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ENVIRONMENTAL TESTING LABORATORY S.A.C.

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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)	Polychlorinated Biphenyls (PCBs): 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
		PAHs: 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
		Organochlorine Pesticides: 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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Environmental Organics (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
		BTEX: (Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, p-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
		Total Petroleum Hydrocarbons (TPH) 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
		Oil & Grease	EPA Method 9071B Rev. 2 n-Hexane Extractable Material (HEM)
		Color	Official Mexican Standard NOM-021-RECNAT-2000 Method AS-22 Munsell Soil Color Chart page 46
pH	EPA Method 9045 D Solid and Waste pH. (Validated)		
Environmental Inorganics	Soils, Sediments, and Sludges (Sampling & Analysis)	Total Metals: 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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Environmental Inorganics (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
		Actual total barium	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)
		Extractable barium	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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Environmental Inorganics (cont'd.)	Soils, Sediments, and Sludges (Sampling & Analysis) (cont'd.)		Spectrometry (Validated)
		Cyanide Free	EPA Method 9013 A Rev 2 July 2014. // SMEWW-APHA-AWWA-WEF Part 4500-CN-F, 23rd Ed. 2017 Cyanide extraction procedure for solids and oils. // Cyanide selective electrode method
		Total Mercury	EPA Method 7471B Rev 2 February 2007 Mercury in solid or semisolid waste (manual cold-vapor technique)
		Chromium Hexavalent	DIN-19734 (1999-01) Determining the chromium (VI) content of soil in phosphate buffered extract
		Total Metals: 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
		Extractable Sulfides	EPA Method 9031 Rev 0 July 1992 Determination extractable Sulfides in solids by distillation/Idometric Titration
		Organic matter	Official Mexican Standard NOM-021-
Total Organic Carbon	REC-NAT-2000,2002.		

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Environmental Inorganics (cont'd.)	Soils, Sediments, and Sludges (Sampling & Analysis) (cont'd.)	Total Organic Carbon (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
		Extractable sulfates	Methods of analysis recommended for the soils of Chile. Method 8.2 Revision 2006 Saturation extract and determination by colorimetry with barium chromate (validated)
		Total Cyanide	EPA Method 9013A Revision 2 July 2014. // SMEWW-APHA-AWWA-WEF Part 4500-CN ⁻ C, E, 23rd Ed. 2017 Cyanide Extraction Procedure for solids and oils. // Cyanide. Total Cyanide after Distillation. Colorimetric Method
		Chromium Hexavalent (Cromo VI)	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.)		Granulometry	NTP 339.128.1999 (revised 2019) Granulometric Analysis in Soils
	<ul style="list-style-type: none"> • Hydrated Lime • Live Lime • Limestones • Raw flour feeding the furnace for cement manufacturing • Raw material for the manufacture of lime. 	Pyritic sulfur (expresado como SO ₃)	NTP 334.131:2018 Limestone, quicklime, and hydrated lime. Methods for chemical analysis. – Sulphur (Total + Sulphur Trioxide) - Validated
		Pyritic sulfur (expresado como SO ₃)	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)	Weighing Filter PM-10 High Volume - 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)
		Weighing Filter PM-2.5 High Volume - Gravimetric	EPA/625/R-96/010a Compendium Method IO-2.1 June 1999 //Compendium

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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (analysis) (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)
		Weighing Filter PM-10 Low Volume – 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)
		Weighing Filter PTS High Volume - Gravimetric	EPA 40 CFR Appendix B to Part 50, 2021 // EPA/625/R-96/010a

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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (analysis) (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)
		Weighing filter PM-2.5 LOW VOLUME – Gravimetric	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)	Particulate Matter PM-10 (High Volume)	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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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)	Particulate Matter PM-2.5 (High Volume)	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
		Particulate Matter PM-10 (Low Volume)	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
		Suspended Particulate Matter (PTS) High Volume	EPA 40 CFR Appendix B to Part

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Environmental Air (cont'd.)	Air (field sampling & analysis) (continued)		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
		Particulate Matter PM- 2.5 (Low Volume)	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
		Metals Filter PM 10 High Volume – 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)	Metals in Filter PM 2.5 High Volume – 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
		Metals in Filter PM 10 Low Volume –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
		Volatile Organic Compounds 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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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)		Compound Vapors (Activated Charcoal Tube Adsorption Method)
		Volatile Organic Compounds Benzene (Only Analysis)	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method
		Total Hydrocarbons expressed as Hexane (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 Compound Vapors (Activated Charcoal Tube Adsorption Method)
		Total Hydrocarbons expressed as Hexane (Only Analysis)	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method
		Metals in Filter PTS High Volume 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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Environmental Air 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)
		Metals in Filter PM 2.5 Low Volume 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
		Total Gaseous Mercury (Hg) in Quality Air	ETL-171129 (Validated) Absorbent Tube Method (Hopcalite)-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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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)	Total Gaseous Mercury (Hg) in Quality Air (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
		Volatile Organic Compounds (Screening) (BTEX) 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
		Volatile Organic Compounds (Sampling & Analysis) 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)
		Volatile Organic Compounds (Only Analysis)	ASTM D3687-19 Standard Test Method for Analysis

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Environmental Air 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
		Analysis of acid mist (Acid Fog Analysis)	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
		PM 2.5 (Low Volume)	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
		PM 10 (Low Volume)	AS/NZS 3580.9.9:2017 Methods for sampling and analysis of ambient air.

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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (field sampling & analysis) (continued)	PM 10 (Low Volume) (cont'd.)	Method 9.9: Determination of suspended particulate matter-PM10 low volume sampler-Gravimetric method
		Nitrogen dioxide NO₂	ASTM D1607-91 (Reapproved 2018) Standard Test Method for Nitrogen Dioxide content of the Atmosphere (Griess-Saltzman Reaction) (Validated)
	Air (field sampling)	Sulfur Dioxide (SO₂) in Quality Air	NTP - ISO 10498, 2017-02-27 / 2 ^a Edition NTP-ISO 10498:2017/COR 1:2017 CORRIGENDA. 1. 1 ^a Edition Ambient air Determination of sulfur dioxide Ultraviolet Fluorescence Method Pulsed Fluorescence SO ₂ -H ₂ S-CS Analyzer Hydrogen Sulfide-Sulfur Dioxide Analyzer
		Hydrogen Sulfide (H₂S) in Quality Air	ETL-171130 (Validated) Ambient air Determination of sulfur dioxide NTP - ISO 10498, 2017-02-27 / 2nd Edition Ambient air Determination of sulfur dioxide

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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (field sampling) (cont'd.)		Ultraviolet Fluorescence Method NTP-ISO 10498:2017/COR 1:2017 CORRIGENDA. 1. 1 ^a Edition Ambient air Determination of sulfur dioxide Ultraviolet Fluorescence Method Pulsed Fluorescence SO ₂ -H ₂ S-CS Analyzer Hydrogen Sulfide-Sulfur Dioxide Analyzer
		Carbon Monoxide (CO) in Quality Air	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
		Nitrogen Dioxide (NO₂), Nitric Oxide (NO), Nitrogen Oxides (NO_x) in Quality Air	EPA CFR 40 Part 50 App. F Measurement Principle and Calibration Procedure for the Measurement of Nitrogen Dioxide in

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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (field sampling) (cont'd.)		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
		Ozone (O3) in Quality Air	EPA CFR 40 Part 50 App D – 2021 Measurement Principle and Calibration Procedure for the Measurement of Ozone in the Atmosphere
		Ozone (O3)	NTP-ISO 13964:2020 1st Edition Air quality — Determination of ozone in ambient air — Ultraviolet photometric method
		Meteorological parameters: 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
	Air (Sampling & analysis)	Benzene	NTP 712.107:2020 Environmental Quality Monitoring Benzene concentration measurement method in ambient air part 2 Aspiration sampling followed by solvent desorption and gas

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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (Sampling & analysis) (cont'd.)		chromatography 1st edition
		Benzene (C ₆ H ₆), Sulfur Dioxide (SO ₂), Nitrogen Dioxide (NO ₂), Ozone (O ₃), Carbon Monoxide (CO)	EN 13528-1:2003(confirmed 2017) Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 1: General requirements
		Benzene (C ₆ H ₆), Sulfur Dioxide (SO ₂), Nitrogen Dioxide (NO ₂), Ozone (O ₃), Carbon Monoxide (CO) (continued)	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
		PM 10 (High and Low Volume)	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

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Environmental Air Stationary and ambient air monitoring (cont'd.)	Air (Sampling & analysis) (cont'd.)	PM 2.5 (Low Volume)	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
		PM 1 (Low Volume)	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
		Coarse fraction (PM_{10-2.5})	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 PM10 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
		Lead (Pb), in PM 10	NTP 712.105:2019 Environmental Quality Monitoring. Air quality Determination of lead content in airborne particulate matter

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Environmental Air Stationary and ambient air monitoring (cont'd.)			captured in filters. Atomic absorption spectrometry method. 1st Edition
Environmental – Air Emissions	Emissions (Only Sampling)	Carbon Monoxide (CO)	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)
		Carbon Monoxide (CO) (continued)	NTP 900.010:2021 ATMOSPHERIC EMISSIONS MONITORING. Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)
		Sulfur Dioxide (SO ₂)	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)
		Carbon Dioxide (CO ₂) and Oxygen (O ₂)	EPA Method 3A (2021) Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure) NTP 712.111:2021

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Environmental – Air Emissions (continued)	Emissions (Only Sampling) (continued)		MONITORING OF ATMOSPHERIC EMISSIONS. Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)
		Total organic compounds	EPA CFR Title 40, Appendix A-7, Part 60. Method 25A: 2021 Determination of total gaseous organic concentration using a flame ionization analyzer.
		Total gaseous nonmethane organic compounds (TGNMO)	EPA-40 CFR, Part 60, Appendix A-7, Method 25: 2021 Determination of total gaseous nonmethane organic emissions as carbon
		NOx in Gaseous Emissions (NO; NO2)	EPA 40 CFR Appendix A-5 to Part 60, Method 7E: 2021 Determination of nitrogen oxides emissions from stationary sources (instrumental analyzer procedure)
		Velocity and Volumetric Flow	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)
Velocity and Volumetric Flow	NTP 900.002; 2021, Determination of Stack Gas Velocity		

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Environmental – Air Emissions (continued)	Emissions (Only Sampling) (continued)		and Volumetric Flow Rate (Type S Pitot Tube)
		Velocity and Volumetric Flow	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)
		Carbon dioxide, methane, nitrogen, and oxygen	EPA 40 CFR Appendix A-2 to Part 60, Method 3C: 2021, Determination of carbon dioxide, methane, nitrogen, and oxygen from stationary sources
		Opacity	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)
		Opacity	ASTM D2156-09 Standard Test Method for Smoke Density in Flue Gases from Burning Distillate Fuels
	Nitrogen oxides NOX (NO y NO2)	EPA 7E, Determination of nitrogen oxides emissions from stationary sources (instrumental analyzer procedure)	
	Emissions (field sampling & analysis)	NOx in Gaseous Emissions (NO y NO2)	EPA Method 7C, October 7, 2020 Determination of Nitrogen Oxide

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Environmental – Air Emissions (continued)	Emissions (field sampling & analysis) (continued)		Emissions from Stationary Sources (Alkaline Permanganate/Colorimetric Method)
		NOx in Gaseous Emissions (NO y NO2)	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
		Particulate Material	EPA 40 CFR, Appendix A-3 to Part 60, Method 5: 2021 Determination of particulate matter emissions from stationary sources NTP 900.005: 2021 Determination of particulate matter emissions from stationary sources
		Polychlorinated dibenzo-pdioxins (PCDD's) and polychlorinated dibenzofurans (PCDF's)	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
		Sox in Gaseous Emissions	EPA Method 8, 2021 Determination of Sulfuric Acid and Sulfur Dioxide

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Environmental – Air Emissions (continued)	Emissions (field sampling & analysis) (continued)		Emissions from Stationary Sources
		Sulfur Dioxide in Gaseous Emissions	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.
		TRS (Dimethyl disulfide, Dimethyl sulfide, Hydrogen Sulfide, Methyl mercaptan, Carbonyl Sulfide	EPA Method 16A 2021 Determination of Total Reduced Sulfur Emissions From Stationary Sources (Impinger Technique)
		Carbon disulfide (CS₂) Carbonyl sulfide (COS) Hydrogen sulfide (H₂S)	EPA 40 CFR Appendix A-5 to Part 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
		Hydrogen Chloride (HCl) Hydrogen Bromide (HBr) Hydrogen Fluoride (HF) Chlorine (Cl₂) Bromine (Br₂)	EPA CFR Title 40, Part 60. Appendix A-8, Method 26A: 2021 Determination of hydrogen halide and halogen emissions from stationary

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Environmental – Air Emissions (continued)	Emissions (field sampling & analysis) (continued)		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.
		Formaldehyde	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 63, Method 316: 2021 Sampling and analysis for formaldehyde emissions from stationary sources in the mineral wool and wool fiberglass industries.
		Ammonia	EPA 207.1 Determination of ammonia emissions from stationary sources. CTM – 027 Determination of ammonia emissions from stationary sources.

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Environmental – Air Emissions (continued)	Emissions (field sampling & analysis) (continued)	Hydrogen Cyanide	OTM 29:2011 Sampling and analysis for hydrogen cyanide emissions from stationary sources.
		COV (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 másica de carbono orgánico gaseoso total - Método detector de ionización de llama continua (Validated)
		Total hydrocarbons/ Total organic hydrocarbons	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,

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Environmental – Air Emissions (continued)			and oxygen from stationary sources (validated method)
	Emissions	<p>Total Metals in Gaseous Emissions Metals 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).</p> <p>Vanadium (V), Iron (Fe), Tin (Sn) and Titanium (Ti)</p> <p>Mercury Mercury (Hg)</p>	<p>EPA Method 29 (2021) Determination of Metals Emissions from Stationary Sources - by Inductively Coupled Plasma-Atomic Emission Spectrometry</p> <p>EPA Method 29 (2021) Determination of Metals Emissions from Stationary Sources - by Inductively Coupled Plasma-Atomic Emission Spectrometry (Validated)</p> <p>EPA Method 245.1 Revision 3, 1994 Determination of Mercury in Water – by Cold Vapor Atomic Absorption Spectrometry</p>
		<p>SO2 in Gaseous Emissions</p>	<p>ETL-171010 (Validated)</p> <p>CTM 022 OAQPS, EPA 5/1995 Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Emissions from Natural Gas-Fired / Electrochemical Cells_TESTO</p> <p>CTM 030 Research Institute Method GRI-</p>

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Environmental – Air Emissions (continued)	Emissions (continued)		96/0008, Revision 7, October 13, 1997 Engines, Boilers and Process Heaters Using Portable Analyzers Gas / Electrochemical Cells_TESTO
		H2S in Gaseous Emissions	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
		VOCs in Gaseous Emission 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

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Environmental – Air Emissions (continued)	Emissions (continued)	Gases NO _x (NO y NO ₂) - CO - O ₂ in Gaseous Emissions	CTM 034: Test Method Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure)
Environmental Organics	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis)	Polynuclear Aromatic Hydrocarbons PAHs: 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
		Phthalate Esters: 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
		PCBs: 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

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Environmental Organics (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)	Organochlorine Pesticides: Aldrin, α -BHC, β -BHC, γ -BHC (Lindane), δ -BHC, α -Chlordane; γ -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), Aldrin + Dieldrin, Heptachlor + Heptachlor Epoxide, Chlordane	EPA Method 8081B Revision 2 February 2007 // EPA Method 3510C Revision 3 December 1996 Organochlorine Pesticides by Gas Chromatography Separatory funnel liquid-liquid extraction
		BTEX: Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, p-Xylene, m,p-Xylenes, 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
		Trihalomethanes: 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
		Volatile Organic Compounds: 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-	EPA Method 8260D Rev 4 June 2018. // EPA Method 5021A Revision 2 July 2014 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry

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Environmental Organics (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)	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-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	(GC/MS). // Volatile Organic Compounds in Various Sample Matrices using Equilibrium Headspace Analysis
		Volatile Organic Compounds: 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)
		Total Petroleum Hydrocarbons 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)
		Phenols: 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

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Environmental Organics (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)	Organophosphorus Pesticides: Dimethoate, Disulfoton, Famphur, Methyl Parathion; O, O, O-Triethylphosphorothioate, Parathion, Phorate, Sulfotep, Thionazin, Malathion	// Separatory funnel liquid-liquid extraction 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
		Organochlorine Pesticides and Organophosphorus Pesticides: Aldrin, α -BHC, β -BHC, γ -BHC (Lindane), δ -BHC, α -Chlordane; γ -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
		Total Petroleum Hydrocarbons (TPH) 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
		Dissolved or emulsed Hydrocarbon, Mineral oil	EPA 8015 C/ EPA 3510, Nonhalogenated Organics by Gas Chromatography – Semi-volatile Organic Compound
Environmental Inorganics	Wastewater, Natural Water, Water for	Total and Dissolved Metals:	EPA Method 200.8 Revision 5.4 1994

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	use and Human Consumption, Saline Water and Process Water (Sampling & Analysis)	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) Strontium (Sr), Tin (Sn), Iron (Fe), Phosphorus (P), Lithium (Li), Magnesium (Mg), Bismuth (Bi), Boron (B), Calcium (Ca), Sodium (Na), Titanium (Ti), Potassium (K)	Determination of trace elements in waters and wastes by Inductively Coupled Plasma-Mass Spectrometry
		Total and Dissolved Mercury	EPA Method 245.1, Revision 3 1994 Determination of mercury in water by cold vapor atomic absorption spectrometry
		Bromide	SMEWW-APHA-AWWA-WEF Part 4500-BrB, 23rd Ed. 2017 Bromide. Phenol Red Colorimetric Method
		Alkalinity: Bicarbonates & Carbonates	SMEWW-APHA-AWWA-WEF Part 2320 B, 23rd Ed, 2017 Titration Method
		Anions: Nitrates, Nitrites, Sulfates, Orthophosphates (Fosfato), Fluorides, Chlorides, Bromide, Nitrates + Nitrites as (NO ₃ -N + NO ₂ -N)	EPA Method 300.1 Revision 1.0, 1997 Determination of inorganic anions by ion chromatography (Validated)
		Anions: Chlorate, Chlorite, Bromate, Fluor, Fluoride, Monochloroacetate, Dichloroacetate.	EPA Method 300.1 Revision 1.0, 1997 Determination of inorganic anions by ion chromatography (Validated)
		Formaldehyde	ASTM D6303-98 Determination of the

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Environmental Inorganics (cont'd.)	Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water (Sampling & Analysis) (cont'd.)		formaldehyde monomer concentration in water and wastewater. (Validado)
		Total Nitrogen	SMEWW-APHA-AWWA-WEF Part 4500-N C, 23rd. Ed. 2017 Determination of Total Nitrogen-Persulfate method
		Silicates	SMEWW-APHA-AWWA-WEF Part 4500 SiO ₂ D, 23rd Ed. 2017 Spectrophotometric, Molybdosilicate method (Validated)
		VOCs: Acrylonitrile	EPA Method 8260 D Revision 4 June 2018 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
		Total Oil and Grease (TOG) and Total Petroleum Hydrocarbons (TPH)	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)	Phosphate	SMEWW-APHA-AWWA-WEF Part 4500-P E, 23rd.Ed. 2017 Phosphorus. Ascorbic Acid Method
		Settleable Solids	SMEWW-APHA-AWWA-WEF Part

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Environmental Inorganics (cont'd.)	Saline Water (Sampling & Analysis) (cont'd.)		2540 F, 23rd.Ed. 2017 Solids. Settleable Solids
		Wad Cyanide	SMEWW-APHA-AWWA-WEF Part 4500-CN ⁻ I,E, 23rd Ed. 2017 Cyanide. Weak Acid Dissociable Cyanide. Colorimetric Method
		Sulfate	SMEWW-APHA-AWWA-WEF Part 4500-SO ₄ ⁻² E, 23rd Ed. 2017 Sulfate. Turbidimetric Method
	Wastewater, Natural Water and Water for use and Human Consumption (Sampling & Analysis)	Acidity	SMEWW-APHA-AWWA-WEF Part 2310 B, 23rd Ed, 2017 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	<i>Escherichia Coli</i>	SM 9221 F. / 9221C. Standard Methods 23rd Edition 2017 <i>Escherichia coli</i> Procedure using Fluorogenic Substrate

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Environmental Microbiology (cont'd.)	(Sampling & Analysis)	Total Coliform	SM 9221B. / 9221C. Standard Methods 23rd Edition 2017 Standard Total Coliform Fermentation Technique
		Fecal Coliform	SM 9221 E. / 9221C. Standard Methods 23rd Edition 2017 Thermotolerant (Fecal) Coliform Procedure
		Heterotrophic Bacteria	SM 9215 A. / 9215B. Standard Methods 23rd Edition 2017 Heterotrophic Plate Count Pour Plate Method
	Soils, Sediments, and Sludges (Sampling & Analysis)	Total Coliform	SMEWW-APHA-AWWA-WEF 9221 A, B, C 23rd. Ed. 2017 Multiple Tube Fermentation Technique for Members of The Coliform Group. Standard Total Coliform Fermentation Technique
		Fecal Coliform	SMEWW-APHA-AWWA-WEF 9221 A, C, E 23rd. Ed. 2017 Multiple-Tube Fermentation Technique for Members of The Coliform Group. Thermotolerant (Fecal) Coliform Procedure
	Environmental Field Testing	Wastewater, Natural Water, Water for use and Human Consumption, (Sampling and analysis)	Free residual Chlorine

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Environmental Field Testing (continued)	Wastewater, Natural Water, Water for use and Human Consumption, (Sampling and analysis) (continued)	Flow	DPD Colorimetric Method
			EPA-B-97-003 84 Nov. 1993 Flow Determination by Empiric Method: 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
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,	ENTEROBACTERIAS	
		<i>Pseudomonas aeruginosa</i>	SM 9213 F. Standard Methods 23rd Edition 2017

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Environmental Microbiology (cont'd.)	Saline Water, wastewater, Process Water (Sampling & Analysis)		Multiple-Tube Technique for <i>Pseudomonas aeruginosa</i>
		<i>Salmonella</i> sp.	SM 9260 B. Standard Methods 23rd Edition 2017 Detection of Pathogenic Bacteria. <i>Salmonella</i> sp.
		<i>Staphylococcus aureus</i>	SM 9213 B. Standard Methods 23rd Edition 2017 Swimming Pools. 6. Test for <i>Staphylococcus aureus</i>
		<i>Vibrio cholerae</i>	SM 9260H. Standard Methods 23rd Edition 2017 Detection of Pathogenic Bacteria. <i>Vibrio</i>
		PARASITES AND PROTOZOARIES Nematodes <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. Cestodes <i>Dyphylidium</i> sp. <i>Taenia</i> sp. <i>Hymenolepis diminuta</i> <i>Hymenolepis nana</i> <i>Hymenolepis</i> sp. Trematodes <i>Fasciola hepatica</i> <i>Paragonimus</i> sp. <i>Schistosoma</i> sp. Protozoa - Amoebas and Flagellates <i>Endolimax nana</i> <i>Entamoeba histolytica</i> <i>Entamoeba coli</i> <i>Giardia</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.)	<i>Iodamoeba</i> sp. <i>Chilomastix</i> sp. <i>Blastocystis hominis</i> <i>Balantidium coli</i> <i>Acanthamoeba</i> sp. Coccidia <i>Isospora</i> sp.	
		Protozoa <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)
	HELMINTH EGGS Nematodes <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. Cestodes <i>Dyphylidium</i> sp. <i>Taenia</i> sp. <i>Hymenolepis diminuta</i> <i>Hymenolepis nana</i> <i>Hymenolepis</i> sp. Trematodes <i>Fasciola hepatica</i> <i>Paragonimus</i> sp. <i>Schistosoma</i> sp. Acantocephalus <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)	
	HELMINTH EGGS Nematodes <i>Ascaris</i> sp. <i>Uncinarias (Ancylostoma, Strongylus, Necator)</i> <i>Enterobius vermicularis</i> <i>Trichuris</i> sp.	Mexican Standard NMX-AA-113-SCFI 2012 Analysis of water – Determination of the number Helminth Eggs in wastewaters	

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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.)	<i>Toxocara</i> sp. <i>Capillaria</i> sp. <i>Trichostrongylus</i> sp. Cestodes <i>Dyphylidium</i> sp. <i>Taenia</i> sp. <i>Hymenolepis diminuta</i> <i>Hymenolepis nana</i> <i>Hymenolepis</i> sp. Trematodes <i>Fasciola hepatica</i> <i>Paragonimus</i> sp. <i>Schistosoma</i> sp. Acantocephalus <i>Macracanthorhynchus</i> sp	and treated wastewaters by Microscopic Examination-Test Method (Validated)
		Virus (Colifagos)	SM 9224-B, 23RD. Edition 2017 Somatic Coliphages Assay
Environmental Hydrobiology	Water for use and Human Consumption, Natural Water, Saline Water Process Water (Sampling & Analysis)	PHYTOPLANKTON	
		Qualitative Phytoplankton	SMEWW-APHA-AWWA-WEF Part 10200 C.1, 2, // Part 10900, 23rd Ed. 2017 Plankton. Concentration Techniques // Identification of Aquatic Organisms
		Quantitative Phytoplankton	SMEWW-APHA-AWWA-WEF Part 10200 F, items: F.2.a, F.2.b y F.2.c.1, 23rd Ed. 2017 Plankton. Phytoplankton Counting Techniques
		ZOOPLANKTON	
		Qualitative Zooplankton	SMEWW-APHA-AWWA-WEF Part 10200 G.1, // Part 10900, 23rd Ed. 2017 Plankton. Zooplankton Counting

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Environmental Hydrobiology (cont'd.)	Water for use and Human Consumption, Natural Water, Saline Water (Sampling & Analysis) (cont'd.)		Techniques. Subsampling. Identification of Aquatic Organisms
		Quantitative Zooplankton	SMEWW-APHA-AWWA-WEF Part 10200 G. 23rd Ed. 2017 Plankton. Zooplankton Counting Techniques
	ALGAE; LARVAE OR FREE LIFE ORGANISMS (LIVING ORGANISMS)		
	Phytoplankton (Algae) + Zooplankton (Protozoa, rotiferous copepods and nematodes)	SMEWW-APHA-AWWA-WEF Part 10200 C.1.2, F.2. a, c.1, 23rd Edition / SMEWW-APHA-AWWA-WEF Part 10200 G, 23rd Edition, 2017 Plankton. Concentration Techniques. Phytoplankton Counting Techniques / Plankton. Zooplankton. Counting Techniques	
Epicontinental sediments Estuarine sediments marine sediments (Sampling & Analysis)	MACROBENTHOS		
	Macrobenthos or Benthic Macroinvertebrates	SMEWW-APHA-AWWA-WEF Part 10500 C, 23rd Ed., 2017 Benthic Macroinvertebrates. Sample Processing and Analysis	
Natural Water Process Water (Sampling & Analysis)	Periphyton (Perifiton)	SMEWW-APHA-AWWA-WEF Part 10300 C, 23rd Ed, 2017 Periphyton counting by Sedgwick-Rafter Counts - Inverted Microscope Method	

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Environmental Hydrobiology (cont'd.)	Fresh water and continental water, saline water (Sampling & Analysis)	Necton	SMEWW-APHA-AWWA-WEF Part 10600, 23rd Ed, 2017 Necton Fishes
Environmental Field Testing	Water for use and Human Consumption, Wastewater, Natural Water, Saline Water and Process Water (Sampling & Analysis)	Total chlorine	SM-4500-CI G 23rd Edition 2017 / USEPA Method 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
		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, 23rd. Ed. 2017 Threshold Odor Test
		Flavor	SMEWW-APHA-AWWA-WEF Part - 2160 B, 23rd. Ed. 2017 Flavor Threshold Test (FTT)
		Color	SMEWW-APHA-AWWA-WEF Part 2120-C, 23rd. Ed. 2017 Color. Spectrophotometric-

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Environmental Field Testing (continued)			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: Prediction of vibration parameters.
Metals in Vegetable Tissues	Vegetable Tissues (Sampling & Analysis)	Total Metals Metals 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). Mercury Hg	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 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

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Metals in Biological Tissues	Biological Tissues (Sampling & Analysis)	<p>Total Metals</p> <p>Metals 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>Mercury Hg</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 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 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>
PAHs in Vegetable Tissue	Vegetable Tissue (Sampling & Analysis)	<p>PAHs</p> <p>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, Dibenz[a,h]Anthracene, Benzo[g,h,i]Perylene</p>	<p>ETL 171112 (Validated) Method AOAC 2014.08 Polycyclic Aromatic Hydrocarbons in Seafood-by GC/MS</p>

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PAHs in Biological Tissue	Biological Tissue (Sampling & Analysis)	PAHs 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 Acenaphthylene, Acenaphthene	Method AOAC 2014.08 (Validated) Polycyclic Aromatic Hydrocarbons in Seafood-by GC/MS
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. Charpther.3.8 Surface Contact Methods. 3.83 Agar Contact Method
	Irregular Inert Surfaces (Sampling & Analysis)	HISOPO METHOD	
		Total Coliforms Fecal Coliforms <i>Escherichia coli</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 9: Enterobacteriaceae, Coliforms, and <i>Escherichia coli</i> as

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Occupational Health - Microbiology (cont'd.)	Irregular Inert Surfaces (Sampling & Analysis) (cont'd.)		Quality and Safety Indicators
		Mesophilic Aerobic Microorganisms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 8: Mesophilic Aerobic Plate Count
		Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds
		<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i>
		<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</i>		

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Occupational Health - Microbiology (cont'd.)			<i>aureus</i> and Staphylococcal Enterotoxins
	Regular Inert Surfaces (Sampling & Analysis)	HISOPO METHOD	
		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
		Fecal Coliforms	
		<i>Escherichia coli</i>	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 8: Mesophilic Aerobic Plate Count
		Mesophilic Aerobic Microorganisms	
		Molds and yeasts	
		<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i>
<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.)	Regular 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	
	Surfaces Live (Sampling & Analysis)	LIVE RINSE METHOD		
		Total Coliforms	<i>Escherichia coli</i>	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
		Fecal Coliforms		
		Mesophilic Aerobic Microorganisms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 8: Mesophilic Aerobic Plate Count	
		Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds	
		<i>Salmonella</i> sp.	Compendium of Methods for the	

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Occupational Health - Microbiology (cont'd.)	Surfaces Live (Sampling & Analysis) (continued)		Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i>
		<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
Regular Inert Surfaces (Sampling & Analysis)		SPONGES METHOD	
		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
		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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Occupational Health - Microbiology (cont'd.)	Regular Inert Surfaces (Sampling & Analysis) (continued)		Chapter 8: Mesophilic Aerobic Plate Count
		Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds
		<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i>
		<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	
	Irregular Inert Surfaces (Sampling & Analysis)	SPONGES METHOD	
Total Coliforms		Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015	
Fecal Coliforms			
		<i>Escherichia coli</i>	

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Occupational Health - Microbiology (cont'd.)	Irregular Inert Surfaces (Sampling & Analysis) (continued)		Chapter 9: Enterobacteriaceae, Coliforms, and <i>Escherichia coli</i> as Quality and Safety Indicators
		Mesophilic Aerobic Microorganisms	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 8: Mesophilic Aerobic Plate Count
		Molds and yeasts	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 21: Yeasts and Molds
		<i>Salmonella</i> sp.	Compendium of Methods for the Microbiological Examination of foods. 5th Edition. 2015 Chapter 36: <i>Salmonella</i>
		<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

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			Chapter 39: <i>Staphylococcus aureus</i> and Staphylococcal Enterotoxins
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. 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:

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Occupational Health (cont'd.)	Vibration (continued)		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 Hz to 100 kHz with regard to exposure of human beings - Part 2: Basic standard for measurements
	Indoor Air (Sampling & Analysis)	Volatile Organic Compounds (Screening) (VOCs) Benzene Trichloroethene Toluene Tetrachloroethene	ASTM D3687-19 // ASTM D3686-20 Standard Test Method for Analysis of Organic Compound Vapors Collected by the

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Occupational Health (cont'd.)	Indoor Air (Sampling & Analysis (cont'd.)	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	Activated Charcoal Tube Adsorption Method // Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method)
		Volatile Organic Compounds (Screening) (BTEX) 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 Tube Adsorption Method)
	Indoor Air (field sampling)	Volatile Organic Compounds (Direct Measurement) (VOCs) Benzene Trichloroethene Toluene Tetrachloroethene Chlorobenzene Ethylbenzene m,p-Xylene	MultiRAE User's Guide Rev C, May 2013, P/N: M01-4003-000 Technical Note TN-106 RAE Systems Inc.

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Occupational Health (cont'd.)	Indoor Air (field sampling) (continued)	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	Electrochemical technique with photoionization detector (Validate)
		Volatile Organic Compounds (Direct Measurement) (BTEX) 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)	Volatile Organic Compounds (Screening) (VOCs) 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 Sec-Butylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene p-Isopropyltoluene 1,2-Dichlorobenzene n-Butylbenzene 1,2,4-Trichlorobenzene Naphthalene	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 Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method (cont'd.)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Occupational Health (cont'd.)		1,2,3-Trichlorobenzene	
	Indoor Air	Respirable Particulate Filter Weighing - Gravimetric	NIOSH 0600 Issue 3. 1998 Particulates not otherwise regulated, Respirable (Validated)
		Total Particulate Filter Weighing - Gravimetric	NIOSH 0500 Issue 2. 1994 Particulates Not Otherwise regulated, total (Validated)
		Respirable Particulate	NIOSH 0600 Issue 3. 1998 Particulates not otherwise regulated, Respirable
		Total Particulate or Inhalable	NIOSH 0500 Issue 2. 1994 Particulates Not Otherwise regulated, total
		Metals in Respirable Particulate (Filter) 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)
Metals in Total Particulate (Filter) – 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)		
TPH in Biological Tissue	Biological Tissue Fishes	Total Petroleum Hydrocarbons (TPH): Fishes, Range: C10-C40	AOAC 2014.08 (Validated) (Modified)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Polycyclic Aromatic Hydrocarbons in Seafood-by GC/MS
Microbiology	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, 23rd Ed, 2017 Fecal enterococcus/ Streptococcus Groups by Multiple-Tube Technique