

PERFORMANCE EVALUATION



Scheduled Study

WP16-3B

06-Jul-2016 Through 19-Aug-2016

49670108

RTC Labcode

MT00945

EPA Labcode

Participating Laboratory:

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Thank you for participating in study WP16-3B. 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 LRAB0836 /Analyst:CM/ Analysis Date: 2016-07-21	197 mg/L	200	165 to 236	-0.25	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 LRAB0836 /Analyst:SW/ Analysis Date: 2016-08-11	103 mg/L	125	67.4 to 182	-1.15	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 LRAB0836 /Analyst:SW/ Analysis Date: 2016-08-12	92.2 mg/L	113	53 to 173	-1.04	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 LRA1891 /Analyst:TB/ Analysis Date: 2016-07-27	144 CFU/100mL	188	32.5 to 344	-0.85	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0, d:51.9</i>	

Method:SM 9222 D (m-FC)-2006 [20210019]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Fecal coliforms ^{1,2} 2530 / MIC003-2EA - Lot LRA1891 /Analyst:TB/ Analysis Date: 2016-07-27	153 CFU/100mL	188	34.3 to 342	-0.68	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0, d:51.3</i>	

Method:SM 9223 B (Colilert®-18 Quanti-Tray®) 21st ED (1997) [20213405]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Total Coliform, MPN ^{1,2} 2500 / MIC003-2EA - Lot LRA1891 /Analyst:AC/ Analysis Date: 2016-07-27	215.2 MPN/100 mL	185	0 to 408	0.41	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 LRA1891 /Analyst:AC/ Analysis Date: 2016-07-27	215.2 MPN/100 mL	171	0 to 385	0.62	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 LRAA9561 /Analyst:SD/ Analysis Date: 2016-07-18	73.9 mg/L	75	63.8 to 86.3	-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>					
Magnesium, Mg ^{1,2} 1085 / PE1041-1KT - Lot LRAA9561 /Analyst:SD/ Analysis Date: 2016-07-18	21.2 mg/L	22	18.7 to 25.3	-0.73	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 LRAA9561 /Analyst:SD/ Analysis Date: 2016-07-18	31.8 mg/L	32.2	25.8 to 38.6	-0.19	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 LRAA9561 /Analyst:SD/ Analysis Date: 2016-07-18	58.7 mg/L	59.3	47.5 to 71.1	-0.15	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 LRAA9561 /Analyst:DK/ Analysis Date: 2016-07-20	66.8 mg/L	75	63.8 to 86.3	-2.19	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 LRAA9561 /Analyst:DK/ Analysis Date: 2016-07-20	22.6 mg/L	22	18.7 to 25.3	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 LRAA9561 /Analyst:DK/ Analysis Date: 2016-07-20	30.3 mg/L	32.2	25.8 to 38.6	-0.89	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}	58.7 mg/L	59.3	47.5 to 71.1	-0.15	Acceptable
1155 / PE1041-1KT - Lot LRAA9561 /Analyst:DK/ Analysis Date: 2016-07-20	<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 mg/L	4.93	4.06 to 5.79	3.72	Not Acceptable
1540 / PE1060-20ML - Lot LRAA9632 /Analyst:SW/ Analysis Date: 2016-07-21	<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}	111 mg/L	108	94.4 to 121	0.68	Acceptable
1575 / PE1060-20ML - Lot LRAA9632 /Analyst:SW/ Analysis Date: 2016-07-21	<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}	1.03 mg/L	1.07	0.83 to 1.31	-0.5	Acceptable
1730 / PE1060-20ML - Lot LRAA9632 /Analyst:SW/ Analysis Date: 2016-07-21	<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}	87.7 mg/L	82.1	69.3 to 94.9	1.31	Acceptable
2000 / PE1060-20ML - Lot LRAA9632 /Analyst:SW/ Analysis Date: 2016-07-21	<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}	130 mg/L	129	110 to 148	0.45	Acceptable
1505 / PE1041-1KT - Lot LRAA9561 /Analyst:SW/ Analysis Date: 2016-07-18	<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}	272 mg/L	278	236 to 320	-0.43	Acceptable

1755 / PE1041-1KT - Lot LRAA9561
 /Analyst:SD/ Analysis Date: 2016-07-18

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}	964 umhos/cm	987	888 to 1090	-0.7	Acceptable
1610 / PE1041-1KT - Lot LRAA9561 /Analyst:SW/ Analysis Date: 2016-07-18 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}	766 mg/L	722	677 to 767	2.93	Acceptable
1950 / PE3050-500ML - Lot LRAB1489 /Analyst:SW/ Analysis Date: 2016-07-19 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}	653 mg/L	633	588 to 678	1.33	Acceptable
1955 / PE3050-500ML - Lot LRAB1489 /Analyst:MC/ Analysis Date: 2016-07-19 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}	1.04 mg/L	1.07	0.83 to 1.31	-0.37	Acceptable
1730 / PE1060-20ML - Lot LRAA9632 /Analyst:SW/ Analysis Date: 2016-07-22 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 LRAB1764 /Analyst:RK/ Analysis Date: 2016-07-20	862 ug/L	998	699 to 1300	-1.36	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 LRAB1764 /Analyst:RK/ Analysis Date: 2016-07-20	721 ug/L	759	531 to 987	-0.5	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 LRAB0439 /Analyst:SD/ Analysis Date: 2016-07-19	57.2 mg/L	54.2	37.9 to 70.5	0.55	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 LRAB1052 /Analyst:SW/ Analysis Date: 2016-07-19	12.3 mg/L	12.3	8.61 to 16	0	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 LRAA9422 /Analyst:RK/ Analysis Date: 2016-07-28	24 ug/L	17.2	0 to 35.7	1.11	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 LRAA9696 /Analyst:SW/ Analysis Date: 2016-07-18	40 PC Units	42.1	30 to 54.3	-0.52	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 LRAA8880 /Analyst:SW/ Analysis Date: 2016-07-21	6.54 NTU	6.62	5.2 to 8.04	-0.17	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 LRAA8807 /Analyst:SW/ Analysis Date: 2016-07-20	1360 mg/L	1360	1220 to 1500	0	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 LRAB1489 /Analyst:MC/ Analysis Date: 2016-07-19	92 mg/L	85.6	72.8 to 98.3	1.51	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}	7.5 mL/L	8.55	5.71 to 11.4	-1.11	Acceptable

1965 / PE1194-1EA - Lot LRAA7764
 /Analyst:SW/ Analysis Date: 2016-07-19

Evaluation Criteria - 1
 Voluntary

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

Method:SM 3114 B 21st ED (1997) [20059807]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Selenium (VI) ^{1,2} 1141 / PE1075-20ML - Lot LRAB1764 /Analyst:RK/ Analysis Date: 2016-07-26	1140 ug/L	1200	838 to 1560	-0.5	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>	
Selenium (IV) ^{1,2} 1142 / PE1075-20ML - Lot LRAB1764 /Analyst:RK/ Analysis Date: 2016-07-27	947 ug/L	989	544 to 1430	-0.28	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.15, 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} 1940 / PE1065-2ML - Lot LRAA9386 /Analyst:SW/ Analysis Date: 2016-07-20	0.81 mg/L	0.8	0.61 to 0.99	0.22	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9345, b:0.0392, c:0.0688, d:0.0073</i>	
Residual free chlorine ^{1,2} 1945 / PE1065-2ML - Lot LRAA9386 /Analyst:SW/ Analysis Date: 2016-07-20	0.79 mg/L	0.8	0.61 to 0.99	-0.1	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9345, b:0.0392, c:0.0688, d:0.0073</i>	

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 LRAA9691 /Analyst:SW/ Analysis Date: 2016-07-15	6.8 Units	6.8	6.6 to 7	0	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0, d:0.06667</i>	

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} 6.98 mg/L 7.69 6.54 to 8.84 -1.85 Acceptable
1880 / PE1077-2ML - Lot LRAB0519 *Evaluation Criteria - 2*
/Analyst:SW/ Analysis Date: 2016-07-19 Voluntary *Evaluation Parameter - c:0.05, d:0*

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 LRAA9632 /Analyst:SW/ Analysis Date: 2016-07-21	3.98 mg/L	3.83	3.05 to 4.61	0.58	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>					
Nitrite as N ^{1,2} 1840 / PE1060-20ML - Lot LRAA9632 /Analyst:SW/ Analysis Date: 2016-07-21	3.43 mg/L	2.98	2.57 to 3.39	3.28	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 LRAA9632 /Analyst:SW/ Analysis Date: 2016-07-21	0.568 mg/L	1.3	1.11 to 1.5	-11.26	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 LRAA9428 /Analyst:CM/ Analysis Date: 2016-07-18	16 mg/L	15.8	12.8 to 18.9	0.2	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 LRAA9428 /Analyst:AC/ Analysis Date: 2016-07-25	15.1 mg/L	15.6	13 to 18.1	-0.59	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 / PE1195-20ML - Lot LRAA9428 /Analyst:CM/ Analysis Date: 2016-07-18	15.1 mg/L	15.5	13 to 18	-0.48	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}	2.97 mg/L	2.95	2.54 to 3.36	0.15	Acceptable

1840 / PE1153-2ML - Lot LRAB0996
 /Analyst:CM/ Analysis Date: 2016-07-15

Evaluation Criteria - 1
 Voluntary

Evaluation Parameter - a:1.0017, b:-0.0030,
 c:0.0377, d:0.0250

Method:EPA 365.1 2 (1993) [10070005]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Orthophosphate as P ^{1,2} 1870 / PE1195-20ML - Lot LRAA9428 /Analyst:CM/ Analysis Date: 2016-07-15	4.34 mg/L	4.6	3.91 to 5.29	-1.13	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:1, b:0, c:0.05, d:0		
Phosphorus as P, total ^{1,2} 1910 / PE1051-2ML - Lot LRAB0922 /Analyst:CM/ Analysis Date: 2016-07-18	2.91 mg/L	2.76	2.26 to 3.26	0.9	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:0.9932, b:0.0084, c:0.0506, d:0.0254		

Method:SM 4500-Norg C-2011 (2011) [20120018]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Kjeldahl nitrogen, total (TKN) ^{1,2} 1795 / PE1051-2ML - Lot LRAB0922 /Analyst:CM/ Analysis Date: 2016-07-19	17.9 mg/L	18.5	14.1 to 22.9	-0.41	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:0.9701, b:0.2283, c:0.0680, d:0.1906		
Organic nitrogen ^{1,2} 1865 / PE1051-2ML - Lot LRAB0922 /Analyst:AC/ Analysis Date: 2016-07-25	18 mg/L	18.5	14.1 to 22.9	-0.34	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:0.9701, b:0.2283, c:0.0680, d:0.1906		
Nitrogen, total ² 1827 / PE1051-2ML - Lot LRAB0922 /Analyst:AC/ Analysis Date: 2016-07-25	17.9 mg/L	18.3	12.4 to 24.2	-0.2	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary		Evaluation Parameter - a:0.9645, b:0.1885, c:0.1035, d:0.0225		

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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	779 ug/L	750	624 to 875	0.69	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	577 ug/L	572	484 to 661	0.17	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	399 ug/L	384	326 to 442	0.78	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Beryllium, Be ^{1,2} 1020 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	242 ug/L	233	198 to 268	0.77	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Boron, B ^{1,2} 1025 / PE3053-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	1040 ug/L	1010	859 to 1160	0.59	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Cadmium, Cd ^{1,2} 1030 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	501 ug/L	504	428 to 580	-0.12	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Chromium, Cr (total) ^{1,2} 1040 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	251 ug/L	243	207 to 279	0.66	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Cobalt, Co ^{1,2} 1050 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	257 ug/L	259	220 to 298	-0.15	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Copper, Cu ^{1,2} 1055 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	645 ug/L	631	536 to 726	0.44	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			

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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	1340 ug/L	1290	1090 to 1480	0.78	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	496 ug/L	501	426 to 576	-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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	544 ug/L	557	390 to 724	-0.23	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	1080 ug/L	1070	910 to 1230	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	300 ug/L	283	243 to 322	1.3	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	1040 ug/L	1040	912 to 1160	0	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>
Silver, Ag ^{1,2} 1150 / PE3053-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-28	864 ug/L	839	713 to 965	0.6	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	398 ug/L	376	320 to 432	1.17	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	297 ug/L	282	228 to 336	0.84	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	463 ug/L	434	304 to 564	0.67	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	168 ug/L	161	137 to 185	0.87	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	613 ug/L	609	518 to 700	0.13	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	1030 ug/L	1050	893 to 1210	-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>
Aluminum, Al ^{1,2} 1000 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-19	2080 ug/L	1910	1600 to 2210	1.67	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	804 ug/L	750	624 to 875	1.29	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	586 ug/L	572	484 to 661	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	404 ug/L	384	326 to 442	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>
Beryllium, Be ^{1,2}	248 ug/L	233	198 to 268	1.28	Acceptable

1020 / PE3132-500ML - Lot LRAA9334
 /Analyst:DK/ Analysis Date: 2016-07-20

Evaluation Criteria - 1
 Voluntary

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

Boron, B^{1,2}

1090 ug/L

1010

859 to
1160

1.58

Acceptable

1025 / PE3053-500ML - Lot LRAA1769
 /Analyst:DK/ Analysis Date: 2016-07-20

Evaluation Criteria - 1
 Voluntary

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

Cadmium, Cd^{1,2}

516 ug/L

504

428 to 580

0.48

Acceptable

1030 / PE3132-500ML - Lot LRAA9334
 /Analyst:DK/ Analysis Date: 2016-07-20

Evaluation Criteria - 1
 Voluntary

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

Chromium, Cr (total)^{1,2}

246 ug/L

243

207 to 279

0.25

Acceptable

1040 / PE3132-500ML - Lot LRAA9334
 /Analyst:DK/ Analysis Date: 2016-07-20

Evaluation Criteria - 1
 Voluntary

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

Cobalt, Co^{1,2}

259 ug/L

259

220 to 298

0

Acceptable

1050 / PE3132-500ML - Lot LRAA9334
 /Analyst:DK/ Analysis Date: 2016-07-20

Evaluation Criteria - 1
 Voluntary

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

Copper, Cu^{1,2}

658 ug/L

631

536 to 726

0.85

Acceptable

1055 / PE3132-500ML - Lot LRAA9334
 /Analyst:DK/ Analysis Date: 2016-07-20

Evaluation Criteria - 1
 Voluntary

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

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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	1320 ug/L	1290	1090 to 1480	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>
Lead, Pb ^{1,2} 1075 / PE3132-500ML - Lot LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	506 ug/L	501	426 to 576	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>
Manganese, Mn ^{1,2} 1090 / PE3132-500ML - Lot LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	1090 ug/L	1070	910 to 1230	0.37	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 LRAB1769 /Analyst:DK/ Analysis Date: 2016-07-20	266 ug/L	283	243 to 322	-1.3	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	1070 ug/L	1040	912 to 1160	0.72	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>
Silver, Ag ^{1,2} 1150 / PE3053-500ML - Lot LRAB1769 /Analyst:DK/ Analysis Date: 2016-07-26	924 ug/L	839	713 to 965	2.02	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 LRAB1769 /Analyst:DK/ Analysis Date: 2016-07-20	386 ug/L	376	320 to 432	0.53	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 LRAB1769 /Analyst:DK/ Analysis Date: 2016-07-20	282 ug/L	282	228 to 336	0	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 LRAB1769 /Analyst:DK/ Analysis Date: 2016-07-20	437 ug/L	434	304 to 564	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 200.8 5.4 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Titanium, Ti ^{1,2} 1180 / PE3053-500ML - Lot LRA1769 /Analyst:DK/ Analysis Date: 2016-07-20	177 ug/L	161	137 to 185	1.99	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary			Evaluation Parameter - a:1, b:0, c:0.05, d:0	
Vanadium, V ^{1,2} 1185 / PE3132-500ML - Lot LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	596 ug/L	609	518 to 700	-0.43	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary			Evaluation Parameter - a:1, b:0, c:0.05, d:0	
Zinc, Zn ^{1,2} 1190 / PE3132-500ML - Lot LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	1120 ug/L	1050	893 to 1210	1.33	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary			Evaluation Parameter - a:1, b:0, c:0.05, d:0	
Aluminum, Al ^{1,2} 1000 / PE3132-500ML - Lot LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	2100 ug/L	1910	1600 to 2210	1.86	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary			Evaluation Parameter - a:0.9823, b:9.5889, c:0.0471, d:11.2110	

Method:EPA 245.1 3 (1994) [10036609]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Mercury, Hg ^{1,2} 1095 / PE3132-500ML - Lot LRAA9334 /Analyst:RK/ Analysis Date: 2016-07-19	17.8 ug/L	19.5	13.7 to 25.4	-0.87	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary			Evaluation Parameter - a:1, b:0, c:0.10, d:0	

Method:EPA 6010B (1996) [10155609]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / PE3053-500ML - Lot LRA1769 /Analyst:SD/ Analysis Date: 2016-07-20	771 ug/L	750	624 to 875	0.5	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary			Evaluation Parameter - a:0.9864, b:-1.1174, c:0.0471, d:6.1230	
Arsenic, As ^{1,2} 1010 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	572 ug/L	572	484 to 661	0	Acceptable
	Evaluation Criteria - 1 <input type="checkbox"/> Voluntary			Evaluation Parameter - a:0.9916, b:1.2647, c:0.0422, d:5.1741	

Barium, Ba ^{1,2} 1015 / PE3053-500ML - Lot LRAB1769 /Analyst:SD/ Analysis Date: 2016-07-20	397 ug/L	384	326 to 442	0.68	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	237 ug/L	233	198 to 268	0.34	Acceptable
	<i>Evaluation Criteria - 1</i>		<i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>		
	<input type="checkbox"/> Voluntary				
Boron, B ^{1,2} 1025 / PE3053-500ML - Lot LRAB1769 /Analyst:SD/ Analysis Date: 2016-07-20	1050 ug/L	1010	859 to 1160	0.79	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	502 ug/L	504	428 to 580	-0.08	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	249 ug/L	243	207 to 279	0.49	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	253 ug/L	259	220 to 298	-0.46	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	641 ug/L	631	536 to 726	0.32	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 6010B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Iron, Fe ^{1,2} 1070 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	1380 ug/L	1290	1090 to 1480	1.4	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	489 ug/L	501	426 to 576	-0.48	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	571 ug/L	557	390 to 724	0.25	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	1060 ug/L	1070	910 to 1230	-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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	299 ug/L	283	243 to 322	1.22	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	1020 ug/L	1040	912 to 1160	-0.48	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>
Silver, Ag ^{1,2} 1150 / PE3053-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-08-02	877 ug/L	839	713 to 965	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>
Strontium, Sr ^{1,2} 1160 / PE3053-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	396 ug/L	376	320 to 432	1.06	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.05, d:0</i>
Tin, Sn ^{1,2} 1175 / PE3053-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	419 ug/L	434	304 to 564	-0.35	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 6010B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Titanium, Ti ^{1,2} 1180 / PE3053-500ML - Lot LRA1769 /Analyst:SD/ Analysis Date: 2016-07-20	166 ug/L	161	137 to 185	0.62	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	618 ug/L	609	518 to 700	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 LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	1040 ug/L	1050	893 to 1210	-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>
Aluminum, Al ^{1,2} 1000 / PE3132-500ML - Lot LRAA9334 /Analyst:SD/ Analysis Date: 2016-07-20	2060 ug/L	1910	1600 to 2210	1.47	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 6020B (2014) [10156420]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / PE3053-500ML - Lot LRA1769 /Analyst:DK/ Analysis Date: 2016-07-20	794 ug/L	750	624 to 875	1.05	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	581 ug/L	572	484 to 661	0.31	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 LRA1769 /Analyst:DK/ Analysis Date: 2016-07-20	419 ug/L	384	326 to 442	1.82	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	238 ug/L	233	198 to 268	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>

Boron, B ^{1,2} 1025 / PE3053-500ML - Lot LRA B1769 /Analyst:DK/ Analysis Date: 2016-07-20	1110 ug/L	1010	859 to 1160	1.98	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	534 ug/L	504	428 to 580	1.19	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	247 ug/L	243	207 to 279	0.33	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	260 ug/L	259	220 to 298	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>		
Copper, Cu ^{1,2} 1055 / PE3132-500ML - Lot LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	666 ug/L	631	536 to 726	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>		

Method:EPA 6020B (2014) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Iron, Fe ^{1,2} 1070 / PE3132-500ML - Lot LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	1390 ug/L	1290	1090 to 1480	1.56	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	522 ug/L	501	426 to 576	0.84	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	1120 ug/L	1070	910 to 1230	0.93	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	284 ug/L	283	243 to 322	0.08	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	1080 ug/L	1040	912 to 1160	0.95	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>
Silver, Ag ^{1,2} 1150 / PE3053-500ML - Lot LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	908 ug/L	839	713 to 965	1.64	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	414 ug/L	376	320 to 432	2.02	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	287 ug/L	282	228 to 336	0.28	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	470 ug/L	434	304 to 564	0.83	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 LRAB1769 /Analyst:DK/ Analysis Date: 2016-07-20	159 ug/L	161	137 to 185	-0.25	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	605 ug/L	609	518 to 700	-0.13	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	1130 ug/L	1050	893 to 1210	1.52	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 LRAA9334 /Analyst:DK/ Analysis Date: 2016-07-20	2150 ug/L	1910	1600 to 2210	2.35	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 LRAA9334 /Analyst:RK/ Analysis Date: 2016-07-19	18 ug/L	19.5	13.7 to 25.4	-0.77	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>	

Method:SM 3500-Cr B 22nd Ed (2011) [20066017]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Chromium VI, Cr(VI) ^{1,2} 1045 / PE1088-20ML - Lot LRAB0103 /Analyst:CM/ Analysis Date: 2016-07-27	409 ug/L	405	340 to 470	0.19	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:0.9917, b:1.0232, c:0.0476, d:2.2011</i>	

Volatile Aromatics

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Benzene ^{1,2} 4375 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	19.9 ug/L	20.4	14.3 to 26.5	-0.25	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	74.8 ug/L	70.2	49.1 to 91.3	0.66	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	99 ug/L	97	67.9 to 126	0.21	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	71.4 ug/L	77.5	54.3 to 101	-0.79	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	66 ug/L	60.8	42.6 to 79	0.86	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	57 ug/L	58.8	30.4 to 87.2	-0.19	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	66 ug/L	80.3	52.2 to 108	-1.53	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	84.8 ug/L	75.9	53.1 to 98.7	1.17	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	183 ug/L	117	58.3 to 175	3.38	Not 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	76.6 ug/L	66	39.6 to 92.4	1.2	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>
o-Xylene ^{1,2} 5250 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	114 ug/L	99.1	59.5 to 139	1.13	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>
Xylene, total ^{1,2} 5260 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	191 ug/L	165	99 to 231	1.18	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>

Volatile Halocarbons

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Bromodichloromethane ^{1,2} 4395 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	57.4 ug/L	55.9	33.5 to 78.3	0.2	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	55.6 ug/L	67.4	40.4 to 94.4	-1.31	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	86 ug/L	106	63.1 to 150	-1.39	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	67.6 ug/L	57.8	40.5 to 75.1	1.7	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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>					
Chloroform ^{1,2} 4505 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	38.4 ug/L	48	33.6 to 62.4	-2	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	28.6 ug/L	25.7	15.4 to 36	0.85	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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>					
Dibromomethane ^{1,2} 4595 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	139 ug/L	107	69.6 to 144	2.56	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	121 ug/L	107	69.6 to 144	1.12	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
1,1-Dichloroethane ^{1,2} 4630 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	51.2 ug/L	51.4	32.5 to 70.3	-0.03	Acceptable <i>Evaluation Parameter - a:0.9977, b:0.2117, c:0.1227, d:0.0174</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
1,2-Dichloroethane ^{1,2} 4635 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - a:0.9843, b:1.3728, c:0.0912, d:0.4693</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
1,1-Dichloroethylene ^{1,2} 4640 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	27.4 ug/L	29.9	17.1 to 42.7	-0.59	Acceptable <i>Evaluation Parameter - a:1.0034, b:0.6630, c:0.1447, d:0.0521</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
cis-1,2-Dichloroethylene ^{1,2} 4645 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	63 ug/L	64	43 to 85	-0.14	Acceptable <i>Evaluation Parameter - a:0.9973, b:0.3699, c:0.1095, d:0.0036</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
1,2-Dichloropropane ^{1,2} 4655 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	90.2 ug/L	91.5	64.1 to 119	-0.14	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.1, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
cis-1,3-Dichloropropene ^{1,2} 4680 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	30 ug/L	27.9	18.1 to 37.7	0.65	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
trans-1,3-Dichloropropene ^{1,2} 4685 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	36 ug/L	36	23.4 to 48.6	0	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.116666, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
trans-1,2-Dichloroethylene ^{1,2} 4700 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	27.8 ug/L	29.2	17.5 to 40.9	-0.36	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.13333, d:0</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Methyl bromide (Bromomethane) ^{1,2} 4950 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	1.01 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	25.9 ug/L	31.6	12.6 to 50.6	-0.9	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	98.6 ug/L	99.7	59.8 to 140	-0.08	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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:0.116666, d:0</i>
1,1,2,2-Tetrachloroethane ^{1,2} 5110 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	101 ug/L	105	68.3 to 142	-0.33	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	140 ug/L	128	78 to 177	0.73	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	53.4 ug/L	60.6	36.4 to 84.8	-0.89	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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>
Trichloroethene (Trichloroethylene) ^{1,2} 5170 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	33.9 ug/L	30.1	19.4 to 40.7	1.07	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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>		
1,2,3-Trichloropropane ^{1,2} 5180 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	138 ug/L	107	50.9 to 163	1.66	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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>		

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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	224 ug/L	122	60.6 to 184	4.95	Not Acceptable <i>Evaluation Parameter - a:1.0054, b:-1.1748, c:0.1534, d:1.7764</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	160 ug/L	134	83.9 to 185	1.55	Acceptable <i>Evaluation Parameter - a:1.0022, b:-1.0337, c:0.0934, d:4.1819</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	52.2 ug/L	48.4	31.6 to 65.3	0.68	Acceptable <i>Evaluation Parameter - a:1.0233, b:-0.3620, c:0.1112, d:0.3083</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			

Volatiles

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Acetone ^{1,2} 4315 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	290 ug/L	161	47.7 to 275	3.41	Not 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<20 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<40 ug/L	40.4	0 to 185	-0.84	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Acrylonitrile ^{1,2} 4340 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	90.4 ug/L	86.5	55.5 to 117	0.38	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Bromobenzene ^{1,2} 4385 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	32.8 ug/L	28.4	21.3 to 35.5	1.86	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Bromochloromethane ^{1,2} 4390 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<20 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	50.8 ug/L	45.8	18.1 to 73.6	0.54	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
sec-Butylbenzene ^{1,2} 4440 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	74.8 ug/L	73.4	33 to 114	0.1	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
Carbon disulfide ^{1,2} 4450 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	13.1 ug/L	11.2	0 to 38.2	0.21	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
2,2-Dichloropropane ^{1,2} 4665 / PE1086-1KT - Lot LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	33.6 ug/L	46.9	28.9 to 64.9	-2.21	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 ug/L	0	0 to 0	0	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	69.4 ug/L	63.6	22.7 to 105	0.43	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 ug/L	0	0 to 0	0	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	44 ug/L	43.9	28.5 to 59.3	0.02	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	90.4 ug/L	96.3	62.6 to 130	-0.53	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 LRAB0216 /Analyst:KW/ Analysis Date: 2016-08-02	<1.0 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 : 25 / 26
 Score : 96.15% - (Acceptable)

Sample Information

DEMAND - WP

PE1130-20ML / Lot LRAB0836

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
5-day BOD ^{1,2} 1530 Demands	mg/L	199±1.02	124	18.3
Carbonaceous BOD (CBOD) ^{1,2} 1555 Demands	mg/L	199±1.02	119	15.1
Chemical oxygen demand (COD) ^{1,2} 1565 Demands	mg/L	204±1.04	204	9.82
Dissolved organic carbon (DOC) ^{1,2} 1710 Demands	mg/L	80.6±0.411	80.1	6.29
Total organic carbon (TOC) ^{1,2} 2040 Demands	mg/L	80.6±0.411	80.5	4.65
5-day BOD ^{1,2} 1530 Miscellaneous Analytes	mg/L	199±1.02	124	18.3
Carbonaceous BOD (CBOD) ^{1,2} 1555 Miscellaneous Analytes	mg/L	199±1.02	119	15.1
Chemical oxygen demand (COD) ^{1,2} 1565 Miscellaneous Analytes	mg/L	204±1.04	204	9.82
Total organic carbon (TOC) ^{1,2} 2040 Miscellaneous Analytes	mg/L	80.6±0.411	80.5	4.65

MINERALS - WP

PE1041-1KT / Lot LRAA9561

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Calcium, Ca ^{1,2} 1035 Minerals	mg/L	75.0±0.382	74	4.52
Magnesium, Mg ^{1,2} 1085 Minerals	mg/L	22.0±0.112	21.4	0.83
Potassium, K ^{1,2} 1125 Minerals	mg/L	32.2±0.164	32.1	2.2
Sodium, Na ^{1,2} 1155 Minerals	mg/L	59.3±0.302	58.7	5.14
Alkalinity as CaCO ₃ ^{1,2} 1505 Minerals	mg/L	129±0.657	129	2.23
Calcium hardness as CaCO ₃ ^{1,2} 1550 Minerals	mg/L	187±0.955	192	8.29
Specific conductance, Conductivity (25°C) ^{1,2} 1610 Minerals	umhos/cm	987±2.05	962	8.64
Hardness ² 1750 Minerals	mg/L	278±1.42	0	0
Hardness, total as CaCO ₃ ^{1,2} 1755 Minerals	mg/L	278±1.42	277	13.1
Calcium, Ca ^{1,2} 1035	mg/L	75.0±0.382	74	4.52
Magnesium, Mg ^{1,2} 1085	mg/L	22.0±0.112	21.4	0.83
Potassium, K ^{1,2} 1125	mg/L	32.2±0.164	32.1	2.2
Sodium, Na ^{1,2} 1155	mg/L	59.3±0.302	58.7	5.14
Alkalinity as CaCO ₃ ^{1,2} 1505	mg/L	129±0.657	129	2.23
Calcium hardness as CaCO ₃ ^{1,2} 1550	mg/L	187±0.955	192	8.29
Specific conductance, Conductivity (25°C) ^{1,2} 1610	umhos/cm	987±2.05	962	8.64
Hardness, total as CaCO ₃ ^{1,2} 1755	mg/L	278±1.42	277	13.1

PH - WP - 100ML

PE1210-100ML / Lot LRAA9691

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
pH ^{1,2} 1900 Miscellaneous Analytes	Units	6.80±0.035	6.82	0.04

SIMPLE NUTRIENTS - WP

PE1195-20ML / Lot LRAA9428

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Ammonia as N ^{1,2} 1515 Nutrients	mg/L	15.9±0.081	16.1	1.29
Nitrate as N ^{1,2} 1810 Nutrients	mg/L	15.6±0.080	15.5	1
Nitrate+nitrite as N ^{1,2} 1820 Nutrients	mg/L	15.6±0.080	15.4	0.96
Orthophosphate as P ^{1,2} 1870 Nutrients	mg/L	4.60±0.023	4.51	0.36
Ammonia as N ^{1,2} 1515	mg/L	15.9±0.081	16.1	1.29
Nitrate as N ^{1,2} 1810	mg/L	15.6±0.080	15.5	1
Nitrate+nitrite as N ^{1,2} 1820	mg/L	15.6±0.080	15.4	0.96
Orthophosphate as P ^{1,2} 1870	mg/L	4.60±0.023	4.51	0.36

COMPLEX NUTRIENTS - WP

PE1051-2ML / Lot LRAB0922

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Kjeldahl nitrogen, total (TKN) ^{1,2} 1795 Nutrients	mg/L	18.8	18.4	1.58
Organic nitrogen ^{1,2} 1865 Nutrients	mg/L	18.8	0	0
Nitrogen, total ² 1827 Nutrients	mg/L	18.8	18.7	1.47
Phosphorus as P, total ^{1,2} 1910 Nutrients	mg/L	2.77	2.95	0.65

NITRITE - WP

PE1153-2ML / Lot LRAB0996

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Nitrite as N ^{1,2} 1840 Nutrients	mg/L	2.95±0.0153	3.04	0.16
Nitrite as N ^{1,2} 1840	mg/L	2.95±0.0153	3.04	0.16

RESIDUE - WP

PE3050-500ML / Lot LRAB1489

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Total Solids (TS) ^{1,2} 1950 Minerals	mg/L	722±3.68	741	16.2
Total Dissolved Solids at 180°C (TDS) ^{1,2} 1955 Minerals	mg/L	633±3.23	643	24.7
Total Suspended Solids, Non-Filterable Residue (TSS) ^{1,2} 1960 Miscellaneous Analytes	mg/L	88.6±0.452	89.8	3.34
Total Solids (TS) ^{1,2} 1950	mg/L	722±3.68	741	16.2
Total Dissolved Solids at 180°C (TDS) ^{1,2} 1955	mg/L	633±3.23	643	24.7
Total Suspended Solids, Non-Filterable Residue (TSS) ^{1,2} 1960	mg/L	88.6±0.452	89.8	3.34

TOTAL RESIDUAL CHLORINE - WP

PE1065-2ML / Lot LRAA9386

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Total residual chlorine ^{1,2} 1940 Miscellaneous Analytes	mg/L	0.82±0.005	0.79	0.07
Residual free chlorine ^{1,2} 1945 Miscellaneous Analytes	mg/L	0.810±0.005	0.75	0.05

CHROMIUM VI - WP

PE1088-20ML / Lot LRAB0103

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Chromium VI, Cr(VI) ^{1,2} 1045 Trace Metals - Waste Water	ug/L	407.2±2.08	403	19.1

ANIONS - WP

PE1060-20ML / Lot LRAA9632

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Bromide ^{1,2} 1540 Minerals	mg/L	4.93±0.025	4.91	0.4
Chloride ^{1,2} 1575 Minerals	mg/L	107±0.545	107	4.2
Fluoride ^{1,2} 1730 Minerals	mg/L	1.08±0.006	0.98	0.06
Nitrate as NO ₃ ^{1,2} 1805 Nutrients	mg/L	17.0±0.087	18.8	1.16
Nitrate as N ^{1,2} 1810 Nutrients	mg/L	3.84±0.020	4.13	0.21
Nitrate+nitrite as N ^{1,2} 1820 Nutrients	mg/L	6.86±0.035	7.01	0.3
Nitrite as NO ₂ ^{1,2} 1835 Nutrients	mg/L	9.92±0.051	9.68	0.53
Nitrite as N ^{1,2} 1840 Nutrients	mg/L	2.98±0.015	2.92	0.24
Orthophosphate as P ^{1,2} 1870 Nutrients	mg/L	1.30±0.007	1.31	0.12
Sulfate ^{1,2} 2000 Minerals	mg/L	83.3±0.427	82.9	5.78
Bromide ^{1,2} 1540 Miscellaneous Analytes	mg/L	4.93±0.025	4.91	0.4
Chloride ^{1,2} 1575 Miscellaneous Analytes	mg/L	107±0.545	107	4.2
Fluoride ^{1,2} 1730 Miscellaneous Analytes	mg/L	1.08±0.006	0.98	0.06
Nitrate as N ^{1,2} 1810 Miscellaneous Analytes	mg/L	3.84±0.020	4.13	0.21
Nitrate+nitrite as N ^{1,2} 1820 Miscellaneous Analytes	mg/L	6.86±0.035	7.01	0.3
Nitrite as N ^{1,2} 1840 Miscellaneous Analytes	mg/L	2.98±0.015	2.92	0.24
Orthophosphate as P ^{1,2} 1870 Miscellaneous Analytes	mg/L	1.30±0.007	1.31	0.12
Sulfate ^{1,2} 2000 Miscellaneous Analytes	mg/L	83.3±0.427	82.9	5.78
Bromide ^{1,2} 1540 Anions - Waste Water	mg/L	4.93±0.025	4.91	0.4
Chloride ^{1,2} 1575 Anions - Waste Water	mg/L	107±0.545	107	4.2

Fluoride ^{1,2} 1730 Anions - Waste Water	mg/L	1.08±0.006	0.98	0.06
Nitrate as NO ₃ ^{1,2} 1805 Anions - Waste Water	mg/L	17.0±0.087	18.8	1.16
Nitrate as N ^{1,2} 1810 Anions - Waste Water	mg/L	3.84±0.020	4.13	0.21
Nitrate+nitrite as N ^{1,2} 1820 Anions - Waste Water	mg/L	6.86±0.035	7.01	0.3
Nitrite as NO ₂ ^{1,2} 1835 Anions - Waste Water	mg/L	9.92±0.051	9.68	0.53
Nitrite as N ^{1,2} 1840 Anions - Waste Water	mg/L	2.98±0.015	2.92	0.24
Orthophosphate as P ^{1,2} 1870 Anions - Waste Water	mg/L	1.30±0.007	1.31	0.12
Sulfate ^{1,2} 2000 Anions - Waste Water	mg/L	83.3±0.427	82.9	5.78

ACIDITY - WP

PE1269-20ML / Lot LRAA8807

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Acidity, as CaCO ₃ ^{1,2} 1500 Miscellaneous Analytes	mg/L	1361±13.9	1360	28.9
Carbon dioxide ^{1,2} 3755 Miscellaneous Analytes	mg/L	1360	0	0
Screen (+/-) ² 12100 Miscellaneous Analytes	mg/L		0	0

COLOR - WP

PE1126-20ML / Lot LRAA9696

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Color ^{1,2} 1605 Miscellaneous Analytes	PC Units	43.8	42.6	3.18

DISSOLVED OXYGEN - WP

PE1077-2ML / Lot LRAB0519

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Oxygen, dissolved ^{1,2} 1880 Miscellaneous Analytes	mg/L	3.48±0.0328	7.69	1.53
Oxygen, dissolved (Winkler) ^{1,2} 1880 Miscellaneous Analytes	mg/L	20.9±0.155	19.4	5.79

SETTLEABLE SOLIDS - WP

PE1194-1EA / Lot LRAA7764

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Settleable solids ^{1,2} 1965 Miscellaneous Analytes	mL/L	8.2±0.0418	8.35	0.95

E. coli in Water - Quantitative WP

MIC003-2EA / Lot LRAB1891

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Total coliforms ^{1,2} 2500 Microbiology	CFU/100mL	188.2±33.89	183	35.7
Total Coliform, MPN ^{1,2} 2500 Microbiology	MPN/100 mL	188.2±33.89	185	74.3
Escherichia coli ^{1,2} 2525 Microbiology	CFU/100mL	188.2±33.89	165	36.6
Escherichia coli, MPN ^{1,2} 2525 Microbiology	MPN/100 mL	188.2±33.89	171	71.2
Fecal coliforms ^{1,2} 2530 Microbiology	CFU/100mL	188.2±33.89	146	25.3
Fecal coliform, MPN ^{1,2} 2530 Microbiology	MPN/100 mL	188.2±33.89	153	97.4
Total coliforms ^{1,2} 2500	CFU/100mL	188.2±33.89	183	35.7
Total Coliform, MPN ^{1,2} 2500	MPN/100 mL	188.2±33.89	185	74.3
Escherichia coli ^{1,2} 2525	CFU/100mL	188.2±33.89	165	36.6
Escherichia coli, MPN ^{1,2} 2525	MPN/100 mL	188.2±33.89	171	71.2
Fecal coliforms ^{1,2} 2530	CFU/100mL	188.2±33.89	146	25.3
Fecal coliform, MPN ^{1,2} 2530	MPN/100 mL	188.2±33.89	153	97.4

TRACE METALS 1 - WHOLE VOLUME - WP

PE3132-500ML / Lot LRAA9334

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Arsenic, As ^{1,2} 1010 Trace Metals - Waste Water	ug/L	576±2.94	570	35
Beryllium, Be ^{1,2} 1020 Trace Metals - Waste Water	ug/L	233±1.19	229	11.4
Cadmium, Cd ^{1,2} 1030 Trace Metals - Waste Water	ug/L	504±2.57	502	26.3
Chromium, Cr (total) ^{1,2} 1040 Trace Metals - Waste Water	ug/L	243±1.24	244	10.6
Cobalt, Co ^{1,2} 1050 Trace Metals - Waste Water	ug/L	259±1.27	250	13
Copper, Cu ^{1,2} 1055 Trace Metals - Waste Water	ug/L	631±3.22	630	32.8
Iron, Fe ^{1,2} 1070 Trace Metals - Waste Water	ug/L	1286±6.56	1300	64.5
Lead, Pb ^{1,2} 1075 Trace Metals - Waste Water	ug/L	501±2.55	503	26.7
Lithium, Li ² 1080 Trace Metals - Waste Water	ug/L	557±2.84	551	47.5
Manganese, Mn ^{1,2} 1090 Trace Metals - Waste Water	ug/L	1070±5.39	1060	51.6
Mercury, Hg ^{1,2} 1095 Trace Metals - Waste Water	ug/L	19.5±0.099	18.9	2.93
Nickel, Ni ^{1,2} 1105 Trace Metals - Waste Water	ug/L	1035±5.28	1040	60.5
Selenium, Se ^{1,2} 1140 Trace Metals - Waste Water	ug/L	681±3.47	0	0
Vanadium, V ^{1,2} 1185 Trace Metals - Waste Water	ug/L	609±3.11	604	25.5
Zinc, Zn ^{1,2} 1190 Trace Metals - Waste Water	ug/L	1051±5.36	1060	62
Aluminum, Al ^{1,2} 1000 Trace Metals - Waste Water	ug/L	1931±10.4	2000	137

TRACE METALS 2 - WHOLE VOLUME - WP

PE3053-500ML / Lot LRAB1769

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Antimony, Sb ^{1,2} 1005 Trace Metals - Waste Water	ug/L	761±3.88	754	74.1
Barium, Ba ^{1,2} 1015 Trace Metals - Waste Water	ug/L	384±1.96	390	31.8
Boron, B ^{1,2} 1025 Trace Metals - Waste Water	ug/L	1010±5.15	1040	63.8
Molybdenum, Mo ^{1,2} 1100 Trace Metals - Waste Water	ug/L	284±1.45	281	18.1
Silver, Ag ^{1,2} 1150 Trace Metals - Waste Water	ug/L	839±4.28	872	45.1
Strontium, Sr ^{1,2} 1160 Trace Metals - Waste Water	ug/L	376±1.92	385	29.2
Thallium, Tl ^{1,2} 1165 Trace Metals - Waste Water	ug/L	285±1.45	283	10.8
Tin, Sn ^{1,2} 1175 Trace Metals - Waste Water	ug/L	434±2.21	430	35.6
Titanium, Ti ^{1,2} 1180 Trace Metals - Waste Water	ug/L	161±0.822	163	9.57

SULFUR IN WATER - WP

PE1285-20ML / Lot LRAB0439

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Sulfur ^{1,2} 2017 Miscellaneous Analytes	mg/L	54.2±0.277	51.1	0.73
Sulfur ^{1,2} 2017	mg/L	54.2±0.277	51.1	0.73

IODIDE IN WATER - WP

PE1047-20ML / Lot LRAB1052

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Iodide ² 99 Miscellaneous Analytes	mg/L	12.3±0.0628	0	0

Speciation - Arsenic and Selenium

PE1075-20ML / Lot LRAB1764

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Arsenic (V) ² 1011	ug/L	998±5.09	0	0
Arsenic (III) ^{1,2} 1012	ug/L	759±3.87	0	0
Selenium (VI) ^{1,2} 1141	ug/L	1197±6.10	0	0
Selenium (IV) ^{1,2} 1142	ug/L	989±5.04	0	0

CHLOROPHYLL IN WATER - WS

PE1311-2ML / Lot LRAA9422

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Chlorophylls ² 9345 Miscellaneous Analytes	ug/L	24.6±0.238	0	0
Chlorophyll a ² 9346 Miscellaneous Analytes	ug/L	24.6±0.238	12.5	12.7

TURBIDITY - WP

PE1081-20ML / Lot LRAA8880

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Turbidity ^{1,2} 2055 Miscellaneous Analytes	NTU	6.63±0.034	6.4	0.39

COMPLETE VOLATILES KIT - WP

PE1086-1KT / Lot LRAB0216

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Acetone ^{1,2} 4315 Volatiles	ug/L	200±1.73	225	109
Acetonitrile ^{1,2} 4320 Volatiles	ug/L	0±0	0	0
Acrolein (Propenal) ^{1,2} 4325 Volatiles	ug/L	106±1.03	40.4	48.3
Acrylonitrile ^{1,2} 4340 Volatiles	ug/L	98±0.95	86.5	10.3
Benzene ^{1,2} 4375 Volatile Aromatics	ug/L	20.4±0.198	18.2	1.48
Bromobenzene ^{1,2} 4385 Volatiles	ug/L	29.8±0.289	28.4	2.37
Bromochloromethane ^{1,2} 4390 Volatiles	ug/L	0±0	0	0
Bromodichloromethane ^{1,2} 4395 Volatile Halocarbons	ug/L	55.9±0.542	53.5	5.13
Bromoform ^{1,2} 4400 Volatile Halocarbons	ug/L	67.4±0.654	63.8	7.94
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410 Volatiles	ug/L	0±0	0	0
n-Butylbenzene ^{1,2} 4435 Volatiles	ug/L	52.9±0.513	45.8	9.26
sec-Butylbenzene ^{1,2} 4440 Volatiles	ug/L	82±0.796	73.4	13.5
tert-Butylbenzene ^{1,2} 4445 Volatiles	ug/L	0±0	0	0
Carbon disulfide ^{1,2} 4450 Volatiles	ug/L	0±0	0	0
Carbon tetrachloride ^{1,2} 4455 Volatile Halocarbons	ug/L	111±1.08	102	15.4
Chlorobenzene ^{1,2} 4475 Volatile Halocarbons	ug/L	57.8±0.561	53.7	4.9
Chloroethane ^{1,2} 4485 Volatile Halocarbons	ug/L	0±0	0	0
2-Chloroethyl vinyl ether ^{1,2} 4500 Volatiles	ug/L	0±0	0	0
Chloroform ^{1,2} 4505 Volatile Halocarbons	ug/L	48±0.466	44.5	4.29
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	25.7±0.25	24.9	3.38
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	101±0.978	100	7.68
Dibromomethane ^{1,2} 4595 Volatile Halocarbons	ug/L	107±1.03	105	10.4
1,2-Dichlorobenzene ^{1,2} 4610 Volatile Aromatics	ug/L	70.2±0.699	66.9	6.86
1,3-Dichlorobenzene ^{1,2} 4615 Volatile Aromatics	ug/L	97±1.03	97.2	11.5
1,4-Dichlorobenzene ^{1,2} 4620 Volatile Aromatics	ug/L	77.5±0.751	70.3	7.6
Dichlorodifluoromethane ^{1,2} 4625 Volatiles	ug/L	34.1±0.33	11.2	9.01
Dichlorofluoromethane ² 4627 Volatiles	ug/L	0±0	0	0
1,1-Dichloroethane ^{1,2} 4630 Volatile Halocarbons	ug/L	51.3±0.497	45.6	4.72
1,2-Dichloroethane ^{1,2} 4635 Volatile Halocarbons	ug/L	0±0	0	0
1,1-Dichloroethylene ^{1,2} 4640 Volatile Halocarbons	ug/L	29.1±0.282	24.6	2.47
cis-1,2-Dichloroethylene ^{1,2} 4645 Volatile Halocarbons	ug/L	63.8±0.619	59.5	3.76
1,2-Dichloropropane ^{1,2} 4655 Volatile Halocarbons	ug/L	91.5±0.887	88.8	3.79
1,3-Dichloropropane ^{1,2} 4660 Volatiles	ug/L	0±0	0	0
2,2-Dichloropropane ^{1,2} 4665 Volatiles	ug/L	0±0	0	0
1,1-Dichloropropene ^{1,2} 4670 Volatiles	ug/L	53.2±0.516	46.9	6.01
cis-1,3-Dichloropropene ^{1,2} 4680 Volatile Halocarbons	ug/L	27.9±0.271	24.2	3
trans-1,3-Dichloropropene ^{1,2} 4685 Volatile Halocarbons	ug/L	36.0±0.363	35.4	4.35
trans-1,2-Dichloroethylene ^{1,2} 4700 Volatile Halocarbons	ug/L	29.2±0.283	26	1.89
Ethylbenzene ^{1,2} 4765 Volatile Aromatics	ug/L	60.8±0.589	56.9	6.79
Hexachlorobutadiene ^{1,2} 4835 Volatiles	ug/L	0±0	0	0
2-Hexanone ^{1,2} 4860 Volatile Ketones/Ethers	ug/L	123±1.2	130	29.5

Isopropylbenzene ^{1,2} 4900 Volatiles	ug/L	0±0	0	0
4-Isopropyltoluene ^{1,2} 4910 Volatiles	ug/L	0±0	0	0
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	31.6±0.306	22.7	5.93
Methylcyclohexane ^{1,2} 4965 Volatiles	ug/L	0±0	0	0
Methylene chloride (Dichloromethane) ^{1,2} 4975 Volatile Halocarbons	ug/L	99.7±0.967	91.9	9.08
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995 Volatile Ketones/Ethers	ug/L	135±1.31	133	19.2
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 Volatile Ketones/Ethers	ug/L	47.7±0.463	46.4	5.35
Naphthalene ^{1,2} 5005 Volatile Aromatics	ug/L	65.3±0.633	60.5	11.5
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090 Volatiles	ug/L	71.7±0.695	63.6	13.6
Styrene ^{1,2} 5100 Volatile Aromatics	ug/L	80.3±0.778	70.4	10.9
1,1,1,2-Tetrachloroethane ^{1,2} 5105 Volatile Halocarbons	ug/L	0±0	0	0
1,1,2,2-Tetrachloroethane ^{1,2} 5110 Volatile Halocarbons	ug/L	105±1.02	96.9	7.62
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115 Volatile Halocarbons	ug/L	136±1.32	116	23.1
Toluene ^{1,2} 5140 Volatile Aromatics	ug/L	75.9±0.785	75.7	7.42
1,2,3-Trichlorobenzene ^{1,2} 5150 Volatiles	ug/L	0±0	0	0
1,2,4-Trichlorobenzene ^{1,2} 5155 Volatile Aromatics	ug/L	129±1.25	117	21
1,1,1-Trichloroethane ^{1,2} 5160 Volatile Halocarbons	ug/L	60.6±0.588	55.5	7.48
1,1,2-Trichloroethane ^{1,2} 5165 Volatile Halocarbons	ug/L	0±0	0	0
Trichloroethene (Trichloroethylene) ^{1,2} 5170 Volatile Halocarbons	ug/L	30.7±0.298	29.5	3.69
Trichlorofluoromethane ^{1,2} 5175 Volatile Halocarbons	ug/L	0±0	0	0
1,2,3-Trichloropropane ^{1,2} 5180 Volatile Halocarbons	ug/L	109±1.05	101	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	43.9±0.426	42.4	2.83

1,3,5-Trimethylbenzene ^{1,2} 5215 Volatiles	ug/L	96.3±0.934	87.8	17.8
Vinyl acetate ^{1,2} 5225 Volatiles	ug/L	0±0	0	0
Vinyl chloride ^{1,2} 5235 Volatile Halocarbons	ug/L	0±0	0	0
m+p-Xylene ^{1,2} 5240 Volatile Aromatics	ug/L	66±0.640	62.8	7.61
o-Xylene ^{1,2} 5250 Volatile Aromatics	ug/L	99.1±0.961	94.9	14.2
Xylene, total ^{1,2} 5260 Volatile Aromatics	ug/L	165±1.6	157	20.5
Chlorobenzene ^{1,2} 4475 Volatile Aromatics	ug/L	57.8±0.561	53.7	4.9
1,2,4-Trimethylbenzene ^{1,2} 5210 Volatile Aromatics	ug/L	43.9±0.426	42.4	2.83
Acetone ^{1,2} 4315	ug/L	200±1.73	225	109
Acetonitrile ^{1,2} 4320	ug/L	0±0	0	0
Acrolein (Propenal) ^{1,2} 4325	ug/L	106±1.03	40.4	48.3
Acrylonitrile ^{1,2} 4340	ug/L	98±0.95	86.5	10.3
Benzene ^{1,2} 4375	ug/L	20.4±0.198	18.2	1.48
Bromobenzene ^{1,2} 4385	ug/L	29.8±0.289	28.4	2.37
Bromochloromethane ^{1,2} 4390	ug/L	0±0	0	0
Bromodichloromethane ^{1,2} 4395	ug/L	55.9±0.542	53.5	5.13
Bromoform ^{1,2} 4400	ug/L	67.4±0.654	63.8	7.94
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410	ug/L	0±0	0	0
n-Butylbenzene ^{1,2} 4435	ug/L	52.9±0.513	45.8	9.26
sec-Butylbenzene ^{1,2} 4440	ug/L	82±0.796	73.4	13.5
tert-Butylbenzene ^{1,2} 4445	ug/L	0±0	0	0
Carbon disulfide ^{1,2} 4450	ug/L	0±0	0	0
Carbon tetrachloride ^{1,2} 4455	ug/L	111±1.08	102	15.4
Chlorobenzene ^{1,2} 4475	ug/L	57.8±0.561	53.7	4.9
Chloroethane ^{1,2} 4485	ug/L	0±0	0	0

2-Chloroethyl vinyl ether ^{1,2} 4500	ug/L	0±0	0	0
Chloroform ^{1,2} 4505	ug/L	48±0.466	44.5	4.29
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	25.7±0.25	24.9	3.38
Dibromochloromethane ^{1,2} 4575	ug/L	0±0	0	0
1,2-Dibromoethane (EDB, Ethylene dibromide) ^{1,2} 4585	ug/L	101±0.978	100	7.68
Dibromomethane ^{1,2} 4595	ug/L	107±1.03	105	10.4
1,2-Dichlorobenzene ^{1,2} 4610	ug/L	70.2±0.699	66.9	6.86
1,3-Dichlorobenzene ^{1,2} 4615	ug/L	97±1.03	97.2	11.5
1,4-Dichlorobenzene ^{1,2} 4620	ug/L	77.5±0.751	70.3	7.6
Dichlorodifluoromethane ^{1,2} 4625	ug/L	34.1±0.33	11.2	9.01
Dichlorofluoromethane ² 4627	ug/L	0±0	0	0
1,1-Dichloroethane ^{1,2} 4630	ug/L	51.3±0.497	45.6	4.72
1,2-Dichloroethane ^{1,2} 4635	ug/L	0±0	0	0
1,1-Dichloroethylene ^{1,2} 4640	ug/L	29.1±0.282	24.6	2.47
cis-1,2-Dichloroethylene ^{1,2} 4645	ug/L	63.8±0.619	59.5	3.76
1,2-Dichloropropane ^{1,2} 4655	ug/L	91.5±0.887	88.8	3.79
1,3-Dichloropropane ^{1,2} 4660	ug/L	0±0	0	0
2,2-Dichloropropane ^{1,2} 4665	ug/L	0±0	0	0
1,1-Dichloropropene ^{1,2} 4670	ug/L	53.2±0.516	46.9	6.01
cis-1,3-Dichloropropene ^{1,2} 4680	ug/L	27.9±0.271	24.2	3
trans-1,3-Dichloropropene ^{1,2} 4685	ug/L	36.0±0.363	35.4	4.35
trans-1,2-Dichloroethylene ^{1,2} 4700	ug/L	29.2±0.283	26	1.89

Ethylbenzene ^{1,2} 4765	ug/L	60.8±0.589	56.9	6.79
Hexachlorobutadiene ^{1,2} 4835	ug/L	0±0	0	0
2-Hexanone ^{1,2} 4860	ug/L	123±1.2	130	29.5
Isopropylbenzene ^{1,2} 4900	ug/L	0±0	0	0
4-Isopropyltoluene ^{1,2} 4910	ug/L	0±0	0	0
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	31.6±0.306	22.7	5.93
Methylcyclohexane ^{1,2} 4965	ug/L	0±0	0	0
Methylene chloride (Dichloromethane) ^{1,2} 4975	ug/L	99.7±0.967	91.9	9.08
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995	ug/L	135±1.31	133	19.2
Methyl tert-butyl ether (MTBE) ^{1,2} 5000	ug/L	47.7±0.463	46.4	5.35
Naphthalene ^{1,2} 5005	ug/L	65.3±0.633	60.5	11.5
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090	ug/L	71.7±0.695	63.6	13.6
Styrene ^{1,2} 5100	ug/L	80.3±0.778	70.4	10.9
1,1,1,2-Tetrachloroethane ^{1,2} 5105	ug/L	0±0	0	0
1,1,2,2-Tetrachloroethane ^{1,2} 5110	ug/L	105±1.02	96.9	7.62
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115	ug/L	136±1.32	116	23.1
Toluene ^{1,2} 5140	ug/L	75.9±0.785	75.7	7.42
1,2,3-Trichlorobenzene ^{1,2} 5150	ug/L	0±0	0	0
1,2,4-Trichlorobenzene ^{1,2} 5155	ug/L	129±1.25	117	21
1,1,1-Trichloroethane ^{1,2} 5160	ug/L	60.6±0.588	55.5	7.48
1,1,2-Trichloroethane ^{1,2} 5165	ug/L	0±0	0	0
Trichloroethene (Trichloroethylene) ^{1,2} 5170	ug/L	30.7±0.298	29.5	3.69
Trichlorofluoromethane ^{1,2} 5175	ug/L	0±0	0	0

1,2,3-Trichloropropane ^{1,2} 5180	ug/L	109±1.05	101	14.6
Trichlorotrifluoroethane (Freon 113) ^{1,2} 5185	ug/L	0±0	0	0
1,2,4-Trimethylbenzene ^{1,2} 5210	ug/L	43.9±0.426	42.4	2.83
1,3,5-Trimethylbenzene ^{1,2} 5215	ug/L	96.3±0.934	87.8	17.8
Vinyl acetate ^{1,2} 5225	ug/L	0±0	0	0
Vinyl chloride ^{1,2} 5235	ug/L	0±0	0	0
m+p-Xylene ^{1,2} 5240	ug/L	66±0.640	62.8	7.61
o-Xylene ^{1,2} 5250	ug/L	99.1±0.961	94.9	14.2
Xylene, total ^{1,2} 5260	ug/L	165±1.6	157	20.5

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 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: 9/9/2016

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

PE1086-1KT

COMPLETE VOLATILES KIT - WP

Analytes	MethodNumber	MethodName
1,2,4-Trichlorobenzene ^{1,2}	10184802	EPA 8260B (1996)
2-Hexanone ^{1,2}	10184802	EPA 8260B (1996)
Acetone ^{1,2}	10184802	EPA 8260B (1996)

PASS RATE

Number of Reported Results:	216
Number of Passing Results:	210
Pass Rate:	97.22%