

DURRIDGE []

Radon Capture & Analytics

Quarterly Newsletter - Q2

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Tips, News & Updates from DURRIDGE

In This Issue: Radon In Drinking Water

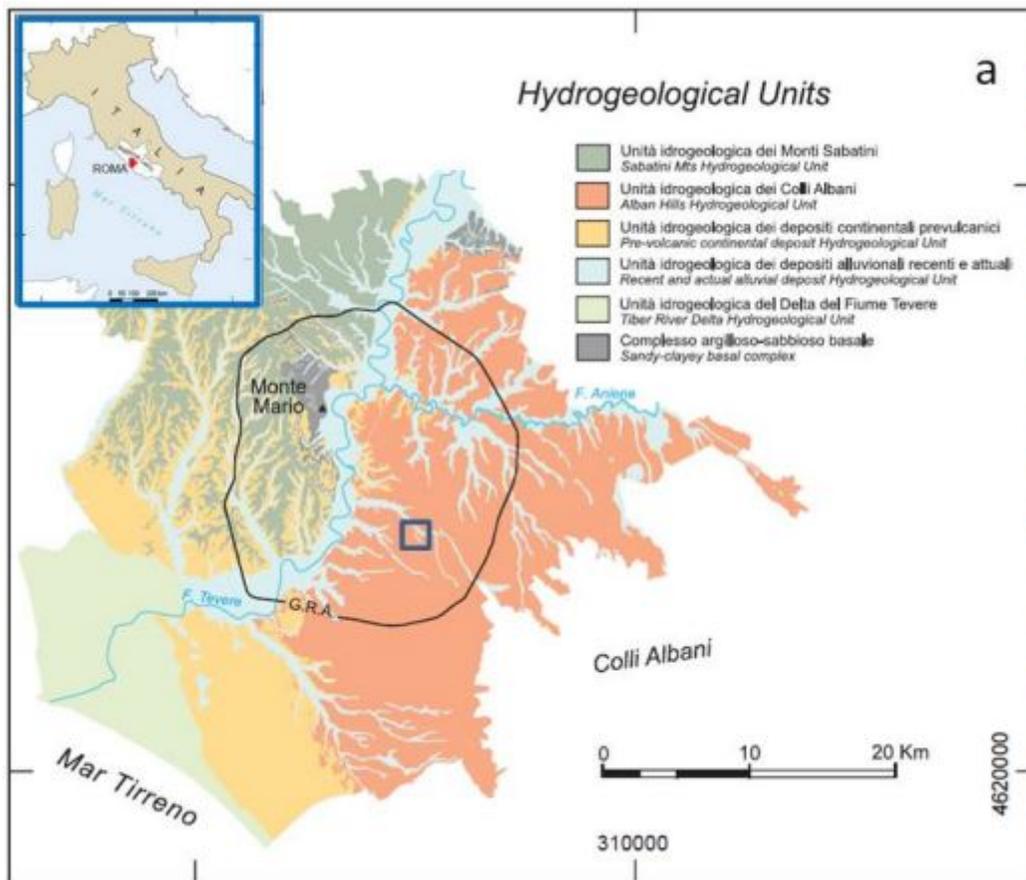
A significant number of DurrIDGE's customers use the RAD7 to monitor radon (and often thoron) as a tracer in groundwater or surface waters for geological research. However, several studies have also been conducted to measure radon in drinking water since ingestion of high enough concentrations can pose a health hazard. Based on a National Academy of Science report, the US EPA estimates that radon in drinking water causes about 168 cancer deaths per year: 89% from lung cancer caused by breathing radon released to the indoor air from water and 11% from stomach cancer caused by consuming water containing radon. In fact, a 2019 study by researchers in India found that 35% of groundwater samples used for drinking water contained radon levels higher than European Union guidelines: [Risk assessment of radon in drinking water in Khetri Copper Belt of Rajasthan, India](#)



Good Reads

Naturally occurring ^{222}Rn is recognized as a powerful environmental tracer in hydrology. Radon-in-water concentrations can be measured in the field by stripping radon from a water sample into a gas volume and measuring the respective radon-in-gas concentration using a portable radon-in-gas monitor.

Alternatively, radon can be extracted from the water body by diffusion through a radon exchanger such as polypropylene (PP) tubing and then is measured using a radon-in-gas monitor, connected in closed-loop to the PP membrane. This paper discusses results of field experiments in which the Water Probe (Durrige co.), a 2.2 m long PP tubing connected to a RAD7 monitor, is used to determine dissolved radon concentration in four water bodies characterised by different water flow velocity and radon concentration: "[Testing the radon-in-water probe set-up for the measurement of radon in water bodies](#)"



Did You Know?

Several accessories can be used with the RAD7 to measure radon in water, depending on your project requirements. The application note "Product Comparison: Radon In Water Accessories" provides descriptions of each accessory and the applications to which they are suited. [Click here to learn more.](#)



[RAD H₂O](#)



[RAD AQUA](#)



[Big Bottle System](#)



[Water Probe](#)

DURRIDGE Tip

If you are using RAD7, or several RAD7s, to collect data on a long-term or ongoing basis, it can be challenging to organize and search for RAD7 data files, or to share them with colleagues. This becomes more difficult on a collaborative project where several participants can be in different locations. An efficient solution to this problem is CAPTURE CLOUD - [see a short video.](#)



Radon in the News

Georgia State researchers receive \$1.2 million grant to develop novel radon testing system - read more [here](#)

Global Reach

Customers in Europe can now purchase the RAD7 and accessories on RadonMarket.com. This online marketplace is hosted by Niton srl, located in Italy.



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