	0.17
Sulfate ^{1,2} 2000 Miscellaneous Analytes	mg/L	17.5±0.089	17.3	1.24
Bromide ^{1,2} 1540 Anions - Waste Water	mg/L	6.41±0.033	6.42	0.4
Chloride ^{1,2} 1575 Anions - Waste Water	mg/L	57.8±0.295	58.2	3.26
Fluoride ^{1,2} 1730 Anions - Waste Water	mg/L	3.11±0.016	2.95	0.22

Nitrate as NO ₃ ^{1,2} 1805 Anions - Waste Water	mg/L	30.6±0.156	30.2	3.37
Nitrate as N ^{1,2} 1810 Anions - Waste Water	mg/L	6.92±0.035	6.98	0.28
Nitrate+nitrite as N ^{1,2} 1820 Anions - Waste Water	mg/L	7.88±0.040	8.04	0.31
Nitrite as NO ₂ ^{1,2} 1835 Anions - Waste Water	mg/L	3.18±0.016	3.1	0.3
Nitrite as N ^{1,2} 1840 Anions - Waste Water	mg/L	0.968±0.005	0.95	0.09
Orthophosphate as P ^{1,2} 1870 Anions - Waste Water	mg/L	2.50±0.013	2.55	0.17
Sulfate ^{1,2} 2000 Anions - Waste Water	mg/L	17.5±0.089	17.3	1.24

ACIDITY - WP

PE1269-20ML / Lot LRAA8806

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Acidity, as CaCO ₃ ^{1,2} 1500 Miscellaneous Analytes	mg/L	834±5.56	839	33.4
Carbon dioxide ^{1,2} 3755 Miscellaneous Analytes	mg/L		0	0
Screen (+/-) ² 12100 Miscellaneous Analytes	mg/L		0	0

COLOR - WP

PE1126-20ML / Lot LRAA9595

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Color ^{1,2} 1605 Miscellaneous Analytes	PC Units	30±0.153	28.2	5.52

DISSOLVED OXYGEN - WP

PE1077-2ML / Lot LRAA8215

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Oxygen, dissolved ^{1,2} 1880 Miscellaneous Analytes	mg/L	8.00	7.72	2.93
Oxygen, dissolved (Winkler) ^{1,2} 1880 Miscellaneous Analytes	mg/L	22.4	0	0

SETTLEABLE SOLIDS - WP

PE1194-1EA / Lot LRAA7765

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Settleable solids ^{1,2} 1965 Miscellaneous Analytes	mL/L	11.6822±0.0596	11.3	0.85

E. coli in Water - Quantitative WP

MIC003-2EA / Lot LRAA9312

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Total coliforms ^{1,2} 2500 Microbiology	CFU/100mL	272±28.9	191	22.9
Total Coliform, MPN ^{1,2} 2500 Microbiology	MPN/100 mL	272±28.9	146	55.7
Escherichia coli ^{1,2} 2525 Microbiology	CFU/100mL	272±28.9	136	92.7
Escherichia coli, MPN ^{1,2} 2525 Microbiology	MPN/100 mL	272±28.9	139	57.7
Fecal coliforms ^{1,2} 2530 Microbiology	CFU/100mL	272±28.9	83.7	46.4
Fecal coliform, MPN ^{1,2} 2530 Microbiology	MPN/100 mL	272±28.9	135	86.1
Total coliforms ^{1,2} 2500	CFU/100mL	272±28.9	191	22.9
Total Coliform, MPN ^{1,2} 2500	MPN/100 mL	272±28.9	146	55.7
Escherichia coli ^{1,2} 2525	CFU/100mL	272±28.9	136	92.7
Escherichia coli, MPN ^{1,2} 2525	MPN/100 mL	272±28.9	139	57.7
Fecal coliforms ^{1,2} 2530	CFU/100mL	272±28.9	83.7	46.4
Fecal coliform, MPN ^{1,2} 2530	MPN/100 mL	272±28.9	135	86.1

TRACE METALS 1 - WHOLE VOLUME - WP

PE3132-500ML / Lot LRAA8316

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Arsenic, As ^{1,2} 1010 Trace Metals - Waste Water	ug/L	835±4.26	840	48
Beryllium, Be ^{1,2} 1020 Trace Metals - Waste Water	ug/L	221±1.12	206	29.9
Cadmium, Cd ^{1,2} 1030 Trace Metals - Waste Water	ug/L	60.7±6.31	59.1	8.63
Chromium, Cr (total) ^{1,2} 1040 Trace Metals - Waste Water	ug/L	759±3.87	745	41.6
Cobalt, Co ^{1,2} 1050 Trace Metals - Waste Water	ug/L	647±3.3	620	50.8
Copper, Cu ^{1,2} 1055 Trace Metals - Waste Water	ug/L	156±0.793	155	9.22
Iron, Fe ^{1,2} 1070 Trace Metals - Waste Water	ug/L	2000±10.2	1980	106
Lead, Pb ^{1,2} 1075 Trace Metals - Waste Water	ug/L	690±3.52	665	51.4
Lithium, Li ² 1080 Trace Metals - Waste Water	ug/L	552±2.82	554	2.53
Manganese, Mn ^{1,2} 1090 Trace Metals - Waste Water	ug/L	1080±5.49	1060	76.6
Mercury, Hg ^{1,2} 1095 Trace Metals - Waste Water	ug/L	17.6±0.0896	15.3	2.59
Nickel, Ni ^{1,2} 1105 Trace Metals - Waste Water	ug/L	646±3.29	638	67.5
Selenium, Se ^{1,2} 1140 Trace Metals - Waste Water	ug/L	776±3.96	752	65.2
Vanadium, V ^{1,2} 1185 Trace Metals - Waste Water	ug/L	396±2.02	386	23
Zinc, Zn ^{1,2} 1190 Trace Metals - Waste Water	ug/L	1760±9	1630	221
Aluminum, Al ^{1,2} 1000 Trace Metals - Waste Water	ug/L	1010±5.13	1010	54.9

TRACE METALS 2 - WHOLE VOLUME - WP

PE3053-500ML / Lot LRAA8910

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Antimony, Sb ^{1,2} 1005 Trace Metals - Waste Water	ug/L	628±3.2	611	54.5
Barium, Ba ^{1,2} 1015 Trace Metals - Waste Water	ug/L	1370±6.99	1340	23.6
Boron, B ^{1,2} 1025 Trace Metals - Waste Water	ug/L	1463±7.46	1530	97.5
Molybdenum, Mo ^{1,2} 1100 Trace Metals - Waste Water	ug/L	332±1.69	332	8.83
Silver, Ag ^{1,2} 1150 Trace Metals - Waste Water	ug/L	136±0.695	142	2.65
Strontium, Sr ^{1,2} 1160 Trace Metals - Waste Water	ug/L	236±1.2	238	10.3
Thallium, Tl ^{1,2} 1165 Trace Metals - Waste Water	ug/L	503±2.57	508	28.1
Tin, Sn ^{1,2} 1175 Trace Metals - Waste Water	ug/L	1449±7.39	1390	52.7
Titanium, Ti ^{1,2} 1180 Trace Metals - Waste Water	ug/L	140±0.713	145	7.73

SULFUR IN WATER - WP

PE1285-20ML / Lot LRAB0316

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Sulfur ^{1,2} 2017 Miscellaneous Analytes	mg/L	29.4±0.15	0	0
Sulfur ^{1,2} 2017	mg/L	29.4±0.15	0	0

IODIDE IN WATER - WP

PE1047-20ML / Lot LRAB0296

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Iodide ² 99 Miscellaneous Analytes	mg/L	41.3±0.211	0	0

Speciation - Arsenic and Selenium

PE1075-20ML / Lot LRAB0350

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Arsenic (V) ² 1011	ug/L	942±9.13	0	0
Arsenic (III) ^{1,2} 1012	ug/L	1140±11.1	0	0
Selenium (VI) ^{1,2} 1141	ug/L	872±8.46	0	0
Selenium (IV) ^{1,2} 1142	ug/L	931±9.03	0	0

CHLOROPHYLL IN WATER - WS

PE1311-2ML / Lot LRAA7820

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Chlorophylls ² 9345 Miscellaneous Analytes	ug/L	82.23	0	0
Chlorophyll a ² 9346 Miscellaneous Analytes	ug/L	82.23	63.8	6.8

TURBIDITY - WP

PE1081-20ML / Lot LRAA8879

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Turbidity ^{1,2} 2055 Miscellaneous Analytes	NTU	10.64±0.056	10.4	0.76

COMPLETE VOLATILES KIT - WP

PE1086-1KT / Lot LRAA7939

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Acetone ^{1,2} 4315 Volatiles	ug/L	196±1.5859	196	81
Acetonitrile ^{1,2} 4320 Volatiles	ug/L	0±0	0	0
Acrolein (Propenal) ^{1,2} 4325 Volatiles	ug/L	79.83±0.774	19	28.4
Acrylonitrile ^{1,2} 4340 Volatiles	ug/L	124.36±1.206	140	30.2
Benzene ^{1,2} 4375 Volatile Aromatics	ug/L	46.26±0.449	43.7	6.9
Bromobenzene ^{1,2} 4385 Volatiles	ug/L	54.92±0.533	52.1	11.6
Bromochloromethane ^{1,2} 4390 Volatiles	ug/L.	0±0	0	0
Bromodichloromethane ^{1,2} 4395 Volatile Halocarbons	ug/L	0±0	0	0
Bromoform ^{1,2} 4400 Volatile Halocarbons	ug/L	74.25±0.72	68.2	11.4
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410 Volatiles	ug/L	0±0	0	0
n-Butylbenzene ^{1,2} 4435 Volatiles	ug/L	0±0.228	0	0
sec-Butylbenzene ^{1,2} 4440 Volatiles	ug/L	0±0	0	0
tert-Butylbenzene ^{1,2} 4445 Volatiles	ug/L	85.06±0.825	83.6	13.5
Carbon disulfide ^{1,2} 4450 Volatiles	ug/L	0±0	0	0
Carbon tetrachloride ^{1,2} 4455 Volatile Halocarbons	ug/L	138.92±1.348	126	34.1
Chlorobenzene ^{1,2} 4475 Volatile Halocarbons	ug/L	0±0	0	0
Chloroethane ^{1,2} 4485 Volatile Halocarbons	ug/L	94.08±0.913	82.1	16.7
2-Chloroethyl vinyl ether ^{1,2} 4500 Volatiles	ug/L	0±0	0	0
Chloroform ^{1,2} 4505 Volatile Halocarbons	ug/L	18.55±0.18	18.7	2.65
2-Chlorotoluene ^{1,2} 4535 Volatiles	ug/L	0±0	0	0
4-Chlorotoluene ^{1,2} 4540 Volatiles	ug/L	0±0	0	0

Cyclohexane ^{1,2} 4555 Volatiles	ug/L	0±0	0	0
1,2-Dibromo-3-chloropropane (DBCP) ^{1,2} 4570 Volatile Halocarbons	ug/L	25.08±0.243	21.8	3.45
Dibromochloromethane ^{1,2} 4575 Volatile Halocarbons	ug/L	0±0	0	0
1,2-Dibromoethane (EDB, Ethylene dibromide) ^{1,2} 4585 Volatile Halocarbons	ug/L	52.29±0.507	50.8	10.9
Dibromomethane ^{1,2} 4595 Volatile Halocarbons	ug/L	0±0	0	0
1,2-Dichlorobenzene ^{1,2} 4610 Volatile Aromatics	ug/L	16.53±0.16	16.7	1.1
1,3-Dichlorobenzene ^{1,2} 4615 Volatile Aromatics	ug/L	114.25±1.108	115	14.1
1,4-Dichlorobenzene ^{1,2} 4620 Volatile Aromatics	ug/L	86.88±0.843	85.6	7.17
Dichlorodifluoromethane ^{1,2} 4625 Volatiles	ug/L	0±0	0	0
Dichlorofluoromethane ² 4627 Volatiles	ug/L	0±0	0	0
1,1-Dichloroethane ^{1,2} 4630 Volatile Halocarbons	ug/L	84.05±0.815	75.8	15.8
1,2-Dichloroethane ^{1,2} 4635 Volatile Halocarbons	ug/L	97.14±0.942	92.3	12.2
1,1-Dichloroethylene ^{1,2} 4640 Volatile Halocarbons	ug/L	82.48±0.887	79.6	26.2
cis-1,2-Dichloroethylene ^{1,2} 4645 Volatile Halocarbons	ug/L	111.05±1.077	103	20.1
1,2-Dichloropropane ^{1,2} 4655 Volatile Halocarbons	ug/L	0±0	0	0
1,3-Dichloropropane ^{1,2} 4660 Volatiles	ug/L	54.97±0.533	52.9	10.6
2,2-Dichloropropane ^{1,2} 4665 Volatiles	ug/L	0±0	0	0
1,1-Dichloropropene ^{1,2} 4670 Volatiles	ug/L	0±0	0	0
cis-1,3-Dichloropropene ^{1,2} 4680 Volatile Halocarbons	ug/L	35.53±0.345	32	3.28
trans-1,3-Dichloropropene ^{1,2} 4685 Volatile Halocarbons	ug/L	58.71±0.57	53.7	9.75
trans-1,2-Dichloroethylene ^{1,2} 4700 Volatile Halocarbons	ug/L	29.93±0.29	29.3	7.29
Ethylbenzene ^{1,2} 4765 Volatile Aromatics	ug/L	26.28±0.255	25	6.01
Hexachlorobutadiene ^{1,2} 4835 Volatiles	ug/L	0±0	0	0
2-Hexanone ^{1,2} 4860 Volatile Ketones/Ethers	ug/L	68.85±0.668	71.5	19.2
Isopropylbenzene ^{1,2} 4900 Volatiles	ug/L	0±0	0	0

4-Isopropyltoluene ^{1,2} 4910 Volatiles	ug/L	27.83±0.27	27.5	1.72
Methyl acetate ^{1,2} 4940 Volatiles	ug/L	0±0	0	0
Methyl bromide (Bromomethane) ^{1,2} 4950 Volatile Halocarbons	ug/L	0±0	0	0
Methyl chloride (Chloromethane) ^{1,2} 4960 Volatile Halocarbons	ug/L	74.83±0.726	61.2	7.08
Methylcyclohexane ^{1,2} 4965 Volatiles	ug/L	0±0	0	0
Methylene chloride (Dichloromethane) ^{1,2} 4975 Volatile Halocarbons	ug/L	0±0	0	0
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995 Volatile Ketones/Ethers	ug/L	151.13±1.466	157	24.4
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 Volatile Ketones/Ethers	ug/L	83.49±0.81	77.6	9.13
Naphthalene ^{1,2} 5005 Volatile Aromatics	ug/L	40.47±0.393	35.1	8.6
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090 Volatiles	ug/L	85.81±0.832	79.7	20.8
Styrene ^{1,2} 5100 Volatile Aromatics	ug/L	77.71±0.783	70.5	15.8
1,1,1,2-Tetrachloroethane ^{1,2} 5105 Volatile Halocarbons	ug/L	118.78±1.152	120	22.3
1,1,2,2-Tetrachloroethane ^{1,2} 5110 Volatile Halocarbons	ug/L	109.22±1.059	103	15.1
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115 Volatile Halocarbons	ug/L	41.18±0.399	39.1	8.27
Toluene ^{1,2} 5140 Volatile Aromatics	ug/L	111.05±1.077	101	13.3
1,2,3-Trichlorobenzene ^{1,2} 5150 Volatiles	ug/L	51.78±0.502	46.5	11
1,2,4-Trichlorobenzene ^{1,2} 5155 Volatile Aromatics	ug/L	23.04±0.223	20.3	3.55
1,1,1-Trichloroethane ^{1,2} 5160 Volatile Halocarbons	ug/L	29.41±0.285	28.3	4.91
1,1,2-Trichloroethane ^{1,2} 5165 Volatile Halocarbons	ug/L	81.6±0.792	79.3	10.7
Trichloroethene (Trichloroethylene) ^{1,2} 5170 Volatile Halocarbons	ug/L	0±0	0	0
Trichlorofluoromethane ^{1,2} 5175 Volatile Halocarbons	ug/L	44.92±0.436	35.5	4.6
1,2,3-Trichloropropane ^{1,2} 5180 Volatile Halocarbons	ug/L	72.87±0.707	65.3	14.6
Trichlorotrifluoroethane (Freon 113) ^{1,2} 5185 Volatiles	ug/L	0±0	0	0
1,2,4-Trimethylbenzene ^{1,2} 5210 Volatiles	ug/L	22.17±0.215	22.8	1.9
1,3,5-Trimethylbenzene ^{1,2} 5215 Volatiles	ug/L	60.99±0.592	55.8	14.9

Vinyl acetate ^{1,2} 5225 Volatiles	ug/L	0±0	0	0
Vinyl chloride ^{1,2} 5235 Volatile Halocarbons	ug/L	49.89±0.484	41.9	5.95
m+p-Xylene ^{1,2} 5240 Volatile Aromatics	ug/L	77.77±0.755	73.9	19.2
o-Xylene ^{1,2} 5250 Volatile Aromatics	ug/L	95.46±0.926	91.4	23.6
Xylene, total ^{1,2} 5260 Volatile Aromatics	ug/L	173.23±1.68	165	42.9
Chlorobenzene ^{1,2} 4475 Volatile Aromatics	ug/L	0±0	0	0
1,2,4-Trimethylbenzene ^{1,2} 5210 Volatile Aromatics	ug/L	22.17±0.215	22.8	1.9
Acetone ^{1,2} 4315	ug/L	196±1.5859	196	81
Acetonitrile ^{1,2} 4320	ug/L	0±0	0	0
Acrolein (Propenal) ^{1,2} 4325	ug/L	79.83±0.774	19	28.4
Acrylonitrile ^{1,2} 4340	ug/L	124.36±1.206	140	30.2
Benzene ^{1,2} 4375	ug/L	46.26±0.449	43.7	6.9
Bromobenzene ^{1,2} 4385	ug/L	54.92±0.533	52.1	11.6
Bromochloromethane ^{1,2} 4390	ug/L.	0±0	0	0
Bromodichloromethane ^{1,2} 4395	ug/L	0±0	0	0
Bromoform ^{1,2} 4400	ug/L	74.25±0.72	68.2	11.4
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410	ug/L	0±0	0	0
n-Butylbenzene ^{1,2} 4435	ug/L	0±0.228	0	0
sec-Butylbenzene ^{1,2} 4440	ug/L	0±0	0	0
tert-Butylbenzene ^{1,2} 4445	ug/L	85.06±0.825	83.6	13.5
Carbon disulfide ^{1,2} 4450	ug/L	0±0	0	0
Carbon tetrachloride ^{1,2} 4455	ug/L	138.92±1.348	126	34.1
Chlorobenzene ^{1,2} 4475	ug/L	0±0	0	0
Chloroethane ^{1,2} 4485	ug/L	94.08±0.913	82.1	16.7
2-Chloroethyl vinyl ether ^{1,2} 4500	ug/L	0±0	0	0

Chloroform ^{1,2} 4505	ug/L	18.55±0.18	18.7	2.65
2-Chlorotoluene ^{1,2} 4535	ug/L	0±0	0	0
4-Chlorotoluene ^{1,2} 4540	ug/L	0±0	0	0
Cyclohexane ^{1,2} 4555	ug/L	0±0	0	0
1,2-Dibromo-3-chloropropane (DBCP) ^{1,2} 4570	ug/L	25.08±0.243	21.8	3.45
Dibromochloromethane ^{1,2} 4575	ug/L	0±0	0	0
1,2-Dibromoethane (EDB, Ethylene dibromide) ^{1,2} 4585	ug/L	52.29±0.507	50.8	10.9
Dibromomethane ^{1,2} 4595	ug/L	0±0	0	0
1,2-Dichlorobenzene ^{1,2} 4610	ug/L	16.53±0.16	16.7	1.1
1,3-Dichlorobenzene ^{1,2} 4615	ug/L	114.25±1.108	115	14.1
1,4-Dichlorobenzene ^{1,2} 4620	ug/L	86.88±0.843	85.6	7.17
Dichlorodifluoromethane ^{1,2} 4625	ug/L	0±0	0	0
Dichlorofluoromethane ² 4627	ug/L	0±0	0	0
1,1-Dichloroethane ^{1,2} 4630	ug/L	84.05±0.815	75.8	15.8
1,2-Dichloroethane ^{1,2} 4635	ug/L	97.14±0.942	92.3	12.2
1,1-Dichloroethylene ^{1,2} 4640	ug/L	82.48±0.887	79.6	26.2
cis-1,2-Dichloroethylene ^{1,2} 4645	ug/L	111.05±1.077	103	20.1
1,2-Dichloropropane ^{1,2} 4655	ug/L	0±0	0	0
1,3-Dichloropropane ^{1,2} 4660	ug/L	54.97±0.533	52.9	10.6
2,2-Dichloropropane ^{1,2} 4665	ug/L	0±0	0	0
1,1-Dichloropropene ^{1,2} 4670	ug/L	0±0	0	0
cis-1,3-Dichloropropene ^{1,2} 4680	ug/L	35.53±0.345	32	3.28
trans-1,3-Dichloropropene ^{1,2} 4685	ug/L	58.71±0.57	53.7	9.75
trans-1,2-Dichloroethylene ^{1,2} 4700	ug/L	29.93±0.29	29.3	7.29
Ethylbenzene ^{1,2} 4765	ug/L	26.28±0.255	25	6.01

Hexachlorobutadiene ^{1,2} 4835	ug/L	0±0	0	0
2-Hexanone ^{1,2} 4860	ug/L	68.85±0.668	71.5	19.2
Isopropylbenzene ^{1,2} 4900	ug/L	0±0	0	0
4-Isopropyltoluene ^{1,2} 4910	ug/L	27.83±0.27	27.5	1.72
Methyl acetate ^{1,2} 4940	ug/L	0±0	0	0
Methyl bromide (Bromomethane) ^{1,2} 4950	ug/L	0±0	0	0
Methyl chloride (Chloromethane) ^{1,2} 4960	ug/L	74.83±0.726	61.2	7.08
Methylcyclohexane ^{1,2} 4965	ug/L	0±0	0	0
Methylene chloride (Dichloromethane) ^{1,2} 4975	ug/L	0±0	0	0
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995	ug/L	151.13±1.466	157	24.4
Methyl tert-butyl ether (MTBE) ^{1,2} 5000	ug/L	83.49±0.81	77.6	9.13
Naphthalene ^{1,2} 5005	ug/L	40.47±0.393	35.1	8.6
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090	ug/L	85.81±0.832	79.7	20.8
Styrene ^{1,2} 5100	ug/L	77.71±0.783	70.5	15.8
1,1,1,2-Tetrachloroethane ^{1,2} 5105	ug/L	118.78±1.152	120	22.3
1,1,2,2-Tetrachloroethane ^{1,2} 5110	ug/L	109.22±1.059	103	15.1
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115	ug/L	41.18±0.399	39.1	8.27
Toluene ^{1,2} 5140	ug/L	111.05±1.077	101	13.3
1,2,3-Trichlorobenzene ^{1,2} 5150	ug/L	51.78±0.502	46.5	11
1,2,4-Trichlorobenzene ^{1,2} 5155	ug/L	23.04±0.223	20.3	3.55
1,1,1-Trichloroethane ^{1,2} 5160	ug/L	29.41±0.285	28.3	4.91
1,1,2-Trichloroethane ^{1,2} 5165	ug/L	81.6±0.792	79.3	10.7
Trichloroethene (Trichloroethylene) ^{1,2} 5170	ug/L	0±0	0	0
Trichlorofluoromethane ^{1,2} 5175	ug/L	44.92±0.436	35.5	4.6
1,2,3-Trichloropropane ^{1,2} 5180	ug/L	72.87±0.707	65.3	14.6

Trichlorotrifluoroethane (Freon 113) ^{1,2} 5185	ug/L	0±0	0	0
1,2,4-Trimethylbenzene ^{1,2} 5210	ug/L	22.17±0.215	22.8	1.9
1,3,5-Trimethylbenzene ^{1,2} 5215	ug/L	60.99±0.592	55.8	14.9
Vinyl acetate ^{1,2} 5225	ug/L	0±0	0	0
Vinyl chloride ^{1,2} 5235	ug/L	49.89±0.484	41.9	5.95
m+p-Xylene ^{1,2} 5240	ug/L	77.77±0.755	73.9	19.2
o-Xylene ^{1,2} 5250	ug/L	95.46±0.926	91.4	23.6
Xylene, total ^{1,2} 5260	ug/L	173.23±1.68	165	42.9

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.rt-corp.com/reporting 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 ACLASS Proficiency Testing Provider accreditation, Cert. AP-1469

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

Authorizing Officer:  _____

Date: 3/18/2016

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**

PE1060-20ML

ANIONS - WP

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

PE1126-20ML

COLOR - WP

Analytes	MethodNumber	MethodName
Color ^{1,2}	20039014	SM 2120 B 22nd Ed (2011)

PE1130-20ML

DEMAND - WP

Analytes	MethodNumber	MethodName
Chemical oxygen demand (COD) ^{1,2}	10077404	EPA 410.4 2 (1993)

PE1195-20ML

SIMPLE NUTRIENTS - WP

Analytes	MethodNumber	MethodName
Ammonia as N ^{1,2}	10063602	EPA 350.1 2 (1993)
Nitrate as N ^{1,2}	10067604	EPA 353.2 2 (1993)
Nitrate+nitrite as N ^{1,2}	10067604	EPA 353.2 2 (1993)
Orthophosphate as P ^{1,2}	10070005	EPA 365.1 2 (1993)

PE1075-20ML

Speciation - Arsenic and Selenium

Analytes	MethodNumber	MethodName
Selenium (VI) ^{1,2}	20060235	SM 3114 C 22nd Ed (2011)
Arsenic (V) ²	10123407	EPA 1632A (1998)

Arsenic (III)^{1,2}

10123407

EPA 1632A (1998)

PASS RATE

Number of Reported Results:	218
Number of Passing Results:	207
Pass Rate:	94.95%