CERTIFICATE OF ACCREDITATION

This is to attest

SGS CHILE LTDA SOCIEDAD DE CONTROL

PUERTO MADERO # 130
PUDAHUEL 9020000, CHILE

Testing Laboratory TL-879

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 September 1, 2025
Initial Accreditation Date December 9, 2019
Effective Date September 20, 2024

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Accredited to ISO/IEC 17025:2017 *Effective Date September 20, 2024*

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic	Seawater, Saline water, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Dissolved trace elements by Direct Air-Acetylene Flame, FLAME ATOMIC ABSORPTION SPECTROMETRY in Dissolved: As, Cd, Ca, Co, Cu, Cr, Sr, Fe, Li, Mg, Mn, Ni, Ag, Pb, K, Na, Tl, Zn	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 3030 B, Method 3111 B. Atomic Absorption
		Dissolved trace elements by Direct Nitrous Oxide-Acetylene Flame, FLAME ATOMIC ABSORPTION SPECTROMETRY. Dissolved: Al, Ba, Be, Ca, Sn, Sr, Mg, Mo, Si, V	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 3030 B, Method 3111 D. Atomic Absorption
	Seawater, saline water, Ground water, Surface Water, wastewater, Drinking water, Water for industrial purposes	Dissolved trace elements by Extraction/Air-Acetylene Flame Method. Dissolved: Cd, Co, Cu, Cr, Fe, Mn, Ni, Ag, Pb, V, Zn	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 3030 B, Method 3111 C. Atomic Absorption
	Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Dissolved trace elements by Inductively Coupled Plasma-Atomic Emission Spectrometry. Dissolved: Al, Sb, As, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sr, Fe, Li, Mg, Mn, Mo, Ni, Ag, Pb, K, Se, Si, SIO2, Na, Tl, V, Zn.	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 3030 B, SM 3120 B, ICPOES
		NO2 + NO3 by Calculation	DS 90/2000
		Ammonium, chloride, nitrate, nitrite, orthophosphate, silicate, and sulfate	ISO/DIS_15923-1- 2013 Determination of ions by a discrete analysis system and spectrophotometric detection

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Ground water, Surface Water, wastewater, Drinking water, Water for industrial purposes	Dissolved trace elements by Inductively Coupled Plasma-Atomic Emission Spectrometry. Dissolved: Sn, Bi, P, La, Th, W, U, Ti, Sc, Ge, Ga	I-ENV-LAB-103 Ed00 based Standard Methods for the examination of water and wastewater Ed 23, 2017, Method 3030 B, on EPA 200.7, 1994. ICPOES
	Seawater, Ground water, Surface Water, Wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Dissolved Antimony by Atomic Absorption, Borohydride Reduction. Dissolved: Sb	I-ENV-LAB-107 Ed00 Based on Standard Methods for the examination of water and wastewater 3030 B Ed23, 2017. EPA 7062 1994. Atomic Absorption
		Dissolved trace elements by Inductively Coupled Plasma-Mass Spectrometry. Dissolved: Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Ce, Cs, Co, Cu, Cr, Sc, Sn, Sr, Ga, Ge, Fe, Ho, La, Li, Mg, Mn, Mo, Ni, Ag, Pb, K, Se, Si, SIO2, Na, Tl, Th, Ti, U, V, W, Zn	I-ENV-LAB-511 Ed00 based on Standard Methods for the examination of water and wastewater 3030 B Ed 23, EPA 200.8;1994, EPA 6020B, ISO 17294-2(2016), Standard Methods for the examination of water and wastewater 3125B Ed 23. ICPMS
		Bicarbonate by titration	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 2320 B
		Carbonate by titration	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 2320 B
		Dissolved Mercury by Cold Vapor AAS. Dissolved: Hg	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 3030 B, Standard Methods for the examination of water and wastewater 3112 B. Atomic Absorption with Cold Vapor Generation
		Dissolved Arsenic and Selenium by Hydride Generation AAS. Dissolved: As, Se	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 3030 B, Standard Methods for the examination of water and wastewater 3114 B. Atomic Absorption with Hydride Generation

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, Wastewater, Drinking water, Source of drinking water, Water for industrial purposes (cont'd.)	Total nitrogen by Calculation	Standard Methods for the examination of water and wastewater Ed 24, 2023. Method 4500-N org,4500-NH3 D, 4500-NO3 D ,4500-NO2 B
		Phosphate	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 4500-P C
	Wastewater	Dissolved Iron by Flame AAS. Dissolved: Fe	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 3030 B & NCh 2313/10 Of 96
		Dissolved trace elements by Inductively Coupled Plasma-Atomic Emission Spectrometry. Dissolved: Al, Sb, As, Ba, Be, B, Cd, Ca, Zn, Co, Cu, Cr, Sn, Sr, Fe, Li, Mg, Mn, Mo, Ag, Pb, K, Se, Si, Na, Ni, Tl, V.	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 3030 B & NCh 2313/25 Of 97
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Water for industrial purposes	Anion-Cation Balance by Calculation	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 1030 E
		Odor	Standard Methods for the examination of water and wastewater Ed 24, 2023 Method 2150 B
	Ground water, Surface Water, Drinking water, Source of drinking water, Water for industrial purposes	Langelier Index by Calculation	Standard Methods for the examination of water and wastewater Ed 24, 2023, Standard Methods for the examination of water and wastewater 2330 B
		Ryznar Index by Calculation	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 2330 B
		Reason NO2 – NO3 by Calculation	NCh 409/1 Of2005
		Sodium Adsorption Ratio (RAS) by Calculation	NCh1333.Of87 Point 3.7. Water quality requirements for different uses

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Ground water, Surface Water, Drinking water, Source of drinking water, Water for industrial purposes (cont'd.)	Percentage Sodium by Calculation	NCh1333.Of87 Point 3.8. Water quality requirements for different uses
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes, Dialysis water	Total Hardness	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2340B.
	Dialysis water	Total chlorine by colorimetric	Standard Methods for the examination of water and wastewater Ed 24, 2023, Method 4500-Cl G
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking	Bromide, Phosphate	Standard Methods for the examination of water and wastewater Ed 24, 2023 Method 4110B
		Free Cyanide	EPA 9016 2010 Free Cyanide in Water, Soils and Solid Wastes by Microdiffusion
		True color, Apparent color	Standard Methods for the examination of water and wastewater Ed 24, 2023 2120 B Pt-Co
		Inorganic Carbon	Determination of Total Organic Carbon and Inorganic Carbon Total Standard Methods of Water and Wastewater 5310 B Ed 24, 2023
		Cyanide WAD	Standard Methods for the examination of water and wastewater Ed 24, 2023 Method 4500 CN-I.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Water for industrial purposes	Hexavalent Chromium	I-ENV-LAB-327 Ed00, Based on EPA 218.7
		Ammonium	I-ENV-LAB-249 Ed.00, based on Standard Methods for the Examination of Water & Wastewater, 23rd Edition, 2017, Method 4500 NH3 BD

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Water for industrial purposes (cont'd.)	Fe^{+2}	Standard Methods for the examination of water and wastewater Ed 24, 2023 Method 3500-Fe B
	Seawater, Ground water, Surface Water	Foaming Power	I-ENV-LAB-288 Ed00 based on ISO 696:1975. Surface active agents – Measurement of foaming power – Modified Ross-Miles method.
	Seawater, Ground water, Surface Water, wastewater, Water for industrial purposes	Salinity	SM – APHA / AWWA / WEF 2520. B. Electrical Conductivity Method. Ed 24, 2023.
	Seawater, saline water, brines	Total Trace Elements Cd, Co, Cu, Pb, Ni, U and V - Dissolved Trace Elements Cd, Co, Cu, Pb, Ni, U and V.	NCh3633 Of.2021 Determination of metals by inductively coupled plasma mass spectrometry (ICP-MS) in seawater.
	Drinking water, Source of drinking water, Water for industrial purposes	Foaming power	I-ENV-LAB-288 Ed00 based on ISO 696:1975. Surface active agents – Measurement of foaming power – ModifiedRoss-Miles method.
	Wastewater, Ground water, Surface Water, Drinking water, Source of drinking water, Water for industrial purposes.	Fluoride, chloride, sulfate, bromide, nitrate, nitrite.	I-ENV-LAB-329 Ed. 00 Based on Standard Methods for the examination of water and wastewater, Ed.24 – 2023 Methods 4110B- Ion chromatography with chemical suppression of eluent conductivity, EPA Method 300.0-The deter-mination of inorganic anions in water by ion chromatography, and Application Notes-Thermo Fisher Scientific-Determination of inorganic anions in environmental waters using a hydroxide-selective column.

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Wastewater, Ground water, Surface Water, Drinking water, Source of drinking water, Water for industrial purposes, Sea water	Al, Sb, As, Ba, Be, B, Cd, Ca, Co,Cu, Cr, Sr, Fe, Li, Mg, Mn, Mo, Ni, Ag, Pb, K, Se, Si, SiO2,Na, Tl, V, Zn for Total and Disolved trace elements.	I-ENV-LAB-332 Ed.00 Based Method EPA-3015A and SMEWW 3120B Inductively Coupled Plasma atomic emission spectrometry
		Disolved trace elements: Al, Sb, As, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sr, Fe, Li, Mg, Mn, Mo, Ni, Ag, Pb, K, Se,Si, SiO2, Na, Tl, V, Zn	Standard Methods for the examination of water and wastewater, Ed.24 – 2023 Method 3030B Standard Methods for the examination of water and wastewater, Ed.24 – 2023 Method 3120B Dissolved trace elements by Inductively Coupled Plasmaatomic emission spectrometry:
	Soils, aquatic sediments, lake sediments, marine sediments, sludges and biota.	AOX	I-ENV-LAB-328, Ed.00 Based on ISO 9562:2004. Water quality - Determination of adsorbable organically bound halogens (AOX).
	Soils, Solid Industrial Waste, Solid waste	Cd, Cr, Ag, Pb	Synthetic precipitation leaching procedure, EPA Method 1312. 1994 SM 3111. B. Direct Air-Acetylene Flame Method. Metals by Flame Atomic Absorption Spectrometry 24rd Edtion,.2023.
		Ba	Synthetic precipitation leaching procedure, EPA Method 1312. 1994 SM 3111. D. Direct Nitrous Oxide-Acetylene Flame Method. Metals by Flame Atomic Absorption Spectrometry 24rd Edtion,.2023.
		Hg	Synthetic precipitation leaching procedure, EPA Method 1312. 1994 SM 3112. B. Cold-Vapor Atomic Absorption Spectrometric Method. Metals by Cold-Vapor Atomic Absorption Spectrometry 24rd Edtion,.2023.

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Soils, Solid Industrial Waste, Solid waste (cont'd.)	As, Se	Synthetic precipitation leaching procedure, EPA Method 1312. 1994 SM 3114. B. Manual Hydride Generation/Atomic Absorption Spectrometric Method. Arsenic and Selenium by Hydride Generation/Atomic Absorption Spectrometry 24rd Edtion,.2023.
		Corrosiveness	I-ENV LAB-311 Ed00, based on EPA 1110A Rev01, 2004
		Flammability	EPA 1010 B Pensky martens
	Soils, aquatic sediments, lake sediments, marine sediments, sludges, solid industrial waste, solid waste	Total Hg	EPA 7473 Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry. Rev0. 2007
	Soils, Sludges, Aquatic Sediments, Lake Sediment, Marine Sediments	Removable Metals by ICP-MS: Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Ce, Cs, Co, Cu, Cr, Sc, Sn, Sr, Ga, Ge, Fe, Ho, La, Li, Mg, Mn, Mo, Ni, Ag, P, Pb, K, S, Se, Si, SIO2, Na, Tl, Th, Ti, U, V, W, Zn	I-ENV-LAB-517 Ed00 Based on EPA 3051 (1994) Digestion, EPA 6020 B (2014), ISO 17294-2 (2016) Inductively coupled plasma emission spectroscopy (ICP-MS)
		Removable Metals by Inductively Coupled Plasma-Atomic Emission Spectrometry Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Ce, Cs, Co, Cu, Cr, Sc, Sn, Sr, Ga, Ge, Fe, Ho, La, Li, Mg, Mn, Mo, Ni, Ag, P, Pb, K, S, Se, Si, SIO2, Na, Tl, Th, Ti, U, V, W, Zn	I-ENV-LAB-518 Ed00. Based on EPA Methods 3050B Digestion. Based on EPA Methods 6010B and Standard Methods for the examination of water and wastewater Ed 23, 2017. Method 3120B Inductively coupled plasma emission spectroscopy (ICP-OES)
		Electrical conductivity by Potentiometry	I-ENV-LAB-270 Ed 00 Based on Recommended method of analysis for soils in Chile, Instituto de Investigaciones Agropecuarias INIA 2006
		pH by Potentiometry	I-ENV-LAB-271 Ed 00 Based on Based on Recommended method of analysis for soils in Chile, Instituto de Investigaciones Agropecuarias INIA 2006

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Drinking water, Source of drinking water	Total As	ME-12-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Nephelometric method.
	Wastewater	Total As	NCh2313/9:1996 Wastewater - Methods of Analysis - Part 9: Determination of Arsenic - Atomic Absorption Spectrophotometry Method with Continuous Hydride Generation
	Drinking water, Source of drinking water	As, Zn, Cu, Cr, Cd, Mg, Mn, Fe, Pb, Se	I-ENV-LAB-510 Ed00 Based on EPA 200.8, EPA 6020B, ISO 17294-2 (2016)
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Ag, Al, As, Ba, Be, B, Cd, Ca, Fe, Li, Zn, Co, Cu, Cr, Sr, Sb, Mg, Mn, Mo, Ni, Pb, K, Se, SiO2, Na, Tl, V	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 3030 E Digestion Method 3120 B ICP-OES
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Ag, Al, Sb, As, Ba, Be, Bi, B, Ca, Ce, Cs, Zn, Co, Cu, Cr, Cd, Sc, Sn, Sr, P, Ga, Ge, Fe, Ho, La, Li, Mg, Mn, Mo, Ni, Pb, K, Se, Si, Na, Tl, Ti, Th, U, V, W	I-ENV-LAB-511 Ed00 Based on EPA 200.8: 1994 Rev 5.4, EPA 6020B, ISO 17294-2 (2016), SM 3125B ICP-MS
	Wastewater	Total Ag, Al, Sb, As, Ba, Be, B, Cd, Ca, Zn, Co, Cu, Cr, Sn, Sr, Fe, Li, Mg, Mn, Mo, Ni, Pb, K, Se, Si, Na, Tl, V	NCh2313/25:1997 Wastewater - Methods of Analysis - Part 25: Determination of Metals by Plasma Emission Spectroscopy - Inductively Coupled Plasma (I.C.P.) Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total As, Se	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 3114 B. Manual Hydride Generation / Atomic Absorption spectrometric method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Sr, Mg	Standard Methods for the examination of water and wastewater Ed 24, 2023. Method 3030 E Digestion. I-ENV-LAB-101 Ed 00 Based on Standard Methods for the examination of water and wastewater Ed 23, 2017

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes (cont'd.)	Total Sr, Mg (cont'd.)	Method 3111 D Flame Atomic Absorption
	Ground water, Surface Water, wastewater, Water for industrial purposes	Total As	Standard Methods for the examination of water and wastewater Ed 24, 2023. Method 3030 E Digestion. I-ENV-LAB-101 Ed 00 Based on Standard Methods for the examination of water and wastewater Ed 23, 2017 Method 3111 D Flame Atomic Absorption
	Dialysis Water	Total Ag, As, Ba, Be, Zn, Cu, Cr, Ag, Pb, K, Tl	I-ENV-LAB-509 Ed00 Based on EPA 200.8: 1994 Rev 5.4, EPA 6020B, ISO 17294-2 (2016)ICP- MS
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Al, Ba, Be, Ca, Mo, Si, V	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 3030 E Digestion. Method 3111 D Direct Nitrous Oxide-Acetylene Flame Method
	Wastewater	Total Cd, Zn, Cu, Cr, Fe, Mn, Ni, Pb	NCh2313/10:2020 Wastewater - Methods of Analysis - Part 10: Determination of Heavy Metals - Flame Atomic Absorption Spectrophotometry Method In effect
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Ag, Cd, Ca, Zn, Co, Cu, Cr, Fe, Sn, Li, Mn, Mg, Pb, Sr, Ni, K, Na, Tl	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023 Method 3030 E Digestion. Method 3111 B Atomic Absorption
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Ag, Cd, Zn, Co, Cu, Cr VI, Cr, Fe, Mn, Ni, Pb	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023 Method 3111 C Atomic Absorption

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Nitrate, Nitrite, Fluoride, Chloride, Sulphate	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4110 B Ion Chromatography with Chemical Suppression of Eluent Conductivity
	Wastewater	Oils & Greases	NCh2313/6:2015 Wastewater - Methods of Analysis - Part 6: Determination of Oils and Greases
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Oils & Greases	Standard Methods for the examination of water and wastewater Ed 24, 2023. Method 5520 B Gravimetric Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Oils & Greases	I-ENV-LAB-282 Ed00 Based on Standard Methods of Examination of Water and Wastewater Ed. 23, 2017. Method 5520 C Infrared Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Acidity	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Titration Method 2310 B
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Alkalinity	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2320B Titration Method
	Drinking water, Source of drinking water	Ammonia	ME-27-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water. Specific electrode method.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Sb	EPA 7062 (1994) Atomic Absorption with Hydride Generation

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	AOX	ISO 9562 Edition15.09.2004. Water quality - Determination of adsorbable organically bound halogens (AOX). Microcoulometry.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Bi	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 3030E Nitric Acid Digestion I-ENV-LAB- 501 Based on Standard Methods for the Examination of Water and Wastewater Ed 23, 2017. Method 3120 B ICP-OES
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total B	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-B C Carmine Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Bromate, Chlorate	I-ENV-LAB-320 Ed00 Based on EPA 300.1-1 Determination of inorganic anions in drinking water by ion chromatography
	Drinking water, Source of drinking water	Total Cd	ME-13-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Absorption Spectrophotometry Method with direct aspiration.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Inorganic Carbon, Total Carbon, Total Organic Carbon	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 5310B High-Temperature Combustion Method
	Drinking water, Source of drinking water	Cyanide	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-CN C Distillation. Method 4500-CN F Cyanide-Ion selective electrode

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, Wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Cyanide	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-CN C Distillation. Method 4500-CN F Cyanide-Ion selective electrode
		Free cyanide	Standard Methods for the examination of water and wastewater Ed 24, 2023. 4500 CN- B Sample Treatment. Method 4500 CN-F Specific Electrode
		Total cyanide	Standard Methods for the examination of water and wastewater Ed 24, 2023. Method 4500-CN- C Distillation Method 4500-CN- E UV/VIS
	Wastewater	Total Cyanide	NCh2313/14:1997 Wastewater - Methods of Analysis - Part 14: Determination of Total Cyanide
	Drinking water, Source of drinking water	Total Cyanide	ME-14-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method UV-VIS molecular absorption spectrophotometry
		Total Zn	ME-11-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: Atomic absorption spectrophotometry with direct aspiration.
	Dialysis Water	Chloramine	Standards Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-Cl G DPD Colorimetric Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Chlorine (Dichloramine, Monochloramine)	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-Cl G DPD Colorimetric Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Drinking water, Source of drinking water	Free Chlorine (Residual Free Chlorine)	ME-33-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Ferrous Titrimetric DPD Method (FAS)
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Residual Free Chlorine (Free Chlorine)	Standard Methods for the examination of water and wastewater Ed 24, 2023. Method 4500-Cl G DPD Colorimetric Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Chlorophyll	Standard Methods for the Examination of Water and Wastewater. Ed 24, 2023. Method 10200H
	Drinking water, Source of drinking water	Chloride	ME-28-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Argentometric Method.
	Wastewater	Chloride	NCh2313/32:1999 Wastewater - Methods of Analysis - Part 32: Chloride Determination - Mohr's Argentometric Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Chloride	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500 Cl- B Argentometric Method
	Drinking water, Source of drinking water	Cu	ME-04-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: Atomic absorption spectrophotometry with direct aspiration.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Color	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2120 B Visual Comparison Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Drinking water, Source of drinking water	Color (True Color)	ME-24-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Pt-Co Method.
	Drinking water, Source of drinking water	Phenolic compounds	ME-32-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: UV-VIS molecular absorption spectrophotometry.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Conductivity	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2510 B Laboratory Method
	Wastewater	Hexavalent chromium	NCh2313/11:1996 Wastewater - Methods of Analysis - Part 11: Determination of Hexavalent Chromium - Atomic Absorption Spectrophotometry Method
	Drinking water, Source of drinking water	Cr	ME-05-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: Atomic absorption spectrophotometry with direct aspiration.
	Wastewater	5-Day BOD	NCh2313/5:2005 Wastewater - Methods of Analysis - Part 5: Determination of Biochemical Oxygen Demand (BOD5)
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	5-Day BOD	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 5210 B 5-Day BOD Test
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	5-Day BOD	I-ENV-LAB-285 Ed00 Based on ISO 17289:2014, NCh 2313/5 Of.2005 Optical sensor method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Carbon dioxide	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-CO2 B Nomographic
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Carbon dioxide	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-CO2 D Calculation
	Wastewater	COD	NCh2313/24:1997 Wastewater - Methods of Analysis - Part 24: Determination of Chemical Oxygen Demand (COD)
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	COD	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 5220 D Colorimetric Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Hardness	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 3030 E Digestion. Method 3111 B Atomic Absorption. Method 2340 B Hardness by Calculation
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Sn total	EPA 200.7, 1994 Determination of metals and trace elements in water and wastes water by Inductively Coupled Plasma-Atomic Emission Spectrometry
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Phenols (phenolic compounds, phenol index)	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 5530 B Cleanup Procedure. Method 5530 C Chloroform Extraction Method
	Dialysis Water	Fluorine	Standards Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-F C Ion-Selective Electrode Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Drinking water, Source of drinking water	Fluoride	ME-06-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Specific electrode method.
	Wastewater	Fluoride	NCh2313/33:1999 Wastewater - Methods of Analysis - Part 33: Fluoride Determination - Potentiometric Method After Distillation
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Fluoride	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-F B Preliminary Distillation Step. Method 4500-F C Ion-Selective Electrode Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Phosphate	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-P E Ascorbic Acid Method
	Seawater, Ground water, Surface Water, Wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total phosphorus	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-P B Sample Preparation. Method 4500-P E Ascorbic Acid Method
		Total Phosphorus	Standard Methods for the examination of water and wastewater Ed 24, 2023. Method 4500-P B Digestion Method 4500-P C UV/VIS
	Wastewater	Total phosphorus	NCh2313/15: 2009 Wastewater - Methods of Analysis - Part 15: Determination of Total Phosphorus
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Hydrocarbons (Fixed hydrocarbons)	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 5520F Hydrocarbons

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Volatile Hydrocarbons (C5 to C12)	I-ENV-LAB-304 Ed00 Based on NCh2313/7 Of. 2021 Part A: Head-Space Gas Chromatography Method
	Wastewater	Total hydrocarbons	NCh2313/7:2021 Determination of total hydrocarbons
	Wastewater	Total hydrocarbons	NCh2313/7:2021 Part B: Partition-Infrared Method. Determination of total hydrocarbons.
	Wastewater	Fixed hydrocarbons	NCh2313/7:2021 Part A. Determination of total hydrocarbons.
	Wastewater	Volatile Hydrocarbons	NCh2313/7:2021 Part A. Determination of total hydrocarbons.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Hydroxides	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2320 B Titration Method
	Drinking water, Source of drinking water	Total Fe	ME-07-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: Atomic absorption spectrophotometry with direct aspiration.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Fe	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 3030 E Nitric Acid Digestion. Method 3111 B Atomic Absorption.
	Wastewater	Phenol Index (Phenols, phenolic compounds)	NCh2313/19:2001 Wastewater - Methods of Analysis - Part 19: Determination of Phenol Index - Spectrometric Method of 4-Aminoantipyrin After Distillation

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Phenol Index (Phenols, phenolic compounds)	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023.Method 5530 C Chloroform Extraction Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Permanganate Index (Oxidability)	UNE-EN-ISO 8467 Dic 1995. Water quality. Determination of permanganate index
	Drinking water, Source of drinking water	Total Mg	ME-09-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: Atomic absorption spectrophotometry with direct aspiration.
	Drinking water, Source of drinking water	Total Mn	ME-08-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: Atomic absorption spectrophotometry with direct aspiration.
	Drinking water, Source of drinking water	Total Hg	ME-15-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Absorption Spectrophotometry Method with atomic vapor generation of Hg
	Wastewater	Total Hg	NCh2313/12:1996 Wastewater - Methods of Analysis - Part 12: Mercury Determination - Atomic Absorption Spectrophotometry Method with Cold Vapor Generation In effect
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Hg	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 3112 B Cold-Vapor Atomic Absorption Spectrometric Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Wastewater	Mo total	NCh2313/13:1998 Wastewater - Methods of Analysis - Part 13: Determination of Molybdenum by Flame Atomic Absorption Spectrophotometry
	Drinking water, Source of drinking water	Monochloramine	ME-23-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Titrimetric method of DPD with FAS.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Nitrate	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-NO3 D Nitrate Electrode Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Nitrate	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-NO3 B Ultraviolet Spectrophotometric Screening Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Nitrite	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-NO2 B Colorimetric Method
	Wastewater	Ammoniacal nitrogen (ammonia)	NCh2313/16:2010 Wastewater - Methods of Analysis - Part 16: Determination of Ammoniacal Nitrogen - Potentiometric Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Ammoniacal nitrogen (ammonia)	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-NH3 B Preliminary Distillation Step. Method 4500-NH3 D Ammonia-Selective Electrode Method
	Wastewater	Total Nitrogen Kjeldahl	NCh2313/28:2009 Wastewater - Methods of Analysis - Part 28: Determination of Kjeldahl Nitrogen - Potentiometric Method with Pre-Digestion

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Nitrogen Kjeldahl	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-Norg B Macro-Kjeldahl Method
	Drinking water, Source of drinking water	Nitrogen-Nitrate	ME-16-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Specific electrode method
		Nitrogen-Nitrite	ME-17-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: UV-VIS molecular absorption spectrophotometry.
	Drinking water, Source of drinking water	Odor	ME-25-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Organoleptic Method.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Dissolved Oxygen	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-O G Membrane-Electrode Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Dissolved Oxygen	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-O C Azide Modification
	Drinking water, Source of drinking water	pH	ME-29-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Electrometric method.
	Wastewater	pH	NCh2313/1:2021 Wastewater - Methods of Analysis - Part 1: pH Determination
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	pH	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-H+ B Electrometric Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Wastewater	Foaming power	NCh2313/21:2010 Wastewater - Methods of Analysis - Part 21: Determination of Foaming Power
	Drinking water, Source of drinking water	Pb	ME-18-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water.
	Drinking water, Source of drinking water	Flavor	ME-26-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Organoleptic Method.
	Drinking water, Source of drinking water	Total Se	ME-10-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Method: Atomic absorption spectrophotometry with hydride generation.
	Wastewater	Total Se	NCh2313/30:1990 Wastewater - Methods of Analysis - Part 30: Determination of Selenium - Method of Atomic Absorption Spectrophotometry by Continuous Hydride Generation
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Silica	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-SIO2 C Molybdosilicate Method
	Drinking water, Source of drinking water	Total Dissolved Solids	ME-31-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Gravimetric method.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Dissolved Solids	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2540 C Total Dissolved Solids Dried at 180°C
	Wastewater	Settleable solids	NCh2313/4:1995 Wastewater - Methods of Analysis - Part 4: Determination of Settleable Solids - Volumetric Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Settleable solids	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2540 F settleable solids
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Suspended Solids	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2540 D Total Suspended Solids Dried at 103–105°C
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Fixed and Volatile Suspended Solids	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2540 D Total Suspended Solids Dried at 103–105°C. Method 2540 E Fixed and Volatile Solids Ignited at 550°C
	Wastewater	Total Suspended Solids	NCh2313/3:1995 Wastewater - Methods of Analysis - Part 3: Determination of Total Suspended Solids Dried at 103°C - 105°C
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Solids	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2540 B Total Solids Dried at 103–105°C
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Fixed and Volatile Solids	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2540 B Total Solids Dried at 103–105°C. Method 2540 E Fixed and Volatile Solids Ignited at 550°C
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Volatile and Fixed Solids	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2540 E Fixed and Volatile Solids Ignited at 550°C

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Drinking water, Source of drinking water	Sulfates	ME-30-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Gravimetric method with residue drying.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Sulfates	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-SO4-2 C Gravimetric Method with Ignition of Residue
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Sulfates	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-SO4-2 D Gravimetric Method with Drying of Residue
	Wastewater	Dissolved sulfates	NCh2313/18:1997 Wastewater - Methods of Analysis - Part 18: Determination of Dissolved Sulfate by Residue Calcination
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Total Sulfate	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 4500-S^{2-} G Ion-Selective Electrode Method
	Wastewater	Total Sulfide	NCh2313/17:1997 Wastewater - Methods of Analysis - Part 17: Determination of Total Sulfide
	Wastewater	Anionic Surfactants (SAAM)	NCh2313/27:1998 Wastewater - Methods of Analysis - Part 27: Determination of Anionic Surfactants - Method for Methylene Blue Active Substances (SAAM)
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Anionic Surfactants (SAAM)	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 5540B Surfactant Separation by Sublation. Method 5540 C Anionic Surfactants as MBAS
	Drinking water, Source of drinking water	Turbidity	ME-03-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Nephelometric method.

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Seawater, Ground water, Surface Water, Wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Turbidity	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 2130 B Nephelometric Method
Environmental Organic	Ground water, Surface Water, Drinking water, Source of drinking water, Water for industrial purposes	DDD+DDT+DDE by Calculation	ME-20-2024 Gas Chromatography with electronic capture detector
		Reason Trihalomethanes by Calculation	NCh 409/1 Of2005
	Seawater, Ground water, Surface Water, Drinking water, Source of drinking water, Water for industrial purposes, Wastewater	Trihalomethanes by Calculation	Standard Methods for the examination of water and wastewater Ed 24, 2023 Method 6232
		Total Hydrocarbons by Calculation	Standard Methods for the examination of water and wastewater Ed 24, 2023 Method 5520F, I-ENV-LAB-304 Ed 00 Based on NCh2313/7.Of97
	Seawater, Ground water, Surface Water, Drinking water, Source of drinking water, Water for industrial purposes, Wastewater	Total Hg	EPA 7473. Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry. Rev0. 2007.
		Volatile hydrocarbons (C5 to C12)	I-ENV-LAB-304 Ed.00 Based on NCh2313/7. Of2021 Head Space FID-GC
	Seawater, Ground water, Surface Water, Drinking water, Source of drinking water, Water for industrial purposes, Wastewater, Brine	Relative density	ASTM D1429-08 Standard Test Methods for Specific Gravity of Water and Brine
	Wastewater	Trihalomethanes by Calculation	NCh2313/20 Of98
	Soils, Sludges, Aquatic Sediments, Lake Sediment, Marine Sediments.	Total Hydrocarbons by Calculation	I-ENV-LAB-231 Ed 00 Based on EPA 3540C NCh2313/7.Of97, I-ENV-LAB-310 Rev00 Based on EPA 5021, EPA 8015

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Organic (cont'd.)	Soils, Solid Industrial Waste, Solid waste	Benzene, Carbon Tetrachloride, Chlorobenzene, Chloroform, 1,2-Dichlorobenzene 1,4-Dichlorobenzene, 1,2-dichloroethane, 1,1-Dichloroethylene, Methyl Ethyl Ketone, Tetrachlorethylene, Trichlorethylene, Vinyl Chloride, Pyridine	Method 1311. Toxicity Characteristic Leaching Procedure. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium (SW-846). 1992. Test methods for Evaluation solid Waste, US EPA method 8260B, Revision 2, 1996, Quantification.
		Cresol, o-Cresol, m-Cresol, p-Cresol, 2,4-dinitrotoluene, Hexachlorobenzene, Hechlorobutadiene, Hexachloroethane, Nitrobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol	Method 1311. Toxicity Characteristic Leaching Procedure. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium (SW-846). 1992.Test methods for Evaluation solid Waste Physically/Chemicals Methods. EPA 8270D, Revision 5, 2014, Quantification.
		Chlordane, endrin, heptachlor, heptachlor epoxide, Lindane (BHC range), Methoxychlor, Toxaphene	Method 1311. Toxicity Characteristic Leaching Procedure. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium (SW-846). 1992. SM 6630-B, 24rd Edtion,.2023. Quantification
		2,4-D, 2,4,5 TP (Silvex), Pentachlorophenol	Method 1311. Toxicity Characteristic Leaching Procedure. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium (SW-846). 1992. I-ENV-LAB-326 Ed 00, based on Standard Method 6640-B, Ed 23, 2017, Quantification

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Organic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)pyrilene, Benzo(j)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Phenanthrene, Fluoranthene, Fluorene, Indene(1-2-3-c,d)pyrene, Naphthalene, Pyrene	I-ENV-LAB-301 Ed00 Based on Standard Methods for the examination of water and wastewater Ed 23, 2017. Method 6410B, 6440C Liquid-Liquid Extraction Gas Chromatographic/Mass Spectrometric Method
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Acenaphthene, Anthracene, Acenaphthylene, Benzo(g,h,i)perylene, Benzo (k)fluoranthene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b)fluoranthene, Benzo (j) fluoranthene, Chrysene, Dibenzo (a,h)anthracene, Phenanthrene, Fluoranthene, Fluorene, Indene (1-2-3-c,d) pyrene, Naphthalene, PAHs, Pyrene	I-CTS-LAB-347 Ed00 Based on Banjoo, D.R., Nelson, P.K. Improved ultrasonic extraction procedure for the determination of polycyclic aromatic hydrocarbons in sediments. Journal of Chromatography A. 1066 (2005) 9-18. Gas Chromatographic/Mass Spectometric Methods
	Drinking water, Source of drinking water	Bromodichloromethane, Dibromochloromethane, Tetrachloroethene (Tetrachloroethylene), Tribromomethane (Bromoform), Trichloromethane	ME-22-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Gas chromatography method with Electronic capture detector.
	Wastewater	Bromodichloromethane, Dibromochloromethane, Tetrachloroethene (Tetrachloroethylene), Tribromomethane (Bromoform), Trichloromethane	NCh2313/20:1998 Wastewater - Methods of Analysis - Part 20: Determination of Trihalomethanes (THM) - Gas Chromatography Method with Electron Capture Detector (ECD)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Organic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Bromodichloromethane, Dibromochloromethane, Tetrachloroethene (Tetrachlorethylene), Tribromomethane (Bromoform), Trichloroethene, Trichloromethane	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 6232 B Cromatografía Gaseosa con detector ECD (CG-ECD)
	Seawater, Ground Water & Surface Water	TPHs linear between C11 to C28 n-undecane C11, n-Dodecane C12, n-Tridecane C13, n-Tetradecane C14, n-Pentadecane C15, n-Hexadecane C16, n-Heptadecane C17, n-Octadecane C18, n-Nonadecane C19, n-Eicosane C20, n-Heneicosane C21, n-Docosane C22, n-Tricosane C23, n-Tetracosane C24, n-Pentacosane C25, n-Hexacosane C26, n-Heptacosane C27, n-Octacosane C28	I-CTS-LAB-349 Ed00 Based on Ozcan, S., Tor, A., Aydin, M., Determination of hydrocarbons in waters by ultrasound-assisted emulsification-microextraction and gas chromatography- mass spectrometry. Analytica Chimica Acta,(2010) 665, 2, 193-199.
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	1,2 Dichloroethane	EPA 5021 A 2014 Gas Chromatographic / Mass Spectrometric Method
	Drinking water, Source of drinking water	2,4 - D, Pentachlorophenol	ME-21-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Gas Chromatography Method with Electron Capture Detector
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	2,4 - D (2,4 Dichlorophenoxyacetic Acid), 2,4,5 - T (2,4,5 Trichlorophenoxyacetic Acid) 2,4,5-TP (Silvex)	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 6640B Gas Chromatographic /EC D

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Organic (cont'd.)	Drinking water, Source of drinking water	Benzene, Toluene, Xylenes (o, m, p)	ME-19-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Gas chromatography method with head space.
	Wastewater	Benzene, Ethylbenzene, Toluene, Xylenes (o, m, p)	NCh2313/31:1999 Wastewater - Methods of Analysis - Part 31: Determination of Benzene and Some Derivatives - Gas Chromatography Method Using Head-Space
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Cis chlordane, Trans Chlordane, DDT, DDD, DDE, DDT+DDD+DDE, Endrin, Heptachlor Epoxide, Heptachlor, Lindane, Methoxychlor	I-ENV-LAB-306 Ed00 Based on EPA 8081A, Standard Methods for the examination of water and wastewater Ed 23, 2017. Method 6630B Gas Chromatography with ECD detector (CGECD)
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	4,4 DDT, 4,4 DDD, 4,4 DDE, DDT+DDD+DDE, Lindane, Methoxychlor	I-ENV-LAB-331 Ed.00 based on AOAC Official Method 2007.01
	Drinking water, Source of drinking water	DDD, DDE, DDT, DDT+DDD+DDE, Lindane, Methoxychlor	ME-20-2024 Superintendence of Sanitary Services. Manual of Test Methods for Drinking Water. Gas Chromatography Method with Electron Capture Detector
	Wastewater	Pentachlorophenol	NCh2313/29:1999 Wastewater - Methods of Analysis - Part 29: Determination of Pentachlorophenol and Some Organochlorine Herbicides - Gas Chromatography with Electron Capture Detector (ECD) Method In effect
	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Pentachlorophenol	Standard Methods for the Examination of Water and Wastewater Ed 24, 2023. Method 6640 B Micro Liquid–Liquid Extraction Gas Chromatographic Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Organic (cont'd.)	Seawater, Ground water, Surface Water, wastewater, Drinking water, Source of drinking water, Water for industrial purposes	Benzene, Ethylbenzene, Toluene, Xylenes (o, m, p)	ISO 11423-1:1997 Water quality - Determination of benzene and some derivatives. Part 1: Head-space gas chromatographic method.
Hydrobiology-Inorganic	Hydrobiological products	Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Zn, Co, Cu, Cr, Sn, Sr, P, Ti, Fe, Mn, Mg, Mo, Ni, Ag, Pb, K, Se, Na, Tl, U, V	I-ENV-LAB-516, Ed 00. Based EPA 6020 B, ISO 17294: 2016 and AOAC 2013.6
		Hg	I-ENV-LAB-124, Ed 00. Based on Standard Methods for the examination of water and wastewater, Method 3112 B, 23rd Edtion,2017 Cold-Vapor Atomic Absorption and Atomic Spectrometry MHS 15 Mercury Hydride System
	Food, oil and flour fish	As	I-CTS-LAB-604 Ed00 Based on CLG-ARS.05 Determination of Arsenic by atomic Absorption Spectroscopy – United States Department of agriculture food safety and Inspection Service
		Cd, Cr	I-CTS-LAB-603 Ed00 Based on AOAC 968.08 2005
		Hg	I-CTS-LAB-601 Ed00 Based on AOAC 977.15 2005
		Pb	I-CTS-LAB-608 Ed00 Based on AOAC 972.23 2005
Hydrobiology-Organic	BIOTA (Hydrobiological products)	PAHs: Acenaphthene Acenaphthylene Anthracene Benzo (g, h, i) perylene Benzo (k) fluoranthene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Chriseno Dibenzo (a, h) anthracene Phenanthrene Fluorene Indene (1,2,3-c, d) pyrene Naphthalene Pyrene Fluoranthene	I-CTS-LAB-347 Ed 00 Determination of PAHs In Water, Soil, Sediment, and Biota Samples, GC-MS/MS and GC-MS

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Clinical- Animal	Urine	Arsenic	I-ENV-LAB-122 Ed01. Based on: ME-515.01-001 ISP Chile- Determination of Arsenic in Urine. AAS hydride generation
	Blood	Lead	I-ENV-LAB-519 ED00, Based in MTA/MB-011/R92 Determination of lead in blood