

## • A BioTector® TOC Success with Salt Samples

- *ON-LINE TIME >99% SINCE INSTALLATION IN APRIL 1997, IN A HIGH SALT APPLICATION*
- *PROVEN LOW RUNNING COSTS WITH MINIMAL SPARE PARTS USAGE*
- *PROVEN LONG CALIBRATION INTERVALS*

### Requirement

The wastewater from the Dursban® Plant of the Dow Chemical Company Ltd. (UK), has a high salt content which typically ranges from 1% to 5%. A TOC analyser was required that would *work continuously while analysing water with a high salt concentration*. After a short trial period, a BioTector® 970 was permanently installed and has been in operation since April 1997.

**DOW CHEMICAL COMPANY LTD.**

Dursban® Plant  
King's Lynn, Norfolk  
UNITED KINGDOM

### The BioTector® Solution

The BioTector® 970 pioneers the Advanced Oxidation Method. Hydroxyl radicals are used to oxidize the organic material in the wastewater and any salt residues are flushed from the analyser at the end of each reaction cycle. Thus, there is no build up of salt crystals in the BioTector® reaction chamber.

The BioTector® readings are not affected by the presence of salts in the samples. Tests have shown that the BioTector® can operate even with salt concentration of greater than 20%.

The successful operation of the BioTector® has allowed Dow Chemicals to optimise the operation of their final effluent treatment system. *Over just a short period, savings, which resulted from this optimisation, has already paid for the installation of the BioTector®.*

### The Installation



*The BioTector® is installed in an insulated imitation brick GRP housing on the banks of the effluent treatment lagoon for the Dursban® plant.*

*Dursban® is a Dow Chemical registered trademark.*