

I TRACCIATI ACQUEI DELLA CITTÀ DI VICENZA. Analisi, valutazione e conservazione nelle strategie di valorizzazione del tessuto urbano

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Abstract.

The research topic is to analyse and enhance water routes in Vicenza, mainly referring to Roggia Seriola among Giardini Valmarana Salvi.

The activities start in 2014 within the frame of a planning strategy for rainwater disposal system in the North-West part of the city. In this occasion starts a further investigation (analysis, inspections and research activity) on the sustainability of a hydraulic improvement of Roggia Seriola as a clean source for the moat of the Giardini Valmarana Salvi and an open-air water mirror next to the ancient urban walls. The aim is to solve the absence of natural water recycle, the leading cause of algae growth on the surface of the water mirror, particularly dangerous for the proximity with Palladian Loggia Valmarana and Loggia Longhena. Some interventions on the ancient water-installations occurred like cleaning from incrustations with innovative techniques, and temporary installation of new water recycle system to oxygenate the water and stop the phenomena of eutrophication. This experimental approach unveils the disappearance of turbidity and elimination of algae.

The paper describes interventions, activities and evaluates the close connection between proposals for enhancement of Roggia Seriola and urban conservation strategies for revealing meaningful historical traces in Vicenza, a research topic at the base of a memorandum of understanding between Comune di Vicenza e Università Iuav di Venezia in activities linked to education, research and public engagement.

Keywords: *cultural heritage, water routes, conservation in urban planning, Hydraulic engineering*