

CULVERTS – WALES – UNITED KINGDOM

Some views of sub culverts beneath a new bypass to alleviate severe flooding conditions in Bangor-On-Dee, Wales.



Culverts rusted from nitrates in the field water.



County Council engineers doing an inspection.



The pitting in the HDG was very deep.

Problem: Heavily nitrated water from adjacent farm fields was lying with the corrugations of the sub-culverts and was oxidizing the HDG at an accelerated rate. These culverts were heavily pitted and were in danger of perforation.

Surface preparation

- Brushing out soil before blasting
- Hydro-blast: to remove all mud and salts

Application of **ZINGA** to 140 µm DFT



Brushing out the sand and soil before blasting.



Ready for blasting and coating the culvert steel.



After ZINGA application

Application was finished in January 2008

System:
Zinga : 2 x 70 µm DFT