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Effective Date September 7, 2025



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ALS LIFE SCIENCE CHILE S.A. – GERENCIA DE OPERACIONES

www.alsglobal.com

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Accredited to ISO/IEC 17020:2012

Effective Date September 7, 2025

FIELD AND RANGE OF INSPECTION	REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS
Drinking Water	
Sampling	QWI-MM/01 Issue A, mod.2 Based on: NCh409 / 2: 2004 Drinking water - Part 2: Sampling ISO 5667-1:2023 Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3. of 2014 Water quality - Samplin
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement – Free residual chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement – Total chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement – Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Determination – Odor	ME-25-2024, Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Organoleptic method
Measurement – Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – pH	ME-29-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Electrometric method
Measurement – pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement – Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field

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FIELD AND RANGE OF INSPECTION	REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS
Measurement – Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Determination – Taste	ME-26-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Organoleptic method
Measurement – Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement – Turbidity	ME-03-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Nephelometric Method
Measurement – Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Groundwater	
Sampling	QWI-MM/03 Issue A, mod.2 Based on: NCh411 / 11: 2022 Water quality - Sampling - Part 11: Groundwater sampling guide ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement – Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Phreatic Level measurement	ASTM D4750-2001 Standard Test Method for Determining Subsurface Liquid Levels in a Borehole or Monitoring Well
Measurement – Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement – pH Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater

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FIELD AND RANGE OF INSPECTION	REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement – Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement – Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Temperature Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement – Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement – Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Aquatic Sediment (From Rivers and Estuarine Areas)	
Sampling	QWI-MM/35 Issue A, mod.2 Based on:
Measurement – pH	ISO 5667-12:2017 Water quality -- Sampling-- Part 12: Guidance on sampling of bottom sediments from rivers, lakes and estuarine areas
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24 th Edition, 2023, 10500 B
Measurement – Temperature	R.E. 1917/2023 modifies resolution No. 3612 of 2009, which established the methodologies to prepare the CPS and the INFA, to be applied to small-scale aquaculture farmers, in accordance with article 21 of D.S. N°45 of 2021, from the Ministry of Economy, Development and Tourism Manufacturers Manual of Multiparameter
Marine Sediment	
Sampling	QWI-MM/35 Issue A, mod.2 Based on:
Measurement – pH	NCh411 / 19: 2017 Water quality - Sampling - Part 19: Guide for sampling marine sediments
Measurement – Redox Potential (ORP)	Standard Methods for the Examination of Water and Wastewater, 24 th Edition, 2023, 10500 B
Measurement – Temperature	R.E 1917/2023 modifies resolution No. 3612 of 2009, which established the methodologies to prepare the CPS and the INFA, to be applied to small-scale aquaculture

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FIELD AND RANGE OF INSPECTION	REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS
	farmers, in accordance with article 21 of D.S. N°45 of 2021, from the Ministry of Economy, Development and Tourism Manufacturers Manual of Multiparameter
Lacustrine Sediments (From Lakes, Natural and Manmade)	
Sampling	QWI-MM/35 Issue A, mod.2 Based on:
Measurement – pH	ISO 5667-12:2017 Water quality -- Sampling-- Part 12: Guidance on sampling of bottom sediments from rivers, lakes and estuarine areas
Measurement – Redox Potential (ORP)	Standard Methods for the Examination of Water and Wastewater, 24 th Edition, 2023, 10500 B
Measurement – Temperature	R.E.1917/2023 modifies resolution No. 3612 of 2009, which established the methodologies to prepare the CPS and the INFA, to be applied to small-scale aquaculture farmers, in accordance with article 21 of D.S. N°45 of 2021, from the Ministry of Economy, Development and Tourism Manufacturers Manual of Multiparameter
Sea Water	
Sampling	QWI-MM/04 Issue A, mod.3 Based on: ISO 5667-9:1992 Water quality -- Sampling-- Part 9: Guidance on sampling from marine waters ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement – Conductivity	Standards Methods for the Examination of Water and Wastewater, 24 th Edition, 2023 2510-B
Measurement – Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24 th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – pH	Standards Methods for the Examination of Water and Wastewater, 24 th Edition, 2023 4500 H + B
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24 th Edition, 2023, 2580 B
Measurement – Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Salinity	Standards Methods for the Examination of Water and Wastewater, 24 th Edition, 2023, 2520 B
Measurement – Temperature	Standards Methods for the Examination of Water and Wastewater, 24 th Edition, 2023 2550 B

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FIELD AND RANGE OF INSPECTION	REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS
Measurement – Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement – Transparency	QWI-MM/36 Issue A Mod.2 Based on: DGA-LGOCL20 / 2009: DGA-Transparency Internal Analysis Method
Measurement – Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Measurement – Specific Density	QWI-MM/48 (Issue A Modification 0) Specific Density measurement
Measurement – Percentage of oxygen saturation	QWI-MM/48 (Issue A Modification 0) percentage of oxygen saturation measurement
Measurement – Salinity	QWI-MM/49 (Issue A Modification 0) Salinity measurement
Sources of Uptake	
Sampling	QWI-MM/01 Issue A, mod.2 Based on: NCh409 / 2: 2004 Drinking water - Part 2: Sampling ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples
Measurement – Free residual chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement – Total chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement – Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement – Phreatic Level measurement	ASTM D4750-2001 Standard Test Method for Determining Subsurface Liquid Levels in a Borehole or Monitoring Well
Determination – Odor	ME-25-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Organoleptic method
Measurement – Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams

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FIELD AND RANGE OF INSPECTION	REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – pH	ME-29-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Electrometric method
Measurement – pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement – Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Determination – Taste	ME-26-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Organoleptic method
Measurement – Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement – Turbidity	ME-04-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Nephelometric Method
Measurement – Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Surface Water From Lakes	
Sampling	QWI-MM/04 Issue A, mod.3 Based on: ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh-ISO5667/6: 2015 Water quality - Sampling - Part 6: Guide for sampling rivers and waterways
Surface Water From Rivers and Streams	
Sampling	QWI-MM/04 Issue A, mod.3 Based on: ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and

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	sampling techniques NCh-ISO5667/6: 2015 Water quality - Sampling - Part 6: Guide for sampling rivers and waterways
Surface Water (Rivers and Streams, Lakes)	
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement – Flow	QWI-MM / 16 Issue A, mod.1 Based on: NCh411 / 10 Of.2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual -2010 NCh3205: 2011 Wastewater Flowmeters - Requirements
Measurement – Water Level	ASTM D5413-93(2013) Standard Test Methods for Measurement of Water Levels in Open-Water Bodies
Measurement – Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement – Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement - pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement – pH Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement – Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement – Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Temperature Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement – Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement – Transparency	QWI-MM/36 Issue A Mod.0 Based on:

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	DGA-LGO TR1 / 2009: DGA-Transparency Internal Analysis Method
Measurement – Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Measurement – Percentage of oxygen saturation	QWI-MM/48 (Issue A Modification 0) percentage of oxygen saturation measurement
Wastewater	
Automatic and Manual Sampling	QWI-MM/02 Issue A, mod.4 Based on: ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples NCh411 / 10.Of2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual-2010
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement – Free residual chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement – Total chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement – Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement – Flow measurement	QWI-MM / 16 Issue A, mod.1 Based on: NCh411 / 10 Of.2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual -2010 NCh3205: 2011 Wastewater Flowmeters - Requirements
Measurement – Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – pH	NCh2313/1:2021 Wastewater - Methods of Analysis - Part 1: Determination of pH
Measurement – pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B

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Measurement – pH Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement – Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement – Settling Solids	NCh2313 / 4.Of95 Waste water - Methods of analysis - Part 4: Determination of settleable solids - Volumetric method
Measurement – Settling Solids	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2540 F
Measurement – Temperature	NCh2313 / 2.Of95 Wastewater - Analysis Methods - Part 2: Temperature Determination
Measurement – Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Temperature Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement – Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement – Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Water for Industrial Purposes	
Automatic and Manual Sampling	QWI-MM/02 Issue A, mod.4 Based on: ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples NCh411 / 10.Of2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual -2010
Measurement – Free residual chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G

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FIELD AND RANGE OF INSPECTION	REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS
Measurement – Total chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement – Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Flow	QWI-MM / 16 Issue A, mod.1 Based on: NCh411 / 10 Of.2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual -2010 NCh3205: 2011 Wastewater Flowmeters - Requirements
Measurement – Phreatic Level	ASTM D4750-2001 Standard Test Method for Determining Subsurface Liquid Levels in a Borehole or Monitoring Well
Measurement – Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement – Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement – Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement – Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement – Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Sludge	
Sampling	QWI-MM / 05 Issue A Mod.5 QWI-MM / 13 Issue A Mod.3 Based on:

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	ISO 5667-13:2011 Water quality -- Sampling-- Part 13: Guidance on sampling of sludges
Measurement – Oxidation – Reduction Potential	QWI-MM/05 ((Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – pH	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – Temperature	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Soils	
Sampling	QWI-MM / 05 Issue A Mod.5 QWI-MM / 13 Issue A Mod.3 Based on: NCh3400 / 1: 2016 Soil quality - Sampling - Part 1: Guidelines for the design of sampling programs NCh3400 / 2: 2016 Soil quality - Sampling - Part 2: Guidelines on sampling techniques
Measurement – Oxidation – Reduction Potential	QWI-MM/05 ((Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – pH	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – Temperature	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Compost	
Sampling	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – Oxidation – Reduction Potential	QWI-MM/05 ((Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – pH	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – Temperature	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Solid Waste, Dangerous Solid Waste and Industrial Solid Waste	
Sampling	QWI-MM/05 Issue A Mod.5 QWI-MM/13 Issue A Mod.3 QWI-MM/33 Issue A Mod.2

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FIELD AND RANGE OF INSPECTION	REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS
	Based on: Technical guide for sampling of hazardous waste, MINSAL DS N ° 148/2004 MINSAL Health Regulations on Hazardous Waste Management EPA SW-846 Hazardous Waste Test Methods Compendium (On-line) ASTM D6009-2018 Standard Guide for Sampling Waste Piles EPA 530-D-02-002 RCRA Waste Sampling Draft Technical Guidance
Breatheable Particulate Matter (PM10) on Environmental and Personal Filters	
Sampling (continuous and discrete)	QWI-MM/24 Issue A, mod.1 Based on: EPA/625/R-96/010a IO-2.1 Sampling of ambient air for total suspended Particulate matter (SPM) and PM10 using High volume (HV) sampler EPA/625/R-96/010a IO-2.3 Sampling of ambient air for PM10 concentration using the Rupprecht and Patashnick (R&P) low volume Partisol® sampler
Breatheable Particulate Matter (PM2.5) on Environmental and Personal Filters	
Sampling (continuous and discrete)	QWI-MM/23 Issue A, mod.1 Based on: EPA/625/R-96/010a IO-2.1 Sampling of ambient air for total suspended Particulate matter (SPM) and PM10 using High volume (HV) sampler EPA/625/R-96/010a IO-2.3 Sampling of ambient air for PM10 concentration using the Rupprecht and Patashnick (R&P) low volume Partisol® sampler
Settleable Particulate Matter on Environmental Filters	
Sampling (continuous and discrete)	QWI-MM/25 Issue A, mod.1 Based on: ASTM D1739-98(2017) Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter)
Particulate Matter	
Sampling – Condensable Particulate Matter	EPA Method 202 — Dry impinger method for determining condensable particulate emissions from stationary sources, 2017
Sampling – Formaldehyde Sampling and Analysis in Mineral, Wool, and Fiberglass industries	EPA Method 316 — Sampling and analysis for formaldehyde emissions from stationary sources in the mineral wool and wool fiberglass industries, 2020
Sampling – Particulate Material	CH-5 Method: Determination of Particulate Emissions from Stationary Sources, Rev. 3 (2020)

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Sampling – Particulate Material	EPA Method 5 – Determination of particulate matter emissions from stationary sources, 2020
Sampling – Particulate Matter in Stationary Sources (without heating)	EPA Method 17 – Determination of particulate matter emissions from stationary sources, 2017
Sampling – PM10 and PM2.5	EPA Method 201A – Determination of PM10 and PM2.5 emissions from stationary sources (constant sampling rate procedure), 2020
Gases	
Measurement – Carbon Monoxide	Method CH-10: Determination of carbon monoxide emissions from stationary sources, Rev.1, 1998.
Measurement – Carbon Monoxide	EPA Method 10 – Determination of carbon monoxide emissions from stationary sources (instrumental analyzer procedure), 2017
Measurement – Nitrogen Oxides	Method CH-7E: Determination of Nitrogen Oxide Emissions from Stationary Sources (Instrumental Analyzer Procedure), Rev.1, 1996
Measurement – Nitrogen Oxides	EPA Method 7E – Determination of nitrogen oxides emissions from stationary sources (instrumental analyzer procedure), 2023
Measurement – Sulfur Dioxide	Method CH-6C: Determination of Sulfur Dioxide Emissions from Stationary Sources (Instrumental Analyzer Procedure), Rev.1, 1996
Measurement – Sulfur Dioxide	EPA Method 6C – Determination of sulfur dioxide emissions from stationary sources (instrumental analyzer procedure), 2017
Measurement – Determination of COV Concentration (Flame Ionization)	Method CH-25A: Determination of the concentration of total volatile organic compounds by a flame ionization analyzer, Rev.1, 1998
Measurement – Determination of COV Concentration (Flame Ionization)	EPA Method 25A – Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer 2017
Sampling – Ammonia	EPA Method CTM 027 – Procedure for Collection and analysis of ammonia in stationary sources, 1997
Sampling – Determination of COV Emissions from Stationary Sources (Gas Chromatography)	Method CH-18: Measurements of Volatile Organic Compound Emissions by Gas Chromatography, Rev.1 (1998)
Sampling – Determination of COV Emissions from Stationary Sources (Gas Chromatography)	EPA Method 18 – Measurement of gaseous organic compound emissions by gas chromatography, 2019.
Sampling – Hydrogen Halide, Halogen Emissions: Total Bromine, Hydrogen Bromide, Total Chlorine, Hydrogen Chloride, Hydrogen Fluoride	Method CH-26A: Determination of Hydrogen Halide and Halogen Emissions from a Stationary Source, Isokinetic Method, Rev.1, 2010
Sampling – Hydrogen Halide, Halogen Emissions: Total Bromine, Hydrogen Bromide, Total Chlorine, Hydrogen Chloride, Hydrogen Fluoride	EPA Method 26A – Determination of hydrogen halide and halogen emissions from stationary sources isokinetic method, 2020
Sampling – Sulfuric Acid, Sulfur Dioxide, Sulfur Trioxide Acid	EPA Method 8 – Determination of sulfuric acid and sulfur dioxide emissions from stationary sources, 2019

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Sampling – Total Reduced Sulfur Emissions (TRS) with Impinger: Sulfur Dioxide, Carbon Disulfide, Methyl Disulfide, Methyl Mercaptan, Carbonyl Sulfide, Dimethyl Sulfide, Hydrogen Sulfide	EPA Method 16A – Determination of total reduced sulfur emissions from stationary sources (impinger technique), 2017
Sampling – Total Reduced Sulfur Emissions (TRS): Sulfur Dioxide, Methyl Disulfide, Methylmercaptan, Dimethyl Sulfide, Hydrogen Sulfide	EPA Method 16B – Determination of total reduced sulfur emissions from stationary sources, 2020
Gases – Particulate Matter	
Measurement – Determination of Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)	EPA Method 2C – determination of gas velocity and volumetric flow rate in small stacks or ducts (standard pitot tube), 2017
Measurement – Direct Measurement of Gas Volume through Pipes and Small Ducts	Method CH-2A: Direct Gas Volume Measurements in Stacks and Small Ducts, Rev.1, 1996
Measurement – Direct Measurement of Gas Volume through Pipes and Small Ducts	EPA Method 2A – Direct measurement of gas volume through pipes and small ducts, 2017
Measurement – Flow Velocity and Volumetric Flow in Chimney Gases	Method CH-2: Determination of velocity and volumetric flow in stack gases (Pitot tube type S), Rev.1, 1996.
Measurement – Flow Velocity and Volumetric Flow in Chimney Gases	EPA Method 2 – Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube), 2017
Measurement – Gas Analysis for Determining Correction Factor of Emission Velocity or Air Excess	CH-3B Method: Gas Analysis to Determine Emission Velocity or Excess Air Correction Factor, Rev.1, 1996
Measurement – Gas Analysis for Determining Correction Factor of Emission Velocity or Air Excess	EPA Method 3B—Gas analysis for the determination of emission rate correction factor or excess air, 2017.
Measurement – Gas Analysis for Dry Molecular Weight Determination	Method CH-3: Gas Analysis for Dry Molecular Weight Determination, Rev.1, 1996
Measurement – Gas Analysis for Dry Molecular Weight	EPA Method 3 – Gas analysis for the determination of dry molecular weight, 2017
Measurement – Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)	Method CH-2C: Determination of velocity and volumetric flow in small stacks and ducts (standard pitot tube), Rev.1, 1996
Measurement – Gas Volume Flow Rates in Small Pipes and Ducts	CH-2D Method: Gas Volumetric Flow Measurements in Chimneys and Small Ducts, Rev.1, 1996
Measurement – Gas Volume Flow Rates in Small Pipes and Ducts	EPA Method 2D – Measurement of gas volume flow rates in small pipes and ducts, 2017
Measurement – Humidity Content in Chimney Gases	Method CH-4: Determination of moisture content in chimney gases, Rev.1, 1996.
Measurement – Humidity Content in Chimney Gases	EPA Method 4 – Determination of moisture content in stack gases, 2023
Measurement – Oxygen, Carbon Dioxide, Carbon Monoxide	Method CH-3A: Determination of Oxygen, Carbon Anhydride and Carbon Monoxide Concentrations in Stationary Source Emissions (Instrumental Analyzer Procedure), Rev.1, 1996
Measurement – Oxygen, Carbon Dioxide, Carbon Monoxide	EPA Method 3A – Determination of oxygen and carbon dioxide concentrations in emissions from stationary sources (instrumental analyzer procedure), 2017
Sample and Velocity Traverses (Sampling Point Identification) for Stationary Sources	Method CH-1: Location of Sampling and Velocity Measurement Points for Fixed Sources, Rev.1, 1996

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Sample and Velocity Traverses (Sampling Point Identification) for Stationary Sources	EPA Method 1 – Sample and Velocity Traverses for Stationary Sources, 2023
Sample and Velocity Traverses (Sampling Point Identification) for Stationary Sources with Small Stacks or Ducts	Method CH-1A: Sampling and Velocity Transverse for Chimneys or Small Ducts, Rev.1, 1996
Sample and Velocity Traverses (Sampling Point Identification) for Stationary Sources with Small Stacks or Ducts	EPA Method 1A – Sample and velocity traverse, 2017
Sampling – Metals in Particulate Matter	CH-29 Method, Rev1 2010 Determination of metal emission from stationary sources
Sampling – Metals in Particulate Matter	EPA Method 29 2016
Sampling – Polychlorinated Dibenzene-p-dioxins, Polychlorinated Dibenzofurans	CH-23 Method: Determination of Polychlorinated Dibenzop-Dioxins and Polychlorinated Dibenzofurans
Sampling –Polychlorinated Dibenzene-p-dioxins, Polychlorinated Dibenzofurans	Method EPA 23 2014
Noise	
Inspection – Noise Control Actions	QWI-MM/46 (Issue A Modification 0) Inspection of noise control actions
Inspection – Verification of Noise Control Actions	QWI-MM/47 (Issue A Modification 0) Verification of noise related procedures
Inspection – Verification of Noise Measurements.	QWI-MM/47 (Issue A Modification 0) Verification of noise related procedures
Measurement – Equivalent Sound Pressure Level (LEQ)	QWI-MM/45 (Issue A Modification 0) Technical Procedure for Measuring Noise
Measurement – Sound Pressure Level Corrected (NPC)	DS N°38/11 MMA (Ministry of the Environment) - Emission Standard for Noise Generated by Sources Indicating

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