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Narragansett Bay Watershed SCP Pachet Brook (RI0010031R-03) Little Compton, RI

Subwatershed Summary

- The subwatershed is located in Little Compton and Tiverton.
- The subwatershed is 244 acres and 5% impervious.
- The general land uses within the subwatershed are deciduous forest, cropland, pasture, orchards/groves/nurseries, and medium-density residential.
- RIDOT maintained property is 2.1 acres and 1.3 impervious acres.

Site Description

Pachet Brook (RI0010031R-03) is located within the Narragansett Bay Watershed. The subwatershed is located between Tiverton and Little Compton, just inland from the Sakonnet River. Pachet Brook flows into and out of Watson Reservoir (RI0007035L-07), but the subwatershed begins at the point of discharge from Watson Reservoir. Pachet Brook flows through a relatively wide stretch of deciduous forest before passing under Route 77 (Main Road), receiving runoff from two RIDOT outfalls, and discharging to Almy Brook. The brook receives runoff from cropland, pasture, and the impervious cover along Route 77. RIDOT maintained property in the subwatershed is 2.1 acres; 1.3 acres of which is impervious.

The Rhode Island Department of Environmental Management (RIDEM) water quality classification for the Pachet Brook is Class AA. Class AA waters are designated as a source of public drinking water supply (PDWS) or as tributary waters within a public drinking water supply watershed, for primary and secondary contact recreational activities and for fish and wildlife habitat. According to RIDEM's Clean Water Act (CWA) Integrated List of Waterbodies – Appendix A 2016 Index of Waterbodies and Category Listing,¹ the impairments affecting this waterbody segment are enterococcus and fecal coliform. RIDEM has classified Pachet Brook as a Category 5 waterbody that is not supporting primary and secondary contact recreation. The waterbody is fully supporting fish and wildlife habitat, and is not assessed for public drinking water supply or fish consumption. TMDLs are scheduled for 2030 for the bacteria impairments.

According to 2011 land use data obtained from the Rhode Island Geographic Information System (RIGIS),² the general land uses within the Pachet Brook subwatershed are deciduous forest, cropland,

¹ RIDEM, March 2018, 2016 Integrated Water Quality Monitoring and Assessment List – Appendix A 2016 Index of Waterbodies and Category Listing. Available at: <http://dem.ri.gov/programs/benviron/water/quality/surfwq/pdfs/iwr16.pdf>

² Rhode Island Department of Environmental Management, Rhode Island Department of Administration, Statewide Planning Program, Photo Science, Inc. www.rigis.org

pasture, orchards/groves/nurseries, and medium-density residential. The subwatershed is approximately 244 acres, 5% of which are impervious based on 2011 impervious cover data from RIGIS.

The Pachet Brook subwatershed (RI0010031R-03) has less than 10% impervious cover; therefore, no SCP is required for the Pachet Brook water body segment.