



September 14, 2022

EcoPallet
7248 Bank Street
Ottawa, ON K0A 2P0
via email

Attn.: Mr. Anthony Orlicky

Ref.: Fabric Dome Site Development – Storm water Brief
HSP Project No. 10876

Dear Mr. Orlicky:

This letter is being prepared as the storm water brief for the storm water management for the site given the new development of installing a new fabric dome on the property.

The basis of storm water management is to limit runoff flows leaving a property due to the increase in impervious area due to development of the property and to provide quality control of the water. Both aspects are important to limit the potential for future flooding of downstream waterways and ensuring a safe water quality for aquatic life.

In the review of the placement of your fabric dome, as presented on the site plans, the location overlaps existing packed granular areas that are being used as storage for your products. In the design parameters, using the Modified Rational Method of storm water management, the runoff coefficient for packed granular and your building are the same. As such, the total runoff generated on the property is not increasing. Furthermore, the general overland flow within the property is not changing and is discharging to the same locations despite the small regrading around the dome to prevent water entry into the dome area. As such, the stormwater quantity is not increasing for the site over the pre-development phase.

In terms of water quality, again, the drainage flows are generally sheet flow across the property and any gravel areas pass through vegetated/grass areas as a means to limit total suspended solids (TSS). The introduction of the fabric dome does not increase flow velocity or change the overall direction of the flow on the site. Again, the flows will not have an appreciable increase in negative water quality than the pre-development phase.

In conclusion, the stormwater management for the site is not negatively impacted by the installation of the fabric dome as the storm water quantity and quality remain at pre-development levels due to the favourable location of the dome over existing compacted granular material and not impacting general overland flows on the property.

Please feel free to contact our office at (613) 932-3289 x216 if you have any questions.

Best regards,



Kevin MacDonald, P.Eng.
Sr. Project Manager