



February 2nd, 2022

Mr. Phillip Taylor, CPSWQ
Technical Product Manager
Hydro International
151 Kierstead Lane
Oregon, WI 53575

RE: New Product Review of the First Defense Optimum Stormwater Quality Structures

Dear Mr. Taylor:

Your request for new product review of the First Defense Optimum (FDO) products for storm water quality has been completed. The New Products Committee of the Department of Public Works has recommended approval the 3-ft, 4-ft, 5-ft, 6-ft, 8-ft, and 10ft diameter models under the City of Indianapolis/Marion County Stormwater Management District Manufactured Stormwater Quality Treatment System Evaluation Criteria dated October 2018.

These products have been approved by the Department for use on private development and public projects after February 2nd, 2022 with maximum treatment flow rates. A revised City of Indianapolis Stormwater Quality Unit Selection Guide will be posted on the City's website, that will include these models and include the approved treatment flow rates.

Please note the following:

- Units shall be installed in compliance with the current City of Indianapolis Stormwater Specifications Manual. The outer structure shall also comply with the current manual specifications.
- This approval applies to units as documented by the data submitted for this recertification review. Changes in materials of construction, overall unit dimensions, or dimensions of the internal components shall invalidate this approval and require submittal for re-approval under current evaluation criteria. This would include the square units which were listed but not tested or reviewed by NJCAT.
- Units are approved for the configuration as reviewed by NJCAT. Grated inlets and multiple pipe side inlet configurations were not tested by the manufacturer.
- The peak 10% exceedance (10-year) flow rate for on-line units may not exceed the maximum rate tested for scour.
- Note, use of the units on City of Indianapolis projects shall be approved on a case-by-case basis by the project engineer.

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- Each submittal should include buoyancy calculations for the specific application

If you have any other questions on this issue, please feel free to contact me, Colin O'Sullivan, at Colin.OSullivan@indy.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Colin O'Sullivan', written in a cursive style.

Colin O'Sullivan
Project Manager
DPW Engineering, City of Indianapolis
New Products Committee Storm Water Chair

cc: City of Indianapolis Department of Neighborhood Services & New Products Committee:
Donna Price, Jeff Vaughn, Ericka Miller, Todd Wilson, Dustin Thurston, Kathy Allen,
Frank Stewart
File: P:\Project Management\Storm_Water\New Products Committee\Products\3 - Water
Quality\First Defense Optimum