EUREKA

# ENVIRONMENT TESTING

Eureka Analytical Services (Eureka) is a partner lab of GBA Group, Hamburg, a leading bio-analytical testing company headquartered in Germany. The Group has built up a global network of Food Testing Laboratories and competence centres that perform millions of assays per year to establish the safety, composition, authenticity, origin, traceability and purity of food.

The Group has built up a global network of Environment, Food & feed, Pharmaceutical and nutraceutical testing laboratories and competence centres that perform all the tests as per IS/ ISO/ USFDA/ IP/ USP/ EP/ USEPA/ APHA/ AOAC/ DIN/ ASTM and other comparable methods to meet the analysis requirements of serving countries across the world

Environment testing routinely refers to testing of Water, Soil and Air. Across the world, there is a strong movement towards protecting the environment and scarce resources. This includes analysis and detection of various ingredients and contaminants in water, soil and air in our micro and macro environment. The testing of water is to ensure that the quality of water is fit for the intended purpose and is safe for use. Testing of soil is often for the purpose of agriculture and geotechnical investigations. In many global markets, such investigations are routine before embarking on any manner of construction for residential, commercial and infrastructure projects. Outdoor and Indoor ambient air quality is of increasing concern to us all and identifying air contaminants is key to assessing risk and bringing in new legislation and norms for air quality.

## WATER ANALYSIS

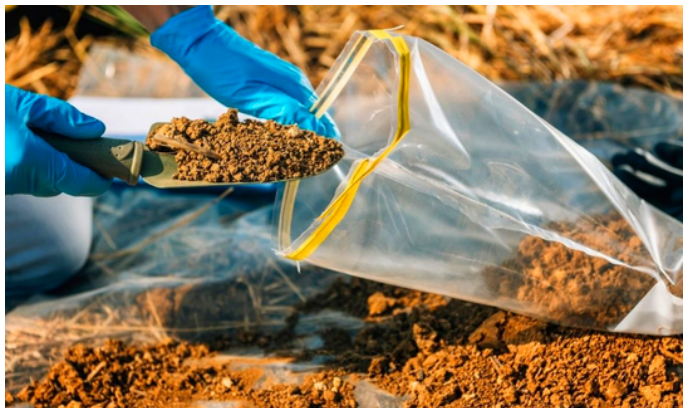
Water testing is a broad description of various procedures used to analyze water quality. Millions of water quality tests are carried out daily across the world to fulfil regulatory requirements and to maintain safety. This testing can be done on raw water from different sources, packaged forms of water, as well as that which is used and discharged as effluent during manufacturing processes across industries.

Eureka performs **hazardous waste** determinations under both federal and Indian hazardous waste management regulations with the following analytical capabilities,

- Analysis as per Schedule II (Class A, B and C)
- TCLP & STLC extraction and analysis
- Pesticides Residues (More than 700 pesticides)
- Metals (more than 50 metals)
- Herbicides (Chlorinated herbicides)
- Dioxins & Furan
- SVOC

## SOIL ANALYSIS

From everyday nutrient testing to complex contamination determination and monitoring at degradation sites, the testing of soil is a critically important area of environmental monitoring. Soil analysis refers to one or more of a wide variety of soil testing conducted for one of several possible reasons. The most widely performed soil tests are those done to estimate the plant-available a concentrations of plant nutrients to determine fertilizer recommendations in agriculture. Other soil tests may be done for engineering (geotechnical), geochemical or ecological investigations. Soil analysis results in the problem areas in your soil such as adverse nutrient levels, contaminants, excess salts, high or low pH, texture, etc. A soil sample can be analyzed to determine its composition, nutrient levels, and characteristics.



## TESTING SCOPE

### Organic Analysis- Traces of residues and contaminants in Water/ Soil/ Waste

- Mineral Oil/ Total Petroleum Hydrocarbon (C8-C40) - USEPA 8015 B
- Poly Aromatic Hydrocarbon (PAH)
- Polychlorinated Biphenyl (PCB)
- Volatile Organic Compound (VOC) - USEPA 8260
- Semi-volatile Organic Compound (SVOC) - USEPA 8270 D

Pesticide residue (More than 600 Analytes)
Organochlorine Pesticide Group
Organophosphorus Pesticide Group
Carbamates Pesticides Group
Organotin Pesticide Group
Others

- Dioxin and Furans

### Other Analysis Suites

- Veterinary drug residue analysis in Effluent Water/ Waste/ Soil
- API/ Antibiotics in Effluent Water/ Treated Water/ Soil etc

- Water analysis as per WHO 4th Edn
- Water as per USEPA 2015, US Drinking Water Standards
- Water as per Dutch Specification/ Standards
- Water analysis as per WELL Standard/ Specification
- Water analysis as per IS 10500/ IS 14543 Process
- Water analysis as per IS 4251
- Water analysis as per EC 98

### Inorganic Analysis in Water/ Soil/ Waste

- Heavy Metals & Trace Metals (more than 40 metals)
- Cations
- Anions
- Geochemical Parameters
- Micro & Macro Nutrients specifically in Soil

### Microbiology

- Microbiological Analysis (bacteria and Pathogens)
- Virus (MS2) and Parasites (Giardia & Cryptosporidium)
- Bacteria & Pathogens
- Environmental Swab sampling and analysis for parameters like Yeast and Mold, Coliforms, Salmonella, TPC etc,
- Helminths egg

### TCLP and STLC

- Hazardous Waste Testing as per Schedule II and SW 689
- Metals in TCLP & STLC (using USEPA 1311)
- VOC in TCLP/ STLC
- Pesticides in TCLP/ STLC

### Minerals

- CHONS in coal/ wood/soil etc
- AOX in Water
- Mineral profile using XRD/ XRF
- Calorific Values

### Other Services

- Water/ Soil/ Air Sampling with experienced personnel's across PAN India
- Dioxins & Furan in Air and Emissions
- Ambient Air Monitoring & Testing
- Emission Monitoring and Testing
- Industrial Hygiene Monitoring and Testing
- Noise Monitoring

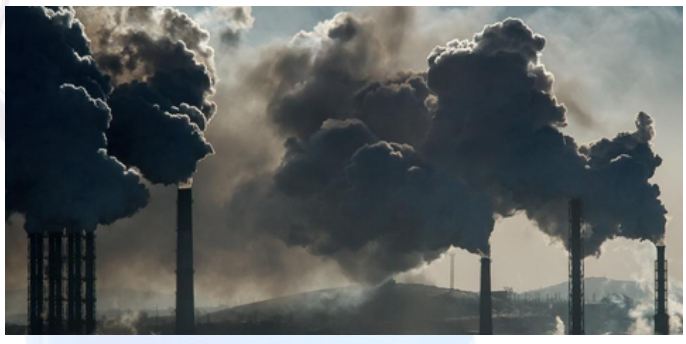
Equipment Validation (like water purifiers, air purifiers, etc.)

Using a partner lab, all QA/ QC and chain of custody responsibility of analytical data (sampling and testing) will be with EUREKA only.

## INDOOR AIR QUALITY ANALYSIS

Eureka offers a wide range of analytical excellence for conducting Indoor Air quality and occupational hygiene assessments using online and conventional monitoring methods like NIOSH, OHSAS for specifically defined parameters to be evaluated, ranging from ultra-low detections using an 'EPA TO' method to monitoring exposures over time with a NIOSH approach. Our analytical offering includes,

- Volatile Organic Compounds (VOCs)
- Semi Volatile Organic Compounds (SVOCs)
- Atmospheric Gases
- Asbestos Monitoring and Analysis
- Aldehydes and Sulphur compounds
- Many other contaminants as per process requirements
- Swab and Air Sampling for Microbiological analysis



## AIR (AMBIENT/ WORK ZONE)

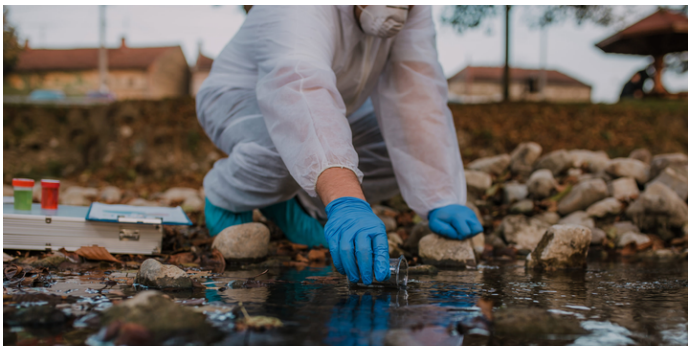
Since then, Eureka has been providing all critical analysis for airborne organic and inorganic contaminants.
Some of the most common analytical facilities are;
(We also provide cartridges for sampling on a returnable basis.)

- As per NAAQ Standard
- Dioxins & Furans
- PCB, PAH and Pesticides
- Metals & Non Metallic compounds
- Asbestos
- Formaldehyde
- VOCs and SVOCs

## ASBESTOS ANALYSIS

Eureka offers a wide range of asbestos analysis services with a high quality of accuracy and precision for all kinds of materials like,

- Soil
- Building Material
- Swab
- Ambient/Indoor Air
- Other Complicated Matrixes



**Corporate Registered Office**

**Bangalore:** AB Square, #617, 5th main, OMBR Layout, Kasturi Nagar, Banaswadi, Bengaluru, Karnataka 560043

**Mobile no:** 7795833308

## IMPORTANT ANALYTICAL SUITES

- Local and International legislative parameters for water
- Due Diligence Phase II study in accordance with Dutch Standards
- Geochemical Suite
- Trace Metals
- Pesticides Analysis (>700)
- PAH, PCB, Phenols, Phthalates, Halides, PFOA, PFOS, PBB, PBDE and Amines
- Total Petroleum Hydrocarbon - TPH (C8 to C40) total and speciation
- VOC as per USEPA 8260
- SVOC as per USEPA 8270D
- Waterborne Legionella
- Leaching Suites (as per EC 1999/31/EC 2003/33)
- Hazardous waste analysis as per Schedule II
- TCLP Solid/Hazardous Waste Characteristics
- CPCB schedule VI used oil analysis
- Dioxins and Furans in Emission, Air and other matrices
- PCB, PAH, VOC, SVOC, Formaldehyde in Air & Emissions
- VOC in Air Analysis Per USEPA TO-17
- Analysis of VOCs in the air performed in accordance with USEPA TO-15 (Canister)
- Pesticide scanning in soil in general
- Water analysis for ZDHC Compliance
- Water analysis as per WHO's latest edition
- Bacteria identification using API Web (all matrices)
- Active Pharmaceutical Ingredients (API) in Water
- WELL standard comprehensive analysis package
- Air and hygiene swabs for microbiological analysis