

CASE STUDY: BIOLOGIX SALT BINDER

Hiland Faye 1-28 Spill

Introduction

The product used for this application is BIOLOGIX SALT BINDER. BIOLOGIX SALT BINDER is a proprietary humidified soil extract with the nine essential soil microbes included in the formulation. The product works by providing an organic substructure with an extremely high ion exchange capacity that the Na⁺⁺ and Cl⁻ ions can bind and be charged neutralized (via an ionic bond). The carbon chain then becomes a food supply for the natural **soil and product's adjunct microbes, which over time dissipates the salts.** A specialized blend of enzymes significantly increase the degradation process by facilitating the transfer and uptake of nutrient by the microbial population.

Application

The area known as the Faye 1-28 tank battery in NW Oklahoma had been contaminated with multiple barrels of salt water. The patches of soil were then treated with BIOLOGIX SALT BINDER in February of 2008. After approximately 90 days, samples were taken from the site in May of 2008. The chloride levels and total soluble salt levels (ppm) of each were tested by an independent lab (Environmental Testing, Inc. in Oklahoma City) and are listed below:

SAMPLE	CHLORIDES	T. SOLUBLE SALT
May 30, 2008 90 days after treatment Sample #1	26	234
May 30, 2008 90 days after treatment Sample #2	2,570	5,940

Sample #1 is below “acceptable” levels. Sample #2 is still a slight amount above “acceptable” levels. History has shown however, that this product will continue to work and levels will quickly drop below the target level. As such, the application was deemed a success and no further work is suggested on this site.

As you can see from the above data, the chlorides were neutralized, and were reduced 97% with one treatment. And the TSS levels were reduced 95% to acceptable levels.



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