

PRIMARY AND ACID PHASE BIOCAP® DIGESTER GAS COVERS FOR WEST CAMDEN STP

CASE STUDY



THE CLIENT

The West Camden STP which is operated by Sydney Water can process up to 23MLD of wastewater. The plant provides tertiary treatment with nutrient removal and disinfection.

OVERVIEW

To cater for population growth the biosolids facility was upgraded to include new anaerobic digesters and retrofit of equipment to the existing units.

Hydroflux Epco, a Hydroflux Group member, provided a turnkey package for the digester as follows:

- 1 x BioCap® Floating Gas Cover
- 2 x BioCap® Fixed Gas Covers

The anaerobic digesters produce a Grade B stabilised product that is beneficially reused. Two new acid phase digesters were constructed along with a new mesophilic digester.



The gas covers were provided with the necessary ancillaries, such as the ballasts, sight port assemblies, sample hatch covers, pressure/vacuum relief valves and emergency relief valves.

Key Benefits:

- In sludge digestion equipment with over extensive expertise 80 references.
- Robust design and construction of the floating and fixed gas cover with heavy duty roller assembly.
- Fully insulated gas cover.
- Incorporation of ancillaries such as pressure relief/vacuum relief valves, site glasses, level probes and sample hatches.
- Peripheral handrails provided as part of the package.
- Pre-fabricated and assembled prior to installation.

Item	Value
Acid Phase Cover Diameter	4.5m
Cover Type	Fixed
Gas Phase Cover Diameter	13.5m
Cover Type	Floating