

Case Study #4

Wash Bay Sludge with Metal Contamination

Sanjel Corporation - Buffalo, WY

LBI Renewable completed a remediation project for Sanjel Corporation, a Canadian based energy service company with an office in Buffalo, Wyoming. Dirt and contaminants pressure washed from oil and gas field service vehicles and equipment collects in a 4' x 6' x 8' wash bay sump. Contaminants typically consist of oils, greases, metals and chlorinated cleaning solutions.



Sump during treatment



After treatment

Sediment was removed with a backhoe and placed in a mobile soil mixer. DualZorb and water were added and thoroughly mixed. Soil samples were collected before and after treatment and submitted to a certified laboratory for analysis and the results are as follows:

Constituent	Baseline	Treated	% Reduction
GRO	31,020 ug/kg	6,130 ug/kg	80.2%
DRO	7,000 ug/kg	304 ug/kg	95.6%
Tetrachloroethene	858 ug/kg	< 2 ug/kg	~100%
Barium ¹	162 ug/kg	< 10 mg/L	~100%
Chromium ¹	16.3 ug/kg	< 0.5 mg/L	~100%
Lead ¹	16 ug/kg	< 0.5 mg/L	~100%

1. – Baseline metals analysis was for Total Metals, whereas Treated samples were analyzed for TCLP Metals

Data collected during this test show that DualZorb is effective at encapsulating metal contamination from a sediment while remediating hydrocarbons.