

# SCOPE OF ACCREDITATION

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## ENVIRONMENTAL TESTING LABORATORY S.A.C.

[www.envirotest.com.pe](http://www.envirotest.com.pe)

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*Accredited to ISO/IEC 17025:2017*

*Effective Date July 14, 2022*

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Organics	Soils, Sediments and Sludges (Sampling & Analysis)	<b>Polychlorinated Biphenyls (PCBs):</b> 2-Chlorobiphenyl, 2,3-Dichlorobiphenyl, 2,2',5-Trichlorobiphenyl 2,4,4'-Trichlorobiphenyl 2,4',5-Trichlorobiphenyl 2,2',3,5'-Tetrachlorobiphenyl, 2,2',5,5'-Tetrachlorobiphenyl, 2,3',4,4'-Tetrachlorobiphenyl, 2,2',3,4,5'-Pentachlorobiphenyl, 2,2',4,5,5'-Pentachlorobiphenyl, 2,3,3',4',6-Pentachlorobiphenyl, 2,3',4,4',5-Pentachlorobiphenyl 2,2',3,4,4',5'-Hexachlorobiphenyl, 2,2',3,4,5,5'-Hexachlorobiphenyl, 2,2',3,5,5',6-Hexachlorobiphenyl, 2,2',4,4',5,5'-Hexachlorobiphenyl, 2,2',3,3',4,4',5-Heptachlorobiphenyl, 2,2',3,4,4',5,5'-Heptachlorobiphenyl, 2,2',3,4,4',5',6-Heptachlorobiphenyl, 2,2',3,4',5,5',6-Heptachlorobiphenyl, 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl, Total PCBs	EPA Method 8270E Rev 6 Jun 2018 // EPA Method 3550C Rev 3 February 2007 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry // Ultrasonic Extraction
		<b>PAHs:</b> Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1, 2, 3-cd)pyrene, Dibenz(a,h) anthracene, Benzo(g,h,i)perylene	EPA Method 8270E Rev 6 Jun 2018. // EPA Method 3550C Revision 3 February 2007 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry // Ultrasonic Extraction
		<b>Organochlorine Pesticides:</b> Aldrin, α-BHC, β-BHC, γ-BHC (Lindane), δ-BHC, α-Chlordane; γ-Chlordane; 4,4'-DDD; 4, 4'-DDT; 4,4'-	EPA Method 8270E Rev 6 Jun 2018. // EPA Method 3550C Rev 3 February 2007

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<b>Environmental Organics</b> (cont'd.)	Soils, Sediments and Sludges (Sampling & Analysis) (cont'd.)	DDE; Dieldrin, Endosulfan I; Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Endrin Ketone, Heptachlor, Heptachlor Epoxide Methoxychlor.	Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry // Ultrasonic Extraction
		<b>BTEX:</b> (Benzene, Toluene, Ethylbenzene, o-Xylene, m, p-Xylene, Total Xylenes), Naphthalene, Tetrachloroethylene, Trichloroethylene.	EPA Method 8260D Rev 4 June 2018. // EPA Method 5021A Rev 2 July 2014 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). // Volatile Organic Compounds in Various Sample Matrices using Equilibrium Headspace Analysis
		<b>Total Petroleum Hydrocarbons (TPH)</b> Range: C10-C40 F1: C6-C10 F2 > C10-C28 F3 > C28-C40 C6-C40	EPA Method 8015C Revision 3 / February 2007 Nonhalogenated Organics By Gas Chromatography
		<b>Oil &amp; Grease</b>	EPA Method 9071B Rev. 2 n-Hexane Extractable Material (HEM)
		<b>Color</b>	Official Mexican Standard NOM-021-RECNAT-2000 Method AS-22 Munsell Soil Color Chart page 46
<b>pH</b>	EPA Method 9045 D Solid and Waste pH. (Validated)		
<b>Environmental Inorganics</b>	Soils, Sediments, and Sludges (Sampling & Analysis)	<b>Total Metals:</b> Aluminum(Al), Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Mercury (Hg),	EPA Method 200.8 Rev 5.4 1994 Determination of trace elements in waters and wastes by Inductively Coupled

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<b>Environmental Inorganics</b> (cont'd.)	Soils, Sediments, and Sludges (Sampling & Analysis) (cont'd.)	Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag), Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn)	Plasma-Mass Spectrometry
		<b>Actual total barium</b>	Alberta Environment, Page. 33 item 6.2.2 (2009)//EPA Method 3050-B Rev 02 //EPA Method 200.7 Rev. 4.4 1994 Soil Remediation Guidelines for Barite: Environmental Health and Human Health (February 2009). Section 2.2.1 Soil (Fusion Methods) 9.1.3 True Total Barium // Acid Digestion of Sediments, Sludges and Soils // Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry (Validated)
		<b>Extractable barium</b>	Alberta Environment, Page. 33 item 6.2.2 (2009) // EPA Method 200.7 Rev. 4.4 1994 Soil Remediation Guidelines for Barite: Environmental Health and Human Health (February 2009)// Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission

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<b>Environmental Inorganics</b> (cont'd.)	Soils, Sediments, and Sludges (Sampling & Analysis) (cont'd.)		Spectrometry (Validated)
		<b>Cyanide Free</b>	EPA Method 9013 A Rev 2 July 2014. // SMEWW-APHA-AWWA-WEF Part 4500-CN-F, 24th Ed. 2023 Cyanide extraction procedure for solids and oils. // Cyanide selective electrode method
		<b>Total Mercury</b>	EPA Method 7471B Rev 2 February 2007 Mercury in solid or semisolid waste (manual cold-vapor technique)
		<b>Chromium Hexavalent</b>	DIN-19734 (1999-01) Determining the chromium (VI) content of soil in phosphate buffered extract
		<b>Total Metals:</b> Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Iron(Fe), Lead(Pb), Molybdenum(Mo), Selenium(Se), Thallium(Tl), Aluminum(Al), Vanadium(V), Manganese(Mn), Copper(Cu), Silver(Ag), Nickel(Ni), Zinc(Zn)	EPA Method 200.8 Rev 5.4 1994. // EPA Method 3050B Rev 2 December 1996 Determination of trace elements in waters and wastes by Inductively Coupled Plasma-Mass Spectrometry // Acid Digestion of Sediments, Sludges and Soils
		<b>Extractable Sulfides</b>	EPA Method 9031 Rev 0 July 1992 Determination extractable Sulfides in solids by distillation/Idometric Titration
		<b>Organic matter</b>	Official Mexican
<b>Total Organic Carbon</b>	Standard NOM-021-RECNAT-2000,2002.		

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<b>Environmental Inorganics</b> (cont'd.)	Soils, Sediments, and Sludges (Sampling & Analysis) (cont'd.)	<b>Total Organic Carbon</b> (continued)	That establishes the specifications of fertility, salinity and soil classification. Studies, sampling and analysis. AS-07; item 7.1.7 Determination of organic matter by Walkley and Black. Titration with ferrous sulfate
		<b>Extractable sulfates</b>	Methods of analysis recommended for the soils of Chile. Method 8.2 Revision 2006 Saturation extract and determination by colorimetry with barium chromate (validated)
		<b>Total Cyanide</b>	EPA Method 9013A Revision 2 July 2014. // SMEWW-APHA-AWWA-WEF Part 4500-CN <sup>-</sup> C, E, 24th Ed. 2023 Cyanide Extraction Procedure for solids and oils. // Cyanide. Total Cyanide after Distillation. Colorimetric Method
		<b>Chromium Hexavalent (Cromo VI)</b>	EPA Method 3060A Revision 1 December 1996 / EPA Method 7199, Revision 0 December 1996 Alkaline Digestion for Hexavalent Chromium / Determination of hexavalent chromium in drinking water, groundwater and industrial wastewater effluents by ion chromatography (Validated)



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Environmental Inorganics (cont'd.)		<b>Granulometry</b>	NTP 339.128.1999 (revised 2019) Granulometric Analysis in Soils
	<ul style="list-style-type: none"> <li>• Hydrated Lime</li> <li>• Live Lime</li> <li>• Limestones</li> <li>• Raw flour feeding the furnace for cement manufacturing</li> <li>• Raw material for the manufacture of lime.</li> </ul>	<b>Pyritic sulfur</b> (expresado como SO <sub>3</sub> )	NTP 334.131:2018 Limestone, quicklime, and hydrated lime. Methods for chemical analysis. – Sulphur (Total + Sulphur Trioxide) - Validated
		<b>Pyritic sulfur</b> (expresado como SO <sub>3</sub> )	ASTM C25-19 Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime Validated
Environmental Air Stationary and ambient air monitoring	Air (analysis)	<b>Weighing Filter PM-10 High Volume</b> - Gravimetric	EPA/625/R-96/010a Compendium Method IO-2.1 June 1999 //Compendium Method IO-3.1 June 1999. Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Sampling of Ambient Air for Total Suspended Particulate Matter (SPM) and PM10 Using High Volume (HV) Sampler. // Selection, Preparation and Extraction of Filter Material (Validated)
		<b>Weighing Filter PM-2.5 High Volume</b> – Gravimetric	EPA/625/R-96/010a Compendium Method IO-2.1 June 1999 //Compendium

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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (analysis) (cont'd.)	<b>Weighing Filter PM-2.5 High Volume</b> – Gravimetric (cont'd.)	Method IO-3.1 June 1999. Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Sampling of ambient air for total suspended particulate matter (SPM) and PM10 using high volume (HV) sampler. // Selection, preparation and extraction of filter material (Validated)
		<b>Weighing Filter PM-10 Low Volume</b> – Gravimetric	EPA/625/R-96/010a Compendium Method IO-2.3 June 1999 // Compendium Method IO-3.1 June 1999. Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Sampling of Ambient Air for PM10 Concentration Using the Rupprecht and Patashnick (R&P) Low Volume Partisol Sampler  Selection, Preparation and Extraction of Filter Material (Validated)
		<b>Weighing Filter PTS High Volume - Gravimetric</b>	EPA 40 CFR Appendix B to Part 50, 2021 // EPA/625/R-96/010a

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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (analysis) (cont'd.)	<b>Weighing Filter PTS High Volume - Gravimetric</b> (cont'd.)	Compendium Method IO-3.1 June 1999. Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere. (High-Volume Method)//Selection, Preparation and Extraction of Filter Material (Validated)
		<b>Weighing filter PM-2.5 LOW VOLUME – Gravimetric</b>	EPA 40 CFR Appendix L to part 50, 2021 // EPA/625/R-96/010a Compendium Method IO-3.1 June 1999. Reference method for the determination of fine particulate matter AS PM 2.5 in the Atmosphere // Selection, Preparation and Extraction of Filter Material (Validated)
	Air (field sampling & analysis)	<b>Particulate Matter PM-10 (High Volume)</b>	EPA/625/R-96/010a Compendium Method IO-2.1 June 1999 // Compendium Method IO-3.1 June 1999 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Sampling of Ambient Air for Total Suspended Particulate Matter (SPM) and PM10 Using High Volume (HV) Sampler. // Selection, Preparation and



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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)	<b>Particulate Matter PM-2.5 (High Volume)</b>	Extraction of Filter Material  EPA/625/R-96/010a Compendium Method IO-2.1 June 1999//Compendium Method IO-3.1 June 1999  Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Sampling of Ambient Air for Total Suspended Particulate Matter (SPM) and PM10 Using High Volume (HV) Sampler. // Selection, Preparation and Extraction of Filter Material
		<b>Particulate Matter PM-10 (Low Volume)</b>	EPA/625/R-96/010a Compendium Method IO-2.3 June 1999 // Compendium Method IO-3.1 June 1999  Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Sampling of Ambient Air for PM10 Concentration Using the Rupprecht and Patashnick (R&P) Low Volume Partisol Sampler. // Selection, Preparation and Extraction of Filter Material
		<b>Suspended Particulate Matter (PTS) High Volume</b>	EPA 40 CFR Appendix B to Part

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Environmental Air (cont'd.)	Air (field sampling & analysis) (continued)	<b>Suspended Particulate Matter (PTS) High Volume</b> (cont'd.)	50, 2021.// EPA/625/R-96/010a Compendium Method IO-3.1 June 1999 Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere. (High-Volume Method).// Selection, Preparation and Extraction of Filter Material
		<b>Particulate Matter PM- 2.5 (Low Volume)</b>	EPA 40 CFR Appendix L to part 50 2021 // EPA/625/R-96/010a Compendium Method IO-3.1 June 1999 Reference method for the determination of fine particulate matter AS PM 2.5 in the Atmosphere // Selection, Preparation and Extraction of Filter Material
		<b>Metals Filter PM 10 High Volume –</b> Aluminum(Al), Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag), Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn). Strontium (Sr), Tin (Sn), Iron (Fe), Phosphorus (P), Lithium (Li), Magnesium (Mg), Boron (B), Calcium (Ca), Sodium (Na), Titanium (Ti), Potassium (K), Silicon (Si), Cerium (Ce)	EPA/625/R-96/010a Compendium Method IO-3.5 June 1999 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Determination of Metals in Particulate Matter using Inductively Coupled Plasma/ Mass spectrometer (ICP/ MS)

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Environmental Air (cont'd.)	Air (field sampling & analysis) (continued)	<b>Metals in Filter PM 2.5 High Volume</b> – Aluminum(Al), Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag), Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn).	EPA/625/R-96/010a Compendium Method IO-3.5 June 1999 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Validated
		<b>Metals in Filter PM 10 Low Volume</b> –Aluminum(Al), Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag), Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn).	EPA/625/R-96/010a Compendium Method IO-3.5 June 1999 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Validated
		<b>Volatile Organic Compounds</b> Benzene (Sampling and Analysis)	ASTM D3687-19 // ASTM D3686-20 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.//Standard Practice for Sampling Atmospheres to Collect Organic

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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)		Compound Vapors (Activated Charcoal Tube Adsorption Method)
		<b>Volatile Organic Compounds</b> Benzene (Only Analysis)	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method
		<b>Total Hydrocarbons expressed as Hexane (Sampling and Analysis)</b>	ASTM D3687-19 // ASTM D3686-20 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.//Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method)
		<b>Total Hydrocarbons expressed as Hexane (Only Analysis)</b>	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method
		<b>Metals in Filter PTS High Volume</b> Aluminum(Al), Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag),	EPA/625/R-96/010a Compendium Method IO-3.5 June 1999 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air.

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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)	Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn)	Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) (Validated)
		<b>Metals in Filter PM 2.5 Low Volume</b> Aluminum(Al), Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag), Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn).	EPA/625/R-96/010a Compendium Method IO-3.5 June 1999 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Validated
		<b>Total Gaseous Mercury (Hg) in Quality Air</b>	ETL-171129 (Validated) Absorbent Tube Method ( <b>Hopcalite</b> )-by Cold Vapor Atomic Absorption Spectrometry  NTP 900.068 / 2016-12-31, 1st Edition Environmental Quality / Air Quality Monitoring / Standard Method for the Determination of Total Gaseous Mercury  NIOSH Method 6009 issue 2, 15 August 1994 / EPA Method 245.1 Revision 3, 1994



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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)	<b>Total Gaseous Mercury (Hg) in Quality Air</b> (continued)	Mercury / Determination of Mercury in Water – by Cold Vapor Atomic Absorption Spectrometry  NTP 900.068 / 2016-12-31, 1st Edition COR 1:2017 Environmental Quality / Air Quality Monitoring / Standard Method for the Determination of Total Gaseous Mercury
		<b>Volatile Organic Compounds (Screening) (BTEX)</b>  Benzene, Toluene, Ethylbenzene, m,p-Xylene, o-Xylene	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method
		<b>Volatile Organic Compounds (Sampling &amp; Analysis)</b>  Benzene, Trichloroethene, Toluene, Tetrachloroethene, Chlorobenzene, Ethylbenzene m-Xylene p-Xylene m,p-Xylene, o-Xylene, Styrene, Isopropylbenzene, Bromobenzene, n-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,3,5-Trimethylbenzene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, Sec-Butylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, p-Isopropyltoluene, 1,2-Dichlorobenzene, n-Butylbenzene, 1,2,4-Trichlorobenzene Naphthalene, 1,2,3-Trichlorobenzene	ASTM D3687-19 // ASTM D3686-20 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.//Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method)
		<b>Volatile Organic Compounds (Only Analysis)</b>	ASTM D3687-19 Standard Test Method for Analysis



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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)	Benzene, Trichloroethene, Toluene, Tetrachloroethene, Chlorobenzene, Ethylbenzene m-Xylene p-Xylene m,p-Xylene, o-Xylene, Styrene, Isopropylbenzene, Bromobenzene, n-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,3,5-Trimethylbenzene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, Sec-Butylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, p-Isopropyltoluene, 1,2-Dichlorobenzene, n-Butylbenzene, 1,2,4-Trichlorobenzene Naphthalene, 1,2,3-Trichlorobenzene	of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method
		<b>Analysis of acid mist (Acid Fog Analysis)</b>	ISO 4220 First Edition 1983 (confirmed 2012) Ambient Air - Determination of a gaseous acid air pollution index - Titrimetric Method with indicator or Potentiometric end - Point Detection
		<b>PM 2.5 (Low Volume)</b>	AS/NZS 3580.9.10:2017 Methods for sampling and analysis of ambient air. Method 9.10: Determination of suspended particulate matter-PM2.5 low volume sampler-Gravimetric method
		<b>PM 10 (Low Volume)</b>	AS/NZS 3580.9.9:2017 Methods for sampling and analysis of ambient air.

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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)	<b>PM 10 (Low Volume)</b> (cont'd.)	Method 9.9: Determination of suspended particulate matter-PM10 low volume sampler-Gravimetric method
		<b>Nitrogen dioxide NO<sub>2</sub></b>	ASTM D1607-91 (Reapproved 2018) Standard Test Method for Nitrogen Dioxide content of the Atmosphere (Griess-Saltzman Reaction) (Validated)
	Air (field sampling)	<b>Sulfur Dioxide (SO<sub>2</sub>) in Quality Air</b>	NTP - ISO 10498-2017 (revised 2022) 2022-10-12 2 <sup>a</sup> Edition  Ambient air Determination of sulfur dioxide Ultraviolet Fluorescence Method  Pulsed Fluorescence SO <sub>2</sub> -H <sub>2</sub> S-CS Analyzer Hydrogen Sulfide-Sulfur Dioxide Analyzer
		<b>Hydrogen Sulfide (H<sub>2</sub>S) in Quality Air</b>	NTP - ISO 10498-2017 (revised 2022) 2022-10-12 2 <sup>a</sup> Edition  Ambient air Determination of sulfur dioxide Ultraviolet Fluorescence Method  Pulsed Fluorescence SO <sub>2</sub> -H <sub>2</sub> S-CS Analyzer

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (field sampling) (cont'd.)		Hydrogen Sulfide-Sulfur Dioxide Analyzer
		<b>Carbon Monoxide (CO) in Quality Air</b>	EPA CFR 40 Parte 50 App. C – 2021 Measurement Principle and Calibration Procedure for the Measurement of Carbon Monoxide in the Atmosphere (Nom - Dispersive Infrared Photometry)  NTP-ISO 4224-2019 1st Edition Ambient Air. Determination of Carbon Monoxide. Non-dispersive infrared spectrometry method
		<b>Nitrogen Dioxide (NO<sub>2</sub>), Nitric Oxide (NO), Nitrogen Oxides (NO<sub>x</sub>) in Quality Air</b>	EPA CFR 40 Part 50 App. F Measurement Principle and Calibration Procedure for the Measurement of Nitrogen Dioxide in the Atmosphere (Gas Phase Chemiluminescence)  NTP-ISO 7996:2019 1st Edition Ambient air. Determination of the mass concentration of oxides of nitrogen. Method of chemiluminescence
<b>Ozone (O<sub>3</sub>) in Quality Air</b>	EPA CFR 40 Part 50 App D – 2021 Measurement Principle and Calibration Procedure for the		

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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (field sampling) (cont'd.)		Measurement of Ozone in the Atmosphere
		Ozone (O3)	NTP-ISO 13964:2020 1 <sup>st</sup> Edition Air quality — Determination of ozone in ambient air — Ultraviolet photometric method
		<b>Meteorological parameters:</b> Wind speed, wind direction environmental temperature, relative humidity, atmospheric pressure (wind rose), precipitation	ASTM D5741-96 (2017) Standard Practice for Characterizing Surface Wind Using a Wind Vane and Rotating Anemometer Validated
	Air (Sampling & analysis)	<b>Benzene</b>	NTP 712.107:2020 Environmental Quality Monitoring Benzene concentration measurement method in ambient air part 2 Aspiration sampling followed by solvent desorption and gas chromatography 1st edition
		Benzene (C6H6), Sulfur Dioxide (SO2), Nitrogen Dioxide (NO2), Ozone (O3), Carbon Monoxide (CO)	NTP 900.036:2017 Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods. Part 1: General requirements. 2 <sup>a</sup> Edition  EN 13528-1:2003(confirmed 2017)

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<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (Sampling & analysis) (cont'd.)	Benzene (C <sub>6</sub> H <sub>6</sub> ), Sulfur Dioxide (SO <sub>2</sub> ), Nitrogen Dioxide (NO <sub>2</sub> ), Ozone (O <sub>3</sub> ), Carbon Monoxide (CO) (cont'd.)	Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 1: General requirements
		EN 13528-2:2003(confirmed 2017) Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 2: Specific requirements and test methods	
		EN 13528-3:2004(confirmed 2018) Ambient air quality. Diffusive samplers for the determination of concentrations of gases and vapours. Requirements and test methods - Part 3: Guide to selection, use and maintenance	
		<b>PM 10 (High and Low Volume)</b>	NTP 900.030:2018 Environmental Quality Monitoring. Air quality Reference method for the determination of respirable particulate matter such as PM10 in the atmosphere. 2nd Edition
<b>PM 2.5 (Low Volume)</b>	NTP 900.069:2017 Environmental Quality Monitoring. Air quality. Reference method for the		

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
<b>Environmental Air</b> Stationary and ambient air monitoring (cont'd.)	Air (Sampling & analysis) (cont'd.)		determination of fine particulate matter such as PM 2.5 in the atmosphere. 1st Edition
		<b>PM 1 (Low Volume)</b>	NTP 900.069:2017 Environmental Quality Monitoring. Air quality. Reference method for the determination of fine particulate matter such as PM 2.5 in the atmosphere. 1st Edition
		<b>Coarse fraction (PM<sub>10-2.5</sub>)</b>	NTP 900.030:2018 // NTP 900.069:2017 (Validated) Environmental Quality Monitoring. Air quality Reference method for the determination of respirable particulate matter such as PM <sub>10</sub> in the atmosphere. 2nd Edition // Environmental Quality Monitoring. Air quality. Reference method for the determination of fine particulate matter such as PM 2.5 in the atmosphere. 1st Edition
		<b>Lead (Pb), in PM 10</b>	NTP 712.105:2019 Environmental Quality Monitoring. Air quality Determination of lead content in airborne particulate matter captured in filters. Atomic absorption spectrometry method. 1st Edition



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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
<b>Environmental – Air Emissions</b>	Emissions (Only Sampling)	<b>Carbon Monoxide (CO)</b>	EPA 40 CFR Appendix A-4 to Part 60, Method 10 Revision 8 February 2021 Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)  NTP 900.010:2021 ATMOSPHERIC EMISSIONS MONITORING. Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)
		<b>Sulfur Dioxide (SO<sub>2</sub>)</b>	NTP 712.117:2022 Monitoring of atmospheric emissions. Determination of sulfur dioxide emissions from stationary sources. Instrumental analyzer procedure. 1a Edition  EPA 40 CFR Appendix A-4 to Part 60, Method 6C Revision 8 February 2021 Determination of Sulfur Dioxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)
		<b>Carbon Dioxide (CO<sub>2</sub>) and Oxygen (O<sub>2</sub>)</b>	EPA Method 3A (2021) Determination of Oxygen and Carbon Dioxide

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
<b>Environmental – Air Emissions</b> (continued)	Emissions (Only Sampling) (continued)	<b>Carbon Dioxide (CO<sub>2</sub>) and Oxygen (O<sub>2</sub>)</b> (cont'd.)	Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)  NTP 712.111:2021 MONITORING OF ATMOSPHERIC EMISSIONS. Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)
		<b>Total organic compounds</b>	EPA CFR Title 40, Appendix A-7, Part 60. Method 25A: 2021 Determination of total gaseous organic concentration using a flame ionization analyzer.
		<b>Total gaseous nonmethane organic compounds (TGNMO)</b>	EPA-40 CFR, Part 60, Appendix A-7, Method 25: 2021 Determination of total gaseous nonmethane organic emissions as carbon
		<b>NO<sub>x</sub> in Gaseous Emissions (NO; NO<sub>2</sub>)</b>	NTP 712.120:2022 Monitoring of atmospheric emissions. Determination of nitrogen oxide emissions in stationary sources. Instrumental analyzer procedure.  EPA 40 CFR Appendix A-5 to Part 60, Method 7E: 2021

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<b>Environmental – Air Emissions</b> (continued)	Emissions (Only Sampling) (continued)		Determination of nitrogen oxides emissions from stationary sources (instrumental analyzer procedure)
		<b>Velocity and Volumetric Flow</b>	NTP 712.112:2022 Monitoring of atmospheric emissions. Determination of gas velocity and volumetric flow rate in chimneys or small ducts (Standard Pitot Tube). 1a Edition  EPA 40 CFR Appendix A-1 to Part 60 Method 2C :2021 Determination of gas velocity and volumetric flow rate in small stacks or ducts (standard pitot tube)
		<b>Velocity and Volumetric Flow</b>	NTP 900.002; 2021, Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
		<b>Velocity and Volumetric Flow</b>	EPA 40 CFR Appendix A-1 to Part 60 Method 2: 2021, Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
		<b>Carbon dioxide, methane, nitrogen, and oxygen</b>	EPA 40 CFR Appendix A-2 to Part 60, Method 3C: 2021, Determination of carbon dioxide, methane, nitrogen, and oxygen from stationary sources

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<b>FIELDS OF TESTING</b>	<b>MATERIAL/ MATRIX</b>	<b>DETERMINANT(S)/ ANALYTE(S)</b>	<b>METHOD REFERENCE</b>
<b>Environmental – Air Emissions</b> (continued)	Emissions (Only Sampling) (continued)	<b>Opacity</b>	UNE 82503:1999 Measuring instruments. apparatus for measurement of the opacity and for determination of the light absorption coefficient of exhaust gas in compression-ignition engines (diesel)
		<b>Opacity</b>	ASTM D2156-09 Standard Test Method for Smoke Density in Flue Gases from Burning Distillate Fuels
	Emissions (field sampling & analysis)	<b>NOx in Gaseous Emissions (NO y NO2)</b>	EPA Method 7C, October 7, 2020 Determination of Nitrogen Oxide Emissions from Stationary Sources (Alkaline Permanganate/Colorimetric Method)
		<b>NOx in Gaseous Emissions (NO y NO2)</b>	EPA-40 CFR, Part 60, Appendix A-7, Method 7:2021 Determination of nitrogen oxide emissions from stationary sources  NTP 900.007: 2021 Determination of nitrogen oxide emissions from stationary sources
		<b>Particulate Material</b>	EPA 40 CFR, Appendix A-3 to Part 60, Method 5: 2021 Determination of particulate matter emissions from stationary sources

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<b>Environmental – Air Emissions</b> (continued)	Emissions (field sampling & analysis) (continued)		NTP 900.005: 2021 Determination of particulate matter emissions from stationary sources
		<b>Polychlorinated dibenzo-pdioxins (PCDD's) and polychlorinated dibenzofurans (PCDF's)</b>	EPA CFR Title 40, Part 60, Appendix A-7, Method 23: 2021 Determination of Polychlorinated Dibenzo-Polychlorinated P-Dioxins and Polychlorinated Dibenzofurans from stationary sources
		<b>Sox in Gaseous Emissions</b>	EPA Method 8, 2021 Determination of Sulfuric Acid and Sulfur Dioxide Emissions from Stationary Sources
		<b>Sulfur Dioxide in Gaseous Emissions</b>	EPA Method 6 2021 Determination of Sulfur Dioxide emissions from stationary sources  NTP 900.006:2021 ATMOSPHERIC EMISSIONS MONITORING. Determination of Sulfur Dioxide emissions from stationary sources.
		<b>TRS (Dimethyl disulfide, Dimethyl sulfide, Hydrogen Sulfide, Methyl mercaptan, Carbonyl Sulfide)</b>	EPA Method 16A 2021 Determination of Total Reduced Sulfur Emissions From Stationary Sources (Impinger Technique)
<b>Carbon disulfide (CS<sub>2</sub>) Carbonyl sulfide (COS)</b>	EPA 40 CFR Appendix A-5 to Part		

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<b>Environmental – Air Emissions</b> (continued)	Emissions (field sampling & analysis) (continued)	<b>Hydrogen sulfide (H<sub>2</sub>S)</b>	60, Method 15 :2021 Determination of hydrogen sulfide, carbonyl sulfide, and carbon disulfide emissions from stationary sources  NTP 900.015; 2021 Determination of hydrogen sulfide, carbonyl sulfide, and carbon disulfide emissions from stationary sources
		<b>Hydrogen Chloride (HCl)</b> <b>Hydrogen Bromide (HBr)</b> <b>Hydrogen Fluoride (HF)</b> <b>Chlorine (Cl<sub>2</sub>)</b> <b>Bromine (Br<sub>2</sub>)</b>	EPA CFR Title 40, Part 60. Appendix A-8, Method 26A: 2021 Determination of hydrogen halide and halogen emissions from stationary sources isokinetic method.  EPA CFR Title 40, Part 60. Appendix A-8, Method 26: 2021 Determination of hydrogen halide and halogen emissions from stationary sources non-isokinetic method.
		<b>Formaldehyde</b>	EPA CFR Title 40, Appendix A of Part 63, Method 323: 2021 Measurement of Formaldehyde Emissions From Natural Gas-Fired Stationary Sources-Acetyl Acetone Derivatization Method.  EPA CFR Title 40, Appendix A of Part



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<b>Environmental – Air Emissions</b> (continued)	Emissions (field sampling & analysis) (continued)	<b>Formaldehyde</b> (cont'd.)	63, Method 316: 2021 Sampling and analysis for formaldehyde emissions from stationary sources in the mineral wool and wool fiberglass industries.
		<b>Ammonia</b>	EPA 207.1 Determination of ammonia emissions from stationary sources.  CTM – 027 Determination of ammonia emissions from stationary sources.
		<b>Hydrogen Cyanide</b>	OTM 29:2011 Sampling and analysis for hydrogen cyanide emissions from stationary sources.
		<b>COV</b> (Calculated as Total Carbon)	UNE-CEN/TS 13649:2014 Stationary source emissions - Determination of the mass concentration of individual gaseous organic compounds - Sorptive sampling method followed by solvent extraction or thermal desorption (Endorsed by Asociación Española de Normalización in August of 2017).  UNE-EN 12619:2013 Emisiones de fuentes estacionarias - Determinación de la concentración

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Environmental – Air Emissions (continued)	Emissions (field sampling & analysis) (continued)		másica de carbono orgánico gaseoso total - Método detector de ionización de llama continua (Validated)
		<b>Total hydrocarbons/ Total organic hydrocarbons</b>	EPA-40 CFR, Part 60, Appendix A-7, Method 25: 2021 Determination of total gaseous nonmethane organic emissions as carbon  EPA 40 CFR Appendix A-2 to Part 60, Method 3C: 2021, Determination of carbon dioxide, methane, nitrogen, and oxygen from stationary sources (validated method)
	Emissions	<b>Total Metals in Gaseous Emissions Metals</b> Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Mercury(Hg), Nickel(Ni), Phosphorus(P), Selenium(Se), Silver(Ag), Thallium(Tl), Zinc(Zn).  Vanadium (V), Iron (Fe), Tin (Sn) and Titanium (Ti)	NTP 712.110:2022 MONITOREO DE EMISIONES ATMOSFÉRICAS. Determination of Metals Emissions from Stationary Sources. 1ª Edition  EPA Method 29 (2021) Determination of Metals Emissions from Stationary Sources - by Inductively Coupled Plasma-Atomic Emission Spectrometry  NTP 712.110:2022 MONITOREO DE EMISIONES ATMOSFÉRICAS. Determination of

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
<b>Environmental – Air Emissions</b> (continued)	Emissions (continued)	<b>Mercury</b> Mercury (Hg)	Metals Emissions from Stationary Sources. 1 <sup>st</sup> Edition (Validated)  EPA Method 29 (2021) Determination of Metals Emissions from Stationary Sources - by Inductively Coupled Plasma-Atomic Emission Spectrometry (Validated)  EPA Method 245.1 Revision 3, 1994 Determination of Mercury in Water – by Cold Vapor Atomic Absorption Spectrometry
		<b>SO2 in Gaseous Emissions</b>	ETL-171010 (Validated)  CTM 022 OAQPS, EPA 5/1995 Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Emissions from Natural Gas-Fired / Electrochemical Cells_TESTO  CTM 030 Research Institute Method GRI-96/0008, Revision 7, October 13, 1997 Engines, Boilers and Process Heaters Using Portable Analyzers Gas / Electrochemical Cells_TESTO

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<b>Environmental – Air Emissions</b> (continued)	Emissions (continued)	<b>H2S in Gaseous Emissions</b>	ETL-171015 (Validated)  CTM 022 OAQPS, EPA 5/1995 Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Emissions from Natural Gas-Fired / Electrochemical Cells_TESTO  CTM 030 Research Institute Method GRI-96/0008, Revision 7, October 13, 1997 Engines, Boilers and Process Heaters Using Portable Analyzers Gas / Electrochemical Cells_TESTO
		<b>VOCs in Gaseous Emission</b> Benzene, Trichloroethene, Toluene, Tetrachloroethene, Chlorobenzene, Ethylbenzene, m-Xylene, P-Xylene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene, Bromobenzene, n-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,3,5-Trimethylbenzene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, Sec-Butylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, p-Isopropyltoluene, 1,2-Dichlorobenzene, n-Buthylbenzene, 1,2,4-Trichlorobenzene, Naphthalene, 1,2,3-Trichlorobenzene	EPA Method 18, 1/14/2019 Measurement of Gaseous Organic Compound Emissions by Gas Chromatography  NTP 900.018:2021 ATMOSPHERIC EMISSIONS MONITORING. Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
		<b>Gases NOx (NO y NO2) - CO - O2 in Gaseous Emissions</b>	CTM 034: Test Method Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Monitoring (Portable Electrochemical Analyzer Procedure)
Environmental Organics	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis)	<b>Polynuclear Aromatic Hydrocarbons</b> <b>PAHs:</b> Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1, 2, 3-cd)pyrene, Dibenz(a,h) anthracene, Benzo(g,h,i)perylene.	EPA Method 8270E Rev 6 Jun 2018 // EPA Method 3510C Revision 3 December 1996 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry  Separatory funnel liquid-liquid extraction
		<b>Phthalate Esters:</b> Dimethyl phthalate, Diethyl phthalate, Di-n-butyl phthalate, Butyl benzyl phthalate, Bis (2-Ethylhexyl) phthalate, Di-n-octylphthalate	EPA Method 8270E Rev 6 Jun 2018 // EPA Method 3510C Revision 3 December 1996 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry  // Separatory funnel liquid-liquid extraction
		<b>PCBs:</b> Aroclor 1016, Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, Total PCBs	EPA Method 8082A Revision 1 February 2007 // EPA Method 3510C Revision 3 December 1996 Polychlorinated Biphenyls (PCBs) by Gas Chromatography  Separatory funnel liquid-liquid extraction
		<b>Organochlorine Pesticides:</b> Aldrin, $\alpha$ -BHC, $\beta$ -BHC, $\gamma$ -BHC (Lindane), $\delta$ -BHC, $\alpha$ -Chlordane; $\gamma$ -Chlordane; 4,4'-DDD; 4, 4'-DDT; 4,4'-DDE; Dieldrin, Endosulfan I; Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Endrin Ketone, Heptachlor, Heptachlor Epoxide Methoxychlor	EPA Method 8081B Revision 2 February 2007 // EPA Method 3510C Revision 3 December 1996 Organochlorine Pesticides by Gas Chromatography

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<b>Environmental Organics</b> (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)	DDT, DDT (Suma de 4, 4'-DDT; 4,4'-DDE), Aldrin + Dieldrin, Heptachlor + Heptachlor Epoxide, Chlordane	Separatory funnel liquid-liquid extraction
		<b>BTEX:</b> Benzene, Toluene, Ethylbenzene, o-Xylene, m,p-Xylene, Total Xylenes.	EPA Method 8260D Rev 4 June 2018. // EPA Method 5021A Rev 2 July 2014 Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS). // Volatile Organic Compounds in Various Sample Matrices using Equilibrium Headspace Analysis
		<b>Trihalomethanes:</b> Chloroform, Bromoform, Bromodichloromethane, Dibromochloromethane, Total Trihalomethanes	EPA Method 8260D Rev 4 June 2018. // EPA Method 5021A Revision 2 July 2014 Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS). // Volatile Organic Compounds in Various Sample Matrices using Equilibrium Headspace Analysis
		<b>Volatile Organic Compounds:</b> 1,1-Dichloroethane; 1,1-Dichloroethene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; 1,1,1,2-Tetrachloroethane; 1,2-Dibromoethane; 1,2-Dichlorobenzene; 1,2-Dichloroethane; 1,2-Dichloropropane; 1,2,3-Trichlorobenzene; 1,2,3-Trichloropropane; 1,2,4-Trichlorobenzene; 1,2,4-Trimethylbenzene; 1,3-Dichlorobenzene; 1,3-Dichloropropane; 1,3,5-Trimethylbenzene; 1,4-Dichlorobenzene; 2-Chlorotoluene; 2,2-Dichloropropane; 4-	EPA Method 8260D Rev 4 June 2018. // EPA Method 5021A Revision 2 July 2014 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). // Volatile Organic Compounds in Various Sample Matrices using Equilibrium Headspace Analysis



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<b>Environmental Organics</b> (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)	Chlorotoluene; Bromobenzene; Bromochloromethane; cis-1,2-Dichloroethene; Chlorobenzene; Dichloromethane; Dibromoethane; Styrene; Hexachlorobutadiene; Isopropylbenzene; Naphthalene; n-Butylbenzene, n- Propylbenzene; p-Isopropyltoluene; sec- Butylbenzene; tert-Butylbenzene, Tetrachloroethene; Carbon tetrachloride; trans-1,2-Dichloroethene; Trichloroethene. Total Trichlorobenzene	
		<b>Volatile Organic Compounds:</b> 1,1,2,2 Tetrachloroethane 1,1 Dichloropropene 1,2 Dibromo-3 chloropropane Cis-1,3-Dichloropropene Trans-1,3 Dichloropropene	EPA 8260 D, Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
		<b>Total Petroleum Hydrocarbons</b> C11-C22 Aromatic Fraction Hydrocarbons	EPH Method Massachusetts Department Of Environmental Protection May 2004 Revision 1.1 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH) (validated)
		<b>Phenols:</b> Phenol, 2-Chlorophenol, o-Cresol, m-Cresol, p-Cresol, 2-Nitrophenol; 2,4-Dimethylphenol; 2,4-Dichlorophenol; 2,6-Dichlorophenol, 4- Chloro-3-Methylphenol; 2,4,6- Trichlorophenol; 2,4,5-Trichlorophenol; 2,3,4,6-Tetrachlorophenol, 2-Methyl-4,6-Dinitrophenol, Pentachlorophenol, Dinoseb	EPA Method 8270E Rev 6 Jun 2018 // EPA Method 3510C Rev 3 December 1996 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry // Separatory funnel liquid-liquid extraction
		<b>Organophosphorus Pesticides:</b> Dimethoate, Disulfoton, Famphur, Methyl Parathion; O, O, O-Triethylphosphorothioate, Parathion, Phorate, Sulfotep, Thionazin, Malathion	EPA Method 8270E Rev 6 Jun 2018 // EPA Method 3510C Revision 3 December 1996 Semi-volatile Organic Compounds by Gas

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
<b>Environmental Organics</b> (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)		Chromatography/Mass Spectrometry // Separatory funnel liquid-liquid extraction
		<b>Organochlorine Pesticides and Organophosphorus Pesticides:</b> Aldrin, $\alpha$ -BHC, $\beta$ -BHC, $\gamma$ -BHC (Lindane), $\delta$ -BHC, $\alpha$ -Chlordane; $\gamma$ -Chlordane; 4,4'-DDD; 4, 4'-DDT; 4,4'-DDE; Dieldrin, Endosulfan I; Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Endrin Ketone, Heptachlor, Heptachlor Epoxide Methoxychlor DDT, DDT (Suma de 4, 4'-DDT; 4,4'-DDE). Dimethoate, Disulfoton, Famphur, Methyl Parathion; O, O, O-Triethylphosphorothioate, Parathion, Phorate, Sulfotep, Thionazin, Malathion.	EPA Method 8270E Rev 6 Jun 2018 // EPA Method 3510C Revision 3 December 1996 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry // Separatory funnel liquid-liquid extraction
		<b>Total Petroleum Hydrocarbons (TPH)</b> Range: GRO: C6-C10 / DRO: C10-C28 C8-C40 C10-C40 C28-C40 C6-C40	EPA Method 8015 C Revision 3 / February 2007 Nonhalogenated Organics By Gas Chromatography
		<b>Dissolved or emulsed Hydrocarbon, Mineral oil</b>	EPA 8015 C/ EPA 3510, Nonhalogenated Organics by Gas Chromatography – Semi-volatile Organic Compound
<b>Environmental Inorganics</b>	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis)	<b>Total and Dissolved Metals:</b> Aluminum(Al), Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Mercury (Hg), Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag), Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn)	EPA Method 200.8 Revision 5.4 1994 Determination of trace elements in waters and wastes by Inductively Coupled Plasma-Mass Spectrometry

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<b>Environmental Inorganics</b> (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)	Strontium (Sr), Tin (Sn), Iron (Fe), Phosphorus (P), Lithium (Li), Magnesium (Mg), Bismuth (Bi), Boron (B), Calcium (Ca), Sodium (Na), Titanium (Ti), Potassium (K)	
		<b>Total and Dissolved Mercury</b>	EPA Method 245.1, Revision 3 1994 Determination of mercury in water by cold vapor atomic absorption spectrometry
		<b>Bromide</b>	SMEWW-APHA-AWWA-WEF Part 4500-BrB, 24th Ed. 2023 Bromide. Phenol Red Colorimetric Method
		<b>Alkalinity:</b> Bicarbonates & Carbonates	SMEWW-APHA-AWWA-WEF Part 2320 B, 24th Ed, 2023 Titration Method
		<b>Anions:</b> Nitrates, Nitrites, Sulfates, Orthophosphates (Fosfato), Fluorides, Chlorides, Bromide, Nitrates + Nitrites as (NO <sub>3</sub> -N + NO <sub>2</sub> -N)	EPA Method 300.1 Revision 1.0, 1997 Determination of inorganic anions by ion chromatography (Validated)
		<b>Anions:</b> Chlorate, Chlorite, Bromate, Fluor, Fluoride, Monochloroacetate, Dichloroacetate.	EPA Method 300.1 Revision 1.0, 1997 Determination of inorganic anions by ion chromatography (Validated)
		<b>Formaldehyde</b>	ASTM D6303-98 Determination of the formaldehyde monomer concentration in water and wastewater. (Validado)
<b>Total Nitrogen</b>	SMEWW-APHA-AWWA-WEF Part 4500-N C, 24th. Ed. 2023		

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<b>Environmental Inorganics</b> (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)		Determination of Total Nitrogen-Persulfate method
		<b>Silicates</b>	SMEWW-APHA-AWWA-WEF Part 4500 SiO <sub>2</sub> D, 24th Ed. 2023 Spectrophotometric, Molybdosilicate method (Validated)
		<b>VOCs:</b> Acrylonitrile	EPA Method 8260 D Revision 4 June 2018 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
		<b>Total Oil and Grease (TOG) and Total Petroleum Hydrocarbons (TPH)</b>	ASTM D7678-17 Standard Test Method for Total Oil and Grease (TOG) and Total Petroleum Hydrocarbons (TPH) in Water and Wastewater with Solvent Extraction using Mid-IR Laser Spectroscopy
	Saline Water (Sampling & Analysis)	<b>Phosphate</b>	SMEWW-APHA-AWWA-WEF Part 4500-P E, 24th.Ed. 2023 Phosphorus. Ascorbic Acid Method
		<b>Settleable Solids</b>	SMEWW-APHA-AWWA-WEF Part 2540 F, 24th.Ed. 2023 Solids. Settleable Solids
		<b>Wad Cyanide</b>	SMEWW-APHA-AWWA-WEF Part 4500-CN <sup>-</sup> I,E, 24th.Ed. 2023

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Environmental Inorganics (cont'd.)	Saline Water (Sampling & Analysis) (cont'd.)		Cyanide. Weak Acid Dissociable Cyanide. Colorimetric Method
		Sulfate	SMEWW-APHA-AWWA-WEF Part 4500-SO <sub>4</sub> <sup>2-</sup> E, 24th.Ed. 2023 Sulfate. Turbidimetric Method
	Wastewater, Natural Water and Water for use and Human Consumption (Sampling & Analysis)	Acidity	SMEWW-APHA-AWWA-WEF Part 2310 B, 24th.Ed. 2023 Titration Method
	Wastewater, Natural Water, Water for use and Human Consumption, Process Water and Saline Water (Sampling & Analysis)	Total Phosphorus: All Forms	EPA Method 365.3 Approved for NPDES (Issued 1978) Colorimetric, Ascorbic Acid, Two Reagent
Chromium Hexavalent (Cromo VI)		EPA Method 7199, Revision 0 December 1996 Alkaline Digestion for Hexavalent Chromium / Determination of hexavalent chromium by ion chromatography (Validated)	
Environmental Microbiology	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis)	<i>Escherichia Coli</i>	SM 9221 F. / 9221C. Standard Methods 24th.Ed. 2023 <i>Escherichia coli</i> Procedure using Fluorogenic Substrate
		Total Coliform	SM 9221B. / 9221C. Standard Methods 24th.Ed. 2023 Standard Total Coliform Fermentation Technique



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<b>Environmental Microbiology</b> (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)	<b>Fecal Coliform</b>	SM 9221 E. / 9221C. Standard Methods 24th.Ed. 2023 Thermotolerant (Fecal) Coliform Procedure
		<b>Heterotrophic Bacteria</b>	SM 9215 A. / 9215B. Standard Methods 24th.Ed. 2023 Heterotrophic Plate Count Pour Plate Method
	Soils, Sediments, and Sludges (Sampling & Analysis)	<b>Total Coliform</b>	SMEWW-APHA-AWWA-WEF 9221 A, B, C 24th.Ed. 2023 Multiple Tube Fermentation Technique for Members of The Coliform Group. Standard Total Coliform Fermentation Technique
		<b>Fecal Coliform</b>	SMEWW-APHA-AWWA-WEF 9221 A, C, E 24th.Ed. 2023 Multiple-Tube Fermentation Technique for Members of The Coliform Group. Thermotolerant (Fecal) Coliform Procedure
<b>Environmental Field Testing</b>	Wastewater, Natural Water, Water for use and Human Consumption, (Sampling and analysis)	<b>Free residual Chlorine</b>	SM-4500-CI G 24th.Ed. 2023/ USEPA Method 330.5 DOC316.53.01449 Determination of Free Residual Chlorine / DPD Colorimetric Method
		<b>Flow</b>	EPA-B-97-003 84 Nov. 1993 Flow Determination by Empiric Method:



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Environmental Field Testing (continued)			Includes Method Capacity (Flotation), Current Meter Method and Volumetric Method
	Wastewater, Natural Water, Saline Water, Water for use and Human Consumption, Process water, and Waste Water (Sampling and analysis)	Flow	Standard UNE-EN-ISO 748: 2009 Flow measurement of liquids in open channels using flow meters or floats
		Flow	ISO 12242:2012 Measurement of fluid flow in closed conduits — Ultrasonic transit-time meters for liquid.
Environmental Noise	Noise	Measurement of Environment Noise	ISO 1996-1:2016 Acoustic - Description, measurement and assessment of Environmental Noise- Part 1: Basic Quantities and assessment procedure.  ISO 1996-2:2017 Acoustic - Description, measurement and assessment of Environmental Noise- Part 2: Determination of sound pressure levels
Environmental Microbiology	Water for use and Human Consumption, Natural Water, Saline Water, wastewater, Process Water (Sampling & Analysis)	<b>ENTEROBACTERIAS</b>	
		<i>Pseudomonas aeruginosa</i>	SM 9213 F. Standard Methods 24th.Ed. 2023 Multiple-Tube Technique for <i>Pseudomonas aeruginosa</i>
		<i>Salmonella sp.</i>	SM 9274 B Standard Methods 24th.Ed. 2023

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<b>Environmental Microbiology</b> (cont'd.)	Water for use and Human Consumption, Natural Water, Saline Water, wastewater, Process Water (Sampling & Analysis) (cont'd.)		Detection of Pathogenic Bacteria. <i>Salmonella</i> sp.
		<i>Staphylococcus aureus</i>	SM 9213 B. Standard Methods 24th.Ed. 2023 Swimming Pools. 6. Test for <i>Staphylococcus aureus</i>
		<i>Vibrio cholerae</i>	SM 9278B Standard Methods 24th.Ed. 2023 Detection of Pathogenic Bacteria. <i>Vibrio</i>
		<b>PARASITES AND PROTOZOARIES</b> <b>Nematodes</b> <i>Ascaris</i> sp. <i>Ancilostomídeos</i> (Ancylostoma, Necator) <i>Enterobius vermicularis</i> <i>Trichuris</i> sp. <i>Toxocara</i> sp. <i>Capillaria</i> sp. <i>Trichostrongylus</i> sp. <b>Cestodes</b> <i>Dyphylidium</i> sp. <i>Taenia</i> sp. <i>Hymenolepis diminuta</i> <i>Hymenolepis nana</i> <i>Hymenolepis</i> sp. <b>Trematodes</b> <i>Fasciola hepatica</i> <i>Paragonimus</i> sp. <i>Schistosoma</i> sp. <b>Protozoa - Amoebas and Flagellates</b> <i>Endolimax nana</i> <i>Entamoeba histolytica</i> <i>Entamoeba coli</i> <i>Giardia</i> sp. <i>Iodamoeba</i> sp. <i>Chilomastix</i> sp. <i>Blastocystis hominis</i> <i>Balantidium coli</i> <i>Acanthamoeba</i> sp. <b>Coccidia</b> <i>Isospora</i> sp.	Analysis of Wastewater for Use in Agriculture - A Laboratory Manual of Parasitological and Bacteriological Techniques. Rachel M. Ayres & D. Duncan Mara. World Health Organization. 1996 Modified Bailenger Method (Validated)

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Environmental Microbiology (cont'd.)	Water for use and Human Consumption, Natural Water, Saline Water, wastewater, Process Water (Sampling & Analysis) (cont'd.)	<b>Protozoa</b> <i>Giardia duodenalis</i>	Analysis of Wastewater for Use in Agriculture - A Laboratory Manual of Parasitological and Bacteriological Techniques. Rachel M. Ayres & D. Duncan Mara. World Health Organization. 1996 Modified Bailenger Method (Validated)
		<b>HELMINTH EGGS</b> <b>Nematodes</b> <i>Ascaris</i> sp. <i>Uncinarias (Ancylostoma, Strongylus, Necator)</i> <i>Enterobius vermicularis</i> <i>Trichuris</i> sp. <i>Toxocara</i> sp. <i>Capillaria</i> sp. <i>Trichostrongylus</i> sp. <b>Cestodes</b> <i>Dyphylidium</i> sp. <i>Taenia</i> sp. <i>Hymenolepis diminuta</i> <i>Hymenolepis nana</i> <i>Hymenolepis</i> sp. <b>Trematodes</b> <i>Fasciola hepatica</i> <i>Paragonimus</i> sp. <i>Schistosoma</i> sp. <b>Acantocephalus</b> <i>Macracanthorhynchus</i> sp.	Analysis of Wastewater for Use in Agriculture - A Laboratory Manual of Parasitological and Bacteriological Techniques. Rachel M. Ayres & D. Duncan Mara. World Health Organization. 1996 Modified Bailenger Method (Validated)
		<b>HELMINTH EGGS</b> <b>Nematodes</b> <i>Ascaris</i> sp. <i>Uncinarias (Ancylostoma, Strongylus, Necator)</i> <i>Enterobius vermicularis</i> <i>Trichuris</i> sp. <i>Toxocara</i> sp. <i>Capillaria</i> sp. <i>Trichostrongylus</i> sp. <b>Cestodes</b> <i>Dyphylidium</i> sp. <i>Taenia</i> sp. <i>Hymenolepis diminuta</i>	Mexican Standard NMX-AA-113-SCFI 2012 Analysis of water – Determination of the number Helminth Eggs in wastewaters and treated wastewaters by Microscopic Examination-Test Method (Validated)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Environmental Microbiology (cont'd.)	Water for use and Human Consumption, Natural Water, Saline Water, wastewater, Process Water (Sampling & Analysis) (cont'd.)	<i>Hymenolepis nana</i> <i>Hymenolepis</i> sp. <b>Trematodes</b> <i>Fasciola hepatica</i> <i>Paragonimus</i> sp. <i>Schistosoma</i> sp. <b>Acantocephalus</b> <i>Macracanthorhynchus</i> sp	
		<b>Virus</b> (Colifagos)	SM 9224-B, 24th.Ed. 2023 Somatic Coliphages Assay
Environmental Hydrobiology	Water for use and Human Consumption, Natural Water, Saline Water Process Water (Sampling & Analysis)	<b>PHYTOPLANKTON</b>	
		Qualitative Phytoplankton	SMEWW-APHA-AWWA-WEF Part 10200 C.1, 2, // Part 10900, 24th.Ed. 2023 Plankton. Concentration Techniques // Identification of Aquatic Organisms
		Quantitative Phytoplankton	SMEWW-APHA-AWWA-WEF Part 10200 F, items: F.2.a, F.2.b and F.2.c.1, 24th.Ed. 2023 Plankton. Phytoplankton Counting Techniques
		<b>ZOOPLANKTON</b>	
		Qualitative Zooplankton	SMEWW-APHA-AWWA-WEF Part 10200 G.1, // Part 10900, 24th.Ed. 2023 Plankton. Zooplankton Counting Techniques. Subsampling. Identification of Aquatic Organisms
		Quantitative Zooplankton	SMEWW-APHA-AWWA-WEF Part 10200 G. 24th.Ed. 2023

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<b>Environmental Hydrobiology</b> (cont'd.)	Water for use and Human Consumption, Natural Water, Saline Water (Sampling & Analysis) (cont'd.)		Plankton. Zooplankton Counting Techniques
		<b>ALGAE; LARVAE OR FREE LIFE ORGANISMS (LIVING ORGANISMS)</b>	
	Phytoplankton (Algae) + Zooplankton (Protozoa, rotiferous copepods and nematodes)	SMEWW-APHA-AWWA-WEF Part 10200 C.1.2, F.2. a, c.1, 24th.Ed. 2023 / SMEWW-APHAWWA-WEF Part 10200 G, 24th.Ed. 2023 Plankton. Concentration Techniques. Phytoplankton Counting Techniques / Plankton. Zooplankton. Counting Techniques	
	Epicontinental sediments, Estuarine sediments, Marine sediments (Sampling & Analysis)	<b>MACROBENTHOS</b>	
		Macrobenthos or Benthic Macroinvertebrates	SMEWW-APHA-AWWA-WEF Part 10500 C, 24th.Ed. 2023 Benthic Macroinvertebrates. Sample Processing and Analysis
Natural Water Process Water, Saline Water (Sampling & Analysis)	Periphyton (Perifiton)	SMEWW-APHA-AWWA-WEF Part 10300 C, 24th.Ed. 2023 Periphyton counting by Sedgwick-Rafter Counts - Inverted Microscope Method	
Natural Water, Saline Water and continental (Sampling & Analysis)	Necton	SMEWW-APHA-AWWA-WEF Part 10600, 24th.Ed. 2023 Necton Fishes	
<b>Environmental Field Testing</b>	Water for use and Human Consumption,	Total chlorine	SM-4500-CI G 24th.Ed. 2023 / USEPA Method



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<b>Environmental Field Testing</b> (continued)	Wastewater, Natural Water, Saline Water and Process Water (Sampling & Analysis)		330.5 DOC316-53.01449 Determination of Total Chlorine / DPD Colorimetric Method
		Transparency	ISO 7027-2-2019 Water quality — Determination of turbidity — Part 2: Semi-quantitative methods for the assessment of transparency of waters
	Water for use and Human Consumption, Wastewater, Natural Water, Saline Water and Process Water (Sampling & Analysis) (cont'd.)	Floating Materials of Anthropogenic Origin	NMX-AA-006-SCFI-2010 Water Analysis - Determination of floatable Material in Wastewaters and Treated Wastewaters -Test Method
		Odor	SMEWW-APHA-AWWA-WEF Part - 2150 B, 24th.Ed. 2023 Threshold Odor Test
		Flavor	SMEWW-APHA-AWWA-WEF Part - 2160 B, 24th.Ed. 2023 Flavor Threshold Test (FTT)
		Color	SMEWW-APHA-AWWA-WEF Part 2120-C, 24th.Ed. 2023 Color. Spectrophotometric-Single-Wavelength Method (Proposed)
	Vibration	Vibration environmental	DIN 4150-3; DIN 4150-2; DIN 4150-1 Part 3: Effects on structures, Part 2: Effects on persons in buildings, Part 1:



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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			Prediction of vibration parameters.
<b>Metals in Vegetable Tissues</b>	Vegetable Tissues (Sampling & Analysis)	<p><b>Total Metals</b></p> <p><b>Metals</b> Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Calcium (Ca) Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Lithium (Li), Magnesium (Mg), Manganese (Mn), Mercury (Hg), Molybdenum (Mo), Nickel (Ni), Phosphorus (P), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Strontium (Sr), Thallium (Tl), Thorium (Th), Uranium (U), Vanadium (V), Zinc (Zn).</p> <p><b>Mercury</b> Hg</p>	<p>EPA 200.3 Review 1.0, April 1991 // EPA 200.7 Review 4.4, 1994 (Validated) Sample Preparation Procedure for Spectrochemical Determination of total Recoverable Elements in Biological Tissues. // Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry</p> <p>EPA Method 200.3 Review 1.0, April 1991 // EPA Method 245.1 Revision 3, 1994 (Validated) Sample Preparation Procedure for Spectrochemical Determination of total Recoverable Elements in Biological Tissues. //Determination of Mercury in Water – by Cold Vapor Atomic Absorption Spectrometry</p>
<b>Metals in Biological Tissues</b>	Biological Tissues (Sampling & Analysis)	<p><b>Total Metals</b></p> <p><b>Metals</b> Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Calcium (Ca) Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Lithium (Li), Magnesium (Mg), Manganese (Mn), Mercury (Hg), Molybdenum</p>	<p>EPA Method 200.3 Review 1.0, April 1991 // EPA Method 200.7 Revision 4.4, 1994 Sample Preparation Procedure for Spectrochemical Determination of total Recoverable</p>

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<b>Metals in Biological Tissues</b> (cont'd.)	Biological Tissues (Sampling & Analysis) (cont'd.)	(Mo), Nickel (Ni), Phosphorus (P), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Strontium (Sr), Thallium (Tl), Thorium (Th), Uranium (U), Vanadium (V), Zinc (Zn).  <b>Mercury</b> Hg	Elements in Biological Tissues // Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry  EPA Method 200.3 Review 1.0, April 1991 // EPA Method 245.1 Revision 3, 1994 Sample Preparation Procedure for Spectrochemical Determination of total Recoverable Elements in Biological Tissues. //Determination of Mercury in Water – by Cold Vapor Atomic Absorption Spectrometry
<b>PAHs in Vegetable Tissue</b>	Vegetable Tissue (Sampling & Analysis)	<b>PAHs</b>  Naphthalene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)Anthracene, Chrysene, Benzo(b)Fluoranthene, Benzo(k)Fluoranthene, Benzo(a)pyrene, Indeno[1,2,3-c,d]Pyrene, Dibenzo[a,h]Anthracene, Benzo[g,h,i]Perylene	ETL 171112 (Validated) Method AOAC 2014.08 Polycyclic Aromatic Hydrocarbons in Seafood-by GC/MS
<b>PAHs in Biological Tissue</b>	Biological Tissue (Sampling & Analysis)	<b>PAHs</b>  Naphthalene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)Anthracene, Chrysene, Benzo(b)Fluoranthene, Benzo(k)Fluoranthene, Benzo(a)pyrene, Indeno[1,2,3-	Method AOAC 2014.08 (Validated) Polycyclic Aromatic Hydrocarbons in Seafood-by GC/MS

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		c,d]Pyrene, Dibenzo[a,h]Anthracene, Benzo[g,h,i]Perylene Acenaphthylene, Acenaphthene		
Occupational Health – Inorganic	(Sampling & Analysis)	Silica	NIOSH 7601. Issue 3. 2003 Silica, Crystalline, by VIS	
		Asbestos	NIOSH 7400. Issue 3. 2019 Asbestos and Other Fibers by PCM	
Occupational Health – Microbiology	Plate Exhibition (Sampling & Analysis)	Total Coliforms Fecal Coliforms <i>Escherichia coli</i> count Mesophilic Aerobic Microorganism Count Mold and Yeast Count <i>Salmonella</i> sp. <i>Pseudomonas aeruginosa</i> count <i>Staphylococcus aureus</i> count	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 3: Microbiological Monitoring of the Food Processing Environment. Chapter.3.8 Surface Contact Methods. 3.83 Agar Contact Method	
		Irregular Inert Surfaces (Sampling & Analysis)	<b>HISOPO METHOD</b>	
			Total Coliforms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 9: Enterobacteriaceae, Coliforms, and <i>Escherichia coli</i> as Quality and Safety Indicators // RM No 461-2007-MINSA
			Fecal Coliforms	
<i>Escherichia coli</i>				
		Mesophilic Aerobic Microorganisms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015	

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Occupational Health - Microbiology (cont'd.)	Irregular Inert Surfaces (Sampling & Analysis) (cont'd.)		Chapter 8: Mesophilic Aerobic Plate Count // RM No 461-2007-MINSA
		Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds // RM No 461-2007-MINSA
		<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i> // RM No 461-2007-MINSA
		<i>Pseudomonas aeruginosa</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 5: Cultural Methods for the Enrichment and Isolation of Microorganisms
		<i>Staphylococcus aureus</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 39: <i>Staphylococcus aureus</i> and Staphylococcal Enterotoxins// RM No 461-2007-MINSA
		<b>HISOPO METHOD</b>	

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Occupational Health - Microbiology (cont'd.)	Regular Inert Surfaces (Sampling & Analysis)	Total Coliforms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 9: Enterobacteriaceae, Coliforms, and <i>Escherichia coli</i> as Quality and Safety Indicators // RM No 461-2007-MINSA
		Fecal Coliforms	
		<i>Escherichia coli</i>	
		Mesophilic Aerobic Microorganisms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 8: Mesophilic Aerobic Plate Count // RM No 461-2007-MINSA
		Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds // RM No 461-2007-MINSA
		<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i> // RM No 461-2007-MINSA
<i>Pseudomonas aeruginosa</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 5: Cultural Methods for the		

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Occupational Health - Microbiology (cont'd.)	Regular Inert Surfaces (Sampling & Analysis) (continued)		Enrichment and Isolation of Microorganisms
		<i>Staphylococcus aureus</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 39: <i>Staphylococcus aureus</i> and Staphylococcal Enterotoxins // RM No 461-2007-MINSA
	Surfaces Live (Sampling & Analysis)	<b>LIVE RINSE METHOD</b>	
		Total Coliforms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 9: Enterobacteriaceae, Coliforms, and <i>Escherichia coli</i> as Quality and Safety Indicators // RM No 461-2007-MINSA
		Fecal Coliforms	
		<i>Escherichia coli</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 8: Mesophilic Aerobic Plate Count // RM No 461-2007-MINSA
		Mesophilic Aerobic Microorganisms	
Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds // RM No 461-2007-MINSA		



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Occupational Health - Microbiology (cont'd.)	Surfaces Live (Sampling & Analysis) (continued)	<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i> // RM No 461-2007-MINSA	
		<i>Pseudomonas aeruginosa</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 5: Cultural Methods for the Enrichment and Isolation of Microorganisms	
		<i>Staphylococcus aureus</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 39: <i>Staphylococcus aureus</i> and Staphylococcal Enterotoxins // RM No 461-2007-MINSA	
	Regular Inert Surfaces (Sampling & Analysis)	<b>SPONGES METHOD</b>		
		Total Coliforms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 9: Enterobacteriaceae, Coliforms, and <i>Escherichia coli</i> as Quality and Safety Indicators // RM No 461-2007-MINSA	
		Fecal Coliforms		
<i>Escherichia coli</i>		Compendium of Methods for the		
Mesophilic Aerobic Microorganisms				

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Occupational Health - Microbiology (cont'd.)	Regular Inert Surfaces (Sampling & Analysis) (continued)		Microbiological Examination of foods. 5th Edition. 2015 Chapter 8: Mesophilic Aerobic Plate Count // RM No 461-2007-MINSA
		Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds // RM No 461-2007-MINSA
		<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i> // RM No 461-2007-MINSA
		<i>Pseudomonas aeruginosa</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 5: Cultural Methods for the Enrichment and Isolation of Microorganisms
		<i>Staphylococcus aureus</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 39: <i>Staphylococcus aureus</i> and Staphylococcal Enterotoxins // RM No 461-2007-MINSA

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Occupational Health - Microbiology (cont'd.)	Irregular Inert Surfaces (Sampling & Analysis)	<b>SPONGES METHOD</b>	
		Total Coliforms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 9: Enterobacteriaceae, Coliforms, and <i>Escherichia coli</i> as Quality and Safety Indicators // RM No 461-2007-MINSA
		Fecal Coliforms	
		<i>Escherichia coli</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 8: Mesophilic Aerobic Plate Count // RM No 461-2007-MINSA
		Mesophilic Aerobic Microorganisms	
		Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds // RM No 461-2007-MINSA
<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i> // RM No 461-2007-MINSA		
<i>Pseudomonas aeruginosa</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015		

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Occupational Health - Microbiology (cont'd.)	Irregular Inert Surfaces (Sampling & Analysis) (continued)		Chapter 5: Cultural Methods for the Enrichment and Isolation of Microorganisms
		<i>Staphylococcus aureus</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 39: <i>Staphylococcus aureus</i> and Staphylococcal Enterotoxins // RM No 461-2007-MINSA
Occupational Health	Noise	Occupational noise (Determination of exposure to noise at work)	UNE – EN ISO 9612 (2009). Acoustics - Determination of occupational noise exposure - Engineering method Sound Level meter (portable)
	Ergonomics	Ergonomics of thermal stress in hot environments	ISO 7243:2017(E) Ergonomic of the thermal environment – Assessment of heat stress using the WBGT (wet bulb globe temperature) index
		Ergonomics of thermal stress of cold stress	ISO 11079:2007 Ergonomics of the thermal environment - Determination and interpretation of cold stress when using required clothing insulation (IREQ) and local cooling effects
	Lighting	Interior Lighting	UNE-EN 12464-1(2012). Lighting of workplaces. Part 1: Workplaces indoors.

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Occupational Health (cont'd.)			UNE-EN 12464-2 (2014). Lighting of workplaces. Part 2: External workplaces
	Vibration	Measurement and evaluation of human exposure to hand transmitted vibration	UNE – EN ISO 5349-2 (2002) Mechanical vibration - Measurement and evaluation of human exposure to hand-transmitted vibration - Part 2: Practical guidance for measurement at the workplace
		Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration	NTP – ISO 2631-1(2016) Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 1: General requirement
		Vibration in buildings	NTP-ISO 2631-2 (2017) Vibrations And Mechanical Shocks. Evaluation of human exposure to whole-body vibrations. Part 2: Vibration in buildings (1 Hz to 80 Hz)
	Radiation	Non-ionizing radiation	UNE-EN 62110:2013 Electric and magnetic fields generated by alternating current power systems. Procedures for measuring the levels of exposure of the general public
		Non-ionizing radiation	IEC 61786-2:2014 Measurement of DC magnetic, AC magnetic and AC electric fields from 1

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Occupational Health (cont'd.)			Hz to 100 kHz with regard to exposure of human beings - Part 2: Basic standard for measurements
	Indoor Air (Sampling & Analysis)	<b>Volatile Organic Compounds (Screening) (VOCs)</b>  Benzene Trichloroethene Toluene Tetrachloroethene Chlorobenzene Ethylbenzene m,p-Xylene o-Xylene Styrene Isopropylbenzene Bromobenzene n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene p-Isopropyltoluene 1,2-Dichlorobenzene n-Butylbenzene 1,2,4-Trichlorobenzene Naphthalene 1,2,3-Trichlorobenzene	ASTM D3687-19 // ASTM D3686-20 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.//Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method)
		<b>Volatile Organic Compounds (Screening) (BTEX)</b>  Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene	ASTM D3687-19 // ASTM D3686-20 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.//Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal



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Occupational Health (cont'd.)			Tube Adsorption Method)
	Indoor Air (field sampling)	<b>Volatile Organic Compounds (Direct Measurement) (VOCs)</b>  Benzene Trichloroethene Toluene Tetrachloroethene Chlorobenzene Ethylbenzene m,p-Xylene o-Xylene Styrene Isopropylbenzene Bromobenzene 4-Chlorotoluene 1,3,5-Trimethylbenzene Tert-Butylbenzene 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene Naphthalene	MultiRAE User's Guide Rev C, May 2013, P/N: M01-4003-000  Technical Note TN-106 RAE Systems Inc. Electrochemical technique with photoionization detector (Validate)
		<b>Volatile Organic Compounds (Direct Measurement) (BTEX)</b>  Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene	MultiRAE User's Guide Rev C, May 2013, P/N: M01-4003-000  Technical Note TN-106 RAE Systems Inc. Electrochemical technique with photoionization detector (Validate)
Indoor Air (Only Analysis)	<b>Volatile Organic Compounds (Screening) (VOCs)</b>  Benzene Trichloroethene Toluene Tetrachloroethene Chlorobenzene Ethylbenzene m,p-Xylene o-Xylene Styrene Isopropylbenzene Bromobenzene	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method  ASTM D3687-19 Standard Test	

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Occupational Health (cont'd.)	Indoor Air (Only Analysis) (cont'd.)	4-Chlorotoluene 1,3,5-Trimethylbenzene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene p-Isopropyltoluene 1,2-Dichlorobenzene n-Butylbenzene 1,2,4-Trichlorobenzene Naphthalene 1,2,3-Trichlorobenzene	Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method (cont'd.)	
		Indoor Air	<b>Respirable Particulate Filter Weighing - Gravimetric</b>	NIOSH 0600 Issue 3. 1998 Particulates not otherwise regulated, Respirable (Validated)
			<b>Total Particulate Filter Weighing - Gravimetric</b>	NIOSH 0500 Issue 2. 1994 Particulates Not Otherwise regulated, total (Validated)
			<b>Respirable Particulate</b>	NIOSH 0600 Issue 3. 1998 Particulates not otherwise regulated, Respirable
			<b>Total Particulate or Inhalable</b>	NIOSH 0500 Issue 2. 1994 Particulates Not Otherwise regulated, total
			<b>Metals in Respirable Particulate (Filter)</b> Aluminum(Al), Antimony(Sb), Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag), Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn)	NIOSH Method 7303 Issue 1. 2003 Elements by ICP (Hot Block/ HCl/ HNO3 Digestion)
<b>Metals in Total Particulate (Filter) -</b> Aluminum(Al), Antimony(Sb),	NIOSH Method 7303 Issue 1. 2003			

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<b>Occupational Health</b> (cont'd.)	Indoor Air (cont'd.)	Arsenic(As), Barium(Ba), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Copper(Cu), Lead(Pb), Manganese(Mn), Molybdenum(Mo), Nickel(Ni), Selenium(Se), Silver(Ag), Thallium(Tl), Thorium(Th), Uranium(U), Vanadium(V), Zinc(Zn).	Elements by ICP (Hot Block/ HCl/ HNO3 Digestion)
<b>TPH in Biological Tissue</b>	Biological Tissue (Sampling & Analysis)	Total Petroleum Hydrocarbons (TPH): Fishes, Range: C10-C40	AOAC 2014.08 (Validated) (Modified) Polycyclic Aromatic Hydrocarbons in Seafood-by GC/MS
<b>Microbiology</b>	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis)	<i>Enterococcus</i> ( <i>Enterococcus faecalis</i> count) ( <i>Enterococcus Intestinalis</i> count)	SMEWW-APHA-AWWA-WEF Part 9230 B, 24th Ed, 2023 Fecal enterococcus/ Streptococcus Groups by Multiple-Tube Technique