

GreatBay Aquaculture, LLC

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- MEMO -

DATE: September 22, 2016

TO: Greg Beckman
Water Management Technologies

FROM: Chris Duffy

SUBJECT: IMF Review

I am writing to report on the performance of Water Management Technologies Integrated Modular Filtration (IMF) System. We have now operated two IMF systems at our marine fish hatchery for nearly 1 year and have successfully produced over 700,000 cod and summer flounder fingerlings in the systems.

The design of the IMF and the small-required footprint for installation was critical to minimize the area of our building dedicated to water filtration. This has allowed us to maintain a high level of production, while at the same time increasing our water flow and stabilizing our water quality parameters.

The installation and setup of the IMF was very straightforward. The technical support during setup and startup by your staff was timely and comprehensive. We had the systems up and operational well within our desired timeframe. It did take us some time to get the biofilter seeded and operating effectively, but once charged the biofilter has been extremely robust and exceeded our design biological filtration requirements. In fact in our nursery we have been holding fish at over twice the design density and have still held ammonia levels well below our target range.

By integrating the components of a typical recirculation system – CO2 stripping, foam fractionation, biofiltration, UV sterilization and oxygen injection – the IMF has greatly simplified the recirculation system, which has lead to easier operation and lessened maintenance and repair. While noting that we have worked with WMT to address some minor fabrication issues, I can highly recommend the IMF to commercial companies operating either cold water or warm water marine fish operations.

Marine Fish Hatchery

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