



T197 MEGA BUGS PLUS HC™

LOCATION

Grand Marais, MN

PLANT

Extended aeration oxidation ditch activated sludge plant (no primary clarifiers, only secondary clarifiers)

AVERAGE DAILY FLOW

500,000

PROGRAM

T197 Mega Bugs Plus HC™

DOSAGE

Adding 1/2 lb per day (added in the influent stream downstream of the communitor and grit/rag removal)

GOAL

To reduce the volume and pounds of bio solids that need to be disposed from the aerobic digesters, thus saving money in the wastewater treatment budget

OBSERVATIONS

Greatly improved settleability as well as FLOC development

With increased settleability, they were able to implement a decanting program. (They were not able to decant the waste sludge in the digester because of poor settling the past 26 years.)



2017	Total Wasted Gallons	Total Decanted Gallons	Sludge Hauled	Cost Savings of Decanted Volume	Cost of Bugs per Year	Net Savings
	1,294,250	251,150	1,043,000	\$30,138	\$4,000	\$26,197

2018	Total Wasted Gallons	Total Decanted Gallons	Sludge Hauled	Cost Savings of Decanted Volume	Cost of Bugs per Year	Net Savings
	1,596,250	378,250	1,218,000	\$42,742	\$4,000	\$38,742

Benefits:

- ◆ Improved Settling
- ◆ Increased Decanting
- ◆ Better Plant Efficiency
- ◆ **SAVING MONEY**
- ◆ HAPPY PLANT = HAPPY OPERATOR



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