



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ALGORITMOS Y MEDICIONES AMBIENTALES SPA  
Seminari 180  
Santiago, CHILE  
Viviana Zúñiga Mosqueira Phone: (56 2) 23616618

CHEMICAL

Valid To: March 31, 2023

Certificate Number: 4235.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this organization to perform recognized methods using the following testing technologies and, in the analyte, categories identified below:

**Wastewater:**

<b><u>Parameter</u></b>	<b><u>Method</u></b>
Arsenic	NCh 2313/9.1996
Cadmium	NCh 2313/10.2020
Chloride	NCh 2313/32.1999
Chromium	NCh 2313/10.2020
Copper	NCh 2313/10.2020
Iron	NCh 2313/10.2020
Lead	NCh 2313/10.2020
Manganese	NCh 2313/10.2020
Mercury	NCh 2313/12.1996
Molybdenum	NCh 2313/13.1998
Nickel	NCh 2313/10.2020
pH	NCh 2313/1.2021
Selenium	NCh 2313/30.1999
Settable Solids	NCh 2313/4.1995
Total Suspended Solids	NCh 2313/3.1995
Zinc	NCh 2313/10.2020
Nitrogen (Ammonia)	NCh 2313/16.2010
Biochemical Oxygen Demand, 5 days (BOD 5)	NCh2313/5. 2005
Phenols Index	NCh 2313/19.2001
Total Kjeldahl Nitrogen	NCh 2313/28. 2009
Chemical Oxygen Demand (COD)	MLAB-A-38 Rev.0 Method based on NCh 2313/24. 1997
Hexavalent Chromium	NCh 2313/ 11. Of 1996
Fats and Oils	NCh 2313/6. 2015
Foaming Power	NCh 2313/21. 2010
Fluoride	NCh 2313/ 33. Of 1999 SM 4500-F C -2017

<b>Parameter</b>	<b>Method</b>
Total Sulfide	NCh 2313/17. 1997
Fixed hydrocarbons	NCh 2313/7. 2021
Total hydrocarbons	NCh 2313/7.2021
Volatile hydrocarbons	NCh 2313/7. 2021
Dissolved Sulfate (SO4)	NCh 2313 /18. 1997
Dibromochloromethane	NCh 2313/20. 1998
Tetrachloroethene	
Bromodichloromethane	
Trichloromethane	
Tribromomethane	NCh 2313/31. 1999
Benzene	
Toluene	
O-Xylene	
m, p-Xylene	
Xylene	NCh 2313/29. 1999
2,4 Dichlorophenoxyacetic acid (2,4D)	
Pentachlorophenol	
Total Cyanide	NCh 2313/14. 1997
Anionic Surfactants as MBAS.	NCh 2313/27. 1998
Dissolved Aluminum	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Antimony	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Arsenic	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Barium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Beryllium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Bismuth	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Boron	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Cadmium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Calcium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Chromium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Cobalt	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Cooper	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Iron	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Lead	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Lithium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Magnesium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Manganese	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Molybdenum	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Nickel	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Phosphorous	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Potassium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Selenium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Silicon	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Silver	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Sodium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Strontium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Sulfur	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Thallium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)

<b>Parameter</b>	<b>Method</b>
Dissolved Tin	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Titanium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Tungsten	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Vanadium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Zinc	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Dissolved Zirconium	NCh 2313/25.1997/SM 3030B-2017 (Filtration)
Total Aluminum	NCh 2313/25.1997
Total Antimony	NCh 2313/25.1997
Total Arsenic	NCh 2313/25.1997
Total Barium	NCh 2313/25.1997
Total Beryllium	NCh 2313/25.1997
Total Bismuth	NCh 2313/25.1997
Total Boron	NCh 2313/25.1997
Total Cadmium	NCh 2313/25.1997
Total Calcium	NCh 2313/25.1997
Total Chromium	NCh 2313/25.1997
Total Cobalt	NCh 2313/25.1997
Total Copper	NCh 2313/25.1997
Total Iron	NCh 2313/25.1997
Total Lead	NCh 2313/25.1997
Total Lithium	NCh 2313/25.1997
Total Magnesium	NCh 2313/25.1997
Total Manganese	NCh 2313/25.1997
Total Molybdenum	NCh 2313/25.1997
Total Nickel	NCh 2313/25.1997
Total Phosphorous	NCh 2313/25.1997
Total Potassium	NCh 2313/25.1997
Total Selenium	NCh 2313/25.1997
Total Silicon	NCh 2313/25.1997
Total Silver	NCh 2313/25.1997
Total Sodium	NCh 2313/25.1997
Total Strontium	NCh 2313/25.1997
Total Sulfur	NCh 2313/25.1997
Total Thallium	NCh 2313/25.1997
Total Tin	NCh 2313/25.1997
Total Titanium	NCh 2313/25.1997
Total Tungsten	NCh 2313/25.1997
Total Vanadium	NCh 2313/25.1997
Total Zinc	NCh 2313/25.1997
Total Zirconium	NCh 2313/25.1997

**Superficial, Underground, Waste water, and Drinking Water:**

<b><u>Parameter</u></b>	<b><u>Method</u></b>
Acidity	SM 2310B-2017
Alkalinity, Total	SM 2320B-2017
Aluminum	SM 3111D-2017
Arsenic	SM 3114B-2017
Barium	SM 3111D-2017
Beryllium	SM 3111D-2017
Cadmium	SM 3111B-2017
Calcium	SM 3111B-2017
Chloride	SM 4500-C1 B-2017
Chromium	SM 3111B-2017
Cobalt	SM 3111B-2017
Color	SM 2120B-2017
Conductivity	SM 2510B-2017
Copper	SM 3111B-2017
Dissolved solids, Total	SM 2540C-2017
Fluoride	SM 4500-F C -2017
Hydroxides	SM 2320B-2017
Iron	SM 3111B-2017
Lead	SM 3111B-2017
Lithium	SM 3111B-2017
Magnesium	SM 3111B-2017
Manganese	SM 3111B-2017
Mercury	SM 3112B-2017
Molybdenum	SM 3111D-2017
NA % (Sodium Percentage)	NCh 1333-1978 Modification 1987
Nickel	SM 3111B-2017
Nitrate	SM 4500-NO3 B-2017
Nitrite	SM 4500-NO2 B-2017
Odor	SM 2150B-2017
pH	SM 4500-H+ B-2017
Potassium	SM 3111B-2017
RAS (Sodium Adsorption Ratio)	NCh 1333-1978 Modification 1987
Selenium	SM 3114B-2017
Settleable Solids	SM 2540F-2017
Silver	SM 3111B-2017
Sodium	SM 3111B-2017
Sulfate	SM 4500-SO4 D-2017
Suspended Solids, Total	SM 2540D-2017
Tin	SM 3111B-2017
Total Hardness	SM 2340B-2017
Total Solids	SM 2540B-2017
Turbidity	SM 2130B-2017
Vanadium	SM 3111D-2017
Zinc	SM 3111B-2017

<b>Parameter</b>	<b>Method</b>
Benzene	ISO 11423- Part1: 1997
Toluene	
O-Xylene	
m,p-Xylene	
Xylene	
Ethylbenzene	
Dissolved Aluminum	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Antimony	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Arsenic	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Barium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Beryllium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Bismuth	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Boron	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Cadmium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Calcium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Chromium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Cobalt	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Cooper	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Iron	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Lead	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Lithium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Magnesium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Manganese	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Molybdenum	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Nickel	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Phosphorous	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Potassium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Selenium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Silicon	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Silver	SM 3120B-2017 /SM 3030B-2017 (Filtration)
Dissolved Sodium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Strontium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Sulfur	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Thallium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Tin	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Titanium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Tungsten	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Vanadium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Zinc	SM 3120B-2017/SM 3030B-2017 (Filtration)
Dissolved Zirconium	SM 3120B-2017/SM 3030B-2017 (Filtration)
Total Aluminum	SM 3120B-2017
Total Antimony	SM 3120B-2017
Total Arsenic	SM 3120B-2017
Total Barium	SM 3120B-2017
Total Beryllium	SM 3120B-2017
Total Bismuth	SM 3120B-2017
Total Boron	SM 3120B-2017
Total Cadmium	SM 3120B-2017

<b><u>Parameter</u></b>	<b><u>Method</u></b>
Total Calcium	SM 3120B-2017
Total Chromium	SM 3120B-2017
Total Cobalt	SM 3120B-2017
Total Cooper	SM 3120B-2017
Total Iron	SM 3120B-2017
Total Lead	SM 3120B-2017
Total Lithium	SM 3120B-2017
Total Magnesium	SM 3120B-2017
Total Manganese	SM 3120B-2017
Total Molybdenum	SM 3120B-2017
Total Nickel	SM 3120B-2017
Total Phosphorous	SM 3120B-2017
Total Potassium	SM 3120B-2017
Total Selenium	SM 3120B-2017
Total Silicon	SM 3120B-2017
Total Silver	SM 3120B-2017
Total Sodium	SM 3120B-2017
Total Strontium	SM 3120B-2017
Total Sulfur	SM 3120B-2017
Total Thallium	SM 3120B-2017
Total Tin	SM 3120B-2017
Total Titanium	SM 3120B-2017
Total Tungsten	SM 3120B-2017
Total Vanadium	SM 3120B-2017
Total Zinc	SM 3120B-2017
Total Zirconium	SM 3120B-2017

**Superficial water, underground water, drinking water, waste water and water for industrial purposes**

<b><u>Parameter</u></b>	<b><u>Method</u></b>
Nitrogen (Ammonia)	SM 4500-NH3 D-2017
Phenols	SM 5530 C-2017
Anionic Surfactants as MBAS.	SM 5540 B -C-2017
Total Kjeldahl Nitrogen	SM 4500-Norg B-2017
Residual Free Chlorine	SM 4500-Cl-G. DPD-2017
Fats and Oils	SM 5520 D-2017
Fats and Oils	SM 5520 C-2017
Fixed and Volatile Solids	SM 2540 E -2017
Sulfide	SM 4500-S2-G-2017
Sulfide	SM 4500-S2-F-2017
Fluoride	SM 4500-F C -2017
Hexavalent Chromium	SM 3500-Cr B-2017
Hydrocarbons (Fixed)	SM 5520 F-2017
Chemical Oxygen Demand (COD)	MLAB-A-38 Rev.0 Method based on SM 5220 D-2017.
Biochemical Oxygen Demand 5 days (BOD5)	SM 5210 B-2017

<b>Parameter</b>	<b>Method</b>
Bromide	ILAB-39 Rev.0 Instruction based on SM 4110 B-2017
Chlorides	
Fluoride	
Phosphate	
Nitrate (NO3)	
Nitrite (NO2)	
Sulfate (SO4)	
2,4 Dichlorophenoxyacetic acid (2,4D)	
Pentachlorophenol	SM 6640 B-2017
Organochloride Pesticides Aldrin Lindane 4,4 'DDD 4,4 'DDE 4,4 'DDT Methoxychlor	SM 6630 B-C 2017
Dibromochloromethane	SM 6232 B-2017 by Liquid-Liquid Extraction Gas Chromatographic Method
Tetrachloroethene	
Bromodichloromethane	
Tribromomethane	
Trichloromethane	
Trihalomethanes	SM 4500-CN C-2017 Determination Total Cyanide After Distillation SM 4500 CN-F 2017
Total Cyanide	
Dissolved Aluminum	MLAB-A-32 Rev.0 Determination of Total and Dissolved Metals. Based on EPA Method 200.7
Dissolved Antimony	
Dissolved Arsenic	
Dissolved Barium	
Dissolved Beryllium	
Dissolved Bismuth	
Dissolved Boron	
Dissolved Cadmium	
Dissolved Calcium	
Dissolved Chromium	
Dissolved Cobalt	
Dissolved Cooper	
Dissolved Gold	
Dissolved Iron	
Dissolved Lead	
Dissolved Lithium	
Dissolved Magnesium	
Dissolved Manganese	
Dissolved Molybdenum	
Dissolved Nickel	
Dissolved Phosphorous	

<b>Parameter</b>	<b>Method</b>
Dissolved Potassium	MLAB-A-32 Rev.0 Determination of Total and Dissolved Metals. Based on EPA Method 200.7
Dissolved Rhenium	
Dissolved Rhodium	
Dissolved Selenium	
Dissolved Silicon	
Dissolved Silver	
Dissolved Sodium	
Dissolved Strontium	
Dissolved Sulfur	
Dissolved Thallium	
Dissolved Tin	
Dissolved Titanium	
Dissolved Tellurium	
Dissolved Tungsten	
Dissolved Uranium	
Dissolved Vanadium	
Dissolved Zinc	
Dissolved Zirconium	
Dissolved Mercury	MLAB-A-17 Rev.3 Determination based on SM 3112B-2017 and filtration based on SM 3030B
Dissolved Arsenic	MLAB-A-16 Rev.3 Determination based on SM 3111B-2017 and filtration based on SM 3030B-2017
Dissolved Selenium	
Total Aluminum	MLAB-A-32 Rev.0 Determination of Total and Dissolved Metals. Based on EPA Method 200.7
Total Antimony	
Total Arsenic	
Total Barium	
Total Beryllium	
Total Bismuth	
Total Boron	
Total Cadmium	
Total Calcium	
Total Chromium	
Total Cobalt	
Total Cooper	
Total Gold	
Total Iron	
Total Lead	
Total Lithium	
Total Magnesium	
Total Manganese	
Total Molybdenum	
Total Nickel	
Total Phosphorous	
Total Potassium	
Total Rhenium	
Total Rhodium	
Total Selenium	



<b>Parameter</b>	<b>Method</b>
Total Silicon	MLAB-A-32 Rev.0 Determination of Total and Dissolved Metals. Based on EPA Method 200.7
Total Silver	
Total Sodium	
Total Strontium	
Total Sulfur	
Total Thallium	
Total Tin	
Total Titanium	
Total Tellurium	
Total Tungsten	
Total Uranium	
Total Vanadium	
Total Zinc	
Total Zirconium	
Total Nitrogen	SM 4110 B-2017 - SM 4500-N Org B-2017
Calcium Hardness	SM 2340 B-2017
Magnesium Hardness	SM 2320 B-2017
Carbonate	
Bicarbonate	The Metro Handbook of Water Treatment for HVAC Systems, Richard Blake by calculation
Langelier Index	
Total Hydrocarbons	NCh 2313/7. 2021

**Soil, Solid, and Aqueous Waste:**

<b>Parameter</b>	<b>Method</b>
Arsenic	TCLP EPA 1311-1992/NCh 2754-2017 (Leaching) SM 3114B-2017 (Quantification)
Arsenic	SPLP EPA 1312-1994/NCh 2746-2003 (Leaching) SM 3114B-2017 (Quantification)
Barium	TCLP EPA 1311-1992/NCh 2754-2017 (Leaching) SM 3111D-2017 (Quantification)
Barium	SPLP EPA 1312-1994/NCh 2746-2003 (Leaching) SM 3111D-2017 (Quantification)
Cadmium	TCLP EPA 1311-1992/NCh 2754-2017 (Leaching) SM 3111B-2017 (Quantification)
Cadmium	SPLP EPA 1312-1994/NCh 2746-2003 (Leaching) SM 3111B-2017 (Quantification)
Chromium	TCLP EPA 1311-1992/NCh 2754-2017 (Leaching) SM 3111B-2017 (Quantification)
Chromium	SPLP EPA 1312-1994/NCh 2746-2003 (Leaching) SM 3111B-2017 (Quantification)
Lead	TCLP EPA 1311-1992/NCh 2754-2017 (Leaching) SM 3111B-2017 (Quantification)
Lead	SPLP EPA 1312-1994/NCh 2746-2003 (Leaching) SM 3111B-2017 (Quantification)
Mercury	TCLP EPA 1311-1992/NCh 2754-2017 (Leaching) SM 3112B-2017 (Quantification)

<b>Parameter</b>	<b>Method</b>
Mercury	SPLP EPA 1312-1994/NCh 2746-2003 (Leaching) SM 3112B-2017 (Quantification)
Selenium	TCLP EPA 1311-1992/NCh 2754-2017 (Leaching) SM 3114B-2017 (Quantification)
Selenium	SPLP EPA 1312-1994/NCh 2746-2003 (Leaching) SM 3114B-2017 (Quantification)
Silver	TCLP EPA 1311-1992/NCh 2754-2017 (Leaching) SM 3111B-2017 (Quantification)
Silver	SPLP EPA 1312-1994/NCh 2746-2003 (Leaching) SM 3111B-2017 (Quantification)

**Soils:**

<b>Parameter/Analyte</b>	<b>Method</b>
Bromide	ILAB-39 Rev.0 Instruction based on SM 4110 B-2017
Chloride	
Fluoride	
Phosphate	
Nitrate (NO3)	
Nitrite (NO2)	
Sulfate (SO4)	

**Soils, Sludges, Aquatic Sediments, Marine sediments, Lake Sediments**

<b>Parameter</b>	<b>Method</b>
Fats and Oils	MLAB-S-08 Rev.0 based on SM 5520 E 2017
Organic matter	MLAB-S-11 Rev.0 Method Based on Res. Ex. N° 3612/2009 SERNAPESCA. Numeral 27
Total Kjeldahl Nitrogen	MLAB-S-09 Rev.0 INIA 2006/ SM 4500-N B 2017
Total Nitrogen	
Volatile hydrocarbons	MLAB-S-07 Rev.0 based on NCh 2313/7.2021
Total hydrocarbons	MLAB-S-07 Rev.0 based on NCh 2313/7. 2021
Fixed hydrocarbons	MLAB-S-07 Rev.0 based on SM 5520-E 2017 and SM 5520-F 2017
Moisture	MLAB-S-01 Rev.8 Based on NCh1515.Of79
Aluminum	MLAB-S-10 Rev.0 Determination of Metals. Based on EPA Method 200.7
Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	
Boron	
Cadmium	
Calcium	

<b>Parameter</b>	<b>Method</b>
Chromium	MLAB-S-10 Rev.0 Determination of Metals. Based on EPA Method 200.7
Cobalt	
Cooper	
Gold	
Iron	
Lead	
Lithium	
Magnesium	
Manganese	
Molybdenum	
Nickel	
Phosphorous	
Potassium	
Rhenium	
Rhodium	
Selenium	
Silicon	
Silver	
Sodium	
Strontium	
Sulfur	
Thallium	
Tellurium	
Tin	
Titanium	
Tungsten	
Uranium	
Vanadium	
Zinc	
Zirconium	
Conductivity	MLAB-S-04 Rev.4 Based on INIA 2005 Serie Acta N°30 5.1 Extracto 1:5
pH	

**Drinking Water:**

<b><u>Parameter</u></b>	<b><u>Method</u></b>
Trihalomethanes (Bromodichloromethane, Dibromo-chloromethane, Tribromomethane, Trichloromethane and Tetrachloroethene)	ME-22-2007
	SM 6232B-2017
Lindane, Methoxychlor and DDT+DDD+DDE	ME-20-2007
	SM 6630C-2017
2,4 Dichlorophenoxyacetic acid (2,4D)	ME-21-2007
Pentachlorophenol	
Monochloramine	ME-23-2007
Total Cyanide	ME-14-2007
Ammonium/Ammonia NH <sub>3</sub>	ME-27-2007
Bromide	ILAB-39 Rev.0 Instruction based on SM 4110 B-2017
Chlorides	
Fluoride	
Phosphate	
Nitrate (NO <sub>3</sub> )	
Nitrite (NO <sub>2</sub> )	
Sulfate (SO <sub>4</sub> )	
Phenolic Compounds	ME-32-2007 by UV-VIS Molecular Absorption Spectrophotometry
Residual Free Chlorine	ME-33-2007 by D.P.D Method Ferrous Titrimetric (F.A.S.)
<b><u>Parameter</u></b>	<b><u>Method</u></b>
Benzene	ME-19-2007 by Gas Chromatography Method with FID
Odor	ME-25-2013
Toluene	ME-19-2007
Xylene	ME-19-2007

**Fixed Sources, Isokinetic Filters and Recoveries:**

<b><u>Matrices</u></b>	<b><u>Parameter(s)/Analyte(s)</u></b>	<b><u>Method(s)</u></b>
Air - Gases	Ammonia	EPA CTM 27
Air - Gases - Particulate Matter	Particulate Matter	Method CH-5, Based on EPA 5
Air - Gases - Particulate Matter	Total Reduced Sulfur Emissions (TRS) with Impinger: Sulfur Dioxide, Carbon Disulfide, Methyl Disulfide, Methyl Mercaptan, Carbonyl Sulfide, Dimethyl Sulfide, Hydrogen Sulfide	EPA 16A
Air - Gases - Particulate Matter	Total Reduced Sulfur Emissions (TRS): Sulfur Dioxide, Methyl Disulfide, Methylmercaptan, Dimethyl Sulfide, Hydrogen Sulfide	EPA 16B
Air - Gases - Particulate Matter	Sulfuric Acid, Sulfur Dioxide	EPA 8
Air - Gases - Particulate Matter	Particulate Material	EPA Method 17. CFR 40 - PART 60

<b><u>Matrices</u></b>	<b><u>Parameter(s)/Analyte(s)</u></b>	<b><u>Method(s)</u></b>
Air - Gases - Particulate Matter	PM10 and PM2.5	EPA Method 201A. CFR 40 - PART 51
Air - Gases - Particulate Matter	Condensable Particulate Matter	EPA Method 202. CFR 40 - PART 51
Air - Gases - Particulate Matter	Total Bromine	MLAB-F-03 Rev.0 Based on CH-26A/EPA 26A
	Hydrogen Bromide	
	Total Chlorine	
	Hydrogen Chloride	
	Hydrogen Fluoride	
Air - Gases - Particulate Matter	Aluminum	Method CH29 based on EPA 29
	Antimony	
	Arsenic	
	Barium	
	Beryllium	
	Cadmium	
	Cobalt	
	Chromium	
	Copper	
	Lead	
	Manganese	
	Mercury	
	Nickel	
	Phosphorous	
	Selenium	
	Silver	
Thallium		
Tellurium		
Air - Gases - Particulate Matter	Vanadium	Method CH29 based on EPA 29
	Zinc	
	Zirconium	

**Filter and MPS:**

<u>Parameter(s)/Analyte(s)</u>	<u>Method(s)</u>
H2SO4 / SO4(2-)	NIOSH 7908
HCL / CL	NIOSH 7907
H3PO4 / PO4(3-)	NIOSH 7908
HBr	NIOSH 7907
HNO3	NIOSH 7907
Silica, Crystalline	M-LAB-F-04 based on NIOSH 7602
Aluminum	MLAB-F-02 Rev.0 Determination of metals Based on EPA Method 200.7
Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	
Boron	
Cadmium	
Calcium	
Chromium	
Cobalt	
Cooper	
Gold	
Iron	
Lead	
Lithium	
Magnesium	
Manganese	
Molybdenum	
Nickel	
Phosphorous	
Potassium	
Rhenium	
Rhodium	
Selenium	
Silicon	
Silver	
Sodium	

<u>Parameter(s)/Analyte(s)</u>	<u>Method(s)</u>
Strontium	MLAB-F-02 Rev.0 Determination of metals Based on EPA Method 200.7
Sulfur	
Thallium	
Tellurium	
Tin	
Titanium	
Tungsten	
Uranium	
Vanadium	
Zinc	
Zirconium	

**Microbiology tests for drinking water and collection sources:**

<u>Parameter(s)/Analyte(s)</u>	<u>Method(s)</u>
Escherichia coli detection	ME-01-2007
Determination of total coliform bacteria	NCh1620/1:2020
Determination of total coliform bacteria and Escherichia coli	NCh1620/2:2020

**Microbiology tests for waste water and water for industrial purposes:**

<u>Parameter(s)/Analyte(s)</u>	<u>Method(s)</u>
Determination of fecal coliforms (MPN)	NCh2313 / 22.0f95
Determination of fecal coliforms (MPN)	NCh2313 / 23.0f95

**Microbiology tests for Superficial Water, Underground Water, Irrigation Water, Recreational Water, Drinking Water, Water for Industrial use and Wastewater:**

<u>Parameter(s)/Analyte(s)</u>	<u>Method(s)</u>
Determination of fecal coliforms	SM 9221 E1-2017
Determination of fecal coliforms (MPN)	SM 9221 E2-2017
Determination of total coliform bacteria (MPN)	SM 9221 B-2017
Escherichia coli detection (MPN)	SM 9221 F-2017
Heterotrophic determination	SM 9215 B-2017