

ENVIRONMENTAL ANALYSIS - ANALYTICAL GROUPS COVERED

| Group | Analytes | | Environmental Matrices Covered |
|--|--|---|--|
| Organochlorine Pesticides (OCPs) – 19 Nos. | <ul style="list-style-type: none"> • α-HCH, • β-HCH, • γ-HCH, • δ-HCH, • Endosulfan-I, • Endosulfan-II, • Endosulfan sulfate, • Dicofol, • p,p'-DDE, • o,p'-DDE | <ul style="list-style-type: none"> • p,p'-DDD, • p,p'-DDT, • o,p'-DDT • Aldrin, • Dieldrin, • Heptachlor, • cis-Chlordane, • trans-Chlordane, • Methoxychlor | <ul style="list-style-type: none"> • Ground water • Surface water • Waste water • Soil • Sediments • Ambient Air (Particles and Vapor Phase) • Solid waste • Hazardous waste |
| Organophosphorus Pesticides (OPPs) – 19 Nos | <ul style="list-style-type: none"> • Chlorpyrifos, • Dimethoate, • Ethion, • Malathion, • Parathion-methyl, • Phorate, • Phosphamidon, • Quinalphos, • Profenophos, • Monocrotophos | <ul style="list-style-type: none"> • Fonofos, • Diazinon, • Disulfoton, • Chlorpyrifos-methyl, • Finitrothion, • Parathion-ethyl, • Phosmet, • Anilophos, • Azinphos-methyl. | <ul style="list-style-type: none"> • Ground water • Surface water • Waste water • Soil • Sediments • Solid waste • Hazardous waste |
| Synthetic Pyrethroids (SPs) – 6 Nos. | <ul style="list-style-type: none"> • α-Cypermethrin, • Deltamethrin, • Fenpropathrin, • Fenvalerate, • λ-Cyhalothrin, • β-Cyfluthrin | | <ul style="list-style-type: none"> • Ground water • Surface water • Waste water • Soil • Sediments • Solid waste • Hazardous waste |
| Herbicides – 4 Nos. | <ul style="list-style-type: none"> • Pendimethalin, • Alachlor, • Butachlor, • Fluchloralin | | <ul style="list-style-type: none"> • Ground water • Surface water • Waste water • Soil • Sediments |
| Carbamates – 6 Nos | <ul style="list-style-type: none"> • Carbaryl, • Carbofuran, • Aldicarb, • Methomyl, • Captan, • Methiocarb | | <ul style="list-style-type: none"> • Ground water • Surface water • Waste water • Soil • Sediments • Solid waste • Hazardous waste |
| Trihalomethanes (THMs) – 4 Nos. | <ul style="list-style-type: none"> • Chloroform, • Dibromochloromethane • Bromoform, • Bromodichloromethane, | | <ul style="list-style-type: none"> • Ground water • Surface water • Waste water |
| Polycyclic Aromatic Hydrocarbons (PAHs) – 16 Nos. | <ul style="list-style-type: none"> • Naphthalene, • Acenaphthene, • Acenaphthylene, • Fluorene, • Phenanthrene, • Anthracene, • Fluoranthene, • Pyrene, | <ul style="list-style-type: none"> • Benzo[a]Anthracene, • Chrysene, • Benzo[b]Fluoranthene • Benzo[k]Fluoranthene • Benzo(a)Pyrene, • Dibenzo[a,h]Anthracene, • Indeno [1,2,3-cd] Pyrene, • Benzo [g,h,i] Perylene | <ul style="list-style-type: none"> • Ground water • Surface water • Waste water • Soil • Sediments • Ambient Air (Particles and Vapor Phase) • Solid waste • Hazardous waste |

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| Phenol & Phenolic Compounds - 11 Nos. | <ul style="list-style-type: none"> Phenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, Pentachlorophenol 2-Nitrophenol, | <ul style="list-style-type: none"> 4-Nitrophenol, 2,4-Dinitrophenol, 2-Methyl-4,6-Dinitrophenol, 2,4-Dimethylphenol, 4-Chloro-3-Methylphenol | <ul style="list-style-type: none"> Ground water Surface water Waste water Soil Sediments Solid waste Hazardous waste |
| Polychlorinated Biphenyls (PCBs) (Aroclor Mixtures) – 7 Nos. (Individual Congeners) – 28 Nos. | PCB Congeners: <ul style="list-style-type: none"> PCB-18, PCB -37, PCB -44, PCB -49, PCB -52, PCB -70, PCB -74, PCB -119, PCB -128, PCB -138, PCB -151, PCB -168, PCB -170, PCB -177, PCB -187, PCB -207, PCB -77, PCB -81, | <ul style="list-style-type: none"> PCB -105, PCB -114, PCB -118, PCB -123, PCB -126, PCB -156, PCB -157, PCB -167, PCB -169, PCB -189. Aroclors: <ul style="list-style-type: none"> Aroclor 1016, Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260. | <ul style="list-style-type: none"> Ground water Surface water Waste water Soil Sediments Waste Oil Solid waste Hazardous waste |
| Persistent Organic Pollutants (POPs) – 12 Nos. | Pesticides: <ul style="list-style-type: none"> Aldrin, Chlordane, DDT, Dieldrin, Endrin, Heptachlor, Hexachlorobenzene, Mirex, Toxaphene | Industrial & By-products: <ul style="list-style-type: none"> Hexachlorobenzene, Polychlorinated biphenyls (PCBs) Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDD/PCDF) | <ul style="list-style-type: none"> Ground water Surface water Waste water Soil Sediments Ambient Air (Particles and Vapor Phase) Emission Solid waste Hazardous waste |
| Dioxins & Furans (PCDDs & PCDFs) – 17 Nos. | PCDDs: <ul style="list-style-type: none"> 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD. | PCDFs: <ul style="list-style-type: none"> 2,3,7,8-TCDF 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF. | <ul style="list-style-type: none"> Ground water Surface water Waste water Soil Sediments Ambient Air (Particles and Vapor Phase) Source Emissions Solid waste Hazardous waste |
| Chlorobenzenes (CBs) – 7 Nos. | <ul style="list-style-type: none"> 1,4-Dichlorobenzene, 1,3-Dichlorobenzene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3,5-Tetrachlorobenzene, Pentachlorobenzene, Hexachlorobenzene | | <ul style="list-style-type: none"> Ground water Surface water Waste water Soil Sediments Ambient Air (Particles and Vapor Phase) Solid waste Hazardous waste |

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| Volatile Organic Compounds (VOCs) – 47 Nos. | <ul style="list-style-type: none"> • 1,1 Dichloroethane • Methylene Chloride • trans 1,2 dichloroethane • 1,1 dichloroethane • cis 1,2 dichloroethane • 2,2 dichloropropane • Bromochloromethane • Trichloromethane • 1,1,1 trichloroethane • 1,2 dichloroethane • Benzene • Trichloroethylene • 1,2 dichloropropane • Dibromoethane • Bromodichloromethane • Trans-1,3 dichloropropane • Toluene • Cis-1,3 dichloropropane • 1,1,2 trichloroethane • 1,3 dichloropropane • Dibromochloromethane • Tetrachloroethylene • 1,2 Dibromoethane • Chlorobenzene • 1,1,1,2 Tetrachloroethane • Ethylbenzene • <i>o</i>-xylene • <i>p</i>-xylene • <i>m</i>-xylene • 1,3 dimethylbenzene • Bromobenzene • 2-Chlorotoluene • 1,Chloro2,methyl Benzene • Propylbenzene • 4-chlorotoluene • 1,3,5 trimethylbenzene • Tert-butylbenzene • 1,2,3 trimethylbenzene • 1,3 dichlorobenzene • 1,4 dichlorobenzene • 1,2 dichlorobenzene • Butylbenzene • 1,2 dibromo 3 chloropropane • 1,3,5 Trichlorobenzene • Naphthaline • 1,2,4 Trichlorobenzene • 1,1,2,3,4,4 Hexachlorotolubutadiene | <ul style="list-style-type: none"> • Ground water • Surface water |