

Treatment Of Hydrocarbon Cont. Water Using Constructed Wetlands – Phase III

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This project is based on the observed success of natural wetlands at reducing the mobility and concentration of petroleum hydrocarbon contamination. The question was then proposed – can a constructed, or engineered, wetland work in a similar fashion to treat hydrocarbon contaminated groundwater? If so, is it economical? Mechanical treatment typically involves pumping petroleum-contaminated groundwater from extraction wells and then running it through an air stripper to remove the hydrocarbons. This stripping method can be expensive to operate and may require considerable maintenance because of iron and carbonate build up.

1. Increase water flow rate to the wetland to full scale operation, and evaluate mass removal efficiency during year round operation;
2. Monitor effect of plant growth and removal efficiency;
3. Assess economics of the wetlands; and,

4. Publish findings in a scientific publication.

2004 Komex_CONSTRUCTED WETLAND PILOT PROJECT AT THE STRACHAN GAS PLANT

2000 Komex_Constructed Wetlands for Treatment of Condensate Presentation

2000 Komex_Constructed Wetlands

2001 Komex_Constructed Wetlands for Treatment of PHC Presentation