Nutrient Source Identification Report
Town of Randolph

Prepared By: Neponset River Watershed Association
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Revised By: BETA Group
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Acknowledgements

This is one among twenty Nutrient Source Identification Reports prepared by the Neponset River Watershed Association (NepRWA) and the Pioneer Valley Planning Commission (PVPC). These reports are meant to provide MS4 permitted municipalities with documents they can finalize and submit to U.S. EPA as part of their Year 4 reporting requirements.

This work is made possible through a grant from the MassDEP Municipal Assistance Program. Project staff from NepRWA and PVPC appreciate the conversation and feedback provided by MassDEP and U.S. EPA staff in working through methodology to prepare these reports. Aside from producing nutrient source identification reports for 20 communities, this project also resulted in the following: lake-pond phosphorous control plan Year 4 submission requirements for two communities; documentation of approach and methods for use by other MS4 permittees across MA in meeting these Year 4 requirements; and setting of the stage for upgrading existing stormwater infrastructure in key high pollutant loading catchments.

NepRWA and PVPC staff are grateful also to the partner communities who joined them in this pilot project. Following is a list of cities and towns who participated in this project:

Agawam
Canton
Dedham
Foxborough
Granby
Longmeadow
Ludlow
Medfield
Milton
Northampton
Quincy
Randolph
Sharon
South Hadley
Southampton
Southwick
Stoughton
Westfield
Westwood
Wilbraham

Background: The Nutrient Pollution Problem

Nitrogen and phosphorous are naturally occurring plant fertilizers or "nutrients." When land is developed, and storm drain systems are installed, the amount of nitrogen and phosphorous discharged to local streams, ponds and wetlands increases significantly relative to natural stream conditions. In the urban environment, nitrogen and phosphorous come from a variety of sources including organic debris such as fallen leaves, animal and pet waste, lawn and agricultural fertilizers, malfunctioning sewers and septic systems, and atmospheric deposition from car exhaust, among other sources.

Some of these sources also occur in the natural environment. However, in the urban environment the prevalence of paved and impervious areas coupled with the availability of storm drain collection systems allows street runoff containing excess nutrient pollution to be very quickly collected and conveyed to the nearest waterbody, generally with little or no treatment—bypassing the natural processes such as soil filtration and infiltration that would capture and recycle nutrients before they reached waterways in an undeveloped landscape.

As a result, nutrient pollution from polluted stormwater runoff has become a major source of pollution across the country. Nutrient pollution increases undesirable plant and algae growth in waterways, which can be highly toxic to humans and wildlife and reduce oxygen levels in the water. This, in turn, impedes recreation and creates chronic challenges for aquatic life, sometimes leading to fish kills. In freshwater waterways, phosphorous is generally the primary pollutant of concern while nitrogen becomes the primary concern once freshwater rivers flow into saltwater estuaries and bays.

Background: Regulatory Context

Under the federal and state clean water acts, the Massachusetts Department of Environmental Protection (MassDEP) is charged with establishing water quality standards and determining whether waterways meet these designated standards. MassDEP publishes its Integrated List of Waters, also referred to as the 303d Impaired Waters List, identifying waters that do not meet standards. These waterways are referred to as being "impaired" or "water quality limited" based on one or more causes which may include nitrogen, phosphorous, "nutrient/eutrophication biological indicators" or in some cases turbidity or transparency. MassDEP is also charged with preparing waterbody-specific cleanup plans for nutrient pollution known as Total Maximum Daily Loads or TMDLs, though these are yet to be prepared for many impaired waterways.

The Town of Randolph ("the Town") is subject to the requirements of US Environmental Protection Agency's (EPA's) 2016 Massachusetts Small MS4 General Permit. One of the requirements of this permit is that communities discharging stormwater to waterways that are listed by MassDEP as impaired for phosphorous or nitrogen, or that flow into impaired waterways, and for which a total maximum daily load does not exist, shall prepare a Nutrient Source Identification Report as detailed in Appendix H of the permit. This report has been developed to satisfy this requirement of the permit.

The nutrient source identification report must be submitted with the permit year 4 annual report (year ending June 30, 2022 and report due late September 2022). The requirements include (excerpt from EPA 2016 MS4 Permit Appendix H):

1. Calculation of total MS4 area draining to the water quality limited water segments or their tributaries, incorporating updated mapping of the MS4 and catchment delineations produced pursuant to part 2.3.4.6;
2. All screening and monitoring results pursuant to part 2.3.4.7.b., targeting the receiving water segment(s);
3. Impervious area and DCIA for the target catchment;
4. Identification, delineation and prioritization of potential catchments with high [nitrogen and/or phosphorous] loading;
5. Identification of potential retrofit opportunities or opportunities for the installation of structural BMPs during redevelopment.

MS4 Permit Appendix H Applicability

Portions of the Town lie both within the Neponset River Watershed and the Weymouth & Weir River Watershed. Of the 46 receiving waters identified in the Town's Notice of Intent, none have been identified as specifically impaired for phosphorus. However, in some cases, the Town's receiving waters

also flow into another water body that is impaired for phosphorous, or waters that are listed as impaired for a cause in which phosphorous pollution is a factor such as dissolved oxygen, or eutrophication biological indicators.

The saltwater portion of the Neponset River, known as the Neponset River Estuary, is not specifically listed as impaired for nitrogen by MassDEP, but is listed as impaired for several other factors for which nitrogen pollution is a contributing factor. Furthermore, EPA has directed the City of Quincy to prepare a nutrient source identification report for nitrogen based on its stormwater discharges to the Neponset River. While EPA has not provided any clear direction to other communities in the Neponset River Watershed that are upstream of the Neponset Estuary regarding the need for a nitrogen source identification report, the possibility exists that EPA may issue such a requirement in the future. In the interest of efficiency of analysis, this report also includes an analysis of nitrogen pollution loading for all communities in the Neponset River Watershed.

Therefore, this report has been prepared in accordance with the guidelines in sections I.1.b and II.1.b of Appendix H of the 2016 Massachusetts Small MS4 General Permit.

The status of receiving waters in the Town is summarized in Table 1 below.

Table 1. Receiving Waters for the Town of Randolph

Receiving Water	Number of Outfalls	Impaired for P?	Impaired for N?	Other Impairments
Unnamed Pond (Southrichwood Ave)	3	No	No	
Tributary to Unnamed Pond (Southrichwood Ave)	2	No	No	
Isolated Wetland (North Glenway Ave)	3	No	No	
Unnamed Pond (North Glenway Ave)	1	No	No	
Isolated Wetland (East Druid Hill Ave)	1	No	No	
Unnamed Pond (East Alden Ave)	1	No	No	
Isolated Wetland (Restarick Ave)	1	No	No	
Isolated Wetland (Boothby Cir)	1	No	No	
Mary Lee Brook	40	No	No	
Tributary to Mary Lee Brook (North)	11	No	No	
Tributary to Mary Lee Brook (South)	1	No	No	
Isolated Wetland (Curran Terrace)	1	No	No	
Glovers Brook	18	No	No	
Tributary to Glovers Brook	4	No	No	
Scum Pond	3	No	No	
Tributary to Scum Pond	9	No	No	
Cochato River (MA74-06)	5	No	No	Dissolved Oxygen, Chlordan, DDT, Fecal Coliform
Tributary to Cochato River	7	No	No	
Isolated Wetland (Alward Dr)	2	No	No	
Isolated Wetland (Paine Rd)	3	No	No	
Great Pond Upper Reservoir	13	No	No	
Tributary to Great Pond	1	No	No	

Tributary to Great Pond Upper Reservoir (Stetson Brook)	2	No	No	
Tributary to Great Pond Upper Reservoir (North)	6	No	No	
Tributary to Great Pond Upper Reservoir (South)	41	No	No	
Isolated Wetland (Reservoir Dr)	1	No	No	
Isolated Wetland (Skyview Rd)	1	No	No	
Isolated Wetland (Mazzeo Dr)	1	No	No	
Isolated Wetland (Bridle Path Cir)	2	No	No	
Wetlands (Bittersweet Ln)	12	No	No	
Isolated Wetland (Overlook Rd)	2	No	No	
Isolated Wetland (Lewis Dr)	2	No	No	
Isolated Wetland (Concetta Sass Dr)	2	No	No	
Isolated Wetland (Irving Rd – East)	1	No	No	
Isolated Wetland (Irving Rd – West)	5	No	No	
Unnamed Pond (York Ave)	3	No	No	
Tributary to Unnamed Pond (York Ave)	12	No	No	
Unnamed Pond (Fred Dolan Cir)	2	No	No	
Unnamed Brook (Vine St)	11	No	No	
Isolated Wetland (Vine St)	1	No	No	
Isolated Wetland (Willow Dr)	1	No	No	
Isolated Wetland (Marie Way)	10	No	No	
Isolated Wetland (Webster St)	2	No	No	
Isolated Wetland (Old St)	1	No	No	
Unnamed Brook (Reed St)	2	No	No	
Unnamed Brook (I-93 Ramp)	4	No	No	

Data Sources and Analytical Methods

Several existing datasets were used to complete this work. Table 2 below lists the utilized data sets and their origin.

Table 2. Data Sources

Existing Data Set	Origin	Date Published/Updated	Link
2016 Land Cover/Land Use	MassGIS	May 2019	https://docs.digital.mass.gov/dataset/massgis-data-2016-land-coverland-use
Soil Survey Geographic (SSURGO) Database for Norfolk and Suffolk Counties, Massachusetts	USDA	June 2020	Downloaded through Web Soil Survey (https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm). Hydrologic soil groups extracted using Soil Data Viewer Version 6.1 (https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/geo/?cid=nrcs142p2_053619)
Town Catchments	Town GIS Files	Current as of the publishing of this report	N/A
Massachusetts Land Parcel Database (Metro Boston Region)	MAPC	May 2019	Used to locate SCM opportunities, this shapefile contains the "Parloc_ID" field used to identify parcels. https://datacommon.mapc.org/browser/datasets/360

Impervious area is the portion of the Town that is paved, covered by buildings, or otherwise rendered unable to absorb water naturally due to development. Impervious area for the Town was calculated using the MassGIS 2016 Land Cover/Land Use data layer which was published in 2019. This data layer maps impervious and pervious land cover by land use type based on aerial photography and other data sources. This was overlaid with the Town's data layer for outfall catchment areas (the area draining to each town-owned stormwater discharge point) to estimate total areas and total impervious area discharging to or upstream of nutrient-impaired waterways, as well as to estimate impervious area for each stormwater outfall catchment.

Directly connected impervious area (DCIA), also referred to as "effective impervious cover," is the amount of impervious area that is directly connected to the storm drain system. Most land in the Town was developed before the creation of modern requirements to capture, clean, slow down, and recharge stormwater runoff using stormwater control measures (SCMs). However, many new development and redevelopment projects constructed in recent years have required the installation or upgrade of SCMs, such that today some properties have no SCMs, some have SCMs that meet some modern standards, and some have SCMs that are fully compliant with modern standards. Because site-specific information about the existence of specific SCMs is not available at the parcel level, an estimate of DCIA or effective impervious cover is used to approximate the average level of SCMs installed across the watershed. Estimating DCIA can yield a more specific pollutant loading estimate for a given area. DCIA was estimated based on land use categories following EPA guidance.

To estimate the pollutant loads for nitrogen and/or phosphorous in each catchment, estimated pollutant loading rates for different combinations of land use type, land cover type, and soil type were applied in accordance with guidance in the EPA 2016 MS4 Permit. The individual loading rates for these unique subsections were summed based on catchment, which produced an overall estimated catchment pollutant loading rate.

For a more detailed description of the analytical methods used for this project, please refer to the supplement to this report, entitled "Nutrient Source Identification Report Addendum: Methods."

Total Area Draining to Water Quality Limited Segments (or Tributaries)

The total area of the Town is approximately 6,664 acres. Since all areas of the Town are located either in the Neponset River Watershed or the Weymouth & Weir River Watershed and drainage flows either directly to waters that are impaired for phosphorus or waters that are listed as impaired for a cause in which phosphorous pollution is a factor, this report included all areas of the Town in the phosphorus loading evaluation. Table 3 below shows how much of the Town is located in each watershed.

Similarly, portions of the town are upstream of the Neponset Estuary and therefore drain to a segment that EPA may consider impaired for nitrogen. While EPA has not provided clear guidance indicating that the Town is subject to the requirements of Appendix H of the 2016 MS4 permit for nitrogen, this report includes the analysis for nitrogen so that the relevant data is available should EPA make such a determination in the future. Therefore, catchments located in the Neponset River Watershed were included in the nitrogen loading analysis sections of this report. Catchments located in the Weymouth & Weir River Watershed were not ranked with regards to nitrogen loading, but nitrogen loading estimates were made for these catchments in the process of analysis and the results are included in Table C-1 in Appendix C for reference.

Table 3. Summary of Area Draining to Water Quality Limited Segments

Receiving Water Impaired for Phosphorus	Neponset Watershed	Weymouth & Weir Watershed	Total
Total Area of Town (Acres)	943	5,721	6,664
Area Draining to Phosphorous Impaired Waters or Potentially Impaired Waters (Acres)	943	5,721	6,664
Area Draining to Nitrogen Impaired or Potentially Impaired Waters (Acres)	943	0	943

Impervious Area and Directly Connected Impervious Area

Table 4 below summarizes the total impervious area (IA) and estimated DCIA in the Town. It is also important to note that most of the impervious area in the Town is not owned or maintained by the Town, but by private parties or other public agencies.

Table 4. Summary of Impervious Area and DCIA

	Neponset Watershed	Weymouth & Weir Watershed	Total
Impervious Area (Acres)	72.5	1,240.9	1,313
Estimated DCIA (Acres)	15.3	303.7	319

Table A-1 and A-2 in Appendix A of this report provides impervious area and estimates of DCIA for the Town's catchments in the Weymouth & Weir and Neponset River Watersheds, respectively. Table 5 and 6 below show the same information for the ten catchments with the most impervious area in each watershed. The catchments are labeled using the Town's identifier for the outfall to which they drain. The table is sorted in descending order of total impervious area.

Table 5. Total Impervious Area and DCIA for the Ten Most Impervious Town Catchments in the Weymouth & Weir River Watershed

Catchment Identifier	Impervious Area (Acres)	Percent Impervious	DCIA (Acres)	Percent DCIA
OF-405	57.13	58.46 %	12.68	12.98 %
OF-560	43.35	45.90 %	7.35	7.79 %
OF-196	32.90	41.62 %	6.70	8.48 %
OF-146	31.51	43.02 %	4.76	6.50 %
OF-144	28.79	11.57 %	1.83	0.73 %
OF-533	26.36	59.21 %	5.73	12.88 %
OF-359	21.98	35.60 %	4.60	7.46 %
OF-413	21.42	39.38 %	4.98	9.16 %
OF-563	21.00	48.38 %	3.54	8.16 %
OF-367	20.37	33.22 %	4.44	7.24 %
Top 10 Catchments as a % of Town Watershed Total (Impervious 1,240.9 acres; DCIA 303.7 acres)	24.56 %		18.64 %	

Table 6. Total Impervious Area and DCIA for the Ten Most Impervious Town Catchments in the Neponset River Watershed

Catchment Identifier	Impervious Area (Acres)	Percent Impervious	DCIA (Acres)	Percent DCIA
OF-239	9.93	17.70 %	0.99	1.77 %
OF-572	9.46	42.50 %	2.09	9.38 %
OF-576	6.71	32.72 %	1.19	5.79 %
OF-542	6.54	27.16 %	1.03	4.29 %
OF-575	5.98	41.44 %	1.42	9.88 %
OF-230	5.34	32.87 %	0.77	4.77 %
OF-573	4.49	41.98 %	1.19	11.13 %
OF-540	4.07	21.33 %	0.64	3.34 %
OF-236	2.99	29.16 %	0.40	3.90 %
OF-483	1.88	47.99 %	0.88	22.48 %
Top 10 Catchments as a % of Town Watershed Total (Impervious 72.5 acres; DCIA 15.3 acres)	79.18 %		69.15 %	

Estimated Nutrient Loading from Catchments

Using the methods described in the addendum to this report, estimates of phosphorus and nitrogen loading potential were created for each of the Town's storm drain outfall catchments.

Tables B-1 and B-2 in Appendix B and C-1 and C-2 in Appendix C of this report show calculated phosphorus and nitrogen loading estimates, respectively, for all catchments in the Town. Tables 7-9 below show the five catchments with the highest estimated phosphorus and nitrogen loading, respectively. Note that, as stated earlier in this report, catchments in the Weymouth & Weir River Watershed were not ranked for estimated nitrogen load, but the analysis was completed in the interest of efficiency. Results for estimated nitrogen load for Weymouth & Weir River Watershed catchments are available in Table C-1 in Appendix C.

Table 7. Estimated Phosphorus Loading for Five Highest-Load Town Catchments in the Weymouth & Weir River Watershed

Catchment Identifier	Estimated P Load (Lbs/Yr)
OF-405	112.37
OF-560	94.02
OF-144	92.68
OF-196	67.93
OF-146	65.15
Top 5 as a % of Total Town Watershed Load	15.96 %

Table 8. Estimated Phosphorus Loading for Five Highest-Load Town Catchments in the Neponset River Watershed

Catchment Identifier	Estimated P Load (Lbs/Yr)
OF-239	25.44
OF-572	21.52
OF-576	16.47
OF-542	14.59
OF-575	13.67
Top 5 as a % of Total Town Watershed Load	54.75 %

Table 9. Estimated Nitrogen Loading for Five Highest-Load Town Catchments in the Neponset River Watershed

Catchment Identifier	Estimated N Load (Lbs/Yr)
OF-239	174.69
OF-572	171.83
OF-576	132.84
OF-542	118.79
OF-575	109.59
Top 5 as a % of Total Town Watershed Load	54.16 %

Note these are estimated loadings based on soil type, land use and estimated DCIA (e.g. typical level of SCMs in town). Actual loading may vary considerably from site to site depending on what SCMs are actually present, and regional studies such as the Charles River Phosphorous TMDL have indicated that the default DCIA assumptions used by EPA are somewhat optimistic, such that actual loading rates may be higher. However, these estimates provide a valuable guide to help identify those areas of the Town that should be the highest priorities for interventions to begin reducing pollutant loading.

Outfall Screening Monitoring Results

The Town's Dry Weather Outfall Screening and Sampling Report (dated November 2020) demonstrates that in 2020, BETA located and inspected 251 of the 258 originally identified as MS4 outfalls. The remaining 7 outfalls could not be found and were removed from the inventory. Of the 152 outfalls inspected, 190 were confirmed to be subject to the MS4 permit. 13 of these MS4 outfalls were observed to be flowing during dry weather conditions requiring follow-up sampling. BETA took samples at the 11 MS4 outfalls that were observed to be flowing during dry weather conditions. Analysis of pollutants of concern (nitrogen or phosphorus) was not performed because the flowing outfalls did not directly discharge into a water quality limited waterway or a water subject to an approved TMDL.

The Town's Dry Weather Interconnection Screening and Sampling Report (dated June 2021) demonstrates that in 2021, BETA determined 20 MS4 interconnections in Town. These interconnections were screened during dry weather conditions, where 2 interconnections were observed to be flowing and were sampled following the outfall sampling and testing procedures. The two interconnections were not analyzed for pollutants of concern (nitrogen or phosphorus) because they did not directly discharge into a water quality limited waterway or a water subject to an approved TMDL.

Catchment Prioritization

Since outfall screening activities did not indicate any specific catchments with high nutrient loads, this report is prioritizing the catchments based solely on the phosphorus and nitrogen loading estimates, in the order shown in Tables B-1 and B-2 (phosphorus) and C-1 and C-2 (nitrogen). As outfall screening and catchment investigations continue, the list of catchments should be re-examined and the "Top 5" list should be updated based on these real-world data.

Potential Retrofit Opportunities

Town parcels were examined for potential BMP retrofit opportunities using the Neponset Stormwater Partnership's BMP Tool (NSP BMP Tool). This tool analyzes soil data, estimated pollutant loading, and

various limitations of each parcel in Town to determine the locations most suitable for further field assessment of SCM opportunities to reduce chosen pollutants.

The NSP BMP Tool uses slightly different methods to estimate pollutant loading than are utilized in this report so estimated loading rates will differ. However, this does not diminish the utility of the NSP BMP Tool as a means to help identify potential retrofit sites, especially given additional features that are incorporated into the Tool.

After assessing the data, each high-loading catchment was reviewed for potential SCM sites. Five parcels were chosen and are listed in Tables 10-12 below. All parcels in these lists are Town-owned, as Town-owned properties often present the fewest barriers to SCM development. These sites should be visited first when performing reconnaissance work to locate SCMs that will reduce nutrient loading in the Town. Additionally, it should be noted that the NSP BMP Tool does not rank rights-of-way as Town-owned, but they are often highly desirable sites for SCMs. All rights-of-way, particularly in the high-loading catchments, should be considered in addition to individual parcels. Note that "Parloc_ID" is an attribute from the MAPC parcel data set that may be helpful in identifying the indicated parcels.

More extensive lists of Town-owned properties to be considered for SCM development is included in Appendix D and E. In these lists, they are ranked by the BMP Tool's priority score, which projects each parcel's pollutant load and considers how suited that parcel is for SCM's designed to remove the targeted pollutant. Appendix D ranks parcels for phosphorus removal and Appendix E ranks them for nitrogen removal. The larger lists in these appendices should be considered a more comprehensive collection of the parcels that should be considered first for SCM development. As Town-owned parcels are evaluated, the Town should begin considering privately-owned parcels, as well, using the NSP BMP Tool as a guide.

Table 10. High-Priority Parcels in the Weymouth & Weir Watershed to be Considered for SCM Development for Phosphorus Pollution

Address	Parloc_ID	Catchment	Notes
Grove St	F_776846_2886824	OF-144	Large undeveloped parcel bordering several residential areas. Recommend sections of the parcel closest to each residential area be examined.
Park St	F_780303_2887527	OF-89	Large undeveloped parcel bordering several residential areas. Recommend sections of the parcel closest to each residential area be examined.
S Windemere Ave	F_782435_2876890	OF-302	Undeveloped parcel bordering several residential areas. Recommend sections of the parcel closest to each residential area be examined.
592 N Main St	F_777902_2889826	OF-144	Powers Farm Community Park. A parking lot and a lot of open space. The existing open space appears to be used as a park, however the periphery and parking lot area could be examined for SCM potential.
Old St Off	F_775157_2894550	OF-560	Undeveloped land behind Charles Gabriel Devine School and also bordering a residential area.

Table 11. High-Priority Parcels in the Neponset River Watershed to be Considered for SCM Development for Phosphorus Pollution

Address	Parloc_ID	Catchment	Notes
Lafayette St	F_773511_2887830	OF-234	Large parcel containing a municipal building and a large undeveloped area.
Route 24	F_772011_2887978	OF-230	Undeveloped land behind a residential area.
Vine St	F_773483_2886246	OF-239	Largely undeveloped parcel containing municipal infrastructure, likely a sewage pump station.
West St	F_774665_2885265	OF-239	Undeveloped parcel bordering a residential area and a very large parking lot.

*This list represents all of the town-owned parcels within the Neponset River Watershed. To address phosphorus pollution in Neponset catchments, the Town should also primarily consider all roadways in these catchments for potential SCM opportunities.

Table 12. High-Priority Parcels in the Neponset River Watershed to be Considered for SCM Development for Nitrogen Pollution

Address	Parloc_ID	Catchment	Notes
Lafayette St	F_773511_2887830	OF-234	Large parcel containing a municipal building and a large undeveloped area.
Route 24	F_772011_2887978	OF-230	Undeveloped land behind a residential area.
Vine St	F_773483_2886246	OF-239	Largely undeveloped parcel containing municipal infrastructure, likely a sewage pump station.
West St	F_774665_2885265	OF-239	Undeveloped parcel bordering a residential area and a very large parking lot.

*This list represents all of the town-owned parcels within the Neponset River Watershed. To address nitrogen pollution in Neponset catchments, the Town should also primarily consider all roadways in these catchments for potential SCM opportunities.

Potential Locations Matrix and Map

BETA reviewed the potential retrofit opportunities produced by Neponset River Watershed Association from Tables 10, 11, 12 and Appendices D and E, and prioritized the locations based on the following characteristics important when selecting a location for a BMP retrofit: land ownership, soil type, depth to water table, proximity to potential subsurface areas of concern, opportunities for public use and education, ability for the town to access for maintenance, presence of stormwater infrastructure existing in the area, discharges to a receiving water. These results are included in a matrix and map in Appendix F.

The map in Appendix F includes existing BMP locations throughout Town. It was important to be aware of these existing sites when reviewing for potential BMP retrofit locations. Appendix G includes nutrient removal calculations for the existing infiltration BMPs in Town.

These results provide a valuable starting point for the next phase of requirements in Appendix H of the 2016 MS4 Permit which are due by the end of permit year 5 (6/30/2023), which include:

- “Evaluate all permittee-owned properties identified as presenting retrofit opportunities”,
- “Provide a listing of planned structural BMPs and a plan and schedule for implementation”, and
- “Any structural BMPs installed…by the permittee…shall be tracked and the permittee shall estimate the phosphorus removal by the BMP.”

Appendix A: Impervious/DCIA Summary by Catchment

Table A-1. Impervious and DCIA Amounts for All Town Catchments in the Weymouth & Weir River Watershed, Sorted by Impervious Area

Catchment Identifier	Impervious Area (Acres)	Percent Impervious	DCIA (Acres)	Percent DCIA
OF-405	57.13	58.46	12.68	12.98
OF-560	43.35	45.90	7.35	7.79
OF-196	32.90	41.62	6.70	8.48
OF-146	31.51	43.02	4.76	6.50
OF-144	28.79	11.57	1.83	0.73
OF-533	26.36	59.21	5.73	12.88
OF-359	21.98	35.60	4.60	7.46
OF-413	21.42	39.38	4.98	9.16
OF-563	21.00	48.38	3.54	8.16
OF-367	20.37	33.22	4.44	7.24
OF-188	18.05	46.03	3.48	8.86
OF-425	17.54	41.56	3.46	8.19
OF-340	17.25	51.85	5.07	15.23
OF-302	16.81	26.69	1.99	3.15
OF-214	16.04	49.56	4.39	13.57
OF-272	15.57	27.20	1.56	2.73
OF-462	15.56	26.82	1.69	2.92
OF-499	14.75	26.93	1.86	3.39
OF-312	14.22	26.34	2.35	4.35
OF-498	13.89	30.84	2.80	6.22
OF-338	13.80	66.18	3.47	16.66
OF-89	13.66	20.21	1.53	2.26
OF-551	13.06	42.70	2.37	7.76
OF-248	11.80	37.28	2.43	7.68
OF-456	11.58	62.42	5.87	31.64
OF-517	11.32	25.96	1.22	2.80
OF-136	11.30	51.02	2.91	14.05
OF-516	11.26	31.89	1.76	4.97
OF-514	10.99	32.83	1.81	5.39
OF-217	10.77	34.38	2.73	8.73
OF-555	10.73	38.85	2.37	8.57
OF-500	10.64	30.42	2.11	6.02
OF-313	10.44	28.01	1.13	3.02
OF-219	9.72	77.28	4.70	37.37
MH-862	9.56	44.13	1.71	7.90
OF-185	9.54	35.37	1.78	6.62
OF-484	9.20	27.84	1.18	3.57
OF-65	8.91	11.89	0.85	1.14
OF-467	8.86	77.19	5.98	52.12

OF-440	8.85	36.03	1.53	6.24
MH-1190	8.82	34.89	2.32	9.20
OF-264	8.53	30.20	0.98	3.47
OF-392	8.26	31.49	1.76	6.71
OF-199	7.79	44.30	1.83	10.41
OF-321	7.78	31.33	1.25	5.04
OF-368	7.70	29.11	1.32	4.99
OF-262	7.67	40.77	1.37	7.27
OF-534	7.66	38.89	1.28	6.50
OF-352	7.13	53.54	1.73	13.01
OF-501	7.11	35.43	1.44	7.18
OF-166	6.79	36.34	1.47	7.86
OF-418	6.10	33.58	2.35	12.95
OF-212	6.03	170.87	3.48	102.22
OF-160	5.89	40.33	1.13	7.76
OF-439	5.81	28.97	0.78	3.88
OF-435	5.77	39.64	1.56	10.75
OF-283	5.57	93.60	5.09	85.56
OF-460	5.53	31.28	1.07	6.08
OF-464	5.43	74.20	2.72	37.19
OF-525	5.39	36.60	0.98	6.64
OF-130	5.36	18.41	0.47	1.60
OF-310	5.27	24.90	0.80	3.76
OF-273	5.26	29.98	0.75	4.28
OF-457	5.14	66.14	2.69	34.65
OF-545	5.14	42.68	1.64	13.60
OF-465	5.10	80.89	2.42	38.34
OF-433	4.93	24.62	0.84	4.18
OF-176	4.76	14.02	0.40	1.17
OF-43	4.60	95.86	4.50	93.86
OF-561	4.58	40.07	0.83	7.23
OF-78	4.57	34.04	1.19	8.83
OF-155	4.54	13.60	0.68	2.03
OF-548	4.52	60.10	3.52	46.90
MH-1053	4.41	51.04	1.78	20.63
OF-96	4.37	33.41	1.17	8.96
OF-327	4.36	19.32	0.45	2.01
OF-322	4.26	70.72	2.67	44.40
MH-915	4.21	62.14	1.07	15.86
OF-373	4.08	14.59	0.43	1.55
OF-147	4.05	94.54	1.74	40.52
OF-292	4.01	33.48	1.00	8.36
OF-337	4.01	33.21	0.65	5.37

OF-376	4.01	9.99	0.24	0.59
OF-207	3.93	40.71	0.94	9.76
MH-12	3.88	56.13	1.11	16.00
OF-335	3.85	34.70	0.81	7.28
OF-330	3.69	20.55	0.66	3.70
OF-93	3.67	39.57	0.91	9.76
OF-274	3.58	34.20	0.92	8.84
OF-314	3.50	34.59	0.66	6.55
OF-94	3.49	30.61	1.03	9.04
OF-90	3.48	32.93	0.59	5.54
OF-365	3.40	36.72	0.53	5.74
OF-436	3.39	30.23	0.63	5.61
OF-110	3.36	12.65	0.35	1.33
OF-305	3.36	25.28	0.45	3.41
OF-554	3.35	64.75	1.70	32.84
OF-424	3.34	32.43	0.88	8.59
OF-100	3.29	27.20	0.49	4.03
OF-32	3.27	35.66	0.65	7.04
OF-162	3.23	30.57	0.73	6.96
OF-443	3.21	31.09	0.65	6.33
OF-356	3.16	24.13	0.70	5.38
OF-411	3.15	78.76	1.42	35.39
MH-1264	3.10	32.28	0.59	6.11
OF-397	3.05	20.29	0.39	2.61
OF-485	3.03	35.13	0.48	5.56
OF-308	3.03	72.70	1.09	26.26
MH-13	2.96	36.01	1.01	12.27
OF-37	2.93	42.24	1.26	18.14
MH-912	2.92	33.50	0.72	8.32
OF-370	2.88	10.98	0.46	1.76
OF-375	2.85	20.64	0.37	2.65
OF-423	2.84	78.39	1.17	32.20
OF-152	2.83	36.63	0.85	11.03
OF-432	2.71	36.84	0.45	6.09
OF-430	2.67	18.59	0.46	3.23
OF-522	2.63	76.86	1.99	58.22
OF-398	2.63	17.54	0.31	2.05
OF-421	2.52	26.76	0.50	5.36
OF-18	2.51	51.20	0.75	15.32
OF-355	2.48	16.41	0.39	2.60
OF-320	2.46	31.39	0.74	9.44
OF-143	2.40	38.58	0.61	9.86
OF-444	2.34	45.97	0.68	13.31

MH-1092	2.34	40.64	0.57	9.88
OF-102	2.29	19.59	0.56	4.81
OF-186	2.25	42.45	0.77	14.55
OF-64	2.21	41.50	0.66	12.43
OF-300	2.16	30.79	0.42	6.04
OF-91	2.16	31.96	0.58	8.56
OF-133	2.16	41.32	0.47	9.05
MH-775	2.12	44.27	0.46	9.67
OF-11	2.09	48.11	0.50	11.40
OF-309	2.09	30.44	0.52	7.54
OF-288	2.06	29.87	0.52	7.57
OF-233	2.05	43.97	0.63	13.41
OF-84	2.04	23.32	0.25	2.86
OF-323	2.03	25.84	0.44	5.64
OF-441	2.01	35.01	0.56	9.77
OF-35	2.00	38.25	0.55	10.45
OF-27	2.00	30.77	0.35	5.44
OF-42	1.98	85.64	1.21	52.43
OF-494	1.97	60.19	0.60	18.34
OF-246	1.97	61.60	1.51	47.31
OF-127	1.94	28.42	0.32	4.63
OF-449	1.93	45.70	0.64	15.14
OF-448	1.91	45.65	0.68	16.26
OF-358	1.91	43.11	0.62	13.94
OF-215	1.91	72.77	1.63	62.27
OF-134	1.90	21.62	0.39	4.43
OF-478	1.88	46.32	0.60	14.89
OF-306	1.87	47.10	0.59	14.90
OF-145	1.84	47.59	1.05	27.31
OF-519	1.83	55.26	0.56	16.86
OF-293	1.81	49.99	0.72	19.95
OF-21	1.81	49.04	0.54	14.60
OF-181	1.79	55.49	0.88	27.18
MH-1276	1.75	62.65	1.07	38.28
OF-324	1.72	34.72	0.34	6.86
OF-13	1.69	53.84	0.65	20.71
OF-502	1.67	35.69	0.42	8.98
OF-92	1.67	18.13	0.28	3.07
OF-336	1.66	25.14	0.28	4.28
OF-179	1.64	29.46	0.32	5.78
OF-140	1.63	45.33	0.40	11.26
OF-22	1.62	16.49	0.41	4.16
OF-304	1.61	26.18	0.25	4.14

OF-400	1.60	33.74	0.40	8.35
OF-1	1.60	45.76	0.53	15.18
OF-511	1.56	52.05	0.61	20.23
OF-269	1.55	19.85	0.32	4.12
OF-471	1.54	17.76	0.15	1.78
OF-391	1.53	40.05	0.44	11.59
OF-173	1.51	35.90	0.35	8.26
MH-222	1.50	77.66	1.05	54.59
OF-362	1.50	53.31	0.66	23.41
OF-61	1.50	26.53	0.36	6.46
OF-344	1.48	48.28	0.53	17.21
OF-149	1.47	40.51	0.41	11.33
OF-557	1.46	25.86	0.29	5.22
OF-451	1.46	41.00	0.57	16.10
OF-582	1.44	81.39	0.76	42.82
OF-407	1.43	73.93	0.81	41.90
OF-403	1.40	28.38	0.32	6.45
OF-389	1.40	65.22	0.69	31.96
OF-491	1.38	33.83	0.37	9.05
OF-553	1.36	35.37	0.32	8.44
OF-406	1.34	63.96	0.38	17.86
OF-510	1.34	39.72	0.44	12.99
OF-492	1.31	39.44	0.36	10.79
OF-427	1.29	39.28	0.68	20.58
MH-1418	1.27	22.98	0.28	4.99
OF-285	1.26	87.62	0.98	68.24
OF-28	1.24	13.25	0.22	2.37
OF-480	1.24	50.03	0.38	15.42
OF-343	1.23	28.80	0.28	6.51
OF-297	1.18	48.49	0.44	18.31
OF-41	1.18	88.45	0.76	56.84
OF-38	1.13	80.11	0.72	51.56
OF-488	1.11	39.39	0.27	9.47
OF-458	1.06	38.50	0.52	18.92
OF-296	1.03	77.98	0.52	39.75
OF-287	1.02	44.23	0.31	13.24
OF-455	0.98	74.04	0.75	57.21
OF-474	0.96	36.84	0.33	12.78
OF-490	0.93	43.74	0.36	17.08
OF-295	0.93	16.80	0.16	2.84
OF-55	0.93	63.06	0.74	50.31
OF-106	0.92	24.74	0.15	3.93
OF-206	0.92	87.16	0.81	76.83

OF-253	0.92	30.26	0.20	6.73
OF-339	0.88	47.55	0.38	20.61
OF-112	0.88	36.15	0.22	9.03
OF-508	0.88	56.20	0.37	23.75
MH-920	0.86	51.36	0.35	21.25
OF-77	0.84	17.25	0.13	2.74
OF-366	0.83	22.62	0.33	9.10
OF-98	0.82	27.35	0.15	4.91
OF-268	0.81	30.66	0.23	8.59
OF-8	0.81	20.83	0.18	4.51
OF-63	0.80	30.78	0.23	8.88
OF-489	0.75	40.52	0.27	14.62
OF-586	0.75	58.89	0.42	33.27
OF-380	0.74	76.98	0.43	44.39
OF-52	0.73	56.99	0.25	19.74
OF-385	0.72	39.15	0.14	7.83
OF-126	0.72	28.20	0.19	7.51
OF-5	0.71	99.30	0.71	98.95
OF-442	0.70	22.63	0.16	5.08
OF-105	0.69	39.91	0.25	14.20
OF-388	0.69	41.16	0.31	18.35
OF-381	0.69	35.23	0.16	8.39
OF-445	0.68	52.70	0.27	21.19
OF-361	0.67	56.78	0.30	25.64
OF-251	0.66	62.75	0.42	39.50
OF-209	0.63	69.17	0.51	56.45
MH-486	0.61	83.97	0.49	67.92
OF-342	0.61	60.15	0.31	31.09
OF-546	0.61	57.98	0.43	41.49
OF-390	0.59	26.38	0.12	5.35
OF-187	0.59	52.89	0.20	18.17
MH-737	0.59	62.32	0.33	35.41
OF-74	0.59	34.97	0.21	12.58
OF-4	0.58	86.43	0.54	80.35
OF-317	0.56	29.82	0.17	8.80
OF-111	0.56	43.26	0.22	17.20
OF-378	0.55	34.16	0.21	12.87
OF-174	0.54	53.01	0.29	28.75
OF-372	0.54	34.75	0.18	11.81
OF-307	0.54	38.65	0.14	9.91
OF-318	0.54	25.73	0.14	6.58
OF-414	0.53	42.66	0.23	18.58
OF-54	0.47	47.79	0.24	24.31

OF-419	0.45	34.95	0.16	12.03
OF-550	0.45	59.91	0.23	30.05
OF-346	0.44	60.66	0.21	29.27
OF-526	0.43	36.64	0.11	9.19
OF-298	0.42	42.46	0.23	22.63
OF-198	0.42	38.48	0.16	14.94
OF-477	0.42	56.82	0.31	41.71
OF-183	0.41	50.09	0.15	18.34
OF-384	0.41	32.62	0.10	8.22
OF-104	0.41	41.79	0.16	16.31
OF-329	0.40	45.59	0.21	23.14
OF-315	0.40	46.87	0.23	26.34
OF-503	0.40	19.15	0.06	2.95
OF-218	0.39	45.85	0.17	20.60
OF-137	0.37	89.30	0.37	87.72
OF-382	0.36	45.26	0.14	16.91
OF-345	0.36	51.61	0.19	27.60
OF-182	0.36	71.45	0.30	59.13
OF-97	0.34	43.10	0.12	14.65
OF-50	0.34	50.09	0.16	22.79
OF-195	0.33	51.87	0.12	18.87
OF-289	0.33	53.98	0.22	35.72
OF-461	0.32	61.78	0.20	39.22
MH-163	0.32	64.84	0.18	36.57
OF-383	0.31	51.39	0.13	20.95
OF-211	0.30	92.02	0.29	88.27
OF-178	0.30	18.52	0.06	3.76
MH-764	0.30	40.84	0.08	11.23
OF-19	0.29	27.99	0.15	14.10
OF-99	0.29	52.63	0.11	19.37
OF-184	0.29	66.13	0.13	29.48
OF-191	0.29	53.62	0.15	28.09
OF-254	0.29	96.97	0.28	95.49
OF-529	0.28	10.74	0.07	2.58
OF-122	0.25	37.29	0.09	13.17
OF-303	0.24	71.55	0.18	53.32
OF-180	0.24	18.69	0.09	7.07
OF-341	0.23	92.94	0.22	85.40
OF-24	0.23	26.45	0.06	6.99
OF-333	0.23	19.30	0.06	5.28
OF-95	0.23	13.26	0.06	3.44
OF-278	0.23	46.48	0.13	26.65
OF-123	0.23	42.27	0.09	16.56

OF-506	0.22	49.20	0.09	20.37
OF-15	0.22	97.36	0.19	84.14
OF-158	0.21	100.00	0.21	100.00
OF-360	0.21	48.74	0.09	21.12
OF-428	0.21	60.09	0.12	35.89
OF-286	0.19	45.35	0.12	29.78
OF-79	0.18	85.01	0.16	74.03
OF-282	0.18	42.65	0.07	17.31
OF-45	0.18	74.82	0.15	63.56
OF-459	0.18	40.74	0.09	20.44
OF-72	0.17	32.74	0.05	9.95
OF-450	0.17	83.25	0.14	67.29
MH-220	0.17	91.00	0.16	86.80
OF-463	0.16	24.09	0.03	5.03
OF-410	0.16	45.26	0.06	18.79
OF-493	0.16	80.16	0.12	61.62
OF-395	0.15	49.81	0.10	32.64
OF-150	0.15	36.96	0.09	22.19
OF-40	0.13	70.67	0.11	59.25
OF-495	0.13	32.59	0.06	15.27
OF-263	0.13	88.31	0.12	82.33
OF-169	0.13	28.00	0.05	10.88
OF-475	0.12	91.81	0.11	84.63
OF-39	0.12	84.37	0.09	64.73
OF-101	0.12	52.12	0.08	37.63
OF-257	0.11	82.73	0.08	66.36
OF-291	0.10	78.47	0.09	69.15
OF-416	0.10	43.05	0.07	31.83
OF-275	0.10	100.00	0.10	100.00
OF-31	0.09	100.00	0.09	100.00
MH-801	0.09	29.93	0.04	15.25
OF-271	0.08	45.16	0.05	28.69
OF-47	0.08	66.46	0.06	51.21
OF-479	0.08	70.24	0.04	39.84
OF-82	0.07	59.27	0.05	40.92
OF-23	0.07	45.25	0.03	18.59
OF-267	0.06	28.96	0.02	11.76
OF-562	0.06	19.88	0.01	5.28
OF-53	0.05	67.83	0.04	62.48
OF-357	0.04	28.43	0.01	7.90
OF-220	0.04	73.96	0.04	63.57
OF-135	0.02	54.86	0.01	33.16
OF-103	0.02	98.42	0.02	97.65

OF-256	0.02	70.97	0.01	45.46
OF-213	0.02	69.82	0.02	52.02
OF-284	0.02	100.00	0.02	100.00
OF-36	0.02	52.21	0.01	41.42
OF-276	0.01	100.00	0.01	100.00
OF-151	0.01	100.00	0.01	100.00
OF-148	0.01	92.94	0.01	89.60
OF-16	0.01	88.91	0.01	83.84
OF-159	0.00	100.00	0.00	100.00
MH-1126	0.00	100.00	0.00	100.00
OF-250	0.00	4.54	0.00	0.74
OF-210	0.00	0.00	0.00	0.00
OF-354	0.00	0.00	0.00	0.00
OF-568	0.00	0.00	0.00	0.00
OF-66	0.00	0.00	0.00	0.00

Table A-2. Impervious and DCIA Amounts for All Town Catchments in the Neponset River Watershed, Sorted by Impervious Area

Catchment Identifier	Impervious Area (Acres)	Percent Impervious	DCIA (Acres)	Percent DCIA
OF-239	9.93	17.70	0.99	1.77
OF-572	9.46	42.50	2.09	9.38
OF-576	6.71	32.72	1.19	5.79
OF-542	6.54	27.16	1.03	4.29
OF-575	5.98	41.44	1.42	9.88
OF-230	5.34	32.87	0.77	4.77
OF-573	4.49	41.98	1.19	11.13
OF-540	4.07	21.33	0.64	3.34
OF-236	2.99	29.16	0.40	3.90
OF-483	1.88	47.99	0.88	22.48
OF-234	1.84	15.66	0.21	1.76
OF-577	1.65	39.69	0.37	9.03
OF-564	1.13	30.89	0.45	12.26
OF-538	1.05	32.49	0.27	8.46
OF-229	1.03	28.86	0.28	7.77
OF-559	1.00	35.35	0.24	8.39
OF-541	0.91	27.30	0.21	6.17
OF-537	0.79	55.75	0.38	26.52
OF-227	0.76	25.53	0.18	5.94
OF-565	0.73	74.57	0.55	55.77
OF-578	0.60	22.32	0.09	3.48
OF-216	0.59	45.99	0.33	25.79
MH-976	0.57	26.38	0.15	6.84
OF-580	0.48	23.83	0.17	8.46
OF-539	0.38	16.27	0.09	3.74
OF-571	0.37	54.87	0.15	21.30
OF-197	0.31	34.63	0.18	20.55
OF-536	0.26	53.22	0.13	25.66
OF-486	0.26	37.01	0.10	13.74
OF-204	0.21	11.05	0.05	2.35
OF-200	0.11	88.54	0.11	86.82
OF-487	0.06	31.39	0.04	22.02

Appendix B: Estimated Phosphorus Loading Summary by Catchment

Table B-1. Estimated Phosphorus Loading for All Town Catchments in the Weymouth & Weir River Watershed

Catchment Identifier	Estimated P Load (Lbs/Yr)
OF-405	112.37
OF-560	94.02
OF-144	92.68
OF-196	67.93
OF-146	65.15
OF-533	51.78
OF-413	50.98
OF-359	44.18
OF-563	42.38
OF-367	41.76
OF-302	40.40
OF-425	39.21
OF-462	39.11
OF-272	38.40
OF-312	38.26
OF-188	36.49
OF-340	34.65
OF-214	33.55
OF-499	32.71
OF-498	32.06
OF-89	31.66
OF-517	28.30
OF-516	28.04
OF-65	27.85
OF-338	27.24
OF-313	26.33
OF-551	25.87
OF-217	25.45
OF-136	24.53
OF-514	23.64
OF-248	23.37
OF-500	22.09
OF-555	21.66
OF-456	21.14
MH-862	21.12
MH-1190	20.99
OF-185	20.00
OF-321	19.68
OF-484	19.49
OF-219	17.94
OF-264	17.70
OF-440	17.61
OF-392	17.01
OF-467	16.70
OF-262	16.61
OF-418	15.94
OF-534	15.89
OF-368	15.44
OF-501	15.17
OF-352	15.06
OF-199	15.00
OF-376	14.26
OF-166	13.29
OF-176	13.18
OF-130	12.23
OF-439	12.14
OF-545	12.09
OF-310	12.04
OF-460	11.81
OF-160	11.70
OF-155	11.66
OF-548	11.46
OF-435	11.37
OF-327	11.27
OF-212	11.12
OF-273	10.78
OF-96	10.74
OF-525	10.70
OF-433	10.69
OF-78	10.51
OF-464	10.36
OF-110	10.07
OF-283	10.06
OF-337	10.03
OF-330	9.83
OF-465	9.46
OF-373	9.39
OF-457	9.25
OF-561	9.09
OF-335	9.04

OF-322	9.02
OF-100	8.83
OF-292	8.79
OF-93	8.73
MH-915	8.43
OF-207	8.31
OF-43	8.26
OF-370	8.25
OF-424	8.20
OF-397	8.16
MH-1053	8.04
OF-314	7.85
OF-365	7.74
MH-12	7.68
OF-37	7.35
OF-375	7.32
OF-147	7.24
OF-274	7.17
OF-305	7.13
OF-90	7.07
OF-32	6.92
MH-13	6.81
OF-436	6.80
OF-94	6.70
MH-1264	6.62
OF-398	6.54
OF-443	6.51
OF-430	6.45
OF-356	6.44
OF-162	6.40
MH-912	6.30
OF-320	6.21
OF-485	6.16
OF-554	6.10
OF-308	5.82
OF-522	5.79
OF-411	5.75
OF-432	5.73
OF-423	5.52
MH-1092	5.46
OF-421	5.46
OF-152	5.42
OF-300	5.38

OF-102	5.31
OF-186	5.06
OF-355	5.00
OF-471	4.90
OF-18	4.81
OF-143	4.81
OF-233	4.77
OF-323	4.68
OF-84	4.62
MH-775	4.60
OF-215	4.59
OF-246	4.53
OF-91	4.51
OF-444	4.48
OF-11	4.47
OF-27	4.35
OF-336	4.28
OF-28	4.26
OF-92	4.22
OF-64	4.17
OF-133	4.15
OF-441	4.14
OF-309	4.12
OF-269	4.11
MH-1276	4.05
OF-288	4.04
OF-478	4.01
OF-127	3.97
OF-22	3.91
OF-293	3.90
OF-358	3.90
OF-400	3.89
OF-35	3.88
OF-494	3.87
OF-134	3.85
OF-324	3.82
OF-306	3.67
OF-449	3.66
OF-403	3.63
OF-448	3.61
OF-519	3.60
OF-304	3.58
OF-42	3.56

OF-511	3.43
OF-145	3.42
OF-510	3.39
OF-181	3.39
OF-557	3.38
OF-21	3.34
OF-344	3.34
OF-13	3.32
OF-179	3.30
OF-502	3.22
OF-140	3.20
OF-391	3.19
OF-362	3.17
OF-173	3.14
OF-1	3.06
OF-343	3.06
OF-451	2.99
OF-491	2.90
OF-61	2.86
OF-492	2.84
OF-553	2.84
OF-427	2.80
MH-222	2.77
OF-389	2.75
OF-407	2.71
OF-582	2.69
OF-149	2.68
MH-1418	2.62
OF-406	2.60
OF-366	2.43
OF-297	2.41
OF-480	2.39
OF-285	2.31
OF-55	2.24
OF-41	2.15
OF-206	2.14
OF-488	2.13
OF-38	2.05
OF-339	2.03
OF-295	2.01
OF-106	2.00
OF-474	1.99
OF-8	1.97

OF-287	1.96
OF-296	1.96
OF-458	1.94
OF-253	1.86
OF-490	1.85
OF-112	1.81
OF-455	1.76
OF-77	1.69
OF-508	1.65
OF-388	1.65
OF-98	1.63
MH-920	1.63
OF-268	1.61
OF-442	1.59
OF-126	1.58
OF-390	1.56
OF-63	1.55
OF-385	1.53
OF-317	1.52
OF-489	1.52
OF-318	1.51
OF-546	1.48
OF-52	1.40
OF-74	1.39
OF-586	1.37
OF-105	1.36
OF-380	1.36
OF-381	1.34
OF-361	1.30
OF-445	1.28
OF-5	1.26
OF-111	1.24
OF-342	1.24
OF-414	1.22
OF-307	1.21
OF-251	1.19
MH-737	1.17
OF-187	1.15
OF-378	1.14
OF-503	1.13
OF-209	1.13
MH-486	1.13
OF-419	1.08

OF-54	1.07
OF-4	1.06
OF-372	1.06
OF-174	1.06
OF-477	0.96
OF-526	0.94
OF-298	0.90
OF-137	0.86
OF-198	0.86
OF-384	0.83
OF-550	0.82
OF-218	0.82
OF-346	0.81
OF-183	0.81
OF-329	0.78
OF-315	0.78
OF-529	0.77
OF-104	0.77
OF-345	0.76
OF-97	0.71
OF-461	0.70
OF-50	0.69
OF-382	0.69
OF-195	0.66
OF-19	0.66
OF-182	0.64
MH-163	0.63
OF-95	0.62
OF-178	0.62
MH-764	0.60
OF-289	0.59
OF-383	0.58
OF-333	0.57
OF-180	0.56
OF-184	0.55
OF-99	0.55
OF-211	0.54
OF-191	0.53
OF-254	0.51
OF-506	0.50
OF-122	0.48
OF-24	0.47
OF-303	0.46

OF-123	0.44
OF-278	0.42
OF-341	0.42
OF-282	0.41
OF-428	0.41
OF-15	0.40
OF-360	0.39
OF-158	0.38
OF-72	0.35
OF-286	0.34
OF-45	0.34
OF-463	0.33
OF-459	0.33
OF-79	0.33
OF-410	0.31
OF-450	0.31
OF-395	0.31
MH-220	0.30
OF-493	0.28
OF-416	0.28
OF-150	0.27
OF-495	0.27
OF-40	0.25
OF-169	0.24
OF-263	0.23
OF-475	0.22
OF-101	0.21
OF-39	0.21
OF-257	0.19
OF-291	0.18
OF-271	0.18
OF-275	0.17
OF-31	0.16
MH-801	0.16
OF-47	0.16
OF-479	0.15
OF-23	0.13
OF-82	0.13
OF-562	0.12
OF-267	0.12
OF-53	0.11
OF-357	0.09
OF-220	0.08

OF-135	0.04
OF-213	0.04
OF-103	0.04
OF-36	0.04
OF-256	0.04
OF-284	0.03
OF-276	0.02
OF-151	0.02
OF-148	0.01

OF-16	0.01
OF-210	0.01
OF-159	0.01
OF-568	0.00
OF-66	0.00
OF-354	0.00
OF-250	0.00
MH-1126	0.00

Table B-2. Estimated Phosphorus Loading for All Town Catchments in the Neponset River Watershed

Catchment Identifier	Estimated P Load (Lbs/Yr)
OF-239	25.44
OF-572	21.52
OF-576	16.47
OF-542	14.59
OF-575	13.67
OF-230	12.06
OF-573	10.20
OF-540	8.34
OF-236	7.45
OF-234	4.85
OF-483	3.76
OF-577	3.46
OF-564	2.55
OF-229	2.49
OF-559	2.22
OF-538	2.03
OF-541	1.97
OF-565	1.67
OF-227	1.58
OF-537	1.48
MH-976	1.48
OF-578	1.45
OF-216	1.24
OF-580	1.04
OF-197	0.80
OF-539	0.79
OF-571	0.76
OF-204	0.73
OF-486	0.49
OF-536	0.49
OF-200	0.27
OF-487	0.15

Appendix C: Estimated Nitrogen Loading Summary by Catchment

Table C-1. Estimated Nitrogen Loading for All Catchments in the Weymouth & Weir River Watershed

Catchment Identifier	Estimated N Load (Lbs/Yr)
OF-405	899.48
OF-560	741.09
OF-144	674.60
OF-196	563.01
OF-146	509.36
OF-533	410.36
OF-413	384.62
OF-563	324.72
OF-359	324.18
OF-302	322.68
OF-462	314.82
OF-312	309.36
OF-367	304.23
OF-425	290.98
OF-272	289.34
OF-188	278.81
OF-340	276.56
OF-214	249.40
OF-499	248.59
OF-498	243.31
OF-89	230.08
OF-516	229.56
OF-65	217.56
OF-338	215.74
OF-313	212.59
OF-517	207.68
OF-551	195.29
OF-217	194.51
OF-514	188.51
OF-248	179.16
OF-136	176.46
MH-1190	173.65
OF-500	166.33
MH-862	165.96
OF-456	165.52
OF-555	157.13
OF-321	153.33
OF-484	149.51
OF-185	147.09
OF-219	142.36
OF-264	135.82
OF-467	133.75
OF-440	133.24
OF-392	125.37
OF-534	123.98
OF-262	122.57
OF-376	121.15
OF-368	118.74
OF-352	117.53
OF-418	116.52
OF-501	113.06
OF-199	112.84
OF-310	99.43
OF-166	99.27
OF-370	96.19
OF-327	94.60
OF-176	94.39
OF-130	93.77
OF-439	93.21
OF-545	91.98
OF-460	91.81
OF-160	89.88
OF-78	88.82
OF-155	88.30
OF-212	87.75
OF-435	83.94
OF-464	82.33
OF-273	81.80
OF-96	81.73
OF-525	80.16
OF-283	79.72
OF-337	79.53
OF-433	76.95
OF-373	75.55
OF-465	75.50
OF-330	74.74
OF-457	73.26
OF-548	72.69

OF-292	69.78
OF-100	69.48
OF-110	69.33
OF-335	68.37
OF-397	67.51
OF-561	66.94
MH-915	65.93
OF-93	65.50
OF-43	65.42
OF-322	65.37
OF-424	64.44
MH-1053	63.74
OF-207	62.64
OF-314	62.31
OF-375	58.90
MH-12	58.72
OF-147	57.38
OF-365	56.25
OF-305	56.22
OF-94	55.74
OF-32	53.90
OF-90	53.82
OF-430	52.72
OF-274	52.50
OF-436	51.19
OF-398	51.04
MH-1264	50.69
MH-13	50.38
OF-443	49.74
OF-162	48.65
OF-554	48.42
OF-37	48.32
MH-912	48.05
OF-356	48.00
OF-485	47.44
OF-411	47.32
OF-320	46.22
OF-308	46.03
OF-432	44.88
OF-300	44.19
OF-102	43.80
OF-471	42.87
MH-1092	42.25

OF-423	42.07
OF-152	41.41
OF-421	41.09
OF-186	40.86
OF-355	40.63
OF-28	38.60
OF-143	37.64
OF-18	37.32
OF-522	37.30
OF-84	37.15
MH-775	36.89
OF-22	36.37
OF-233	35.97
OF-11	35.78
OF-323	35.71
OF-92	35.19
OF-91	34.21
OF-444	33.82
OF-336	33.08
OF-27	32.52
OF-478	32.49
OF-133	32.44
OF-64	32.07
OF-400	32.01
OF-293	31.59
OF-441	31.40
OF-309	30.91
OF-288	30.44
OF-127	29.93
OF-403	29.74
OF-324	29.72
OF-494	29.50
OF-35	29.50
OF-304	29.25
OF-215	29.05
OF-134	28.83
OF-306	28.67
OF-358	28.25
OF-42	28.21
OF-13	28.20
OF-246	28.18
OF-449	27.92
MH-1276	27.69

OF-448	27.67
OF-21	27.58
OF-519	27.49
OF-145	27.36
OF-181	26.95
OF-557	26.93
OF-511	26.28
OF-269	25.83
OF-391	25.41
OF-344	25.26
OF-510	25.00
OF-179	24.96
OF-343	24.57
OF-502	24.49
OF-362	24.33
OF-173	24.19
OF-140	23.94
OF-1	23.46
OF-492	22.84
OF-553	22.72
OF-491	22.67
OF-61	22.60
MH-222	22.43
OF-389	21.96
OF-407	21.61
OF-149	21.37
OF-582	21.36
OF-451	21.17
MH-1418	20.73
OF-366	20.25
OF-406	19.65
OF-480	18.92
OF-427	18.84
OF-297	18.71
OF-285	18.28
OF-41	17.05
OF-8	16.92
OF-488	16.47
OF-38	16.29
OF-106	15.56
OF-458	15.44
OF-474	15.44
OF-296	15.36

OF-339	15.24
OF-287	14.79
OF-295	14.63
OF-490	14.59
OF-55	14.31
OF-112	14.30
OF-455	13.88
OF-253	13.86
OF-390	13.33
OF-206	13.07
OF-77	13.03
OF-388	12.71
OF-508	12.57
MH-920	12.45
OF-98	12.38
OF-442	12.26
OF-126	12.09
OF-268	12.02
OF-63	11.97
OF-489	11.92
OF-317	11.92
OF-318	11.91
OF-74	11.58
OF-385	10.86
OF-586	10.75
OF-52	10.59
OF-380	10.54
OF-361	10.19
OF-381	10.13
OF-105	10.06
OF-111	10.03
OF-5	10.02
OF-307	9.92
OF-546	9.86
OF-445	9.73
OF-414	9.56
OF-251	9.47
OF-529	9.34
OF-378	9.08
OF-209	8.99
MH-486	8.96
OF-419	8.89
OF-342	8.67

OF-503	8.57
OF-187	8.56
OF-4	8.44
MH-737	8.43
OF-54	8.19
OF-372	7.96
OF-174	7.81
OF-526	7.01
OF-198	6.76
OF-550	6.49
OF-477	6.29
OF-329	6.29
OF-19	6.28
OF-183	6.27
OF-346	6.24
OF-298	6.15
OF-218	6.11
OF-384	6.06
OF-104	5.88
OF-315	5.83
OF-97	5.54
OF-137	5.26
OF-382	5.25
OF-345	5.14
OF-195	5.10
OF-182	5.08
OF-95	5.07
MH-163	4.96
OF-50	4.91
OF-178	4.79
OF-289	4.68
OF-461	4.61
OF-180	4.60
MH-764	4.58
OF-333	4.49
OF-383	4.41
OF-99	4.36
OF-211	4.27
OF-184	4.25
OF-191	4.12
OF-254	4.04
OF-506	3.81
OF-303	3.72

OF-122	3.64
OF-24	3.49
OF-341	3.32
OF-428	3.28
OF-123	3.27
OF-278	3.27
OF-282	3.24
OF-15	3.11
OF-360	3.02
OF-158	3.00
OF-72	2.75
OF-286	2.71
OF-45	2.69
OF-79	2.59
OF-395	2.57
OF-459	2.56
OF-463	2.45
OF-450	2.43
OF-410	2.43
MH-220	2.40
OF-493	2.24
OF-495	2.17
OF-150	2.15
OF-40	1.96
OF-169	1.88
OF-416	1.82
OF-263	1.80
OF-475	1.74
OF-39	1.69
OF-101	1.68
OF-257	1.49
OF-291	1.45
OF-275	1.38
OF-31	1.29
MH-801	1.28
OF-47	1.27
OF-271	1.25
OF-479	1.13
OF-23	0.98
OF-82	0.98
OF-562	0.86
OF-267	0.86
OF-357	0.72

OF-53	0.65
OF-220	0.64
OF-213	0.34
OF-135	0.34
OF-103	0.33
OF-256	0.32
OF-284	0.25
OF-36	0.23
OF-276	0.16
OF-151	0.14

OF-148	0.12
OF-210	0.10
OF-16	0.09
OF-159	0.07
OF-354	0.01
OF-250	0.01
MH-1126	0.00
OF-568	0.00
OF-66	0.00

Table C-213. Estimated Nitrogen Loading for All Catchments in the Neponset River Watershed

Catchment Identifier	Estimated N Load (Lbs/Yr)
OF-239	174.69
OF-572	171.83
OF-576	132.84
OF-542	118.79
OF-575	109.59
OF-230	99.95
OF-573	82.01
OF-540	62.98
OF-236	61.47
OF-234	35.62
OF-483	29.27
OF-577	27.51
OF-564	20.82
OF-229	20.64
OF-559	18.37
OF-538	15.46
OF-541	14.22
MH-976	12.57
OF-227	12.34
OF-578	11.65
OF-537	11.37
OF-565	10.91
OF-216	9.96
OF-580	7.25
OF-204	6.88
OF-571	6.19
OF-539	5.93
OF-197	5.51
OF-536	3.78
OF-486	3.74
OF-200	1.63
OF-487	0.91

Appendix D: Town-Owned Parcels Sorted by the NSP BMP Tool's Phosphorus Priority Ranking

Table D-1. Town-Owned Parcels Sorted by BMP Tool Priority Score for Phosphorus Removal

Address	Parloc_ID	Use Description	BMP Tool Priority Score (Max Score = 1)
WEST ST	F_776500_2886230	Municipal Vacant	1.0000
GROVE ST	F_776846_2886824	Municipal Vacant	0.9941
PARK ST	F_780303_2887527	Municipal, Federal, or State	0.9941
LAFAYETTE ST	F_773511_2887830	Municipal Vacant	0.9941
REAR BREWSTER RD	F_783313_2891320	Municipal Vacant	0.9941
WASHINGTON AV	F_784266_2894305	Municipal Vacant	0.9929
HUMMELL ST	F_777177_2895229	Municipal Vacant	0.9929
STATE ST	F_782327_2893995	Municipal Vacant	0.9917
S WINDEMERE AV	F_782435_2876890	Municipal Vacant	0.9917
N MAIN ST REAR	F_778003_2889605	Municipal Vacant	0.9917
592 N MAIN ST	F_777902_2889826	Municipal, Federal, or State	0.9917
STOUGHTON ST	F_778558_2879153	Municipal Vacant	0.9837
HIGH ST	F_773829_2891455	Municipal Vacant	0.9837
CRESCENT AV	F_781884_2877799	Municipal Vacant	0.9826
THAYER AV	F_784224_2894159	Municipal Vacant	0.9819
VESEY RD	F_780575_2890236	Municipal Vacant	0.9816
BEAR SWAMP	F_776670_2882994	Municipal Vacant	0.9810
WYMAN RD	F_784136_2882928	Municipal Vacant	0.9806
LEOPOLD ST	F_777436_2895155	Municipal Vacant	0.9806
HYDE ST	F_777506_2895330	Municipal Vacant	0.9806
NEWCOMB AV	F_776943_2895616	Municipal Vacant	0.9806
LANCASTER RD	F_783527_2883270	Municipal Vacant	0.9675
ARGYLE RD	F_783810_2883477	Municipal Vacant	0.9675
STACKPOLE AV	F_781578_2893090	Municipal Vacant	0.9662
LANCASTER RD	F_783651_2883244	Municipal Vacant	0.9662
CENTRE ST	F_784657_2886763	Municipal Vacant	0.9662
OAK GROVE RD	F_775718_2887171	Municipal Vacant	0.9662
OAK GROVE RD	F_775803_2887199	Municipal Vacant	0.9662
CENTRE ST	F_782489_2879882	Municipal Vacant	0.9662
CENTRE ST	F_780584_2878948	Municipal Vacant	0.9662
MAPLE ST	F_780594_2883070	Municipal Vacant	0.9662
S MAIN ST	F_779980_2881785	Municipal, Federal, or State	0.9662
ROUTE 24	F_772011_2887978	Municipal Vacant	0.9662
STATE & BROAD ST	F_782275_2893789	Municipal Vacant	0.9662
ASTER ST	F_777435_2893054	Municipal Vacant	0.9662
NORTH ST	F_782528_2893391	Municipal Vacant	0.9662
STACKPOLE AV	F_781875_2892242	Municipal Vacant	0.9662
OAK ST	F_782494_2892067	Municipal Vacant	0.9662
STACKPOLE AV	F_781677_2892168	Municipal Vacant	0.9662

STACKPOLE AV	F_781814_2893143	Municipal Vacant	0.9662
NORTH ST	F_782182_2893274	Municipal Vacant	0.9662
LINCOLN AV	F_785591_2893676	Municipal Vacant	0.9662
S MAIN ST	F_780224_2879251	Municipal Vacant	0.9304
BROAD ST	F_782444_2893603	Municipal Vacant	0.9304
592 N MAIN ST	F_777686_2889511	Municipal Vacant	0.9304
S SHERWOOD AV	F_781508_2877510	Municipal Vacant	0.9282
COLE TR	F_778293_2881673	Municipal Vacant	0.9256
OAK ST	F_781925_2891847	Municipal Vacant	0.9256
STACKPOLE AV	F_781646_2892426	Municipal Vacant	0.9256
STACKPOLE AV	F_781581_2892721	Municipal Vacant	0.9256
16 FENCOURT AV	F_783279_2881842	Municipal, Federal, or State	0.8986
STATE ST	F_782547_2893836	Municipal Vacant	0.8985
STACKPOLE AV	F_781768_2892723	Municipal Vacant	0.8969
REAR S MAIN ST	F_778879_2878214	Municipal Vacant	0.8969
STACKPOLE AV	F_781970_2892225	Municipal Vacant	0.8969
OVERLOOK RD	F_775112_2891887	Municipal Vacant	0.8969
REGINA RD	F_782486_2886396	Municipal Vacant	0.8846
MILL ST	F_783746_2884845	Municipal Vacant	0.8846
LOU COURTNEY DR	F_780400_2880900	Municipal, Federal, or State	0.8839
HIGHLAND TR	F_778404_2880744	Municipal Vacant	0.8830
WESTWOOD AV	F_783317_2879161	Municipal Vacant	0.8830
VINE ST	F_773483_2886246	Municipal Vacant	0.8830
LEDGE HILL ST	F_776126_2887650	Municipal Vacant	0.8801
741 N MAIN ST	F_777540_2891604	Municipal, Federal, or State	0.8801
FITCH TR	F_778406_2880914	Municipal Vacant	0.8525
ROYCROFT DR	F_783799_2887445	Municipal Vacant	0.8525
SOUTH ST	F_780749_2884107	Municipal Vacant	0.8513
ORCHARD ST	F_777624_2892529	Municipal Vacant	0.8513
MILL ST	F_783192_2884682	Municipal Vacant	0.8513
CARLETON AV	F_783774_2881632	Municipal Vacant	0.8513
MARCONI DR	F_779673_2893049	Municipal Vacant	0.8513
STACKPOLE AV	F_781633_2892536	Municipal Vacant	0.8513
SOUTH ST	F_783061_2881040	Municipal Vacant	0.8513
S MAIN ST	F_781472_2875123	Municipal Vacant	0.8513
N RICHWOOD AV	F_782902_2878193	Municipal Vacant	0.8513
DRUID HILL AV	F_783091_2877940	Municipal Vacant	0.8513
CANESSA ST	F_783878_2890904	Municipal Vacant	0.8513
HUNTINGTON AV	F_784959_2892970	Municipal Vacant	0.8513
FAIRVIEW AV	F_779392_2882727	Municipal Vacant	0.8513
MILL ST	F_784151_2882667	Municipal Vacant	0.8513
MILL ST	F_784230_2882991	Municipal Vacant	0.8513

SOUTH ST	F_783102_2881012	Municipal Vacant	0.8513
S WINDEMERE AV	F_782794_2876840	Municipal Vacant	0.8513
WEST ST	F_774665_2885265	Municipal Vacant	0.8513
ARGYLE RD	F_783910_2883258	Municipal Vacant	0.8513
PLEASANT ST	F_781324_2887092	Municipal Vacant	0.8513
GROVE AV	F_777637_2896394	Municipal Vacant	0.8513
EMERTON AV	F_783033_2880912	Municipal Vacant	0.8513
EMERTON AV	F_782991_2880940	Municipal Vacant	0.8513
SOUTH ST	F_782977_2881094	Municipal Vacant	0.8513
SOUTH ST	F_783269_2880901	Municipal Vacant	0.8513
SOUTH ST	F_783238_2880922	Municipal Vacant	0.8513
SOUTH ST	F_783207_2880943	Municipal Vacant	0.8513
SOUTH ST	F_783154_2880977	Municipal Vacant	0.8513
PAYSON AV	F_782180_2877060	Municipal Vacant	0.8513
GROVE ST	F_776115_2887881	Municipal Vacant	0.8513
MILL ST	F_784168_2882702	Municipal Vacant	0.8513
CLARK ST	F_778727_2891005	Municipal Vacant	0.8513
PINE AV	F_780955_2890909	Municipal Vacant	0.8513
PAYSON AV	F_782192_2877130	Municipal Vacant	0.8513
VETERANS MEM. PK	F_780335_2884779	Municipal Vacant	0.8513
EMERTON AV	F_783085_2880877	Municipal Vacant	0.8513
S MAIN ST	F_780856_2875422	Municipal Vacant	0.8513
FITCH TR	F_779025_2881012	Municipal Vacant	0.8513
REAR UNION ST	F_782361_2882644	Municipal Vacant	0.8513
HIGH ST	F_773305_2889585	Municipal Vacant	0.8513
MORGAN ST	F_776154_2896346	Municipal Vacant	0.8513
CHAFFIN RD	F_776698_2896027	Municipal Vacant	0.8513
LISA RD	F_774807_2886527	Municipal Vacant	0.8513
MCCLELLAN ST	F_777525_2896327	Municipal Vacant	0.8513
MCCLELLAN ST	F_777643_2896363	Municipal Vacant	0.8513
NELSON ST	F_777405_2896387	Municipal Vacant	0.8513
OLD ST OFF	F_775223_2894182	Municipal Vacant	0.8513
POWDRELL AV	F_782136_2894633	Municipal Vacant	0.8513
THAYER AV	F_783859_2894091	Municipal Vacant	0.8513
CARLETON AV	F_783592_2881542	Municipal Vacant	0.8513
NORTH ST	F_784010_2891379	Municipal Vacant	0.8513
CHESTNUT ST	F_775215_2890935	Municipal Vacant	0.8513
POND ST	F_777733_2897698	Municipal, Federal, or State	0.8513
OAK ST	F_781774_2891829	Municipal Vacant	0.8513
OAK ST	F_781831_2891836	Municipal Vacant	0.8513
WEBSTER ST	F_776765_2894701	Municipal, Federal, or State	0.8513
OLD ST OFF	F_775157_2894550	Municipal Vacant	0.8513

N MAIN ST REAR	F_776403_2894588	Municipal Vacant	0.8513
NEWCOMB AV	F_776906_2895432	Municipal Vacant	0.8513
JULIAN RD	F_776623_2894691	Municipal Vacant	0.8513
LEOPOLD ST	F_777415_2895264	Municipal Vacant	0.8513
MCCLELLAN ST	F_777872_2895178	Municipal Vacant	0.8513
POND ST	F_776922_2896486	Municipal Vacant	0.8513
KINGCREST TR	F_783613_2885792	Municipal Vacant	0.8513
WARREN ST	F_779253_2885660	Municipal Vacant	0.8513
UNION ST	F_784093_2882290	Municipal Vacant	0.8513
LEOPOLD ST	F_777398_2895343	Municipal Vacant	0.8513
BALLARD ST	F_775482_2897850	Municipal Vacant	0.8513
HUMMELL ST	F_777281_2895330	Municipal Vacant	0.8513
STACKPOLE AV	F_781598_2892582	Municipal Vacant	0.8513
MULLEN ST	F_770630_2891244	Municipal Vacant	0.8513
BARTLETT RD	F_780206_2891310	Municipal Vacant	0.8513
CHESTNUT ST	F_775557_2891849	Municipal Vacant	0.8513
STACKPOLE AV	F_781704_2891930	Municipal Vacant	0.8513
STACKPOLE AV	F_781639_2892486	Municipal Vacant	0.8513
JANE ST	F_774116_2896012	Municipal Vacant	0.8513
HIGH ST	F_773637_2891860	Municipal Vacant	0.8513
REAR JOHN FLANAGAN CI	F_777660_2883060	Municipal Vacant	0.8513
NELSON ST	F_777420_2896425	Municipal Vacant	0.8513
CHRISTOPHER RD	F_774200_2888850	Municipal Vacant	0.8513
STATE ST	F_782863_2893958	Municipal Vacant	0.8513
ARGYLE RD	F_783750_2883336	Municipal Vacant	0.7195
MILL ST	F_784367_2883026	Municipal Vacant	0.7195
REAR MILL ST	F_784445_2883079	Municipal Vacant	0.7195
POND ST	F_777706_2897576	Municipal Vacant	0.7195
ARNOLD ST	F_777092_2895771	Municipal Vacant	0.7195
16 ALWARD DR	F_783264_2893397	Municipal Vacant	0.7195
NEWCOMB AV	F_776839_2895720	Municipal Vacant	0.7195
RESTARICK AV	F_783271_2881466	Municipal Vacant	0.7155
NORROWAY AV	F_777911_2893499	Municipal Vacant	0.7155
MILL ST	F_784373_2883285	Municipal Vacant	0.7155
MCCLELLAN ST	F_777650_2896326	Municipal Vacant	0.7155
NORROWAY AV	F_777985_2893573	Municipal Vacant	0.7155
ARNOLD ST	F_777124_2895902	Municipal Vacant	0.7155
GROVE ST	F_777077_2888777	Municipal Vacant	0.7127
ALWARD DR	F_782999_2893569	Municipal Vacant	0.7127
ROYCROFT DR	F_783808_2887814	Municipal Vacant	0.6815
MCCLELLAN ST	F_777546_2896226	Municipal Vacant	0.6815
HILLSIDE ST	F_777159_2896554	Municipal Vacant	0.6815
ROOT ST	F_777401_2895672	Municipal Vacant	0.6815

64 SUNSHINE AV	F_777348_2893625	Municipal, Federal, or State	0.6815
HYDE ST	F_777541_2895148	Municipal Vacant	0.6815
HIGH ST	F_774016_2892290	Municipal, Federal, or State	0.6815
WEST ST	F_777042_2886426	Municipal Vacant	0.6815
MCCLELLAN ST	F_778147_2895649	Municipal Vacant	0.6815
KINGCREST TR	F_784250_2884190	Municipal Vacant	0.6782
OLD ST	F_775518_2894315	Municipal Vacant	0.6564
THOMPSON DR	F_781966_2886078	Municipal Vacant	0.6564
S MAIN ST	F_779610_2884077	Municipal Vacant	0.6564
LUDDINGTON PK	F_780231_2884714	Municipal Vacant	0.6564
MAZZEO DR REAR	F_776831_2883963	Municipal Vacant	0.4708
BEAR SWAMP	F_776142_2883716	Municipal Vacant	0.4708
ROYCROFT DR	F_783837_2887554	Municipal Vacant	0.4693
ROYCROFT DR	F_783880_2887729	Municipal Vacant	0.4693
MCCLELLAN ST	F_777830_2895393	Municipal Vacant	0.4558
	F_783114_2893418		0.4504
20 HURLEY DR	F_782547_2885751	Municipal Vacant	0.4504
152 BITTERSWEET LN	F_776991_2884719	Apartments 4 or more units	0.4372
6 CURRAN TR	F_783672_2884487	Single family residence	0.4369
1 N MAIN ST	F_780513_2884778	Municipal Vacant	0.4369
NORTH ST	F_781751_2886899	Municipal Vacant	0.4369
1 ELDERLY DR	F_781487_2885406	Municipal, Federal, or State	0.2275
391 SOUTH ST	F_783654_2880754	Residential Other	0.2172
22 FENCOURT AV	F_783525_2882105	Municipal Vacant	0.2172
S MAIN ST	F_780544_2884373	Municipal Vacant	0.2172
CRAWFORD SQ	F_780614_2884317	Municipal, Federal, or State	0.2172
SOUTH ST	F_780740_2884309	Municipal Vacant	0.2172
70 MEMORIAL PKWY	F_779508_2884471	Municipal Vacant	0.2172
10 MEMORIAL PKWY	F_780103_2884691	Municipal Vacant	0.2172
2 N MAIN ST	F_780326_2884711	Municipal, Federal, or State	0.2172
1 TURNER LN	F_780107_2884515	Municipal, Federal, or State	0.2172
41 S MAIN ST	F_780172_2884167	Municipal, Federal, or State	0.2172
19 N MAIN ST	F_780442_2884874	Municipal, Federal, or State	0.2172
DECELLE DR	F_781569_2886567	Municipal, Federal, or State	0.2172
920 N MAIN ST	F_776358_2893394	Municipal Vacant	0.2172
INTERVALE TR	F_775868_2894420	Municipal Vacant	0.2172
INTERVALE TR	F_775895_2894378	Municipal Vacant	0.2172
PINE RD	F_776733_2895353	Municipal Vacant	0.2172
PAULINE ST	F_775174_2895207	Municipal, Federal, or State	0.2172

952 N MAIN ST	F_776236_2893514	Municipal, Federal, or State	0.2172
NORTH ST	F_781859_2887648	Municipal Vacant	0.2172
PLEASANT ST	F_781296_2887636	Municipal Vacant	0.2172
240 NORTH ST	F_781751_2887200	Municipal, Federal, or State	0.2172
SCHOOL ST	F_780405_2885715	Municipal Vacant	0.2172
HYDE ST	F_777526_2895220	Municipal Vacant	0.0044
HYDE ST	F_777614_2895384	Municipal Vacant	0.0033
410 ROOT ST	F_777638_2895498	Municipal Vacant	0.0033
S MAIN ST	F_779856_2877215	Municipal Vacant	0.0026
REAR COCHATO PARK	F_784144_2887277	Municipal Vacant	0.0026
GARFIELD AV	F_785934_2890740	Municipal Vacant	0.0026
S MAIN ST	F_779359_2877597	Municipal Vacant	0.0026
REAR S MAIN ST	F_780358_2876335	Municipal Vacant	0.0026
GARFIELD AV	F_785867_2888585	Municipal Vacant	0.0026
MAZZEO DR	F_776629_2884799	Municipal Vacant	0.0026
HYDE ST	F_777560_2895841	Municipal Vacant	0.0026
HYDE ST	F_777430_2896200	Municipal Vacant	0.0026
ARNOLD ST	F_777307_2896047	Municipal Vacant	0.0026
EAST AV	F_786024_2892170	Municipal Vacant	0.0026
NORWOOD AV	F_786042_2893145	Municipal Vacant	0.0026
BROAD MEADOWS	F_786042_2892898	Municipal Vacant	0.0026
MCCLELLAN ST	F_777673_2896202	Municipal Vacant	0.0010
NORTH ST	F_785803_2891346	Municipal Vacant	0.0010
GATES ST	F_777045_2895275	Municipal Vacant	0.0010
HYDE ST	F_777635_2895278	Municipal Vacant	0.0010
HYDE ST	F_777654_2895177	Municipal Vacant	0.0010
MCCLELLAN ST	F_777732_2895285	Municipal Vacant	0.0010
GROVE AV	F_777659_2896277	Municipal Vacant	0.0010
MCCLELLAN ST	F_777758_2895762	Municipal Vacant	0.0010

Appendix E: Town-Owned Parcels Sorted by the NSP BMP Tool's Nitrogen Priority Ranking

Table E-1. Town-Owned Parcels Sorted by BMP Tool Priority Score for Nitrogen Removal

Address	ParIoc_ID	Use Description	BMP Tool Priority Score (Max Score = 1)
PARK ST	F_780303_2887527	Municipal, Federal, or State	0.9969
152 BITTERSWEET LN	F_776991_2884719	Apartments 4 or more units	0.9969
	F_783114_2893418		0.9914
S MAIN ST	F_779980_2881785	Municipal, Federal, or State	0.9914
LOU COURTNEY DR	F_780400_2880900	Municipal, Federal, or State	0.9914
16 FENCOURT AV	F_783279_2881842	Municipal, Federal, or State	0.9727
64 SUNSHINE AV	F_777348_2893625	Municipal, Federal, or State	0.9706
HIGH ST	F_774016_2892290	Municipal, Federal, or State	0.9706
592 N MAIN ST	F_777902_2889826	Municipal, Federal, or State	0.9706
1 ELDERLY DR	F_781487_2885406	Municipal, Federal, or State	0.9475
391 SOUTH ST	F_783654_2880754	Residential Other	0.7689
CRAWFORD SQ	F_780614_2884317	Municipal, Federal, or State	0.7689
6 CURRAN TR	F_783672_2884487	Single family residence	0.7689
2 N MAIN ST	F_780326_2884711	Municipal, Federal, or State	0.7689
1 TURNER LN	F_780107_2884515	Municipal, Federal, or State	0.7689
41 S MAIN ST	F_780172_2884167	Municipal, Federal, or State	0.7689
19 N MAIN ST	F_780442_2884874	Municipal, Federal, or State	0.7689
DECELLE DR	F_781569_2886567	Municipal, Federal, or State	0.7689
POND ST	F_777733_2897698	Municipal, Federal, or State	0.7689
WEBSTER ST	F_776765_2894701	Municipal, Federal, or State	0.7689
PAULINE ST	F_775174_2895207	Municipal, Federal, or State	0.7689
952 N MAIN ST	F_776236_2893514	Municipal, Federal, or State	0.7689
240 NORTH ST	F_781751_2887200	Municipal, Federal, or State	0.7689
S MAIN ST	F_779856_2877215	Municipal Vacant	0.0711
REAR COCHATO PARK	F_784144_2887277	Municipal Vacant	0.0711
GARFIELD AV	F_785934_2890740	Municipal Vacant	0.0711
S MAIN ST	F_779359_2877597	Municipal Vacant	0.0711
REAR S MAIN ST	F_780358_2876335	Municipal Vacant	0.0711
GARFIELD AV	F_785867_2888585	Municipal Vacant	0.0711
MAZZEO DR	F_776629_2884799	Municipal Vacant	0.0711
HYDE ST	F_777560_2895841	Municipal Vacant	0.0711
HYDE ST	F_777430_2896200	Municipal Vacant	0.0711
ARNOLD ST	F_777307_2896047	Municipal Vacant	0.0711
EAST AV	F_786024_2892170	Municipal Vacant	0.0711
NORWOOD AV	F_786042_2893145	Municipal Vacant	0.0711
BROAD MEADOWS	F_786042_2892898	Municipal Vacant	0.0711
MAZZEO DR REAR	F_776831_2883963	Municipal Vacant	0.0695

BEAR SWAMP	F_776142_2883716	Municipal Vacant	0.0695
LINCOLN AV	F_785591_2893676	Municipal Vacant	0.0695
BEAR SWAMP	F_776670_2882994	Municipal Vacant	0.0685
GROVE ST	F_777077_2888777	Municipal Vacant	0.0685
REAR S MAIN ST	F_778879_2878214	Municipal Vacant	0.0685
ALWARD DR	F_782999_2893569	Municipal Vacant	0.0685
HIGHLAND TR	F_778404_2880744	Municipal Vacant	0.0674
WESTWOOD AV	F_783317_2879161	Municipal Vacant	0.0674
STOUGHTON ST	F_778558_2879153	Municipal Vacant	0.0662
GROVE ST	F_776846_2886824	Municipal Vacant	0.0662
BROAD ST	F_782444_2893603	Municipal Vacant	0.0662
REGINA RD	F_782486_2886396	Municipal Vacant	0.0662
MILL ST	F_783746_2884845	Municipal Vacant	0.0662
STACKPOLE AV	F_781768_2892723	Municipal Vacant	0.0653
STACKPOLE AV	F_781875_2892242	Municipal Vacant	0.0653
OAK ST	F_782494_2892067	Municipal Vacant	0.0653
STACKPOLE AV	F_781970_2892225	Municipal Vacant	0.0653
STACKPOLE AV	F_781814_2893143	Municipal Vacant	0.0653
OVERLOOK RD	F_775112_2891887	Municipal Vacant	0.0635
CRESCENT AV	F_781884_2877799	Municipal Vacant	0.0633
S SHERWOOD AV	F_781508_2877510	Municipal Vacant	0.0633
S MAIN ST	F_780224_2879251	Municipal Vacant	0.0626
592 N MAIN ST	F_777686_2889511	Municipal Vacant	0.0626
STATE ST	F_782327_2893995	Municipal Vacant	0.0621
STACKPOLE AV	F_781578_2893090	Municipal Vacant	0.0621
CENTRE ST	F_780584_2878948	Municipal Vacant	0.0621
VESEY RD	F_780575_2890236	Municipal Vacant	0.0621
MAPLE ST	F_780594_2883070	Municipal Vacant	0.0621
20 HURLEY DR	F_782547_2885751	Municipal Vacant	0.0621
ROUTE 24	F_772011_2887978	Municipal Vacant	0.0621
STATE & BROAD ST	F_782275_2893789	Municipal Vacant	0.0621
NORTH ST	F_782528_2893391	Municipal Vacant	0.0621
STACKPOLE AV	F_781677_2892168	Municipal Vacant	0.0621
NORTH ST	F_782182_2893274	Municipal Vacant	0.0621
CENTRE ST	F_784657_2886763	Municipal Vacant	0.0579
ROYCROFT DR	F_783837_2887554	Municipal Vacant	0.0579
ROYCROFT DR	F_783880_2887729	Municipal Vacant	0.0579
THAYER AV	F_784224_2894159	Municipal Vacant	0.0576
WASHINGTON AV	F_784266_2894305	Municipal Vacant	0.0571
HUMMELL ST	F_777177_2895229	Municipal Vacant	0.0571
FITCH TR	F_778406_2880914	Municipal Vacant	0.0564
LAFAYETTE ST	F_773511_2887830	Municipal Vacant	0.0564
HIGH ST	F_773829_2891455	Municipal Vacant	0.0564

REAR BREWSTER RD	F_783313_2891320	Municipal Vacant	0.0564
ROYCROFT DR	F_783799_2887445	Municipal Vacant	0.0564
KINGCREST TR	F_784250_2884190	Municipal Vacant	0.0552
S WINDEMERE AV	F_782435_2876890	Municipal Vacant	0.0552
VINE ST	F_773483_2886246	Municipal Vacant	0.0552
HYDE ST	F_777614_2895384	Municipal Vacant	0.0552
410 ROOT ST	F_777638_2895498	Municipal Vacant	0.0552
WEST ST	F_776500_2886230	Municipal Vacant	0.0552
N MAIN ST REAR	F_778003_2889605	Municipal Vacant	0.0552
STATE ST	F_782547_2893836	Municipal Vacant	0.0513
COLE TR	F_778293_2881673	Municipal Vacant	0.0509
OAK ST	F_781925_2891847	Municipal Vacant	0.0509
STACKPOLE AV	F_781646_2892426	Municipal Vacant	0.0509
STACKPOLE AV	F_781581_2892721	Municipal Vacant	0.0509
LANCASTER RD	F_783651_2883244	Municipal Vacant	0.0474
LANCASTER RD	F_783527_2883270	Municipal Vacant	0.0470
ARGYLE RD	F_783810_2883477	Municipal Vacant	0.0470
LEDGE HILL ST	F_776126_2887650	Municipal Vacant	0.0463
WYMAN RD	F_784136_2882928	Municipal Vacant	0.0463
OAK GROVE RD	F_775718_2887171	Municipal Vacant	0.0463
OAK GROVE RD	F_775803_2887199	Municipal Vacant	0.0463
CENTRE ST	F_782489_2879882	Municipal Vacant	0.0463
MCCLELLAN ST	F_777673_2896202	Municipal Vacant	0.0463
NORTH ST	F_785803_2891346	Municipal Vacant	0.0463
GATES ST	F_777045_2895275	Municipal Vacant	0.0463
HYDE ST	F_777635_2895278	Municipal Vacant	0.0463
LEOPOLD ST	F_777436_2895155	Municipal Vacant	0.0463
HYDE ST	F_777654_2895177	Municipal Vacant	0.0463
HYDE ST	F_777506_2895330	Municipal Vacant	0.0463
MCCLELLAN ST	F_777732_2895285	Municipal Vacant	0.0463
ASTER ST	F_777435_2893054	Municipal Vacant	0.0463
GROVE AV	F_777659_2896277	Municipal Vacant	0.0463
741 N MAIN ST	F_777540_2891604	Municipal, Federal, or State	0.0463
MCCLELLAN ST	F_777758_2895762	Municipal Vacant	0.0463
NEWCOMB AV	F_776943_2895616	Municipal Vacant	0.0463
MCCLELLAN ST	F_777830_2895393	Municipal Vacant	0.0402
ROYCROFT DR	F_783808_2887814	Municipal Vacant	0.0401
MCCLELLAN ST	F_777546_2896226	Municipal Vacant	0.0401
HILLSIDE ST	F_777159_2896554	Municipal Vacant	0.0401
ROOT ST	F_777401_2895672	Municipal Vacant	0.0401
HYDE ST	F_777541_2895148	Municipal Vacant	0.0401
WEST ST	F_777042_2886426	Municipal Vacant	0.0401

MCCLELLAN ST	F_778147_2895649	Municipal Vacant	0.0401
RESTARICK AV	F_783271_2881466	Municipal Vacant	0.0390
NORROWAY AV	F_777911_2893499	Municipal Vacant	0.0390
MILL ST	F_784373_2883285	Municipal Vacant	0.0390
MCCLELLAN ST	F_777650_2896326	Municipal Vacant	0.0390
NORROWAY AV	F_777985_2893573	Municipal Vacant	0.0390
ARNOLD ST	F_777124_2895902	Municipal Vacant	0.0390
ARGYLE RD	F_783750_2883336	Municipal Vacant	0.0378
MILL ST	F_784367_2883026	Municipal Vacant	0.0378
REAR MILL ST	F_784445_2883079	Municipal Vacant	0.0378
POND ST	F_777706_2897576	Municipal Vacant	0.0378
ARNOLD ST	F_777092_2895771	Municipal Vacant	0.0378
HYDE ST	F_777526_2895220	Municipal Vacant	0.0378
16 ALWARD DR	F_783264_2893397	Municipal Vacant	0.0378
NEWCOMB AV	F_776839_2895720	Municipal Vacant	0.0378
SOUTH ST	F_780749_2884107	Municipal Vacant	0.0361
ORCHARD ST	F_777624_2892529	Municipal Vacant	0.0361
MILL ST	F_783192_2884682	Municipal Vacant	0.0361
22 FENCOURT AV	F_783525_2882105	Municipal Vacant	0.0361
CARLETON AV	F_783774_2881632	Municipal Vacant	0.0361
MARCONI DR	F_779673_2893049	Municipal Vacant	0.0361
STACKPOLE AV	F_781633_2892536	Municipal Vacant	0.0361
SOUTH ST	F_783061_2881040	Municipal Vacant	0.0361
S MAIN ST	F_781472_2875123	Municipal Vacant	0.0361
OLD ST	F_775518_2894315	Municipal Vacant	0.0361
N RICHWOOD AV	F_782902_2878193	Municipal Vacant	0.0361
DRUID HILL AV	F_783091_2877940	Municipal Vacant	0.0361
THOMPSON DR	F_781966_2886078	Municipal Vacant	0.0361
CANESSA ST	F_783878_2890904	Municipal Vacant	0.0361
HUNTINGTON AV	F_784959_2892970	Municipal Vacant	0.0361
FAIRVIEW AV	F_779392_2882727	Municipal Vacant	0.0361
MILL ST	F_784151_2882667	Municipal Vacant	0.0361
MILL ST	F_784230_2882991	Municipal Vacant	0.0361
SOUTH ST	F_783102_2881012	Municipal Vacant	0.0361
S MAIN ST	F_780544_2884373	Municipal Vacant	0.0361
S WINDEMERE AV	F_782794_2876840	Municipal Vacant	0.0361
WEST ST	F_774665_2885265	Municipal Vacant	0.0361
ARGYLE RD	F_783910_2883258	Municipal Vacant	0.0361
PLEASANT ST	F_781324_2887092	Municipal Vacant	0.0361
GROVE AV	F_777637_2896394	Municipal Vacant	0.0361
S MAIN ST	F_779610_2884077	Municipal Vacant	0.0361
SOUTH ST	F_780740_2884309	Municipal Vacant	0.0361
EMERTON AV	F_783033_2880912	Municipal Vacant	0.0361

EMERTON AV	F_782991_2880940	Municipal Vacant	0.0361
SOUTH ST	F_782977_2881094	Municipal Vacant	0.0361
SOUTH ST	F_783269_2880901	Municipal Vacant	0.0361
SOUTH ST	F_783238_2880922	Municipal Vacant	0.0361
SOUTH ST	F_783207_2880943	Municipal Vacant	0.0361
SOUTH ST	F_783154_2880977	Municipal Vacant	0.0361
PAYSON AV	F_782180_2877060	Municipal Vacant	0.0361
GROVE ST	F_776115_2887881	Municipal Vacant	0.0361
MILL ST	F_784168_2882702	Municipal Vacant	0.0361
CLARK ST	F_778727_2891005	Municipal Vacant	0.0361
PINE AV	F_780955_2890909	Municipal Vacant	0.0361
LUDDINGTON PK	F_780231_2884714	Municipal Vacant	0.0361
PAYSON AV	F_782192_2877130	Municipal Vacant	0.0361
70 MEMORIAL PKWY	F_779508_2884471	Municipal Vacant	0.0361
10 MEMORIAL PKWY	F_780103_2884691	Municipal Vacant	0.0361
VETERANS MEM. PK	F_780335_2884779	Municipal Vacant	0.0361
EMERTON AV	F_783085_2880877	Municipal Vacant	0.0361
S MAIN ST	F_780856_2875422	Municipal Vacant	0.0361
FITCH TR	F_779025_2881012	Municipal Vacant	0.0361
REAR UNION ST	F_782361_2882644	Municipal Vacant	0.0361
1 N MAIN ST	F_780513_2884778	Municipal Vacant	0.0361
HIGH ST	F_773305_2889585	Municipal Vacant	0.0361
MORGAN ST	F_776154_2896346	Municipal Vacant	0.0361
CHAFFIN RD	F_776698_2896027	Municipal Vacant	0.0361
920 N MAIN ST	F_776358_2893394	Municipal Vacant	0.0361
LISA RD	F_774807_2886527	Municipal Vacant	0.0361
MCCLELLAN ST	F_777525_2896327	Municipal Vacant	0.0361
MCCLELLAN ST	F_777643_2896363	Municipal Vacant	0.0361
NELSON ST	F_777405_2896387	Municipal Vacant	0.0361
INTERVALE TR	F_775868_2894420	Municipal Vacant	0.0361
OLD ST OFF	F_775223_2894182	Municipal Vacant	0.0361
POWDRELL AV	F_782136_2894633	Municipal Vacant	0.0361
THAYER AV	F_783859_2894091	Municipal Vacant	0.0361
CARLETON AV	F_783592_2881542	Municipal Vacant	0.0361
NORTH ST	F_784010_2891379	Municipal Vacant	0.0361
CHESTNUT ST	F_775215_2890935	Municipal Vacant	0.0361
OAK ST	F_781774_2891829	Municipal Vacant	0.0361
OAK ST	F_781831_2891836	Municipal Vacant	0.0361
OLD ST OFF	F_775157_2894550	Municipal Vacant	0.0361
N MAIN ST REAR	F_776403_2894588	Municipal Vacant	0.0361

INTERVALE TR	F_775895_2894378	Municipal Vacant	0.0361
PINE RD	F_776733_2895353	Municipal Vacant	0.0361
NEWCOMB AV	F_776906_2895432	Municipal Vacant	0.0361
JULIAN RD	F_776623_2894691	Municipal Vacant	0.0361
LEOPOLD ST	F_777415_2895264	Municipal Vacant	0.0361
MCCLELLAN ST	F_777872_2895178	Municipal Vacant	0.0361
POND ST	F_776922_2896486	Municipal Vacant	0.0361
KINGCREST TR	F_783613_2885792	Municipal Vacant	0.0361
WARREN ST	F_779253_2885660	Municipal Vacant	0.0361
UNION ST	F_784093_2882290	Municipal Vacant	0.0361
LEOPOLD ST	F_777398_2895343	Municipal Vacant	0.0361
BALLARD ST	F_775482_2897850	Municipal Vacant	0.0361
HUMMELL ST	F_777281_2895330	Municipal Vacant	0.0361
STACKPOLE AV	F_781598_2892582	Municipal Vacant	0.0361
MULLEN ST	F_770630_2891244	Municipal Vacant	0.0361
BARTLETT RD	F_780206_2891310	Municipal Vacant	0.0361
CHESTNUT ST	F_775557_2891849	Municipal Vacant	0.0361
STACKPOLE AV	F_781704_2891930	Municipal Vacant	0.0361
STACKPOLE AV	F_781639_2892486	Municipal Vacant	0.0361
JANE ST	F_774116_2896012	Municipal Vacant	0.0361
NORTH ST	F_781859_2887648	Municipal Vacant	0.0361
PLEASANT ST	F_781296_2887636	Municipal Vacant	0.0361
HIGH ST	F_773637_2891860	Municipal Vacant	0.0361
REAR JOHN FLANAGAN CI	F_777660_2883060	Municipal Vacant	0.0361
NORTH ST	F_781751_2886899	Municipal Vacant	0.0361
SCHOOL ST	F_780405_2885715	Municipal Vacant	0.0361
NELSON ST	F_777420_2896425	Municipal Vacant	0.0361
CHRISTOPHER RD	F_774200_2888850	Municipal Vacant	0.0361
STATE ST	F_782863_2893958	Municipal Vacant	0.0361

Appendix F: Permittee-Owned BMP Retrofit Locations Matrix & Map by BETA Group

Appendix F: Permittee-Owned BMP Retrofit Locations

Address	Ownership		Soil Type[1]		Depth to Water Table[1]		Within a Potential Subsurface Area of Concern[2]		Opportunity for Public Use and Education		Access for Maintenance		Current Stormwater Infrastructure in Area		Receiving Water[3]		Priority Score	Comments
	Owner	Score 0 - 1	Type	Score[4] 0 - 3	Depth (ft)	Score[5] 0 - 3	Yes/No	Score 0 - 1	Yes/No	Score 0 - 1	Yes/No	Score 0 - 1	Yes/No	Score 0 - 1	Yes/No	Score 0 - 1	High Score, High Priority	
Weymouth & Weir Watershed																		
Rear Brewster Road Parcel: F_783313_2891320 Residential, woods	Town	1	A	3	5.5	2	No	0	Yes	1	Yes	1	Yes	1	Yes	1	10	Behind a residential neighborhood, wooded.
Lou Courtney Drive Parcel: F_780400_2880900 Martin E Young School	Town	1	A	3	4.5	2	No	0	Yes	1	Yes	1	Yes	1	Yes	1	10	Land at the school could be examined for a BMP.
40 Park Street Parcel: F_780303_2887527 Park, open space	Town	1	A, A/D, B	2.2	2.0	1	No	0	Yes	1	Yes	1	Yes	1	Yes	1	8.2	Large undeveloped parcel bordering several residential areas. Recommend sections of the parcel closest to each residential area be examined.
West of Old Street, North of TJ Mullaney Drive Parcel: F_775157_2894550 Open space	Town	1	A	3	1.5	0	Yes, Zone 2	1	Yes	1	Yes	1	Yes	1	No	0	8	Undeveloped land behind Charles Gabriel Devine School and also bordering a residential area.
South of Windemere Avenue Parcel: F_782435_2876890 Woods	Town	1	A	3	0.8	0	No	0	Yes	1	Yes	1	Yes	1	Yes	1	8	Undeveloped parcel bordering several residential areas. Recommend sections of the parcel closest to each residential area be examined.
East of 259 West Street Parcel: F_776500_2886230 Trails, woods, open space	Town	1	A,B	2.5	0.3	0	No	0	Yes	1	Yes	1	Yes	1	Yes	1	7.5	Open space, wooded with trails residents can access.
East of 208 Grove Street Parcel: F_776846_2886824 Trails, woods, open space	Town	1	A, B, B/D	2	0.3	0	No	0	Yes	1	Yes	1	Yes	1	Yes	1	7	Large undeveloped parcel bordering several residential areas. Recommend sections of the parcel closest to each residential area be examined.
Neponset Watershed																		
Northeast of 414 West Street Parcel: F_774665_2885265 Woods	Town	1	A	3	>6	3	No	0	No	0	Yes	1	Yes	1	No	0	9	Undeveloped parcel bordering a residential area and a very large parking lot.
6 Adams Street Parcel: F_773511_2887830 Tower Hill School	Town	1	A, B/D	2	1.1	0	No	0	Yes	1	Yes	1	Yes	1	Yes	1	7	Large parcel containing a municipal building and a large undeveloped area.
Between Route 24 and Marie Way/Colson Way Parcel: F_772011_2887978 Woods	Town	1	C	1	3.3	1	No	0	Yes	1	Yes	1	Yes	1	No	0	6	Undeveloped land behind a residential area.
East of 34 Vine Street Parcel: F_773483_2886246 Sewer pump station, woods	Town	1	A, B/D	2	0.3*	0	No	0	Yes	1	Yes	1	No	0	No	0	5	Largely undeveloped parcel containing municipal infrastructure, likely a sewage pump station.

NOTES
1. Data source: USDA Nautral Resources Conservation Service, Web Soil Survey. Depths marked with "*" were estimated using best judgement.
2. Examples: Contaminated Sites, Zone 2 Watershed Protection Areas. Data source: MassGIS, MassDEP Tier Classified Oil and/or Hazardous Material Sites
3. Control of Discharges to Water Quality Limited Waters, First or Second Order Streams, Public Swimming Beaches, Drinking Water Supply Sources, Shellfish Growing Areas
4. Score breakdown: Hydrologic Soil Group A =3, B = 2, C = 1, D = 0.
5. Score breakdown: Depths of 0 to 2 ft = 0, 2 to 4 ft = 1, 4 to 6 ft = 2, at least 6 ft = 3.

Town of Randolph, Massachusetts

BMP Retrofit Locations

Old Quincy Reservoir

Milton

Quincy

Farm River

Hoosicwhisick Pond

Blue Hill River

Braintree

Great Pond

Weymouth & Weir Watershed

Neponset Watershed

Ponkapoag Pond

West of Old Street,
North of TJ Mullaney Drive

Rear Brewster Road

Pequid Brook

Between Route 24 and
Marie Way/Colson Way

6 Adams Street

East of
208 Grove Street

40 Park Street

Cochato River

Canton

East of 34 Vine Street

East of 259 West Street

Northeast of
414 West Street

Mary Lee Brook

Sylvan Lake

Lou Courtney Drive

Stoughton

Holbrook

Lake Holbrook

South of Windemere Avenue

Avon

Brockton Reservoir

Map Legend

Highlighted Parcels

Proposed BMP Retrofit Location

Regulated Areas

MA MS4 Area

Stormwater Structures

- Existing BMP
- State Owned Catch Basin
- Town Owned Catch Basin
- State Owned Manhole
- Town Owned Manhole
- Private/Other Manhole
- Outfall
- Interconnection
- Inlet

Conveyance

- Pipe
- Culvert
- Swale/Channel

***MassDEP 2018/2020 Integrated List of Waters**

- Rivers: Category 4A
- Lakes, Estuaries: Category 4A
- Rivers: Category 4C
- Lakes, Estuaries: Category 4C
- Rivers: Category 5
- Lakes, Estuaries: Category 5

Hydrography

- Hydrologic Connection
- Open Water
- Wetland
- Major Watershed Boundary

Roadway Owner

- State
- Town (and Other)

0 0.5 1 Miles

BETA

Issue Date: June 2022

This Map is Intended for Planning Purposes Only

Appendix G: Existing BMP Nutrient Removal Calculations by BETA Group

Appendix G: Existing BMP Nutrient Removal Calculations

BMP ID	Address	BMP Type	Phosphorus Removal (lb/yr)	Nitrogen Removal (lb/yr)	TSS Removal (lb/yr)
BMP-1	North Main Street at Jones Avenue	Swale	0.10	0.39	19.65
BMP-4	225 High Street	Stormwater Basin	0.28	2.70	263.20
BMP-5	952 North Main Street	Swale	0.04	0.22	94.09
BMP-6	128 Pleasant Street	Bioretention	0.03	0.24	6.39
BMP-8	18 Powers Farm Road	Stormwater Basin	0.66	5.57	580.07
BMP-9	10 Flanagan Circle	Stormwater Basin	0.40	4.42	345.36
BMP-10	129 North Main Street	Stormwater Basin	0.09	0.96	68.58