

Bio-Organic Catalyst, Inc.

Wastewater Treatment and Collection Systems

Town of Poughkeepsie, NY.

Having several sewage pump stations with major grease and odor problems, the Town of Poughkeepsie was forced to hire a pumper truck every month to remove the grease from the pump stations.

The Town of Poughkeepsie sewer collection system started using EcoCatalyst® at several pump stations to eliminate fats, oils, grease (FOG's) and odors in the collection system.

- Within hours the odor problems were eliminated.
- ***Two weeks after introducing EcoCatalyst®, the grease was solubilized and no longer a problem.***
- In fact, FOG's have now become a carbon food source for the treatment plant's biological nitrogen removal process (BNR)
- Poughkeepsie saved thousands of dollars in hauling costs.

The Town approached BOC about using EcoCatalyst® at a pump station to reduce H₂S odors and replace Bioxide. Eliminating H₂S gas is easy with EcoCatalyst®.

- Eliminating H₂S gas is easy with EcoCatalyst®. The product eliminates biofilms that generated H₂S gases, along with its ability to increase aerobic conditions in the wet wells, gravity or force mains.
- ***The Town of Poughkeepsie saved \$44,000.00 in the first year by eliminating the use of Bioxide.***

Wappinger NY, Tri-Municipal Sewer Commission -Plant Operator:
Severn Trent Environmental Services

ST Environmental is injecting the EcoCatalyst® at two of the main pump stations with flow equal to 80% of the treatment plant capacity. We are eliminating the grease and odor problems at the pump stations. In addition, the product carries over into the treatment plant process and has eliminated the odors, grease and filamentous problems at the facility.

- The plant eliminated the use of endamal for reducing odors in its sludge. (Endamal is a hazardous product)
- The plant has eliminated the citrus product they used on the digesters.
- ***They have received no more odor complaints from the neighbors.***
- ***No more odors in the belt press room.***
- ***The plant also noticed the DO increased in the aeration tanks and was able to reduce the speed of the mechanical aerators and in doing so, have seen savings with reduction of electrical energy costs.***

Wappinger Falls, NY-Operator: CAMO Pollution Control

CAMO Pollution had heavy grease problems at several pump stations requiring a pumper truck to pump out the grease every 6 to 8 weeks. CAMO Pollution introduced the EcoCatalyst® at the pump stations and it resulted in the following:

- ***Eliminated the grease problem,***
- ***Eliminated any and all odors.***
- ***Thousands of dollars are saved each year on grease pumping and hauling.***

Fishkill, NY-Operator: CAMO Pollution Control

Due to the success of the EcoCatalyst® product at other locations, CAMO Pollution decided to use the product in Fishkill, NY. CAMO Pollution had heavy grease problems at several pump stations requiring a pumper trucks to pump out the grease every 4 to 6 weeks.

- CAMO Pollution introduced the EcoCatalyst® at the pump stations and eliminated the grease problem
- ***Eliminated any and all odors.***
- ***Thousands of dollars are saved each year on grease pumping and hauling.***

Carmel, NY.-Operator: Severn Trent Environmental Services

Carmel, NY was using Bioxide at two pump stations to eliminate odors and odor complaints from local businesses. Although the Bioxide product was successful with odors (H₂S), it does not address the grease problem at the pump stations and the waste water treatment plant. We introduced EcoCatalyst® at the same locations and stopped using the Bioxide.

- Within two weeks the grease problem had been addressed at the pump stations and no odor at the pump stations.
- ***The residual effect of the EcoCatalyst® at the WWTP was the elimination of grease and odors at the facility within four weeks.***
- The next observation at the WWTP was a higher DO level in the aeration tanks.
- Grease accumulations on the chains, sprockets and guides of the primary's, were eliminated.
- ***The EcoCatalyst® was also used with a power washer to wash down algae growth at the weirs of the clarifiers. After two applications, the algae was gone.***

- ***The Town of Carmel saved \$30,000.00 in the first year by eliminating Bloxide.***

Brewster, NY. -Operator: Severn Trent Environmental Services

Brewster WWTP had a grease problem that was severely impacting the biology of the RBC's (Rotating Biological Contactors) and growing filamentous in the settling tanks. Grease was caked on the RBC's, thick scum with filamentous growth on the surface of the settling tanks, grease buildup in the secondary clarifier, grease and scum build up in the flow equalization tank, grease build up at the headwork's of the facility and H₂S odors throughout the facility.

EcoCatalyst[®] was introduced at the pump station just prior to the WWTP.

- ***In the first two days, the H₂S odors were eliminated.***
- ***After 3 to 5 days, the grease at the pump station was eliminated.***
- ***At the end of the first week, the grease at the headwork's and settling tanks was solubilized and eliminated. The grease in the EQ tank was completely gone.***
- ***The grease build up on the RBC's started to peel off and solubilize.***
- ***After two weeks of EcoCatalyst[®] use, the grease build up on the RBC's was greatly reduced.***
- ***After three weeks, the grease build up on the RBC's was completely gone and the RBC's biology was back to normal operation.***