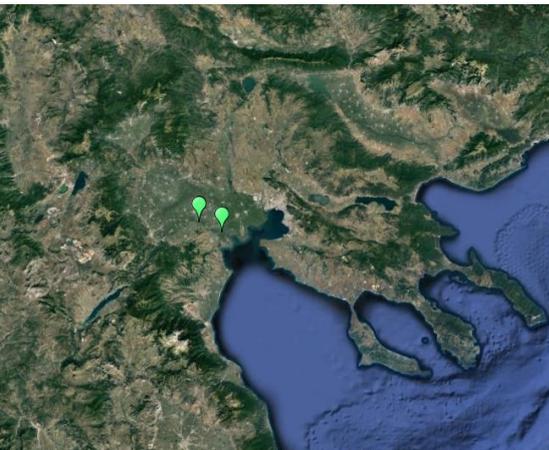


Case Study

CONTINUOUS MONITORING OF ALIAKMON RIVER



SCIENTACT



Brief Description:

Project : Telemetric system for the measurement of the quality and quantity of Aliakmon River

Where : Downstream – Upstream of PATHE Motorway (Aliakmon bridge)

When : 2017

Project Administrator:

AEGEAN MOTORWAY SA
SSW

SOIL AND WATER RESOURCES
INSTITUTE

Important !

Extremely low demand for maintenance

Important !

Completely telemetric

Project identity:

Supply and installation of two telemetric stations, for the measurement of quantitative and qualitative water parameters of *Aliakmon* River. The stations were installed, upstream and downstream of the motorway's bridge in suitably configured positions. The system, was purchased by *Aegean Motorways*, on account of *SPECIAL SECRETARIAT FOR WATER*. Operation of the system is made by *SOIL AND WATER RESOURCES INSTITUTE*, of *Greek Agricultural Organization – DIMITRA*.

The station upstream of the dam, measures the quantitative parameters of water, *Level, Speed και Water Supply*.

The station downstream measures the total quality of water and more specific, *pH, ORP, Conductivity, TDS, TSS, Turbidity, Temperature, DO₂, Salinity, BTX, DOC, TOC, NO₃, UV254, UV436, Total Absorbance Spectrum, Contamination's Events Tracking*.

One of the most complete systems in Europe

More than physicochemical parameters, the station is equipped by a submersible spectrophotometer, which can detect constantly the total qualitative condition of water and in cases of alternations by any cause, it informs automatically the administrators and also automatically it activates an automatic sampler which is installed at the station, so after that to be able to confirm the event at the laboratory.



For the installation and the correct operation of the stations, special configurations have been made, that assures the correct operation, the correct measurements and also the security of the systems from flooding events and floating materials.

Portable system for the Water's Cross-Section Imprint

We delivered the most modern and most accurate portable system, for the measurement of the supply and also the simultaneous imprint of the water's cross-section. The instrument is technologically the most advanced in the global market.



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CASE STUDY

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Measured Parameters

pH

ORP

Conductivity

TDS

TSS

Turbidity

Temperature

DO₂

Salinity

BTX

DOC

TOC

NO₃

UV254

UV436

Total Absorbance Spectrum

Contamination's Events Tracking

Level

Supply

Rain

