



AZECOLAB
ISO 17025 Accreditation Scope

<i>Testing Field -Tested Materials/Products</i>	<i>Name of Test</i>	<i>Testing Method (national, international standards, in-house methods)</i>
Sampling	Water sampling	ISO 5667-1
	Soil Sampling	EPA/600/R-92/128
	Sediment Sampling	ISO 5667-19
	Water Sampling for Microbiological Analysis	SM 9060
Water, Waste Water	Temperature (field and lab measurement)	EPA 170.1
	pH (field and lab measurement)	ASTM D1293B
	Conductivity (field and lab measurement)	EPA 120.1
	Dissolved Oxygen (field, lab measurement)	ASTM D888
	Turbidity (field and lab measurement)	EPA 180.1
	Total Chlorine (field and lab measurement)	SM 4500-Cl, G
	Color	SM 2120B
	Alkalinity	SM 2320B
	Hardness	SM 2340C
	PO4&Total Phosphorus	EPA 365.3
	Nitrite	EPA 354.1
	Ammonium	EPA 350.2
	Anions-IC (SO4; Cl; NO3; NO2, PO4, F)	ASTM D4327
	TDS	EPA 160.1
	TSS	EPA 160.2



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<i>Testing Field -Tested Materials/Products</i>	<i>Name of Test</i>	<i>Testing Method (national, international standards, in-house methods)</i>
Water, Waste Water	Sample Preparation Heavy Metals by AAS-Flame Aluminum (Al), Antimony (Sb), Barium (Ba), Beryllium (Be), Cadmium (Cd), Calcium (Ca), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Lithium (Li), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Osmium (Os), Potassium (K), Silver (Ag), Sodium (Na), Strontium (Sr), Thallium (Tl), Tin (Sn), Vanadium (V), Zinc (Zn)	EPA 3015A EPA 7000B
	Sample Preparation Heavy Metals by AAS-GF Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Silver (Ag), Thallium (Tl), Vanadium (V), Zinc (Zn)	EPA 3015A EPA 7010
	Sample Preparation Hg by CV-AAS	EPA 3015A EPA 245.1
	Sample Preparation Heavy Metals by ICP-MS Aluminum (Al), Arsenic (As), 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), Osmium (Os), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Strontium (Sr), Selenium (Se), Thallium (Tl), Tin (Sn), Vanadium (V), Zinc (Zn), Thorium (Th), Uranium (U)	EPA 3015A EPA 6020A EPA 200.8
	Sample Preparation TOG&TPH by IR	EPA 3510C ASTM D7066
	Sample Preparation TOG&TPH Gravimetric	EPA 3510C EPA 1664A
	TPH by GC/FID C9-C18 Aliphatics, C19-C36 Aliphatics, C11-C22 Aromatics, Total All Fractions(TPH)	MADEP-EPH-98-1



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Water, Waste Water	PAHs by HPLC Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene , Pyrene	MADEP-EPH-98-1; EPA 610
	VOC by GC/MS-HeadSpace Benzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, Dibromochloromethane, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, Dibromomethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Dichlorodifluoromethane, 1,1-Dichloroethane, 1,2-Dichloroethane, 1,1-Dichloroethene, trans-1,2-Dichloroethene, 1,2-Dichloropropane, Ethylbenzene, Hexachlorobutadiene, Methylene chloride, Naphthalene, Styrene, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Toluene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethene, Trichlorofluoromethane, 1,2,3-Trichloropropane, Vinyl chloride, o-Xylene, m-Xylene, p-Xylene	4300 In House Method
	Sample Preparation Chlorinated Pesticides and PCBs by GC/ECD Aldrin, α -BHC, β -BHC, δ -BHC, γ -BHC, Chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Heptachlor, Heptachlor epoxide , Toxaphene PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	EPA3510C EPA 608



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Soil, solid, Sludge, Sediment	Sample Preparation Heavy Metals by AAS-Flame	
	Aluminum (Al), Antimony (Sb), Barium (Ba), Beryllium (Be), Cadmium (Cd), Calcium (Ca), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Lithium (Li), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Osmium (Os), Potassium (K), Silver (Ag), Sodium (Na), Strontium (Sr), Thallium (Tl), Tin (Sn), Vanadium (V), Zinc (Zn)	EPA 3051A EPA 7000B
	Sample Preparation Heavy Metals by AAS-GF	
	Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Silver (Ag), Thallium (Tl), Vanadium (V), Zinc (Zn)	EPA 3051A EPA 7010
	Sample Preparation Hg by AAS-CV	EPA 3051A EPA 245.5
Sample Preparation Heavy Metals by ICP-MS		
Aluminum (Al), Arsenic (As), 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), Osmium (Os), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Strontium (Sr), Selenium (Se), Thallium (Tl), Tin (Sn), Vanadium (V), Zinc (Zn), Thorium (Th), Uranium (U)	EPA 3051A EPA 6020A	
Sample Preparation Total Petroleum Hydrocarbons (TPHs)		
C9-C18 Aliphatics, C19-C36 Aliphatics, C11-C22 Aromatics, Total All Fractions(TPH)	EPA 3630C MADEP-EPH-98-1; MW	



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Soil, solid, Sludge, Sediment	Sample Preparation+MW extraction PAHs by HPLC Acenaphthene, Chrysene Acenaphthylene, Dibenzo(a,h)anthracene, Anthracene, Fluoranthene, Benzo(a)anthracene, Fluorene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(b)fluoranthene, Naphthalene, Benzo(ghi)perylene, Phenanthrene, Benzo(k)fluoranthene, Pyrene	EPA 3630C EPA 8310C MADEP-EPH-98-1; MW
Water, Waste Water	Escherichia coli	QOST18963-73
	Total Coliform	SM 9222B
	Plate Count	SM 9215B