CERTIFICATE OF ACCREDITATION

This is to attest

SGS CHILE LTDA SOCIEDAD DE CONTROL

RUTA 5 SUR, KM 1013
PUERTO VARAS, 555000, CHILE

Testing Laboratory TL-1215

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date April 1, 2026
Initial Accreditation Date March 5, 2024
Effective Date April 7, 2025

International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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SGS CHILE LTDA SOCIEDAD DE CONTROL

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Accredited to ISO/IEC 17025:2017 *Effective Date April 7, 2025*

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic	Drinking water, surface water, groundwater, sea water, wastewater, source of drinking waters, water for industrial purposes	5-Day BOD	**SMEWW 5210 B** (24th edition, 2023). Biochemical Oxygen Demand
		Chemical Oxygen Demand	**SMEWW 5220 D** (24th edition, 2023). Chemical Oxygen Demand Closed Reflux Colorimetric Method
		Chloride	**SMEWW 4500 Cl- B** (24th edition, 2023). Chloride by Argentometric Method
		Residual free chlorine (free chlorine) Total chlorine (residual chlorine)	**SMEWW 4500 Cl G** (24th edition, 2023). Chlorine by DPD Colorimetric Method
		Conductivity	**SMEWW 2510 B** (24th edition, 2023). Conductivity Laboratory Method
		Fixed and Volatile Solids Ignited at 550°C.	**SMEWW 2540 E** (24th edition, 2023). Fixed and Volatile Solids Ignited at 550°C.
		pH	**SMEWW 4500 H+ B** (24th edition, 2023). pH by Electrometric Method
		Settleable Solids.	**SMEWW 2540 F** (24th edition, 2023). Settleable Solids.
		Total Dissolved Solids Dried at 180°C	**SMEWW 2540 C** (24th edition, 2023). Total Dissolved Solids Dried at 180°C.
		Total Solids Dried at 103–105°C.	**SMEWW 2540 B** (24th edition, 2023). Total Solids Dried at 103–105°C.
		Total Suspended Solids Dried at 103–105°C.	**SMEWW 2540 D** (24th edition, 2023). Total Suspended Solids Dried at 103–105°C.
		Turbidity	**SMEWW 2130 B** (24th edition, 2023). Turbidity by Nephelometry method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont´d.)	Drinking water, surface water, groundwater, sea water, wastewater, Source of drinking waters, water for industrial purposes (cont´d.)	Foaming power	**I-ENV-LAB-288 Ed00** based on ISO 696:1975 and NCh2313/21.Of2010. Surface active agents – Measurement of foaming power – Modified Ross-Miles method.
	Drinking water, Source of drinking waters	Turbidity	**ME-03-2024** Manual SISS, Turbidity Determination by Nephelometric Method.
		Color (True color)	**Color - ME-24-2024** Manual SISS, Color Determination by Platinum - Cobalt Method.
		Odor	**ME-25-2024:** Manual SISS, Determination of Odor by organoleptic method.
		Chloride	**ME-28-2024** Manual SISS, Determination of Chloride by Argentometric Method
		pH	**ME-29-2024** Manual SISS Determination of pH by Electrometric Method.
		Dissolved Solids	**ME-31-2024** Manual SISS, Determination of Dissolved solids by Gravimetric Method
	Wastewater	Biochemical Oxygen Demand (BOD5)	**NCh2313/5.Of2005.** Determination of Biochemical Oxygen Demand (BOD5)
		Chemical Oxygen Demand (COD)	**NCh2313/24.Of1997**. Determination of chemical oxygen demand (COD)
		Chloride	**NCh2313/32.Of1999**. Determination of chloride - Mohr's Argentometric method
		Foaming Power	**NCh2313/21.Of2010.** Determination of foaming power
		pH	**NCh2313/1.Of2021.** Determination of pH
		Settleable Solids.	**NCh2313/4.Of1995.** Determination of Settling Solids - Volumetric Method
		Suspended Solids	**NCh2313/3.Of1995.** Determination of total suspended solids dried at 103-105 °C