



318 Jones Street, Pineville, LA 71360

Converse Wastewater Treatment  
by Global Splash Inc.

The Converse Wastewater Treatment facility consists of three oxidation ponds in series, a rock-reed filter and a chlorination unit before discharge into a creek. Pond #1 is the largest of the three and contains an aeration device.

In July 2021, Global Splash Inc. provided a patented MODEL QBM 31012 filtration unit that has been treating wastewater from Pond #3 on an experimental basis and returning the product back to Pond #3 along with the backwash water. A specially designed, floating, intake collects wastewater from the top of Pond #3 and pumps it to a reservoir on the filtration unit. To prevent biological fouling of the filter beds, chlorination tablets are used to chlorinate the wastewater in the reservoir. Prior to filtration, the wastewater is subjected to vigorous aeration and a moderate DC electric current. The filtration unit has ten, individual, anthracite/sand multimedia filters. No coagulation chemicals are necessary. The individual filters are backwashed sequentially with filtered water. There is a continuous stream of filtered and aerated product wastewater. The backwash system is regulated by a programmable logic controller (PLC) mounted in a control box on the GSI unit.

In November 2021, a plug was placed in the outlet line from Pond #3 to the rock-reed filter. Only GSI filtered wastewater flowed to the rock-reed filter. The intention was for filtered water to help clean suspended solids and bacteria that had built up in the rock-reed filter.

The GSI filtration unit was adjusted to a rate of 50,000 GPD (one-half of its maximum rate) of product. At this rate, the ponds' liquid level could be lowered as needed. The filtration unit has been turned off and on about every 5 days, saving electricity and chlorination tablets.

In April 2022, wastewater samples from each of the three ponds, from the product of the GSI Filter Unit and from the outlet of the facility's chlorinator were taken and sent for analysis.

ALS Laboratories Results of Wastewater Testing of Converse Sewage Treatment and  
Global Splash Filter Unit

	Pond #1 Outlet	Pond #2 Outlet	Pond #3 Outlet	GSI Filter Unit	Rock-Reed Chlorinator Outlet	NPDES Limit (monthly avg.)
Suspended Solids (mg/L)	50.9	27.0	22.4	9.68	17.0	15
BOD (mg/L)	47.2	14.0	13.1	<2	<2	10
Fecal Coliform (CFU/100mL)	700	43	100	<14	<14	200

The suspended solids value, 17.0 mg/L, at the rock-reed chlorinator exceeds the permit limit, 15 mg/L because the GSI chlorinated, filtered water was flowing through a dirty rock-read filter prior to re-chlorination at its outlet. The sample from the outlet of the Global Splash filtration unit had suspended solids of 9.68 mg/L. This is 43% lower than the wastewater that passed through the rock-reed filter and chlorinator and 35.4% lower than NPDES Limit

The BOD values for both the rock-reed chlorinator outlet and the GSI unit are too low to be measurable. Both samples were from chlorinated sources.

The fecal coliform value for the rock-reed chlorinator outlet is very low, as expected due to chlorination.

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