

October 17, 2019

Wes Saunders-Pearce
City of St. Paul
375 Jackson Street – Suite 220
St. Paul, MN 55101-1806

SUBJECT: Stormwater Comments – Rohn Industries

Dear Wes:

Please find below the responses to stormwater comments received on 10/15/19. We have provided a response to each comment and are including a revised set of Civil drawings and a revised Stormwater Management Plan that correspond with the changes noted below.

- Please briefly edit the narrative to better explain why water reuse is not an option. The rationale justifying FTO is reasonable, with one exception. Contamination is not a constraint to water reuse as an option. For instance, at this site, I would expect the limited amount of reuse opportunities (ie. no irrigation, etc.) to be a larger driver for why reuse is not an applicable option.
Response: The site is not suitable for irrigation due to limited greenspace and steep grades of greenspace on site. See revised report dated 10/17/19.
- Please explain or show more directly how the site TSS removal correlates to expected TP removal. Highlighting sections of past studies helps provide overall credence to the technology's capability, however, the report narrative needs to express a clear statement of compliance.
Response: A study was conducted by Mitchell Community College on the Stormfilter on a site of similar size and impervious area as the proposed Kasota Ave Trailer Storage site. The results are highlighted to explain expected removal rates for this project in the updated report. See revised report dated 10/17/19 for the full comparison and analysis.
- Please clarify how the treatment flow rate (0.15 cfs) relates to expected discharge rates from the pond. The revised stormwater report only provided proposed discharge rates for the 100-year event (0.75 cfs peak). The report needs to explain how the treatment flow rate will be maintained and how often the system is expected to be bypassed.
Response: Any flow in excess of 0.15 cfs will bypass the cartridges and enter an overflow riser which was designed to allow the passage of the 100-year storm event. See revised report dated 10/17/19.
- The operation and maintenance plan was provided in the stormwater report. Please add to the utility sheet a "post-construction operation and maintenance" section. Include key steps from the O&M plan to guide the property owner and provide a reference (vendor web or phone) for more detail.
Response: Key items from the Stormfilter Inspection and Maintenance Procedures by Contech have been added to the Utility Plan.

- Please provide a detail of the proposed 4-inch orifice. As well, will there be a skimmer structure to prevent clogging?
- **Response:** A detail of the pond outlet (FES 100) has been added included the 4" to 12" pipe transition and trash guard. See detail 06 on C9.02.

Sincerely,

A handwritten signature in blue ink that reads "Chad Ayers". The signature is written in a cursive, flowing style.

Chad Ayers, PE
Senior Project Manager