

INDUSTRIAL WASTE TREATMENT



CASE HISTORY

Soil Bioremediation



DATE

October 2018

LOCATION

Moslavacka Gracanica, Croatia

CORTEC®/BIONETIX® REPRESENTATIVE

CorteCros Ltd.

CUSTOMER

STSI member of INA Group

PRODUCT

BCP35S™

BIOSURF™

PROBLEM

During oil and gas exploitation in the oil fields, pipelines and storage tanks sometimes crack and contaminate soil as a result. Soil pollution with various oils, diesel fuel, etc. also happens during exploration and drilling of new wells.

When replacing underground reservoirs at petrol stations, it is necessary to remove the soil around the reservoir. This soil is contaminated with gasoline and diesel fuels.

The customer had a statutory duty to remove all contaminated soil from the oil and gas fields and gas stations.

In 2015, the customer started with a pilot project for soil bioremediation using Bionetix® products.

Based on positive results during the 2015-2017 pilot project, the customer built a landfill for the treatment of contaminated soil. According to the customer's plans, 3000-5000 tons of soil per year need to be decontaminated using bioremediation process.



APPLICATION

The following procedure was adopted for bioremediation:

1. Contaminated soil is collected from oil fields and transported to the landfill. Contaminated soil undergoes laboratory analysis.
2. Based on laboratory analysis, the product is prepared for bioremediation.
3. Contaminated soil is leveled to a height of 0.5 meters. BCP35S™ and BIOSURF™ are mixed with fresh water and sprayed on the surface of the contaminated soil, which is simultaneously agitated. The customer uses Bionetix's "BIOREMEDIATION OF PETROLEUM HYDROCARBON CONTAMINATED SOILS WITH BCP35S™ AND BIOSURF™" procedure.
4. The process of mixing contaminated soil and spraying with the fresh water/BCP35S™/BIOSURF™ mixture is repeated every 10 days.
5. After 3-5 months, depending on the type of pollution (crude oil, gasoline, diesel), the soil returns to nature completely unpolluted.



CONCLUSION

The customer is very satisfied with the results achieved from bioremediation and has expressed the intention to continue the cooperative application of the Bionetix® products.



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