

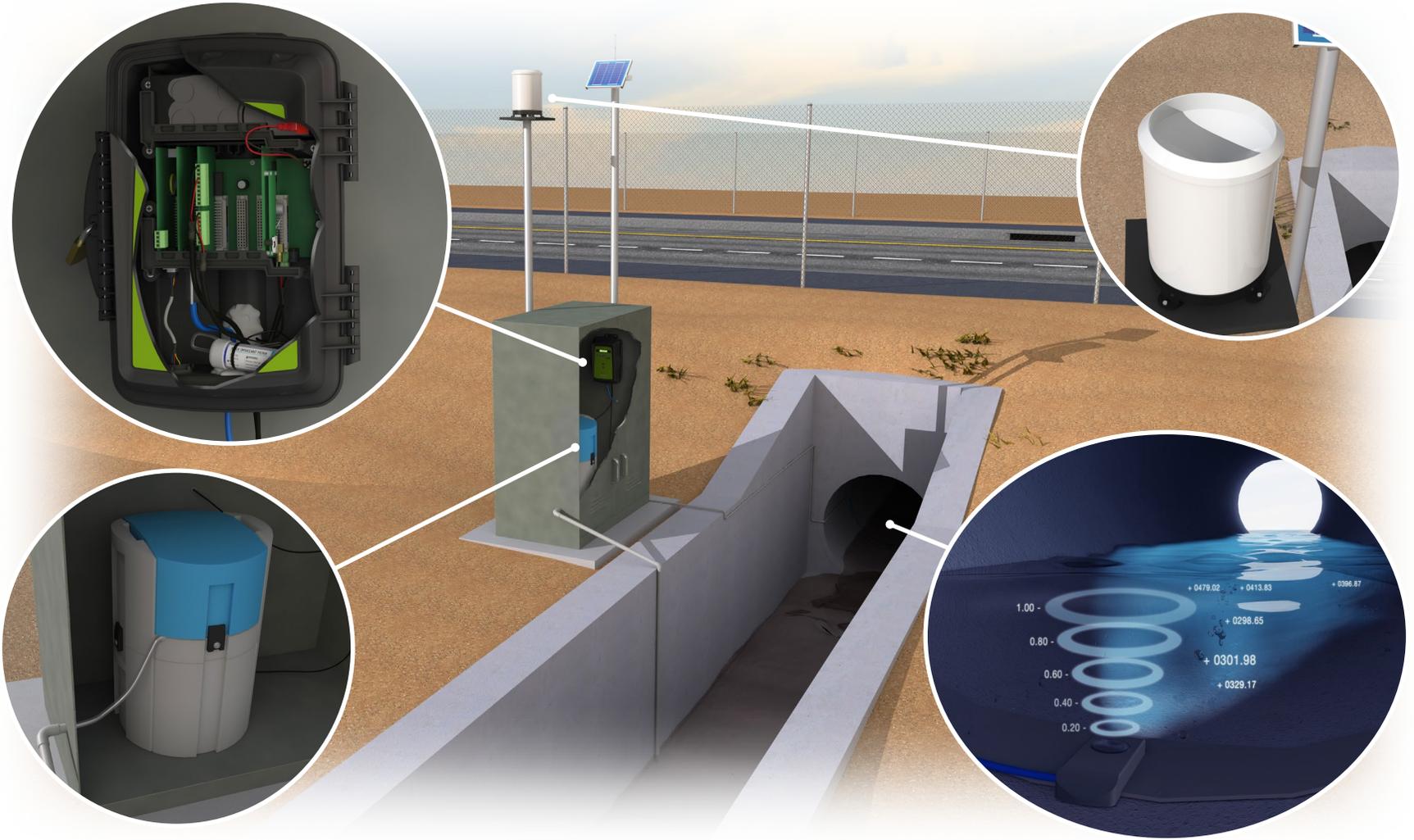
## Storm water monitoring

*With increased urbanisation, storm water run-off has become an increasingly important problem. Storm water pollution, protection and mitigation can only be effective if the storm water flows themselves are monitored and quantified, not only for pollutants but also volumetrically.*

Typically, storm water is conveyed through open channels and partially full pipes. The MACE FloPro XCi is ideally suited to measure these flows. The often turbulent flows with high levels of suspended solids are perfect for MACE Doppler ultrasonic flow measurement. Combined with a downward looking ultrasonic depth sensor, storm flows up to 10 m/s (33 ft/s) can be accurately measured.

Moreover, with the Input/Output capabilities of the FloPro storm water quality parameters can be measured (using 3rd party sensors for DO, pH & turbidity etc), and volumetrically sampled by driving a water sampler.

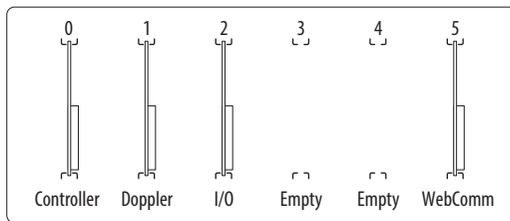
In the example shown, the FloPro XCi is monitoring a typical storm water culvert along a highway. In conjunction with a MACE Doppler ultrasonic area/velocity sensor, rainfall is measured and a sampler is also interfaced. With a MACE WebComm card installed, these readings are available 24/7 on the MACE website, as well as having the ability to be alarmed via SMS/email to any mobile phone.



### FLOPRO XCi



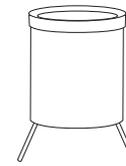
### CARD SLOT CONFIGURATION



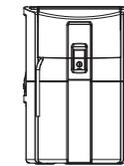
### SENSORS/PERIPHERALS



GSM Antenna



Rainfall Gauge



Water Sampler



MACE Doppler Ultrasonic Area/Velocity Sensor