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## Memorandum

**To:** Raymond Holberger, City of New Bedford  
**From:** David M. Sullivan, TRC Senior Consultant and Program Manager  
**Subject:** Response to Comments - Nitsch Engineering Letter Dated June 21, 2016  
**Date:** August 1, 2016  
**CC:** M. Paul, City of New Bedford; Project Team – TRC Environmental

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The purpose of this memorandum prepared by TRC Environmental Corporation (TRC) is to provide a response to comments posed by Nitsch Engineering regarding the following plans/documents entitled:

- › "Nemasket Street Recreation Area, 225 Hathaway Boulevard, New Bedford, Massachusetts," prepared by TRC, dated May 2016
- › "Notice of Intent, Nemasket Street Recreation Area Project, New Bedford, Massachusetts," prepared by TRC, dated May 2016
- › Report entitled "Stormwater Management Report, Nemasket Street Recreational Area, 225 Hathaway Boulevard, New Bedford, Massachusetts," prepared by TRC, dated May 2016

The Nitsch Engineering comments are reiterated below, followed by TRC's response in italics.

- › The project is a redevelopment project. Therefore, it is required to meet the Stormwater Management Guidelines to the maximum extent practicable.

*Duly noted.*

- › The project includes the filling of approximately 2,519 square feet of isolated vegetated wetlands, the removal of existing pavement, and the construction of a synthetic turf soccer field and impervious basketball court.

*The City of New Bedford has decided to change the site plan requirements. Currently the site is being redesigned along with the stormwater management system. The overall development footprint is being reduced to accommodate a new field turf soccer field that will be oriented east-west (instead of the originally proposed north-south configuration). The basketball court will be placed on the existing parking lot to the north of the Keith Middle School building. The impacts to the isolated wetland, approximately 2,519 square feet, will still remain the same.*

- › The plans include the lowering of an existing manhole approximately 2 feet below the grade of the proposed soccer field. Therefore, access to the manhole will require excavation of the soccer field.

*The revised site layout will not disturb the existing manhole. Therefore access for maintenance will not be affected.*

- › The proposed stormwater model does not include a summary of total flows offsite. Flows are summarized by two design points. Flows to design point SP-01, which are flows to the wetlands to the west of the Keith Middle Schools, show an increase for all storms. The Applicant has summarized flows from both design points by adding the peak flows from both design points together. Typically, flows from separate reaches are routed together in the model. When adding the flows from the two design points together, there is an overall decrease in flows offsite.

*Stormwater calculations are being revised to work with the updated site plan. All offsite flows will be combined to produce one peak discharge rate.*

- › We disagree with the curve numbers used for some of the proposed ground cover. For instance, the brick pavers should include a curve number of 98. It is unclear how the curve number of 68 was developed for the synthetic turf field. The Applicant should provide back-up information to document this curve number.

*The revised stormwater calculations will include back-up information to document the curve number assumptions.*

- › The Applicant should provide additional information regarding the development of the infiltration rate north of the basketball court.

*The new stormwater design will be solely limited to detention. No infiltration will penetrate the engineered cap*

- › During the initial discussions related to this project with the Applicant's engineer, we discussed the use of infiltrative drainage onsite. Typically, infiltrative drainage is not included on sites that contain contaminated materials, which this site does. Therefore, we cannot comment on the whether the use of infiltrative drainage on this site is appropriate based on the types of contaminated materials found onsite. This was a significant part of the discussion held on April 25, 2016. The Applicant's notes from that discussion do not reflect these conversations. At the time, our understanding was that there would be a significant infiltrative drainage system proposed as part of the project. The proposed infiltrative drainage facilities are not as significant as originally thought.

*As noted above, no infiltration practices will be part of the stormwater system design. All increases in runoff will be controlled by an underground detention system.*

Please contact TRC if we can be of any further service regarding this response.