

# REMEDIATION OF EX SNIA - VISCOSA FACILITY IN RIETI

The ex-SNIA Viscosa plant, in Rieti, was built in 1928 as an avant-garde center for the production of artificial fibers in viscose rayon, a yarn which was able to replace various types of fabric, such as silk and cotton, thanks to its versatility. Viscose rayon was largely used to produce both fabrics and knitwear. The factory, however, after various vicissitudes and after an irreversible crisis, ceased production in the early eighties, although some buildings remained active until the end of 2006.

After the cessation of the production some areas of the plant have been “made safe” for the part related to plant sections:

- depletion of plant components from liquids used for the process,
- disconnection of electrical and electronic parts,
- interruption of the paths of transfer of liquids used for the process,
- protection of the storage of hazardous materials, etc.

Part of the site has already been made safe and has been object of remediation for the return of the area to commercial or industrial uses. However, there are still scattered refuse of various kinds (scattered solids and liquids in tanks), as well as plant parts to be divested and dispose or recover. From 2010 to 2013 all the operations necessary for the permanent safety have been carried out in order to avoid possible contaminations of the environmental matrices. In particular asbestos-containing materials were removed and disposed and storage of carbon disulfide (substance used in the production of viscose and highly flammable even at low temperatures) has been emptied, hardened and disposed. Waste disposal overground are still ongoing with the final steps and site-specific risk analysis will be developed, as well and final remediation project.

## DESIGN DATA

**Private client** M.P.S. Leasing & Factoring S.p.A.  
**Tasks assigned and carried out** Design, supervision and safety of works  
**Amount of work performed** € 2.000.000,00  
**Location** Rieti  
**UTM Coord. (Zone 33S)** 323,270 E - 4,697,880 N  
**Site area** 170.000 m<sup>2</sup>  
**Built-up areas** 39.500 m<sup>2</sup>  
**Period of activity** 2011 - 2012

## TECHNICAL DATA

Mapping of all overground scattered waste (solid and liquid industrial origin): approximately 800 tons of hazardous waste and about 340 tons of non-hazardous waste  
 Characterization, remediation, transport and disposal of hazardous wastes considered to be highly critical for the environment: about 625 tons  
 Characterization, remediation and disposal of asbestos-containing materials  
 Disposal of carbon disulfide storage used in the productive activities of the factory site and reclamation and decommissioning of the tanks  
 Activities to be carried out  
 Supplementary  
 Characterization of the foundation soils of the buildings which have not yet investigated  
 Development of the final conceptual model of the site  
 Site-specific risk analysis  
 Operative remediation project

