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ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **SANGUESA Y ASOCIADOS LIMITADA**

LOS MOLINOS 747  
QUILPUE, 2420000, CHILE

### **Inspection Agency AA-824 (Type A)**

has met the requirements of AC98, *IAS Accreditation Criteria for Inspection Agencies*, and has demonstrated compliance with ISO/IEC Standard 17020:2012, *Conformity assessment - Requirements for the operation of various types of bodies performing inspection*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date April 1, 2027

Effective Date June 18, 2026



*International Accreditation Service*  
Issued under the authority of IAS management

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# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## SANGUESA Y ASOCIADOS LIMITADA

[www.syagroupchile.com](http://www.syagroupchile.com)

**Contact Name** René Díaz

**Contact Phone** +56 952171114

*Accredited to ISO/IEC 17020:2012*

*Effective Date June 18, 2026*

| FIELD AND RANGE OF INSPECTION                   | REGULATIONS, INSPECTION METHODS, STANDARDS AND/OR SPECIFICATIONS   |
|---|--|
| <b>Seawater</b>                                 |  |
| Sampling  | NCh411/9:1997. Part 9. Marine Water Sampling Guide   |
| In situ - Measurement of Redox Potential        | Standard Methods for the Examination of Water and Wastewater, 2580 B. 24 <sup>th</sup> Edition   |
| In situ - Salinity                              | Standard Methods for the Examination of Water and Wastewater, 2520 B. 24 <sup>th</sup> Edition   |
| In situ - Conductivity                          | Standard Methods for the Examination of Water and Wastewater, 2510 B. 24 <sup>th</sup> Edition   |
| Field Transparency Measurement                  | IUDC v.07 Disk Use Secchi  |
| In situ - pH measurement                        | Standard Methods for the Examination of Water and Wastewater, 4500-H B. 24 <sup>th</sup> Edition   |
| In situ - Measurement of dissolved oxygen       | Standard Methods for the Examination of Water and Wastewater, 4500-0 G. Membrane Electrode Method. O Oxygen (Dissolved). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF. |
| In situ - Measurement of dissolved oxygen       | IUSM v.08 Using Multiparameter Probe (in-house procedure)  |
| In situ - Temperature Measurement               | Standard Methods for the Examination of Water and Wastewater, 2550 B. 24 <sup>th</sup> Edition   |
| In situ - Measurement of Residual Free Chlorine | IMCLB v.07 Residual Free Chlorine Measurement (in-house procedure)   |
| In situ - Measurement of Redox Potential        | 2580 B. Oxidation-Reduction Potential Measurement in Clean Water. Oxidation-Reduction Potential (ORP). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF.                   |
| Qualitative phytoplankton sampling              | IMFAM. v.01 Seawater phytoplankton sampling (in-house procedure)   |
| Quantitative Phytoplankton Sampling             | IMFAM. v.01 Seawater phytoplankton sampling (in-house procedure)   |



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|---|--|
| Zooplankton sampling                      | IMZAM. v.01 Use of Zooplankton nets (in-house procedure)   |
| <b>Groundwater</b>                        |  |
| Sampling                                  | NCh411/11:2022. Part 11. Guide to groundwater sampling.  |
| In situ - Measurement of dissolved oxygen | IUSM v.08 Using Multiparameter Probe (in-house procedure)  |
| In situ - pH measurement                  | Standard Methods for the Examination of Water and Wastewater, 4500-H B. 24 <sup>th</sup> Edition             |
| Measurement of dissolved oxygen           | Standard Methods for the Examination of Water and Wastewater, 4500-0 G. 24 <sup>th</sup> Edition             |
| In situ - Temperature Measurement         | Standard Methods for the Examination of Water and Wastewater, 2550 B. 24 <sup>th</sup> Edition               |
| In situ - Salinity                        | Standard Methods for the Examination of Water and Wastewater, 2520 B. 24 <sup>th</sup> Edition               |
| In situ - Conductivity                    | Standard Methods for the Examination of Water and Wastewater, 2510 B. 24 <sup>th</sup> Edition               |
| In situ - Measurement of Redox Potential  | IMORP v.07 Measurement of Redox Potential-(in-house procedure)   |
| Phreatic Level                            | PMNF v.04 Measurement of the water table (in-house procedure)  |
| <b>Surface Water</b>                      |  |
| Sampling                                  | NCh-ISO 5667/4:2016. Part 4. Guide to Sampling Natural and Artificial Lakes                                  |
| Sampling                                  | NCh-ISO 5667/6:2015. Part 6: Guide to sampling rivers and watercourses. Water quality - Sampling. 2015. INN. |
| In situ - pH measurement                  | Standard Methods for the Examination of Water and Wastewater, 4500-H B. 24 <sup>th</sup> Edition             |
| In situ - Measurement of dissolved oxygen | Standard Methods for the Examination of Water and Wastewater, 4500-0 G. 24 <sup>th</sup> Edition             |
| In situ - Flow Measurement                | IMCAU v.05 Flow Measurement (Own method)   |
| In situ - Measurement of dissolved oxygen | IUSM v.08 Using Multiparameter Probe (in-house procedure)  |
| In situ - Temperature Measurement         | Standard Methods for the Examination of Water and Wastewater, 2550 B. 24 <sup>th</sup> Edition               |
| In situ - Salinity                        | Standard Methods for the Examination of Water and Wastewater, 2520 B. 24 <sup>th</sup> Edition               |



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|---|--|
| In situ - Conductivity                          | Standard Methods for the Examination of Water and Wastewater, 2510 B. 24 <sup>th</sup> Edition |
| In situ - Measurement of Residual Free Chlorine | IMCLB v.05 Residual Free Chlorine Measurement (in-house procedure)                             |
| In situ - Measurement of Redox Potential        | IMORP v.07 Measurement of Redox Potential (in-house procedure)                                 |
| Phytoplankton Sampling                          | PMFAS. v.01 Seawater phytoplankton sampling (in-house procedure)                               |
| Phytobenthos sampling                           | PMFBAS. v.01 Phytobenthos surface water sampling (in-house procedure)                          |
| Zooplankton sampling                            | PMZAS. v.01 Surface water Zooplankton sampling (in-house procedure)                            |
| <b>Wastewater</b>                               |  |
| Manual and Automatic Sampling                   | NCh411/10.0f2005. Part 10-Wastewater sampling.   |
| In situ - Temperature Measurement               | NCh 2313/2:1995 Wastewater - Methods of Analysis - Part 2: Temperature Determination           |
| In situ - Flow measurement                      | NCh411/10.0f2005. Part 10: Wastewater Sampling-Sample Collection and Management, 7.9           |
| In situ - pH measurement                        | NCh 2313/1:2021 Wastewater - Methods of Analysis - Part 21: Determination of Foaming Power     |
| In situ - Measurement of Residual Free Chlorine | IMCLB v.07 Residual Free Chlorine Measurement (in-house procedure)                             |
| <b>Drinking Water</b>                           |  |
| Sampling  | NCh 409/2:2004. Part 2 Sampling  |
| In situ - pH measurement                        | IMPH v.07 On site pH measurement (in-house procedure)  |
| In situ - Temperature Measurement               | IMTT v.07 On site Temperature measurement (in-house procedure)                                 |
| In situ - Measurement of Residual Free Chlorine | IMCLB v.05 Residual Free Chlorine Measurement (in-house procedure)                             |
| <b>Lake Sediments</b>                           |  |
| Sampling  | PMSED01 v.06 Sediment Sampling Procedure (in-house procedure)                                  |
| In situ - Measurement of Redox Potential        | IMORP V.05 Measurement of Redox Potential (in-house procedure)                                 |
| <b>Aquatic Sediments</b>                        |  |



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|--|---|
| Sampling   | PMSED01 v.06 Sediment Sampling Procedure (in-house procedure)   |
| In situ - Measurement of Redox Potential   | IMORP v.07 Measurement of Redox Potential (in-house procedure)  |
| <b>Marine Sediments</b>  |   |
| Sampling   | PMSED01 v.06 Sediment Sampling Procedure (in-house procedure)   |
| In situ - Measurement of Redox Potential   | 2580. B. Oxidation-Reduction Potential Measurement in Clean Water. Oxidation-Reduction Potential (ORP). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF. |
| Vessels, Marine Water and Sediment – Carbon Sampling (Shipping)                  | PMCN v.04 Coal Sampling in Ships (in-house procedure)   |
| Vessels, Marine Water and Sediment – Carbon Sampling (Intermarial and Submarial) | PMCN v.04 Coal Sampling in Ships (in-house procedure)   |
| <b>Macrofauna</b>  |   |
| Subtidal benthic macrofauna sampling   | PMMBS. v.01 Submarial benthic macrofauna sampling (in-house procedure)  |
| Intertidal macrobenthic communities sampling                                     | PMCMIA. v.01 Intertidal Macrofauna Sampling (in-house procedure)  |
| Intertidal macrobenthic communities sampling                                     | PMCMIR. v.01 Rocky Macrofauna Sampling (in-house procedure)   |
| Macroinvertebrates sampling  | PMM. v.01 Macroinvertebrate Sampling (in-house procedure)   |

