

**lecher**

1980

## Our history, our territory

A heritage to be cared for and preserved

We are located in a territory characterised by a delicate balance between the city of Venice and its Laguna and the industrial center of Porto Marghera, that cohabits with its major impacts. 40 years ago, we at Lecher, were one of the **first laboratories committed to the activities of environmental monitoring and analysis**, thus contributing to the safeguard of a common heritage.

### Our service, for your trust

What distinguishes our professionalism is an innate passion for the **constant update of our technical skills**, through specialized personnel, instrumentation and technological equipment.

Our laboratory applies **strict quality control and assurance requirements** in all areas covered, from production to analytical services and consulting.



## Accuracy and attention are our job

We offer services of: sampling, analysis, research and consulting to all types and sizes of private companies, Public Administrations, and professional firms.

### The complete range of our services:

- **Atmospheric emissions sampling and analysis** from thermal industrial plants, and incinerators plants;
- **Waste classification and characterization** for the purpose of recovery, recycling (EOW) and disposal;
- **Product analysis** of waste from separate collection, characterization of secondary raw materials, secondary solid fuels and biomass;
- **Water sampling and analysis**, including water discharges, surface waters, groundwaters and waters intended for human consumption;
- **Soil sampling and analysis**, including products of environmental sanitation, excavated soils and rocks, agronomic analyses, industrial products;
- **Work environments and industrial hygiene analysis**, including risk exposure valuation to chemical, physical, biological agents, asbestos and noise emissions;
- **Landfill and waste treatment plants monitoring**, diffuse emissions, biogas, bio-filters, monitoring piezometers and extraction wells, sampling plans.



# The Lab

Lecher Research and Analysis is a reality operating on the Italian territory since 1980. We are based in Salzano (VE) and part of the Depuracque Group.

We are an autonomous and independent laboratory of excellence, accredited UNI EN ISO / IEC 17025 since 1997 - Accredia accreditation n°: 0141.

The updated list of tests accredited to the Laboratory is available in the databases of the website [www.accredia.it](http://www.accredia.it)

All our analytical activities are supported by Customer Assistance activities: starting from the choice and definition of the Sampling and Analytical Plan to be developed, to the technical support for any issue or necessity that may occur during the implementation of our service.

## Our numbers

- We are **40** technical operators;
- **30%** of us are graduated technicians;
- We are able to issue **15.000** analysis certificates per year;
- We have an average age of about **40** years old;
- **55%** of us are women.

## Our commitment to environmental sustainability

To **offset CO<sub>2</sub> emissions** from our methane thermal power stations, our Group has **planted a wooded area** for a surface of about 60.000 m<sup>2</sup> inside the Company land, which has become an area with high naturalistic interest.

We use electricity produced by our own **photovoltaic systems**, up to 200.000 kW/hour per year.



# Sampling and control - atmospheric emissions



The **sampling activity** is carried out directly by our teams of specialized operators, according to the most updated methods and compliant to UNI EN ISO/IEC 17025 technical regulations.

The activity is carried out in accordance with the standard regulations for every service we provide; for this reason one of our strengths is the **atmospheric emissions control**.

### Isokinetic sampling systems

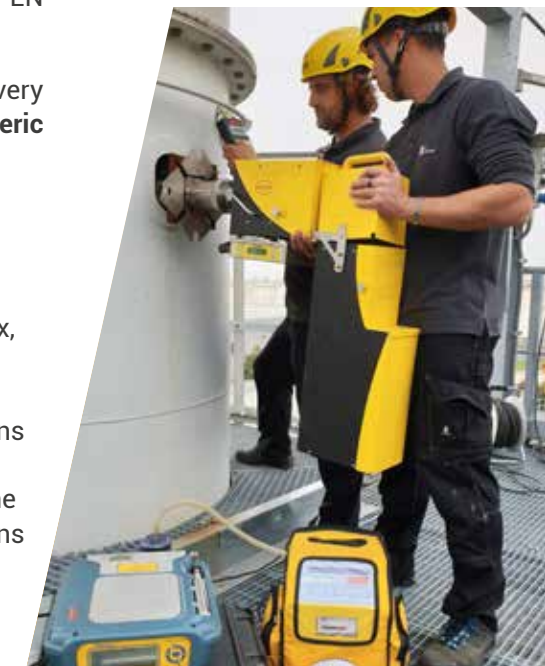
for powders, heavy metals, micropollutants organic (e.g. dioxins, polychlorinated biphenyls, PAHs, etc)

### Organic and volatile inorganic pollutants sampling systems

(e.g. solvents, acids, etc.)

### Continuous analyzers

for NO<sub>x</sub>, SO<sub>x</sub>, CO, CO<sub>2</sub>, O<sub>2</sub>, Methane hydrocarbons and not-methane hydrocarbons



## Waste: classification and characterization

In the field of waste characterization, we offer our decades experience gained within the Depuracque Group, leader in the management of special hazardous and non-hazardous waste.

We offer a **full range of analytical services for the Characterization of your waste**, collecting all the necessary information their correct **Classification and Management** and the following recovery or disposal in suitable plants.

### In particular we deal with:

- **Developing sampling plans**, suitable for Your productive activity;
- **Support you** through the phases of characterization of your waste, **elaborating specific Analytical Plans** for the recovery or disposal of your waste;
- **Classify** your waste according to the current legislation, **defining the appropriate Classes of danger** in the case of hazardous waste;
- **Carry out urban and industrial waste product analyses**, according to the most recent accredited methods;
- **Detect** and quantify the possible contamination of asbestos in your waste;
- **Conduct specific investigations** for emerging pollutants.

## Waste recovery chain

Thanks to the Group's operational integration strategies for the activities of waste recovery, recycling and secondary raw material valorization (End of Waste), we offer our consolidated skills for the waste product analysis, before its disposal in suitable plants.

### We provide specialized and qualified analysis for:

- **The collection and selection of materials** that come from urban waste disposal, in the phases of preparation and subdivision into flows intended for industrial reuse chains, or in CO.NA.I affiliated consortia (National Packaging Consortium);
- **The characterization of waste transformed into S.S.F. (Secondary Solid Fuel)** used in replacement of hard coal in power plants or cement plants, which allows to obtain a sensitive environmental benefit through the reduction of CO2 emissions and energy recovery from waste.





**lecher** ricerche e analisi

**Business Services**



Control and chemical analysis of water discharges

Emissions control and monitoring

Concrete and asbestos control

Sampling plans and waste classification analysis

Sampling and chemical analysis of groundwaters

Measurement of physical agents, noise and vibrations

Environmental surveys, consultings and drafting of Risk Assessment reports

Analysis of agglomerates and building raw materials

Analysis and research on industrial products

Sampling and chemical analysis of surface waters

Consultings and agronomic analyses

Control and chemical analysis of waters intended for human consumption

Sampling plans and chemical analysis of excavated soils and rocks, environmental sanitations and landfills

Product analysis of waste and secondary raw materials

## Water: our most precious common good

Water is a fundamental but exhaustible resource: it is a source of life for all living organisms and it is important for all human activities. **The Italian legislation establishes specific requirements for the chemical and biological characteristics of water, depending on each intended use.**

### We perform samplings and chemical analyses aimed at verifying the Quality Standards:

- **Surface waters**, rivers, lakes, streams, swamps, ponds and run-off waters;
- **Groundwaters**, aquifers located below the surface, stored in the rocks and the subsoil;
- **Waters intended for human consumption**, treated or untreated water, for food and drinks preparation or for other domestic uses, water for agricultural/industrial use and for irrigation;
- **Wastewaters**, waters that can be reintroduced in the environment only after a purification process. Water whose quality has been affected by anthropogenic actions in domestic activities, industrial and agricultural process water, water potentially contaminated with dangerous substances, etc.

## Environmental and industrial remediation

Since the 1980s we have carried out several **control and monitoring activities of contaminated areas** located in our territory, such as the Site of National Interest of Porto Marghera.

We've been involved in collaborations with many companies in the sector, such as environmental consultancy, geological prospecting and geotechnical laboratories, thus to provide a **complete service of characterization within projects of requalification and reclamation** also in synergy with the rest of Depuracque Group, which takes care of the design phase and the operational phase for the realization of the remediation interventions.

**We carry out chemical analyses of excavated soils and rocks, contaminated soils, sediments, survey samples, trenches and excavation bottom.**



- Our laboratory performs **chemical analyses** to search for pollutants and micropollutants, together with **Microbiological Analysis** to identify any microorganisms present;
- We carry out **Ecotoxicity Tests**, able to evaluate and estimate the potential effect of pollution on living organisms;
- We support **Legionellosis Risk Control**, through species-specific analyzes on Legionella Pneumophila bacterium.

## Work environment

We offer services of **indoor and outdoor air quality monitoring**, in order to protect workers and population health and wellbeing.

Through our working team we can define **Monitoring Plans for the assessment of chemical, physical and biological exposure**. The data collected from the campaigns can be drawn up in final reports, along with an interpretation of the results.

### We control the working environment through sampling and analysis of:

- **Chemical agents**, organic pollutants (volatile organic substances, amines, aldehydes, etc.) and inorganic pollutants (acids, metals, hexavalent chromium, ammonia, etc.); mineral artificial fibers and asbestos;
- **Biological agents**, detection of bacteria, fungus and legionella, as dispersed microbiological components and present on the surfaces;
- **Physical agents and microclimate**, mechanical vibrations and noise.



## At the service of the environment: PFAS emerging pollutants

Our laboratory continuously invests in research and technological implementation, in order to **assist each customer in dealing appropriately with any new legal provision**.

Emerging pollutants are produced by industrial activity and transformed or generated during different process phases: the Community legislation, also thanks to the contribution of research institutes, periodically updates the dangers of several substances for the handling or towards environmental and human health.

The attention to these issues has always led us to promptly adapt our technological systems, as it happened **with the PFAS compounds problematic**: we are in fact equipped with a dedicated technical division for the verification and detection of these compounds on several types of environmental and waste matrices.



# Lecher is part of Depuracque's Group



## R.I.V.E. Industrial recovery Venice

We want to play an active role in a context of **sustainable development** and to be active in the growth of the **Circular Economy**, helping to **improve environmental performances** and, at the same time, to pursue **economic advantages for all stakeholders**: partners, customers and citizens who share with us relationships, projects, perspectives and our territory itself as a common good.

R.I.V.E Srl is a **new generation platform located in Fusina** (near Venice), in close correlation with Veritas S.p.A. facilities, whose main focus is **waste recovery management, on the trail of End of Waste operational evolution**.

Born from the primary need for the recovery management of road sweeping soils and beached waste of the venetian lagoon coasts, collected from the municipalities served by Veritas S.p.A., **its services are extended even to private industries through innovative recovery and final inertization processes** of sludges and other types of industrial waste, both solid and liquid.

## Depuracque Servizi - Disposal, Remediation and Treatment Plants

Since 1971, thanks to **fifty years of history for the environment**, Depuracque Servizi S.r.l. provides the own skills in treatment processes and in environmental remediation through design, the construction, installation and management of **Authorized Mobile Treatment Plants in areas of reclamation, or through production wastewater treatment plants at industries and landfills**.

Depuracque Servizi S.r.l. is a **disposal platform for hazardous and non-hazardous special liquid waste based in Salzano**: integrates the service with its own vehicles and skilled specialized operators able to do pick-up and transport services, safety measures and industrial cleaning, video inspections and interventions in confined spaces.

**At the forefront with regard to the issue linked to emerging contaminants, among which the PFAS**, the Depuracque Servizi S.r.l. it is equipped with treatment sections with high technological performance, which effectively allow the abatement of such compounds: in this context, research continues to identify new technologies and effective management methods in order to satisfy the needs of its customers.





[www.lecher.it](http://www.lecher.it)



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SISTEMI DI  
GESTIONE CERTIFICATI

**CQY**  
CERTIQUALITY

UNI EN ISO **9001:2015**  
UNI EN ISO **14001:2015**  
UNI ISO **45001:2018**