

# CASE STUDY SURF/WAVE PARK MELBOURNE, AUZ

FLEXI-C-MENT STABILIZING WITH RECYCLED  
CONCRETE - MELBOURNE WAVE PARK



PRODUCT FLEXI-C-MENT POLYMER SOIL STABILIZER

ENGINEER OZ GEOES PTY LTD

CLIENT URBAN SURF PTY LTD

CONTRACTOR ERTECH PTY LTD

LOCATION TULLAMARINE, MELBOURNE

WHERE SCIENCE



MEETS THE EARTH



## **PROJECT- Urban Surf Wave Park**

**December 18 – September 19**

Urban Surf Wave Park is a project designed to be a world-class tourism destination. It's Australia's first facility to offer a wave park for recreation, sports, emergency services training, school programs and youth development. Gravel Lock is proud to provide the solution to this Company using recycled concrete over expansive silty clays with CBR's of less than 1.5

### **DESIGN – RECYCLED CONCRETE**

**2ltrs Flexi-C-Ment and 8kgs of Cement per sqm**

Total of 20000sqm

Recycled aggregate, cement and polymer batch milled off site, bought in by truck at the optimum water content reducing the need for water trucks.

Bach mill, trucks, grader, roller, bobcat, labourers.

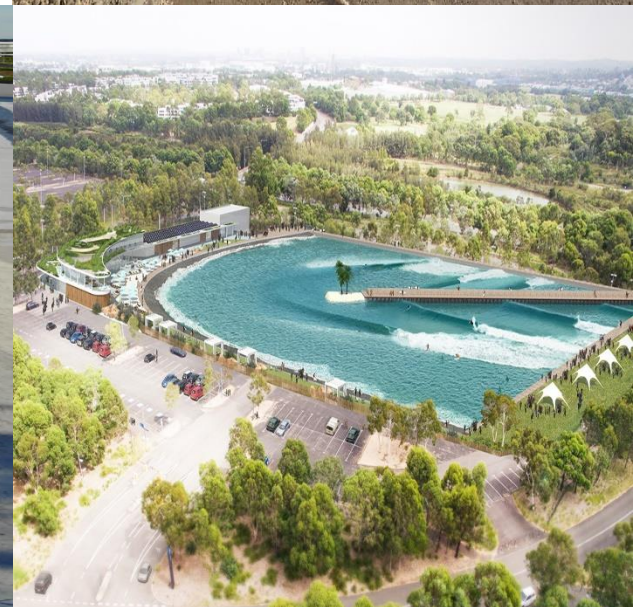
Project took a year to complete due to weather constraints

### **INSTALATION**

A project of this magnitude doesn't come without highly complex challenges. Recycled Concrete was used from the Melbourne Airport repair, it was crushed, blended with pap 7 fines and used as the base aggregate for this site. Gravel Lock in conjunction with all other contractors worked tirelessly on design concepts for the stabilizing of the wave pond base and was on every installation of Flexi-C-Ment until the contractor was confident that they had the procedure exactly as specified.

### **THE PRODUCT PROVIDED THE BENEFITS TO THE PROJECT**

- Used 100% recycled concrete from the Melbourne Airport for the construction aggregate
- Providing a pavement that can take the stress of over 1000000 waves per annum
- Resolved the problem of high degrees of expansive clays with plasticity indexes of 50-75%
- Quick and easy to install with minimum construction equipment



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