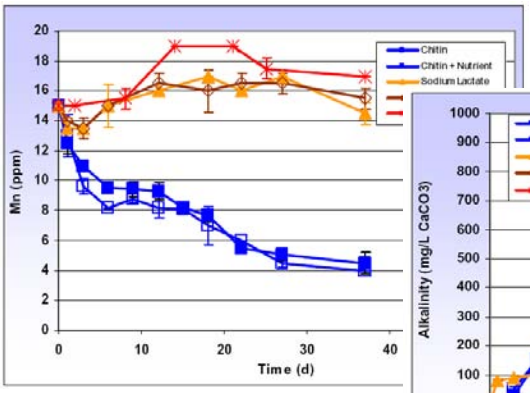
JRW BIOREMEDIATION LLC

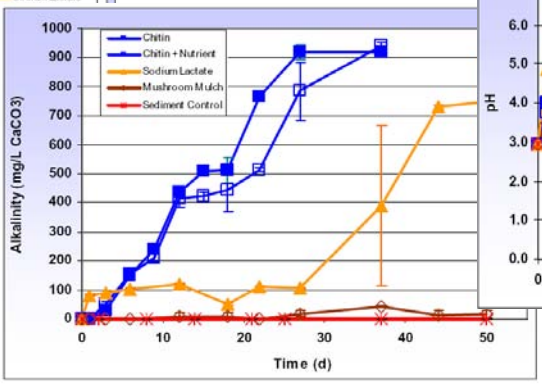
CHITOREM® Chitin Complex Laboratory Microcosm Test for Mine Influenced Water Treatment

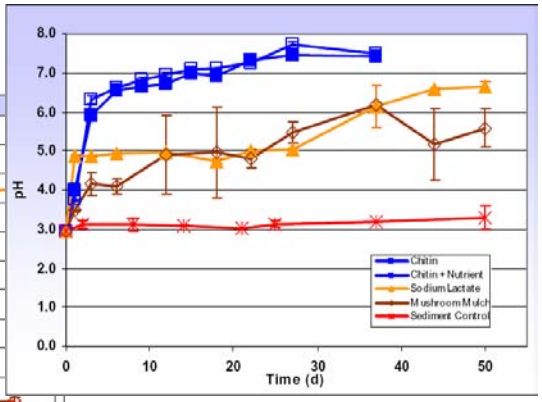
Background

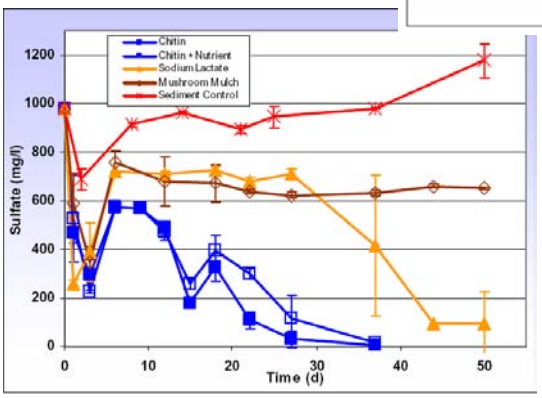
- ***Laboratory microcosm tests performed at Penn State University to determine the effectiveness of CHITOREM® in treating mine influenced water (MIW).***
- ***MIW collected from Kittanning Run in Altoona, PA exhibiting pH of 3.21, acidity of 192 mg/L and alkalinity of 0 mg/L.***
- ***CHITOREM® chitin complex compared with mushroom mulch and sodium lactate as potential biochemical reactor substrates.***

Project Status









- ***Over 99% Fe and Al removal in 9 days with CHITOREM® chitin complex.***
- ***Mn decreased by 81% in 37 days.***
- ***pH increased to 6.79 and acidity decreased from 192 to -114 mg/L.***
- ***Sulfate reduced from 489 mg/L to 303 mg/L in 2 days and exhausted at 37 days confirming the activity of sulfate reducing bacteria.***
- ***CHITOREM® chitin complex significantly outperformed other substrates for MIW treatment.***