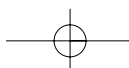


Installation of Remediation Plants for ExxonMobil at various Locations



BAUERUmweltgruppe

Client:	ExxonMobil, Europe
Engineering Design and Supervision:	FWS Filter- und Wassertechnik GmbH
Scope of Works:	Design, Set Up, Initial Operation, Operation and Dismantling of treatment plants for ExxonMobil Gas Stations
Contract Period:	since March 2004





BAUERUmweltgruppe

Project

FWS Filter- und Wassertechnik signed a basic agreement with the ExxonMobil containing the design, set up, initial operation, operation and dismantling of treatment plants for ExxonMobil gas stations. If necessary the contract also contains the installation of well pumps, hydraulic pipes, power cables and control elements.



Remediation plant for dissolved pollutants installed in a common freight container with a capacity of 5 m³/h.

Result

The treatment plants consist of 10 ft respectively 20 ft containers, equipped with leakage detection, ventilation and heating. The switch cabinet is equipped with a logic control and an integrated electric meter. Thus an intermediate operation is possible. The water inflow is controlled by a water meter and a pressure control. Additionally water samples can be taken by a sampling point outside of the treatment plant. Further samples are taken after each treatment unit.

Suspended matter is removed by sand filters, which are manually back-washed. Discharge and disposal of the waste water produced by the back washing takes place after consultation with the responsible supervisor. Water for the back washing is supplied by the treatment plant itself or taken from external sources.

After sand filtration the polluted water is treated by two activated carbon filters, with a capacity of 1,000 litres, connected in series and subsequently discharged into the canal.

Maintenance of the plant is carried out once a month with control of flow rates, at this time samples can be taken by a laboratory assigned by the client. A 32 A – CEE-connection is necessary as electric power supply.



By using special activated carbon, for pH-adjustment to the necessary levels for infiltration, high investments for carbonate balance regulation can be avoided.

Remediation Site

Based on the basic agreement treatment plants are supplied for ExxonMobil by FWS at short notice. The plants are customised for the special requirements of the requested remediation site. Based on the given contract more than 30 treatment plant were realised so far. Operational costs for the treatment plants are the same inside Germany, Austria and Switzerland, simplifying cost planning.

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