

Name of Laboratory : The laboratory of TUV NORD (Thailand) Ltd.
Address : 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310
And INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,
Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120
Accreditation Number : Testing - 0286
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Initial Issue Date : 7th November 2022
Issue Date : 21st July 2023
Expired date : 6th November 2026
Standard : ISO/IEC 17025:2017
Reference No. : 0303/12105

Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Bottled drinking water	- Total Plate Count CFU/mL - Coliforms MPN/100 mL - <i>Escherichia coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9215 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, F

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Bottled drinking water	- <i>Staphylococcus aureus</i> CFU/100 mL - <i>Salmonella</i> spp. Detected or not detected/100 mL	In - house method : TM-08-MIC-017 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9213 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9260 B

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2	Water - Process water - Tap water - Filtered water	- Total Plate Count CFU/mL - Coliforms MPN/100 mL - <i>Escherichia coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9215 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, F

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2 (cont.)	Water - Process water - Tap water - Filtered water	- <i>Staphylococcus aureus</i> CFU/100 mL - <i>Salmonella</i> spp. Detected or not detected/100 mL	In - house method : TM-08-MIC-017 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9213 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9260 B
3	Surface water	- Total Plate Count CFU/mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9215 B

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3 (cont.)	Surface water	- Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B
4	Ice	- Total Plate Count CFU/mL - Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9215 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B

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4 (cont.)	Ice	- <i>Escherichia coli</i> MPN/100 mL - <i>Staphylococcus aureus</i> CFU/100 mL - <i>Salmonella</i> spp. Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, F In-house method : TM-08-MIC-017 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd ed., 2017. part 9213 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9260 B

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5	Vegetable and fruit - Fresh - Chilled - Frozen - Processed	- Total Plate Count CFU/g - Coliforms CFU/g - Coliforms MPN/g - <i>Escherichia coli</i> CFU/g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 990.12 FDA Bacteriological Analytical Manual Online, 2001, Chapter 3 AOAC Official Methods of Analysis 22 nd ed, 2023, method 991.14 FDA Bacteriological Analytical Manual Online, 2020, Chapter 4 AOAC Official Methods of Analysis 22 nd ed, 2023, method 991.14

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5 (cont.)	Vegetable and fruit - Fresh - Chilled - Frozen - Processed	- <i>Escherichia coli</i> MPN/g - Yeast and Mold CFU/g	FDA Bacteriological Analytical Manual Online, 2020, Chapter 4 AOAC Official Methods of Analysis 22 nd ed, 2023, method 2014.05 FDA Bacteriological Analytical Manual Online, 2001, Chapter 18
		- <i>Staphylococcus aureus</i> CFU/g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 2003.07 FDA Bacteriological Analytical Manual Online, 2016, Chapter 12

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5 (cont.)	Vegetable and fruit - Fresh - Chilled - Frozen - Processed	- <i>Salmonella</i> spp. Detected or not detected/25 g - <i>Listeria</i> spp. Detected or not detected/25 g - <i>Listeria monocytogenes</i> Detected or not detected/25 g	ISO 6579-1 : 2017/Amd.1 : 2020 3M Molecular Detection Assay 2 MDA2SAL96 ISO 11290-1 : 2017 ISO 11290-1 : 2017 3M Molecular Detection Assay 2 MDA2LMO96

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6	Bakery Products	- Total Plate Count CFU/g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 990.12 FDA Bacteriological Analytical Manual Online, 2001, Chapter 3
		- Coliforms CFU/g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 991.14
		- <i>Escherichia coli</i> CFU/g	
		- <i>Escherichia coli</i> MPN/g	FDA Bacteriological Analytical Manual Online, 2020, Chapter 4
		- Yeast and Mold CFU/g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 2014.05

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6 (cont.)	Bakery products	- <i>Staphylococcus aureus</i> CFU/g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 2003.07 FDA Bacteriological Analytical Manual Online, 2016, Chapter 12
		- <i>Salmonella</i> spp. Detected or not detected/25 g	ISO 6579-1 : 2017/Amd.1 : 2020 3M Molecular Detection Assay 2 MDA2SAL96
		- <i>Clostridium perfringens</i> CFU/g	FDA Bacteriological Analytical Manual Online, 2001, Chapter 16
		- <i>Bacillus cereus</i> CFU/g	FDA Bacteriological Analytical Manual Online, 2020, Chapter 14

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7	Beverage	<ul style="list-style-type: none"> - Coliforms CFU/mL - <i>Escherichia coli</i> CFU/mL - Yeast and Mold CFU/mL - <i>Staphylococcus aureus</i> CFU/mL - <i>Salmonella</i> spp. Detected or not detected/25 mL 	<p>AOAC Official Methods of Analysis 22nd ed, 2023, method 991.14</p> <p>AOAC Official Methods of Analysis 22nd ed, 2023, method 2014.05</p> <p>FDA Bacteriological Analytical Manual Online, 2016, Chapter 12</p> <p>ISO 6579-1 : 2017/Amd.1 : 2020</p>

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7 (cont.)	Beverage	- <i>Clostridium perfringens</i> CFU/mL	FDA Bacteriological Analytical Manual Online, 2001, Chapter 16
		- <i>Bacillus cereus</i> CFU/mL	FDA Bacteriological Analytical Manual Online, 2020, Chapter 14
8	Ready to eat	- Total Plate Count CFU/g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 990.12
		- <i>Escherichia coli</i> MPN/g	FDA Bacteriological Analytical Manual Online, 2001, Chapter 3
			FDA Bacteriological Analytical Manual Online, 2020, Chapter 4

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8 (cont.)	Ready to eat	<p>- <i>Staphylococcus aureus</i> CFU/g</p> <p>- <i>Salmonella</i> spp. Detected or not detected/25 g</p> <p>- <i>Listeria monocytogenes</i> Detected or not detected/25 g</p> <p>- <i>Listeria</i> spp. Detected or not detected/25 g</p>	<p>AOAC Official Methods of Analysis 22nd ed, 2023, method 2003.07</p> <p>FDA Bacteriological Analytical Manual Online, 2016, Chapter 12</p> <p>ISO 6579-1 : 2017/Amd.1 : 2020</p> <p>ISO 11290-1 : 2017</p>

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8 (cont.)	Ready to eat	- <i>Clostridium perfringens</i> CFU/g	FDA Bacteriological Analytical Manual Online, 2001, Chapter 16
		- <i>Bacillus cereus</i> CFU/g	FDA Bacteriological Analytical Manual Online, 2020, Chapter 14
		- <i>Vibrio cholerae</i> Detected or not detected/25 g	FDA Bacteriological Analytical Manual Online, 2004, Chapter 9
		- <i>Vibrio parahaemolyticus</i> Detected or not detected/25 g	ISO 21872-1: 2017

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9	Swab test - Surface swab	- Total Plate Count CFU/swab - <i>Salmonella</i> spp. Detected or not detected/swab - <i>Listeria</i> spp. Detected or not detected/swab	Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and FDA Bacteriological Analytical Manual Online, 2001, Chapter 3 Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and ISO 6579-1 : 2017/Amd.1 : 2020 Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and and ISO 11290-1 : 2017

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9 (cont.)	Swab test - Surface swab	- <i>Listeria monocytogenes</i> Detected or not detected/swab - <i>Staphylococcus aureus</i> CFU/swab	Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and and ISO 11290-1 : 2017 Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and FDA Bacteriological Analytical Manual Online, 2016, Chapter 12

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10	Sauce	- <i>Salmonella</i> spp. Detected or not detected/25 g - <i>Staphylococcus aureus</i> CFU/g - <i>Bacillus cereus</i> CFU/g - <i>Clostridium perfringens</i> CFU/g	ISO 6579-1 : 2017/Amd.1 : 2020 FDA Bacteriological Analytical Manual Online, 2016, Chapter 12 FDA Bacteriological Analytical Manual Online, 2020, Chapter 14 FDA Bacteriological Analytical Manual Online, 2001, Chapter 16

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11	Food - Cereal and Products - Meat and Products - Seafood and Products - Vegetable, Fruit and Products - Beverage - Flour and Products - Snack - Bakery Products - Nuts and Nut products - Coffee and Tea - Eggs and egg products	- Ash 0.002 g/100 g to 37.10 g/100 g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 945.18, 920.153, 938.08, 940.26, 925.51, 923.03, 950.49, 945.39B, 920.93, 920.100, 972.15, 945.46, 930.30, 920.117, 935.42, 941.12(A), 900.02

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11 (cont.)	Food - Frozen french-fried potatoes - Cacao and products - Milk and products - Dairy and dairy products - Seasoning and products	- Ash 0.002 g/100 g to 37.10 g/100 g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 945.18, 920.153, 938.08, 940.26, 925.51, 923.03, 950.49, 945.39B, 920.93, 920.100, 972.15, 945.46, 930.30, 920.117, 935.42, 941.12(A), 900.02
12	Bottled drinking water	- Turbidity 2.4 NTU to 787.2 NTU	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2130 B

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12 (cont.)	Bottled drinking water	- pH 6.5 to 9.4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B
		- Total solids dried from 103 °C to 105 °C 30 mg/L to 960 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B
		- Total dissolved solids dried at 180 °C 56 mg/L to 5 900 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C

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12 (cont.)	Bottled drinking water	- Total hardness (Calculated as CaCO ₃) 10 mg/L to 480 mg/L - Chloride 10 mg/L to 100 mg/L - Silver 0.005 mg/L to 0.500 mg/L - Aluminum 0.009 mg/L to 0.500 mg/L - Barium 0.005 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 K

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12 (cont.)	Bottled drinking water	- Cadmium 0.001 mg/L to 0.500 mg/L - Chromium 0.010 mg/L to 0.500 mg/L - Copper 0.010 mg/L to 0.500 mg/L - Iron 0.010 mg/L to 0.500 mg/L - Manganese 0.005 mg/L to 0.500 mg/L - Nickel 0.010 mg/L to 0.500 mg/L - Lead 0.010 mg/L to 0.500 mg/L - Zinc 0.010 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 K

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Address : 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310 and
INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,
Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13	Ice	- Turbidity 2.4 NTU to 785.6 NTU - pH 6.7 to 8.5 - Total solids dried from 103 °C to 105 °C 30 mg/L to 1 020 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B

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Accreditation Number : Testing - 0286

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13 (cont.)	Ice	- Total dissolved solids dried at 180 °C 78 mg/L to 6 000 mg/L - Total hardness (Calculated as CaCO ₃) 12 mg/L to 460 mg/L - Chloride 10 mg/L to 100 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ B

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Accreditation Number : Testing - 0286

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13 (cont.)	Ice	- Silver 0.005 mg/L to 0.500 mg/L - Aluminum 0.009 mg/L to 0.500 mg/L - Barium 0.005 mg/L to 0.500 mg/L - Cadmium 0.001 mg/L to 0.500 mg/L - Chromium 0.010 mg/L to 0.500 mg/L - Copper 0.009 mg/L to 0.500 mg/L - Iron 0.009 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 K

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Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13 (cont.)	Ice	- Manganese 0.005 mg/L to 0.500 mg/L - Nickel 0.010 mg/L to 0.500 mg/L - Lead 0.009 mg/L to 0.500 mg/L - Zinc 0.010 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 K

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Accreditation Number : Testing - 0286

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
14	Water	- Turbidity 2.4 NTU to 789.2 NTU - pH 6.6 to 7.8 - Total solids dried from 103 °C to 105 °C 38 mg/L to 970 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
14 (cont.)	Water	- Total dissolved solids dried at 180 °C 76 mg/L to 6 000 mg/L - Total hardness (Calculated as CaCO ₃) 14 mg/L to 460 mg/L - Chloride 10 mg/L to 110 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ B

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Accreditation Number : Testing - 0286

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
14 (cont.)	Water	- Silver 0.005 mg/L to 0.500 mg/L - Aluminum 0.010 mg/L to 0.500 mg/L - Barium 0.006 mg/L to 0.500 mg/L - Cadmium 0.001 mg/L to 0.500 mg/L - Chromium 0.010 mg/L to 0.500 mg/L - Copper 0.009 mg/L to 0.500 mg/L - Iron 0.010 mg/L to 0.500 mg/L - Manganese 0.005 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 K

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
14 (cont.)	Water	- Nickel 0.009 mg/L to 0.500 mg/L - Lead 0.010 mg/L to 0.500 mg/L - Zinc 0.009 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 K
15	Wastewater	- Turbidity 2.7 NTU to 788.4 NTU - pH 4.2 to 9.8	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B

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Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
15 (cont.)	Wastewater	- Total solids dried from 103 °C to 105 °C 140 mg/L to 1 010 mg/L - Total dissolved solids dried at 180 °C 76 mg/L to 6 000 mg/L - Chloride 11 mg/L to 110 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
15 (cont.)	Wastewater	- Silver 0.005 mg/L to 0.500 mg/L - Aluminum 0.010 mg/L to 0.500 mg/L - Barium 0.005 mg/L to 0.500 mg/L - Cadmium 0.001 mg/L to 0.500 mg/L - Chromium 0.010 mg/L to 0.500 mg/L - Copper 0.010 mg/L to 0.500 mg/L - Iron 0.010 mg/L to 0.500 mg/L - Manganese 0.006 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 K

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
15 (cont.)	Wastewater	- Nickel 0.011 mg/L to 0.500 mg/L - Lead 0.010 mg/L to 0.500 mg/L - Zinc 0.010 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 K

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