



Final Remediation of the Hazardous Waste Site Bonfol

Client
General Contractor
Design

Joint Venture Partners

**Managing Contractor, Technical
Management**
**Final Remediation of the Hazardous
waste Site Bonfol**

bci Betriebs-AG
Groupement DI Bonfol
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Dept. for Environmental Engineering
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Lot A: Renaturation of the Landfill
Construction, facility management and later dismantling of the complete infrastructure
Removal of the landfill material

Project

The waste site Bonfol was operated in a former clay pit between the years 1961 and 1975. In 1976 the site was closed.

After two safeguards the Canton Jura demanded the complete remediation of the landfill in 2000.

In the context of a functional tender (ideas competition) the Groupement DIB has won the contract for the lot A.

The renaturation of the landfill involves the planning process, realisation and later dismantling of the complete infrastructure as well as its maintenance, the removal of the landfill material and the restoration of the ground area and walls of the former clay pit.

Core of the project is the suspended roofing carried by 150 m wide spanning arches, supporting two crane grippers used for the excavation of the waste. The hall will be covering half of surface of the landfill. Within the removal phase the hall will be shifted once over the landfill.

Construction Period

Construction of the infrastructure 2007- 2009

Removal of the landfill material 2009 bis 2013

Dismantling of the infrastructure 2014

Contract Sum in CHF

ca. 50 Mio.

Services

Planning:

- including the planning and procedures for building permission, designs for entire construction

Construction of the on-site infrastructure:

- roads, paths, railway connection, conduits for water and electricity supply, sanitation

Construction Excavation Hall: (floor area 18'300 m²)

- shiftable hall construction, arch construction with a span of 150 m by 122 m length

Construction Preparation Hall: (floor area 4'400 m²)

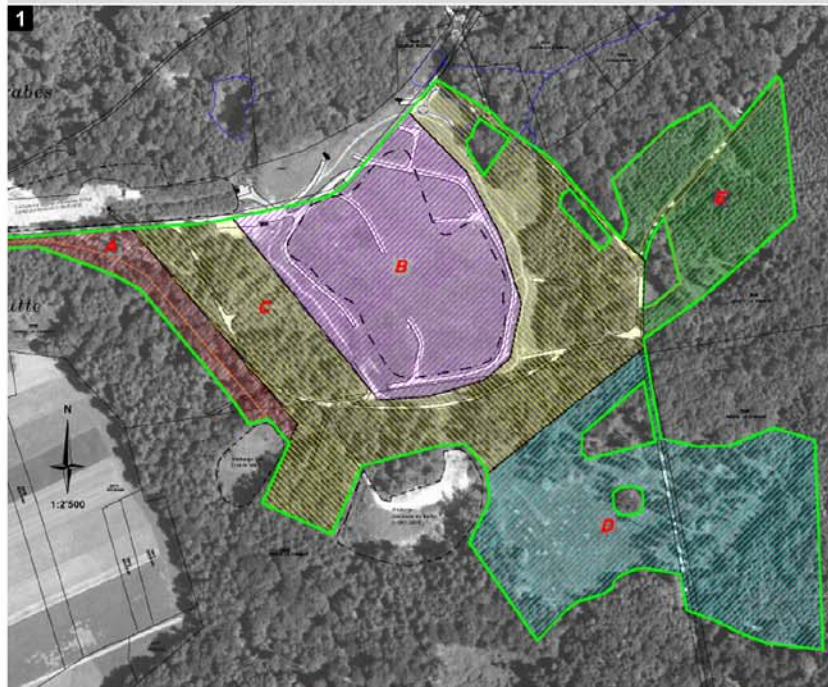
- preparation hall utilised by lot B (packaging and disposal of the waste)

Construction Pavillon (floor area 670 m²)

- visitor information and exhibition, offices, laboratory

Excavation of the waste: (ca. 150'000 to)

- remote-controlled removal of the landfill material by crane-gripper-system, no moving of machines on landfill necessary, no personal within endangered areas of the excavation hall



1. Archiv: disposal of waste

2. Visualisation of remote-controlled crane-gripper-system