

## **Development of construction technique for building impermeable wall of sluiceway**

### **[ Point ]**

Safety for water control has been concerned because there are cases in which void in the lower part of sluiceway influences dike safety in no small measure. Currently, countermeasures such as grouting construction method is applied, but establishment of efficient and economical construction method of building a local impermeable wall has been required. For this reason, this development was conducted for the purpose of establishing building technique of impermeable wall by improving soil around the existing sluiceway case, and for the purpose of establishing countermeasure construction method such as a technique for constructing impermeable film with integral behavior with a case by the minimum earthwork.

As a result, it was possible to build an impermeable wall around a case by applying the existing soil improvement construction method, in the case with impermeable wall building technique by soil improvement, and the possibility as a countermeasure technique was verified. Countermeasure technique was only reviewed and suggested in the case with the method by impermeable film.

Keywords: sluiceway, impermeable film, impermeable wall, dike