

## Memo

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**To:** Lindsay Deane-Mayer                      **From:** Kaleb Bourassa, EI/Steve Bushey, PE  
**Date:** June 18, 2019                              **Re:** Roxbury Wind Project – Roxbury, ME  
Stormwater Analysis –Transmission Analysis

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The activity associated with the Roxbury Wind Project Transmission Line Corridor will consist of a transmission corridor and associated poles. The location of the corridor is proposed to the south of the existing CMP corridor, extending from the proposed turbine sites on North Twin Mountain easterly towards Route 120. The corridor will end before the CMP property at Rte. 120, where the interconnection into CMP infrastructure will take place. An existing 18" culvert underneath the driveway receives minimal runoff, as an existing 36" cross-culvert provides relief for the roadside ditch approximately 100' up the road. No evidence of erosion or culvert capacity issues have been identified during a visual reconnaissance of the site. The runoff regime for the transmission line corridor will consist of sheet flow and shallow channel flow through dense ground cover as the corridor remains vegetated with plant growth suitable for utility corridors after construction. Ultimately, runoff from the corridor flows southeast towards Route 120, along a roadside ditch and into an unnamed tributary to the Swift River.

The area to be developed is small in comparison to the complete watershed that extends west (up the mountain) and is defined to the north by Route 120 and much of the North Twin mountain easterly slope. The land use activity will not generate any impervious area and will remain vegetated and maintained on a yearly basis or as necessary. It will be important during construction to stabilize the disturbed areas in order to ensure erosion does not take place on the mountain side and proper revegetation occurs. Similar to the conclusions found in the Stormwater Application submitted in 2018, the transmission line corridor will have insignificant impacts to runoff conditions resulting from the project activity in our opinion.

### Gorrill Palmer



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