WASTEWATER TREATMENT

CASE STUDY

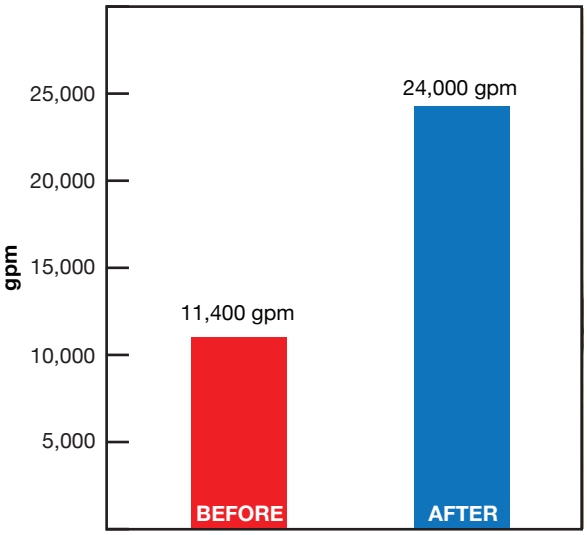
Manufactured Since 1942 by: Apex Engineering Products Corporation

RYDLYME®
World's Leading Biodegradable Descaler

MUNICIPAL PUMPING STATION STRUVITE CLEANING

An East coast wastewater treatment plant was plagued with struvite ridden pipelines throughout their pumping station. The 20" diameter pipelines were reduced to 14" which restricted the standard flow of 24,000 gpm down to 11,400 gpm! This consequently caused the 350 hp pump motors to run very hot and check/gate valves were not able to actuate! Alternatives to bypass were considered but costs exceeded $1 million and time did not allow for construction.

Maintenance staff required immediate action and chose the cost effective and readily available, biodegradable descaler ***RYDLYME***. Acquired later that week, they circulated 14 totes of ***RYDLYME*** via an industrial descaling system and extra hoses. After the cleaning, ***RYDLYME*** dissolved all of the struvite and returned the pipelines to their 20" diameter. The flow rate was also restored to designed specification of 24,000 gpm. The ***RYDLYME*** cleaning was 1/20th the cost of bypassing the pipeline and cleaning was completed in less than a week! Afterwards, the impressed maintenance staff used ***RYDLYME*** to descale vacuum filter belts to increase sludge dryness.



CHALLENGE

Municipal pumping station pipelines were severely clogged with struvite deposits which lead to pump motors running hot and check/gate valves unable to actuate.

SOLUTION

Circulating 14 totes of ***RYDLYME*** Biodegradable Descaler via an industrial descaling system intermittently as operations allowed over the course of a week.

RESULTS

The pipelines were returned to their original 20" diameter. The flow was restored to 24,000 gpm, all pumps and valves were operating normally.

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