

CASE STUDY: BIOLOGIX SALT BINDER HILAND EC NEWTON 1-30 SPILL

Introduction

The product used for this application is BIOLOGIX SALT BINDER. BIOLOGIX SALT BINDER is a proprietary humidified soil extract with the multiple 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 increases the degradation process by facilitating the transfer and uptake of nutrient by the microbial population.

Application

The area had been contaminated with multiple barrels of salt water, and the ground was tested on April 14, 2008 with chloride levels as high as 29,100ppm. The soil was then treated with BIOLOGIX SALT BINDER on the same day. The product was allowed to work until July 5th, 2008 and samples were taken from the same spots of the spill as before and tested on July 29th, 2008. The chloride levels and total soluble salt levels (ppm) of each were tested and are listed below:

APRIL 14, 2008 PRE-TREATMENT SAMPLE	CHLORIDES	T. SOLUBLE SALT
#1	7,220	9,410
#2	29,100	31,040
JULY 29, 2008 POST-TREATMENT SAMPLE	CHLORIDES	T. SOLUBLE SALT
#1	318	579
#2	2,050	5,100

RESULTS

As you can see from the above data, the chloride contribution from the liquid was not only neutralized, but was reduced well below acceptable levels in both sample areas. Additionally, the TSS levels were reduced as much as 94% in just the short time between treatment and sampling, and both were reduced to under acceptable levels. The application was deemed successful.



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