

Lyon Confluence project Creation of a harbour basin

Land remediation works



Country

France

Client

SEM Lyon Confluence

Date

2004-2008

Cost of works

€ 15 M excl. VAT

Sogreah's services

Project management

- ▶ Project concerning the management of contaminated soil that needs to be excavated in order to create the basin
- ▶ Tender documents and contract award
- ▶ Works monitoring and validation of remediation solutions proposed by contractors
- ▶ Environmental audits of the building site in the context of the Environmental Assurance Plan (EAP)
- ▶ Works acceptance procedure



View just before the connection of the basin with the river Rhône

Context

In the context of the Lyon Confluence urban redevelopment project on the former industrial site on the Perrache peninsula in Lyon city centre, SEM Lyon Confluence, which is dedicated to this project, commissioned Sogreah to carry out a project management assignment for works concerning the creation of a harbour basin planned beside the River Rhône, involving the excavation of

large volumes of various kinds of contaminated soil.

Works description

- ◆ Summary of site investigations (soil, surface-water and groundwater), initial estimate of contaminated soil volumes, grid and map of polluted areas, definition of supplementary assessment needs to include in future site remediation works contracts.
- ◆ Drafting of remediation and basin creation works specifications in the context of a hazardous installation authorisation application for the building site.
- ◆ Tender documents for works contractors, assistance with the technical analysis of their offers, in particular concerning the following points:
 - soil management methodology and monitoring of excavated

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soil traceability;

- choice of the proposed treatment possibilities;
- environmental management of the building site, hygiene and safety measures.

- ◆ Monitoring of works, checking of building site requirements set by local authorities, (in particular in terms of control analyses, traceability, leakproof storage areas, environmental hazard prevention, document management, etc.).
- ◆ Building site environmental audits using contractor EAPs

and dedicated audit sheets concerning:

- the keeping of documents and procedures;
- the set up;
- the implementation of measures on-site.

- ◆ Supplementary environmental studies (connection of the basin with the river Saône once the sluice is opened, modelling of water flows and of water quality, dimensional design of the basin water renewal system using pumping in the alluvial

aquifer, set up of water quality monitoring, etc.).

- ◆ Supervision of works implementation, verification analyses, acceptance procedure.



View of the site before excavation to create the basin: grid of soil quantities to be excavated using suitable authorised channels, leakproof storage areas, riddling, monitoring of the excavated soil, monitoring of water quality during the whole works period.

