

**REGENERABLE MODIFIED CLAY ADSORBENT WHICH REMOVED  
HYDROCARBONS FROM PRODUCED WATER**

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Laboratory column filtration testing has shown that a new modified clay prototype can remove crude oil from simulated produced water. The testing also revealed that the new prototype not only has a comparable oil removal performance as another commercial modified clay product, but also has longer bed life, faster flow rates, and can be regenerated in-situ (within the cartridge housing). Pilot plant studies have confirmed the strong performance of this prototype and its ability to be regenerated in-situ at least four times. This new modified clay prototype was field tested at a produced water collection site in Taft, CA. A double filtration system was designed for this study