

RECYCLING WASTE WATER

Cut your GAC Costs 50% Pre-treat your water with Biomin EC-100 Organoclay

A [BIOMIN](#) CASE STUDY

Wash down water from a tank truck wash operation was flowing at 30 gpm, containing 5 ppm BTEX and 10 ppm oil. The client was changing the GAC SEVEN times a year, to be in compliance with Discharge Regulations.

The amount of carbon used was 35.71 ft³. GAC's bulk density was 30 lb/ft³. Regenerated carbon costs \$0.85/lb plus your change out problems.

Replacing 1071.3 lb spent carbon 7 times a year amounts to 7499.1 lb carbon, at a carbon cost of \$6374.24/year.

If this carbon retained 7% of its weight in oil, for a total spent carbon weight of 8024 lb, the labor cost of replacing it, at \$0.90/lb is \$7221.60/year.

Total GAC cost media and changeouts was \$13,595.84/year.

The [BIOMIN](#) Solution:

Add an extra filter vessel with 2000 lb [EC-100 organoclay](#) in front of the GAC.

At \$1.40/lb, organoclay replacement cost after one year service is \$2,800. Labor cost for one changeout of 3200 lb spent EC-100 organoclay: \$0.90 x 3200 lb = \$2880. Disposal cost of spent EC-100 organoclay: @ \$0.25/lb: \$800.

Total: \$6,480.

The GAC may not be spent at this time because the organoclay pre-treatment protects the GAC against oil fouling and early BTEX breakthrough.

COST SAVINGS PER YEAR BY PRE-TREATMENT WITH [EC-100 ORGANOCCLAY](#):

\$7115.84/year plus the disruptions to operations during SEVEN GAC change outs.

Call BIOMIN, Inc. for a quote. It's risk free, a guarantee is provided.
Credit card purchases available.

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Let's discuss your problems

George Alter, president of Biomin, will attend the 17th International Activated Carbon Conference (IACC-17) in Orlando, FL on March 6-7, 2006 and IACC-18 in Pittsburgh, PA on October 19-20, 2006. You are invited to reserve time at these meetings or anytime to discuss your problems. Phone: (810) 544-2552