



CERTIFICATE OF ACCREDITATION

This is to attest that

AGQ CHILE S.A.
INDUSTRIALES 697
SANTIAGO 8590829, REBUPLIC OF CHILE

Inspection Agency AA-791 (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.

Effective Date January 14, 2021

Expiry Date January 1, 2022



A handwritten signature in black ink, reading 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

AGQ CHILE S.A.

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Contact Name Jesus Martinez

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Accredited to ISO/IEC 17020:2012

Effective Date January 14, 2021

Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
Samples collection of groundwater	PICH-210 (Rev. 5) Groundwater samples collection based on NCh411/11:1998 and UNE-EN-ISO 5667-3:2019 Water quality - Sampling - Part 3: Preservation and handling of water samples
Samples collection of drinking water, surface water, Sea Water, catchment sources and raw water	PICH-211 (Rev. 8) Drinking Water, Catchment sources and Raw Waters samples collection based on NCh409/2:2004, UNE-EN-ISO 5667-3:2019 and Manual of Test Methods for Drinking Water SISS.
Samples collection of wastewaters	PICH-212 (Rev. 6) Wastewater samples collection based on NCh411/10:2005 and UNE-EN-ISO 5667-3:2019, D.S MINSEGPRES N°46/02, D.S MOP N°609/98 and Methodological Guide for Chemical Analysis. Item 4 Quality Control. IHOBE S. A.
Samples collection of wastewaters	NCh411/10:2005 Water quality - Sampling - Part 10: Sampling of wastewater - Collection and handling of samples
Samples collection of drinking water	NCh409/2:2004 Drinking water - Part 2: Sampling
Samples collection of Solid Waste, Liquid Waste, Solid industrial waste (RISES) and Sludge	PICH-301 (Rev. 2) Solid Waste and Liquid Waste samples collection based on DS148 MINSAL Sanitary regulation for the management of hazardous waste
Samples collection of Soils	PICH-302 (Rev. 2) Solid soil samples collection using manual or prospecting techniques, based on ISO 10381-2 :2002. Soil Quality – Sampling – Part 2: Guidance on Sampling Techniques
Samples collection of sediments, lacustrine sediments, marine sediments and aquatic sediments	PICH-303 (Rev. 3) Sediments samples collection, based on UNE EN ISO 5667-1:2007, UNE-EN ISO 5667-13:2011, UNE-EN ISO 5667-15:2010, UNE-EN ISO 5667-19:2004 and ISO 5667-12:2017
Samples collection of Flours and related products	PC-128 (Rev. 1) Flours and related products samples collection
In Situ Measurement: pH	PICH-202 (Rev. 3) In situ measurement of pH, based on NCh411/10:2005, APHA-AWWA-WPCF Ed.23

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Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
	and NCh2313/1:1995 in drinking water, surface water, groundwater, wastewater and sea water
In Situ Measurement: Electric Conductivity	PICH-203 (Rev. 3) In situ measurement of Electric Conductivity, based on UNE-EN 27888:1994 and APHA-AWWA-WPCF Ed.23 in drinking water, surface water, groundwater, wastewater and sea water
In Situ Measurement: Temperature	PICH-204 (Rev. 4) In situ measurement of Temperature, based on L'analyse de l'eau eaux naturelles, eaux résiduaires, eau de mer. Chimie, physico- chimie, bactériologie, biologie. J.Rodier 1978, p.62-63 in drinking water, surface water, groundwater, wastewater and sea water
In Situ Measurement: Dissolved Oxygen	PICH-205 (Rev.2) In situ measurement of Dissolved Oxygen, based on UNE-EN 25814:1994 in surface water, groundwater, sea water and wastewater
In Situ Measurement: Total Chlorine, Residual Free Chlorine, Combined Chlorine	PICH-206 (Rev. 3) In situ measurement of Total, Residual Free and Combined Chlorine, based on NCh411/10:2005 and Standard Methods for the examination of water on wastewater ed. 23 in drinking water, surface water, groundwater, wastewater and sea water
In Situ Measurement: Flow	PICH-207 (Rev.3) In situ measurement of Flow based on ASTM D5242-92, ASTM D5640-95, Minsegpres DS46/2, NCh410, NCh411/10:2005, NCh3205:2011, MOP D.S609/98 in drinking water, surface water and wastewater
In Situ Measurement: Water Transparency	PICH-208 (Rev.2) In situ determination of water transparency using Secci Disk in surface water and sea water
In Situ Measurement: Phreatic groundwater level and Dynamic groundwater level	PICH-210 (Rev. 5) Groundwater samples collection based on NCh411/11:1998 and UNE-EN-ISO 5667-3:2019 Water quality - Sampling - Part 3: Preservation and handling of water samples
In Situ Measurement: Water level in surface water	PICH-211 (Rev.8) Drinking Water, Catchment sources and Raw Waters samples collection based on NCh409/2:2004, UNE-EN-ISO 5667-3:2019 and Manual of Test Methods for Drinking Water SISS.
In Situ Measurement: Odor	PICH-213 (Rev.2) In situ determination of Odor, based on NCh409/1:2005, NCh410:1996 and Standard Methods for the Examination of Water and Wastewater. APHA.AWWA. Ed. 23, Part. 2150. in drinking water

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Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
In Situ Measurement: Taste	PICH-214 (Rev.2) In situ determination, based on NCh409/1:2005, NCh410:1996 and Standard Methods for the Examination of Water and Wastewater. APHA.AWWA. Ed. 23, Part. 2170: Flavor Profile Analysis of Taste in drinking water