

# WALTERS

## Lining Works at Newport Landfill



### Project:

Maesglas, Newport, Lining and Drainage Works

### Client:

Newport City Council

### Value:

£0.6 million

### At-a-glance:

- 500m of leachate drainage (3m deep)
- 2000m<sup>3</sup> uPVC Leachate containment tank
- 800m storm drainage system
- Piled reinforced concrete tidal storm outfall to the River Usk estuary

Hirwaun House, Hirwaun Industrial Estate, Hirwaun, Aberdare CF44 9UL

T: 01685 815100

F: 01685 815101

[www.walters-uk.co.uk](http://www.walters-uk.co.uk)



Walters is accredited to ISO 9001 for Quality Management, ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health & Safety.

## Challenges

The Maesglas lining and drainage project was awarded by Newport City Council as a means of improving leachate control at its Docks Way landfill site. The improvements were monitored and had to meet specific standards outlined by and agreed with the Environment Agency.

As leachate can contain a number of environmentally hazardous chemicals it is important that it is contained and prevented from contaminating surrounding areas and the local water table.

## Solution

Walters constructed a 500m leachate drainage up to 3m deep, in addition to a 2000m<sup>3</sup> uPVC leachate containment tank.

A separate 800m storm drainage system, outfalling into the River Usk estuary, was constructed in addition to a piled reinforced concrete tidal storm outfall.

Walters was also responsible for a clay leachate cut off barrier that was installed along with independent leachate and storm systems.

Maintenance of the area included the surveillance of existing methane gas collection systems.