Logistics Park
Project Case Study

Location:
Western Sydney, NSW, Australia

Client:
Geomotion Australia

Application Summary:
Monitoring ongoing settlement of engineered fill

Tags:
ipx; settlement; consolidation; retro-fit; urban development;

Description:

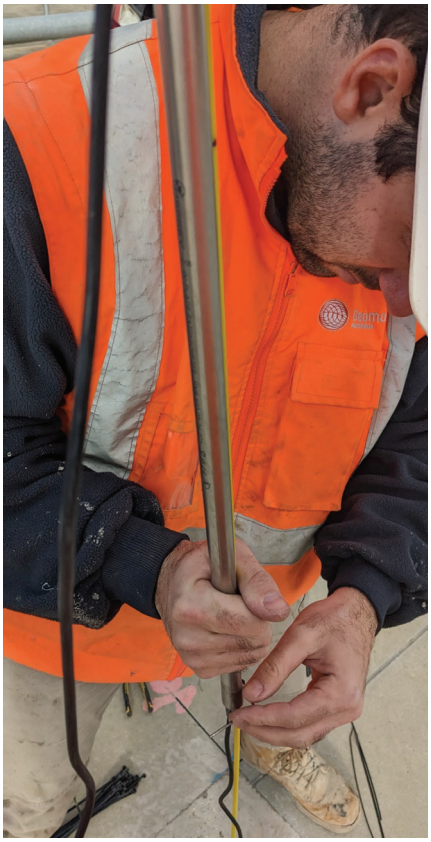
Nearly 20m of fill was placed to provide the foundations for a large logistics park in western Sydney. Due to the high tolerances of the automated picking equipment used in logistics parks, differential settlement can cause significant problems. In order to monitor ongoing settlement of the embankment, two magnetic extensometers were installed, originally with a view to monitor manually. Since the movements within the fill were very small, picking up trends using manual surveys can take some time due to the methods relatively coarse precision. By installing In-Place Extensometers, surveys could be automated and displacements measured with sub-millimetric accuracy, allowing trends to be identified in a matter of days as opposed to months.

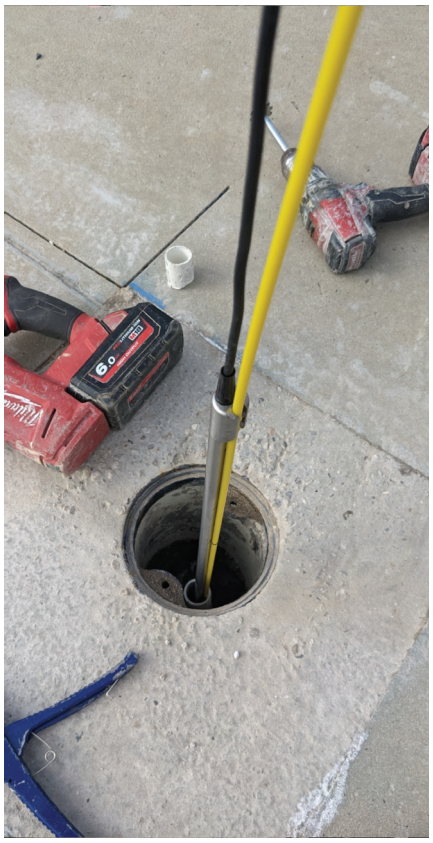
A low power digital data logger was connected to the IPX string to take measurement 4 times daily. The data is collected manually at regular intervals to allow the consultants to

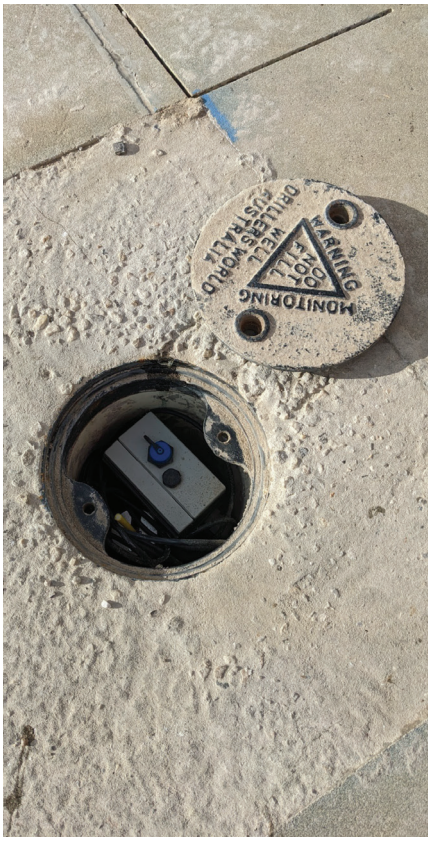
Key Benefits:

- High Precision
- Automated
- Low profile headworks

The In-Place Extensometer offers automated sub-millimetric precision, meaning settlement trends can be picked up in a much shorter period of time when compared to manually monitored systems. Thanks to its low-profile headworks, the entire system, data logger included, can be housed within a 180mm flush well cover. This makes it ideal for installation in trafficked areas.







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