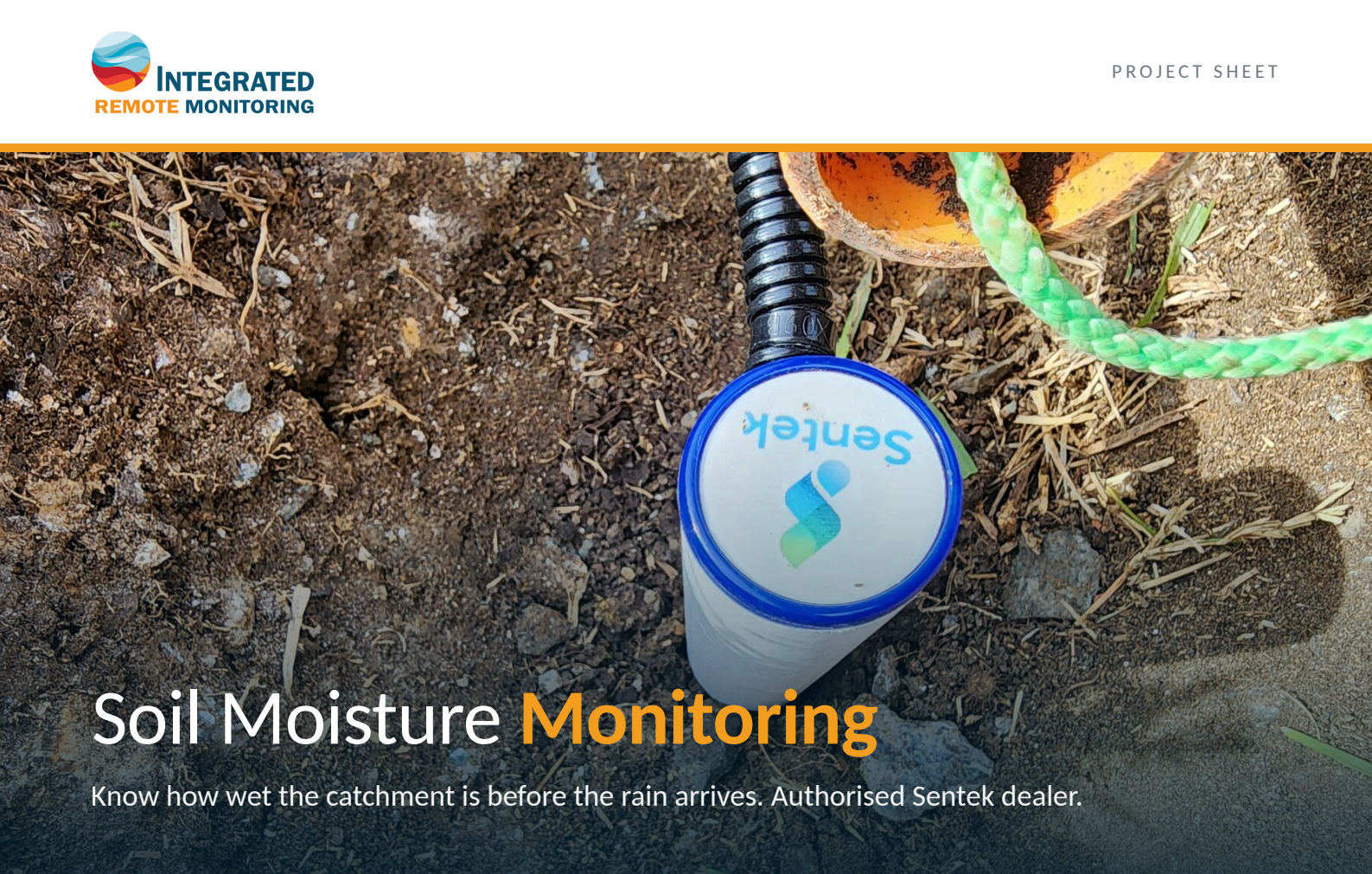




Soil Moisture Monitoring

Know how wet the catchment is before the rain arrives. Authorised Sentek dealer.

How much rain turns into runoff depends on how wet the ground already is. Soil moisture probes installed at flood warning stations give council an early read on catchment conditions, from the surface down to 1.2 m.

1.2 m

Full soil profile

Every 10 cm

Moisture, salinity and temperature

Sentek dealer

Authorised supply, install and support

What we deliver

- Site selection clear of trees, drainage lines and disturbed ground
- Sentek Drill & Drop™ probes supplied and installed as an authorised Sentek dealer
- Cable in conduit to the station, wired to the logger via SDI-12
- Shared power and telemetry with the flood warning station
- Moisture, EC/salinity and temperature channels configured
- Live dashboards and data exports for your team
- Health checks during the station's scheduled service

Adding value to existing stations

A flood warning station already has power, a logger and telemetry, so adding soil moisture costs far less than a stand-alone site. Readings sit next to the station's rainfall and river level, which makes it easy to see how the catchment is responding. Sealed probes can't be repaired, so we check every channel at each service and plan replacements before a wet season.

Queensland councils: we're a Local Buy pre-qualified supplier (LB312), so you can engage us directly without running a full tender.

Project snapshot

Probe replacement at a creek-side flood station, South East Queensland (2023)

During a water quality network assessment we found this station's soil moisture probe had failed: no communication, and as a sealed unit it couldn't be repaired. We installed a new 1.2 m drill & drop probe in fresh ground beside the station, ran the cable in conduit to the pit and wired it into the new logger. It now reports moisture, salinity and temperature at 10 cm intervals, alongside the station's river level and rainfall.

Probe	Sentek Drill & Drop™, 1.2 m
Measures	Soil moisture, EC/salinity, temperature
Resolution	12 sensors at 10 cm intervals
Logger	Campbell Scientific CR300 with 4G, SDI-12
Power	Shared with the flood station
Data	eagle.io dashboard
Outcome	Soil moisture record restored



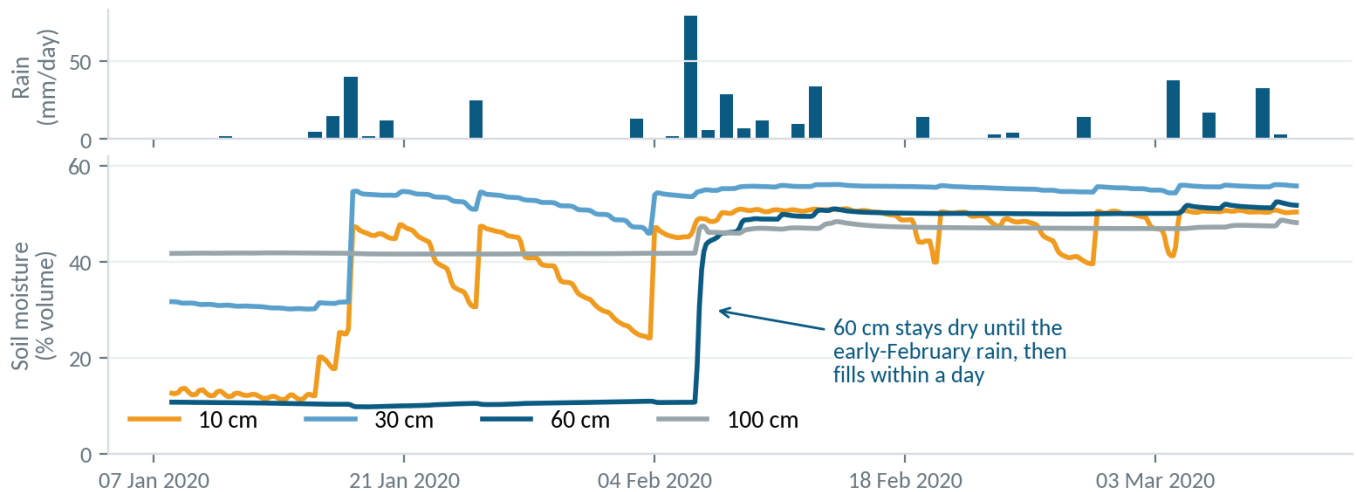
Drill & drop install beside the station



Cable run in conduit to the pit



Probe wired into the station logger



Real data from this station's original probe, summer 2020: the surface wets and dries with each storm, while deeper soil only fills after sustained rain.

How we work

1

Assess

Soil, site and station

2

Install

Drill & drop probe

3

Integrate

Logger, power, telemetry

4

Configure

Channels and dashboards

5

Maintain

Checks every service

Talk to us about your network

Call 0408 255 779
Email admin@integratedrm.com.au
Web integratedrm.com.au



Local Buy pre-qualified supplier (LB312)
 Floodplain Management Australia member
 Australian Hydrographers Association member
 Operating since 2018