

Craig Sweet, P.E.
Woodard & Curran, Inc.
41 Hutchins Drive
Portland, ME 04102

July 25th, 2018

**RE: St. John Street Garage – Maine Medical Center (Contech Reference No. 583293)
Review of Jellyfish Filter Design**

Dear Mr. Sweet:

The purpose of this letter is to document Contech Engineered Solutions' review of the plans and the proposed application of the Jellyfish water quality unit for the St. John Street Garage – Maine Medical Center in Portland, ME.

Contech Engineered Solutions (Contech) has reviewed the Jellyfish Filter design for the St. John Stree Garage project. We believe the Jellyfish Filter is an appropriate water quality solution for this site. The Jellyfish system is approved for use by MEDEP meeting the General Standards of the Stormwater Rules (Chapter 500) if designed, installed, and maintained in accordance with the provisions noted in the January 21, 2015 approval letter from the MEDEP.

The engineer of record reports a drainage area of 4.05 acres, of which, 3.37 acres is impervious. The Jellyfish is designed in accordance with the tested hydraulic loading rate of the 54-inch cartridges at a maximum rate of 80 gpm with the inclusion of one draindown cartridge at a maximum rate of 40 gpm. The Jellyfish is additionally designed to treat a WQV, as determined by the DEP, that will be detained and routed through the Jellyfish in accordance with the required emptying time of a minimum of 24-hours and a maximum of 48-hours. In order to adequately treat the runoff from this area, Contech recommends a Jellyfish model JF6-6-1.

Our systems require periodic maintenance to continue operating properly. Given typical runoff pollutant loading rates, Contech recommends maintenance inspections on an annual basis. Maintenance should be performed when sediment depth reaches 12" of accumulation.

This system is expected to operate in accordance with Contech's design intent. Please feel free to contact me if you have any questions or concerns.

Sincerely,



Nicholas T. Busque, EIT
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