

Tewksbury Township

Introduction

Located in Hunterdon County in New Jersey, Tewksbury Township covers about 31.8 square miles. With a population of 5,870 (2020 United States Census), Tewksbury Township consists of 23.1% of urban land uses by area. Of that urban land use, approximately 82.1% is comprised of rural residential property (NJDEP Open Data). In addition to residential development, urban land use also includes land used for commercial, mixed urban, recreational and transportation. Natural lands (forests, wetlands, and water) make up approximately 48.1% of Tewksbury Township.

Tewksbury Township contains portions of nine subwatersheds (Table 1). There are approximately 101.7 miles of rivers and streams within the municipality; these include Boulder Hill Brook and its tributaries, Cold Brook and its tributaries, Frog Hollow Brook and its tributaries, Guinea Hollow Brook and its tributaries, Hollow Brook and its tributaries, Lamington River and its tributaries, North Branch Rockaway Creek and its tributaries, Rockaway Creek and its tributaries, South Branch Raritan River and its tributaries, South Branch Rockaway Creek and its tributaries, Turtleback Brook, and several uncoded tributaries. Tewksbury Township is within the New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area (WMA) 8 (North and South Branch Raritan)

Table 1: Subwatersheds of Tewksbury Township

Subwatershed	HUC14
Raritan River South Branch (Califon bridge to Long Valley)	02030105010060
Raritan River South Branch (Stone Mill gage to Califon)	02030105010070
Lamington River (Pottersville gage to Furnace Road)	02030105050040
Cold Brook	02030105050060
Lamington River (Halls Bridge Road to Herzog Brook)	02030105050070
Rockaway Creek (above McCrea Mills)	02030105050080
Rockaway Creek (below McCrea Mills)	02030105050090
Rockaway Creek South Branch	02030105050100

Lamington River (Herzog Brook to Pottersville gage)	02030105050130
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The purpose of this report is to provide a comprehensive understanding of key, defining features within the subwatersheds throughout Tewksbury Township. This involves gathering, organizing, and presenting information about existing conditions and infrastructure within each subwatershed. It aims to serve as a tool for informed decision-making, planning, and implementation of sustainable watershed management strategies aimed to protect and enhance the health of the watershed, its associated ecosystems, and the surrounding communities.

A geographic information system (GIS) was used to visualize data pertaining to the existing stormwater infrastructure, land cover, watershed delineation, and water quality classification and impairments within separate layers. Datasets from the New Jersey Department of Environmental Protection’s (NJDEP’s) GIS database was used to populate the watershed inventory map, from which the relevant data were isolated. Datasets representing Tewksbury Township’s existing stormwater infrastructure were provided by the township and were manipulated, if necessary, for the specific purposes of this report.

Analysis by Municipality

An analysis was completed by municipality. Figure 1 shows Tewksbury Township in relation to the study area. Figure 2 shows the portions of the nine HUC14s in Tewksbury Township and highlights the HUC14s that are contained within the study area. Figure 3 illustrates the land use in Tewksbury Township. A detailed land use analysis and nonpoint source loading analysis was completed for each HUC14 in Tewksbury Township and is presented in Table 2. Figure 4 shows the impervious cover in Tewksbury Township based upon NJDEP’s 2015 impervious cover layer. An impervious cover analysis was completed for each HUC14 in Tewksbury Township and is presented in Table 3.

For the area of the municipality in the study area, a stormwater facilities analysis was completed (see Figure 5). Two sources were used to identify stormwater facilities. The first data source was the New Jersey Hydrologic Modeling Database (SCS, 2024) that was prepared by the Soil Conservation Districts (SCD) and Rutgers University. The second data source was the NJDEP 2020 land use/land cover GIS Layer. Land use data uses a land use code (1499) to identify stormwater basins. Each stormwater basin was inspected (see Table 4). The detention basins in Table 4 (identified as type “D”) could benefit from naturalization (i.e., conversion from a detention basin to a bioretention basin). Detention basins that are already naturalized are identified as type “N”. The retention basins in Table 4 (identified as type “R”) could benefit from the addition of vegetative shoreline buffers. Retention basins that already have a vegetative shoreline buffer are listed as type “RB”. No retention basins without vegetative shoreline buffers were identified in Tewksbury Township within the study area.

The Q-Farms in Tewksbury Township have been identified (see Figure 6). Table 5 presents the data available for each Q-Farm parcel. Q-Farms are the parcels that have been qualified for farmland tax assessment. The Q-Farms in the study area of Tewksbury Township have been

identified (see Figure 7 and Table 6). It is important to note that the land use on a Q-Farm is often not all agriculture. Figure 8 illustrates the land use on the Q-Farms, which is summarized in Table 7. There are 5,735.8 acres of agricultural land use in Tewksbury Township, of which, 3,324.1 acres lie within the study area for this Watershed Restoration and Protection Plan. There are 229 Q-Farms and portions of 34 Q-Farms in the study area portion of Tewksbury Township, totaling 5,973.4 acres. Within the 229 Q-Farms and portions of 34 Q-Farms, there are approximately 2,833.1 acres of agricultural land use. Aerial photography (see Figure 9) was used to identify areas where riparian buffers may be able to be enhanced to further protect the waterways from agricultural impacts. Based upon the aerial photograph and site visits, recommendations for the agricultural lands in the study area in Tewksbury Township are presented in Table 8.

The impervious cover analysis was used to calculate targets for areas of rooftops to be treated with rain gardens and length of roadways to be managed with bioswales. Six HUC14s are included in the study area (02030105010060, 02030105010070, 02030105050040, 02030105050060, 02030105050070, 02030105050130). Within these six HUC14s, there are 87.6 acres of buildings and 200.4 acres of roadway. The Watershed Restoration and Protection Plan recommends managing stormwater runoff from ¼ of 25% of the building rooftops. For the study area within Tewksbury Township, approximately 11.0 acres of rooftop runoff would be managed with 2.19 acres of rain gardens. The plan also calls for the management of 10% of the roadways with bioswales. For the study area within Tewksbury Township, approximately 20.0 acres of roadway would be managed, or 5.5 miles of roadway.

Finally, the parcel data was used to identify parcels that are classified as Property Class 15. Property Class 15 parcels are tax-exempt, and include six subcategories:

15A – Public School Property

15B- Other School Property

15C- Public Property

15D- Church and Charitable Property

15E- Cemeteries and Graveyards

15F- Other Exempt

The Property Class 15 parcels for Tewksbury Township are shown in Figure 10 and presented in Table 9. When the municipality develops their Watershed Improvement Plan to satisfy their Municipal Separate Storm Sewer System (MS4) permit, these are the first sites that are assessed for opportunities to install watershed improvement projects. This assessment was completed for the Property Class 15 parcels in the study Area (see Figure 11). Available information for each parcel in the study Area is presented in Table 10. Class 15E parcels were excluded from the assessment. Seven of these properties offer opportunities to be retrofitted with green infrastructure to help reduce pollutant loads. These properties are identified in Table 10 and represent watershed improvement projects that can be included in the municipality's Watershed Improvement Plan. Figure 12 shows parcels within the entire municipality that offer opportunities to be retrofitted with green infrastructure. These sites are included in the Impervious Cover Reduction Action Plan that was completed by the RCE Water Resources Program for the municipality.

Water Quality Classification

The New Jersey Department of Environmental Protection (NJDEP) Surface Water Quality Standards (SWQS) are regulations that govern the water quality goals and pollution limitations for surface waters in New Jersey. Surface waters are classified based on their designated uses, such as drinking water supply, aquatic life habitat, recreation, or shellfish harvesting. The SWQS are used to protect those uses and guide permitting, monitoring, and water quality restoration efforts.

Under the SWQS, freshwaters are classified as Fresh Water 1 (FW1), Fresh Water 2 (FW2), or Pinelands (PL). FW1 waters are nondegradation waters with unique ecological significance, in which man-made wastewater discharges are not permitted. FW2 waters are all other freshwaters except for Pinelands waters. FW2 waters are further classified based on their ability to support trout. Trout Production waters (TP) are designated for use by trout for spawning or nursery purposes during their first summer. Trout Maintenance waters (TM) are designated for the support of trout throughout the year. Non-trout waters (NT) are generally unsuitable for trout due to their physical, chemical, or biological characteristics. Pinelands waters – which may be either fresh or saline waters – are surface waters within the Pinelands Protection and Preservation areas.

Saline waters that are not PL are classified under the SWQS as either Saline Estuarine (SE) or Saline Coastal (SC). SE waters are further subcategorized based on their ability to support recreation, shellfish harvesting, and warm water fish species. SE1 waters have the highest protection within the SE category, and must support the maintenance, migration, and propagation of fish and aquatic life, as well as shellfish harvesting. SE2 waters must support the maintenance, migration, and propagation of fish and aquatic life but do not need to support shellfish harvesting. SE3 waters must support the migration of fish but do not need to support permanent aquatic biota populations or shellfish harvesting. Some coastal waters have dual classifications where the waters change from freshwater to saltwater as they drain into the estuary or ocean.

Finally, there are three antidegradation classifications assigned to all New Jersey surface waters. Outstanding National Resource Waters (ONRW) is the most protective classification and applies to all F1 and PL waters. No degradation is permitted in ONRW waters. Category One waters (C1) are protected from any measurable change to existing water quality because of their exceptional ecological significance, exceptional recreational significance, exceptional water supply significance, or exceptional fisheries resources. Category Two waters (C2) permit some measurable degradation in water quality, but the changes must be limited and justified. C2 is the default classification for all surface waters that are not categorized as F1, PL, or C1.

There are six classifications that apply to the streams in Tewksbury Township. Figure 13 depicts the water quality classifications of surface waters throughout Tewksbury Township and Table 11 summarizes the total miles and percentage of each surface water quality classification in the municipality.

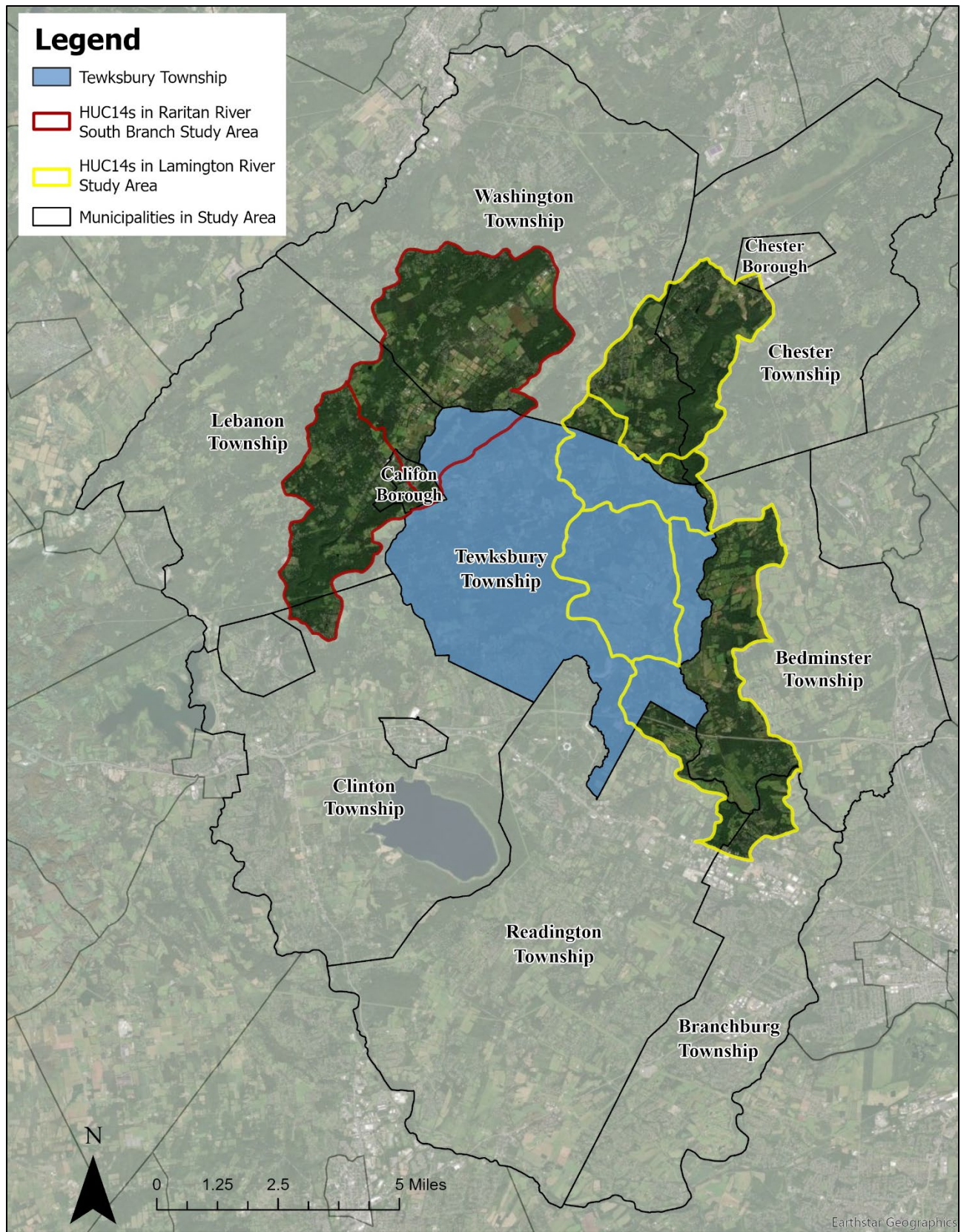


Figure 1: Municipalities in the Study Area

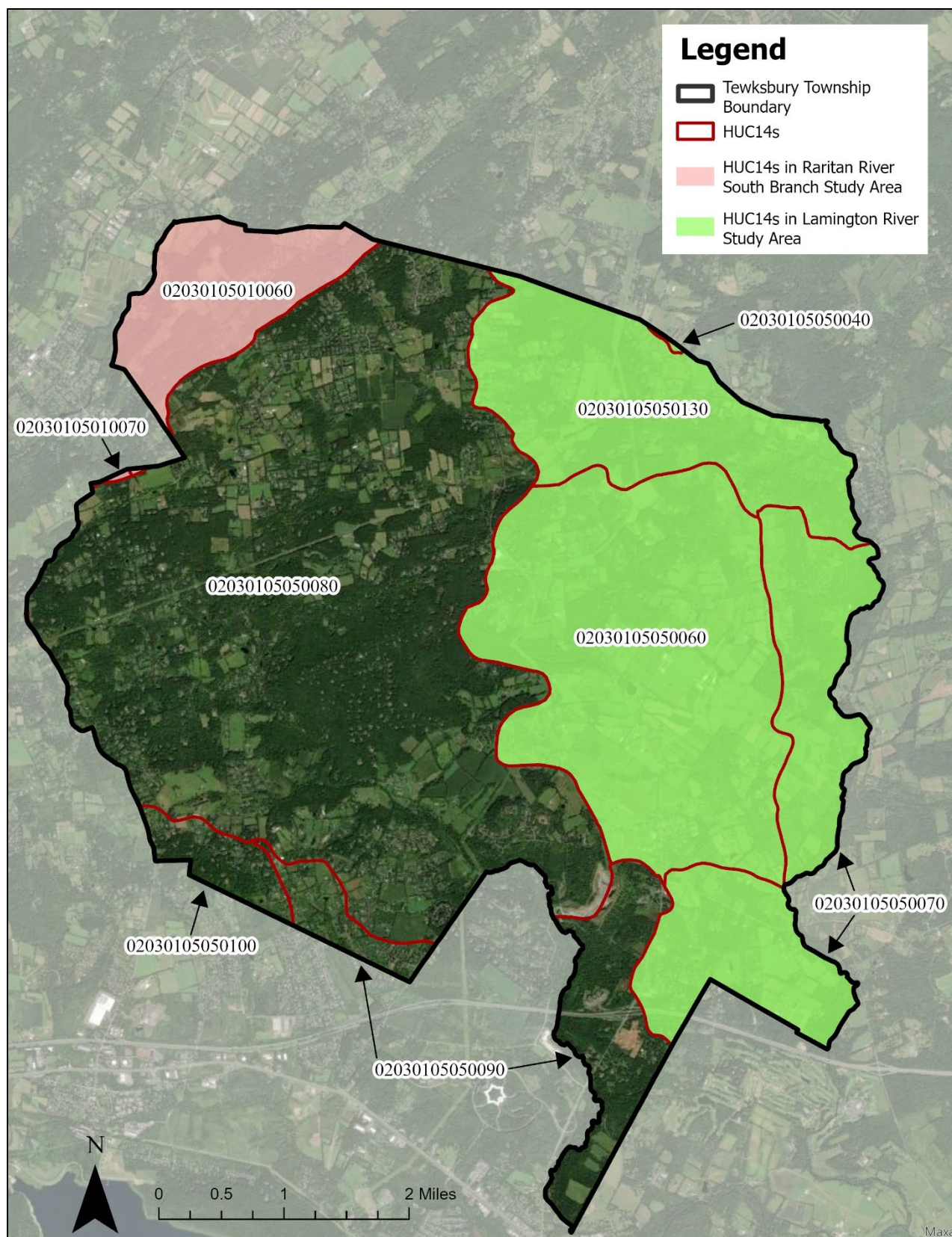


Figure 2: Portions of nine HUC14s are in Tewksbury Township

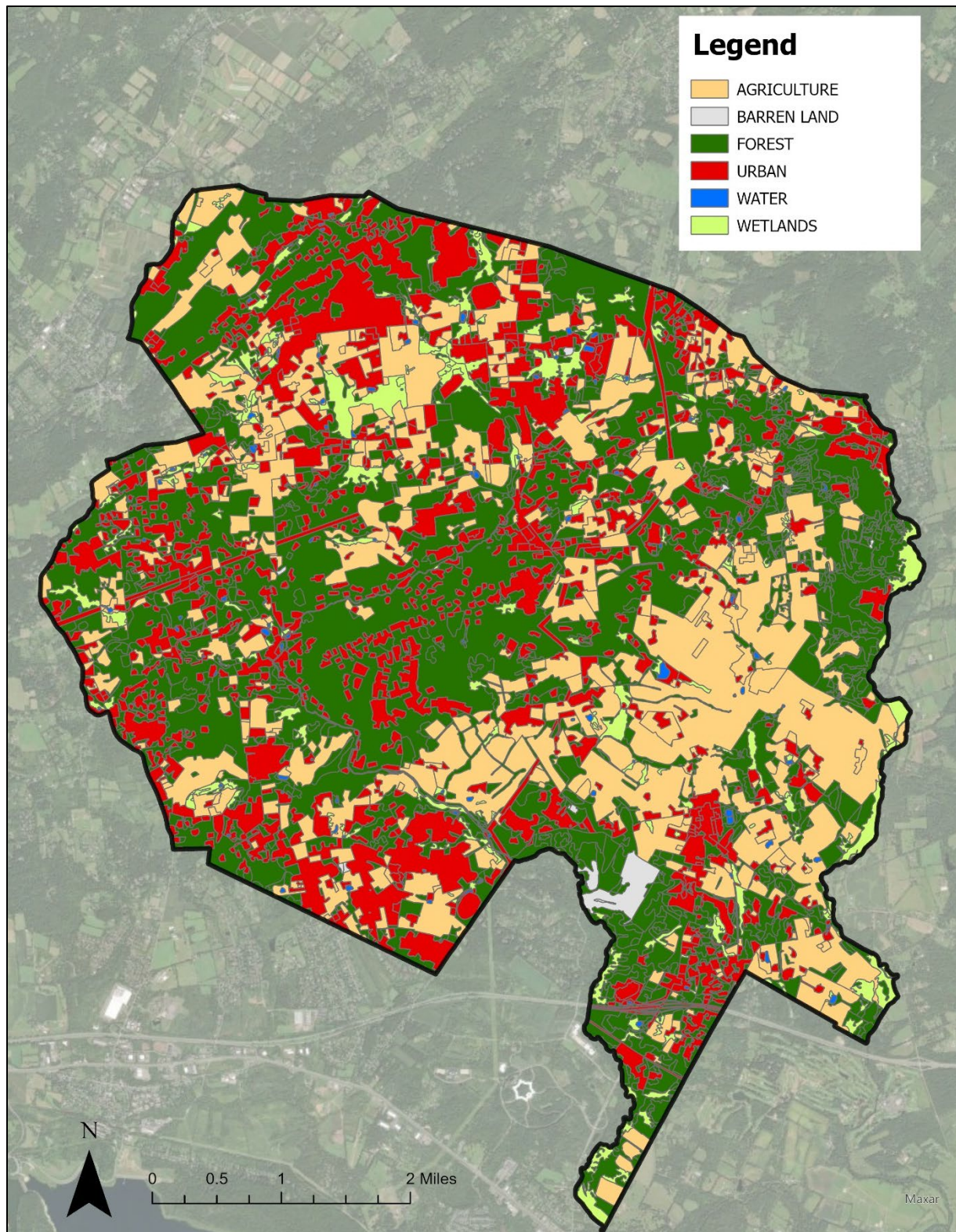


Figure 3: Land Use in Tewksbury Township

Table 2: Land Use Analysis and Nonpoint Source Loading Analysis by HUC14 for Tewksbury Township

Land Use Type	Area (acres)	TP Load (lbs/yr)	TN Load (lbs/yr)	TSS Load (lbs/yr)
02030105010060				
Agriculture	207.8	270.1	2,078.0	62,339.1
Barren Land	0.0	0.0	0.0	0.0
Forest	573.6	57.4	1,720.9	22,945.5
Urban	238.7	334.2	3,580.9	33,422.0
Water	7.4	0.7	22.2	295.5
Wetlands	29.9	3.0	89.6	1,195.2
TOTAL =	1,057.4	665.4	7,491.6	120,197.3
02030105010070				
Agriculture	0.0	0.0	0.0	0.0
Barren Land	0.0	0.0	0.0	0.0
Forest	7.4	0.7	22.1	294.7
Urban	1.3	1.8	18.8	175.6
Water	0.0	0.0	0.0	0.0
Wetlands	0.0	0.0	0.0	0.0
TOTAL =	8.6	2.5	40.9	470.4
02030105050040				
Agriculture	0.02	0.03	0.2	6.1
Barren Land	0.0	0.0	0.0	0.0
Forest	3.0	0.3	9.1	121.3
Urban	5.3	7.4	79.0	737.2
Water	0.0	0.0	0.0	0.0
Wetlands	0.0	0.0	0.0	0.0
TOTAL =	8.3	7.7	88.3	864.6
02030105050060				
Agriculture	1,910.8	2,484.0	19,108.0	573,239.7
Barren Land	1.7	0.9	8.6	103.2
Forest	1,294.1	129.4	3,882.2	51,762.3
Urban	655.9	918.3	9,838.7	91,827.6
Water	22.9	2.3	68.7	915.8
Wetlands	104.0	10.4	312.0	4,160.4
TOTAL =	3,989.4	3,545.3	33,218.1	722,009.0
02030105050070				
Agriculture	712.2	925.9	7,122.3	213,669.7
Barren Land	0.9	0.5	4.7	56.8
Forest	915.0	91.5	2,745.1	36,601.6
Urban	250.3	350.4	3,753.9	35,036.0
Water	31.4	3.1	94.3	1,257.6
Wetlands	172.7	17.3	518.1	6,907.7

TOTAL =	2,082.6	1,388.7	14,238.4	293,529.4
02030105050080				
Agriculture	2,211.2	2,874.5	22,111.5	663,345.5
Barren Land	68.5	34.2	342.4	4,109.4
Forest	4,273.3	427.3	12,819.9	170,931.8
Urban	2,614.7	3,660.5	39,220.0	366,053.6
Water	61.0	6.1	183.0	2,440.6
Wetlands	402.5	40.3	1,207.6	16,101.0
TOTAL =	9,631.1	7,043.0	75,884.5	1,222,981.8
02030105050090				
Agriculture	173.3	225.3	1,733.4	52,001.0
Barren Land	32.1	16.1	160.6	1,927.1
Forest	586.1	58.6	1,758.4	23,444.9
Urban	297.7	416.8	4,466.2	41,684.2
Water	12.8	1.3	38.3	510.8
Wetlands	86.1	8.6	258.2	3,443.0
TOTAL =	1,188.2	726.7	8,415.0	123,011.0
02030105050100				
Agriculture	27.2	35.4	272.0	8,161.4
Barren Land	0.0	0.0	0.0	0.0
Forest	161.3	16.1	483.9	6,451.4
Urban	118.3	165.6	1,774.7	16,563.6
Water	1.5	0.1	4.4	58.3
Wetlands	0.9	0.1	2.7	35.4
TOTAL =	309.1	217.4	2,537.6	31,270.2
02030105050130				
Agriculture	493.2	641.2	4,932.1	147,964.3
Barren Land	2.6	1.3	12.8	153.3
Forest	933.8	93.4	2,801.5	37,353.2
Urban	519.4	727.1	7,790.7	72,713.7
Water	14.6	1.5	43.8	583.4
Wetlands	94.5	9.5	283.5	3,780.3
TOTAL =	2,058.1	1,473.9	15,864.4	262,548.1
All HUCs				
Agriculture	5,735.8	7,456.5	57,357.6	1,720,726.7
Barren Land	105.8	52.9	529.1	6,349.7
Forest	8,747.7	874.8	26,243.0	349,906.6
Urban	4,701.5	6,582.1	70,522.9	658,213.5
Water	151.6	15.2	454.7	6,062.1
Wetlands	890.6	89.1	2,671.7	35,623.1
TOTAL =	20,332.9	15,070.5	157,779.0	2,776,881.7

Impervious Cover Analysis

NJDEP's Open Data impervious surface GIS data layer depicts surfaces throughout Tewksbury Township that have been covered with materials that are highly resistant to infiltration by water, rendering them impervious. These surfaces include rooftops, roadways, sidewalks, and other paved areas. These impervious cover values were used to estimate the impervious coverage for Tewksbury Township. Based upon the NJDEP impervious surface data, Tewksbury Township has impervious cover totaling 6.3%. Table 3 shows impervious cover for each HUC14. The extent of the impervious cover in Tewksbury Township is shown in Figure 4.

The literature suggests a link between impervious cover and stream ecosystem impairment (Schueler, 1994; Arnold and Gibbons, 1996; May et al., 1997). Impervious cover may be linked to the quality of lakes, reservoirs, estuaries, and aquifers (Caraco et al., 1998), and the amount of impervious cover in a watershed can be used to project the current and future quality of streams. Based on scientific literature, Caraco et al. (1998) classified urbanizing streams into the following three categories: sensitive streams, impacted streams, and non-supporting streams.

Schueler (1994, 2004) developed an impervious cover model that classified "sensitive streams" as typically having a watershed impervious surface cover from 0-10%. "Impacted streams" have a watershed impervious cover ranging from 11-25% and typically show clear signs of degradation from urbanization. "Non-supporting streams" have a watershed impervious cover of greater than 25%; at this high level of impervious cover, streams are simply conduits for stormwater flow and no longer support a diverse stream community.

Schueler et al. (2009) reformulated the impervious cover model based upon new research that had been conducted. This analysis determined that stream degradation was first detected at 2 to 15% impervious cover. The updated impervious cover model recognizes the wide variability of stream degradation at impervious cover below 10%. The updated model also moves away from having a fixed line between stream quality classifications. For example, 5 to 10% impervious cover is included for the transition from sensitive to impacted, 20 to 25% impervious cover for the transition between impacted and non-supporting, and 60 to 70% impervious cover for the transition from non-supporting to urban drainage.

Based upon this information, Tewksbury Township's impervious cover percentage would suggest that its waterways are primarily sensitive and most likely preventing degradation of the state's surface water quality standards.

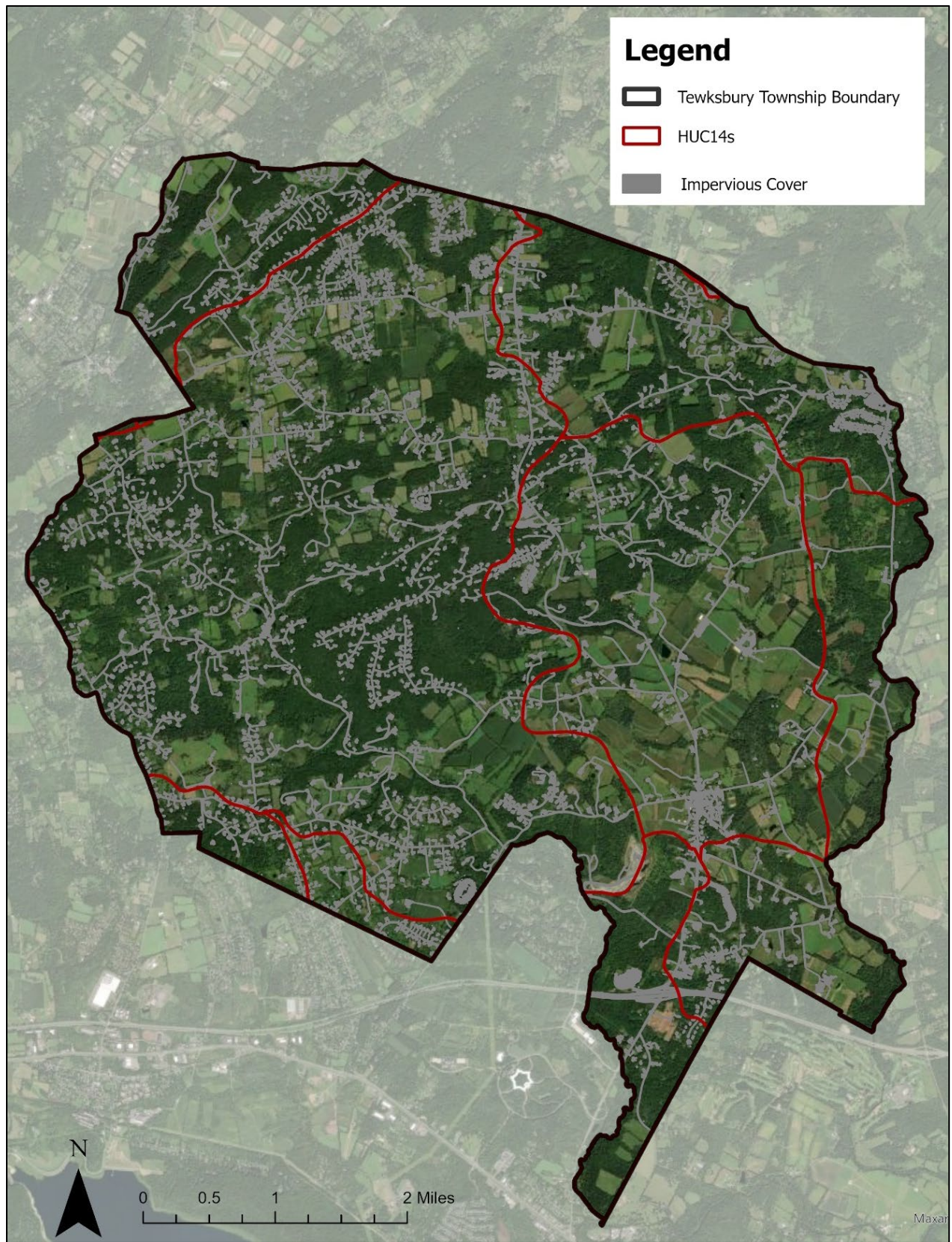


Figure 4: Impervious Cover in Tewksbury Township

Table 3: Impervious Cover Analysis by HUC14 for Tewksbury Township

Class	Area (acres)	HUC Impervious Cover (%)
02030105010060		
Building	10.73	
Other	30.45	
Road	30.22	
TOTAL =	71.4	6.8%
02030105010070		
Building	0.03	
Other	0.11	
Road	0.12	
TOTAL =	0.3	3.1%
02030105050040		
Building	0.25	
Other	0.42	
Road	0.29	
TOTAL =	1.0	11.6%
02030105050060		
Building	37.45	
Other	109.15	
Road	81.05	
TOTAL =	227.6	5.7%
02030105050070		
Building	15.01	
Other	41.89	
Road	36.70	
TOTAL =	93.6	4.5%
02030105050080		
Building	122.22	
Other	314.56	
Road	203.70	
TOTAL =	640.5	6.7%
02030105050090		
Building	11.94	
Other	31.68	
Road	36.13	
TOTAL =	79.7	6.7%
02030105050100		
Building	4.86	
Other	11.28	
Road	9.01	
TOTAL =	25.1	8.1%
02030105050130		
Building	24.11	
Other	71.05	
Road	52.05	
TOTAL =	147.2	7.2%

All HUCs		
Building	226.60	
Other	610.58	
Road	449.27	
TOTAL =	1,286.4	6.3%

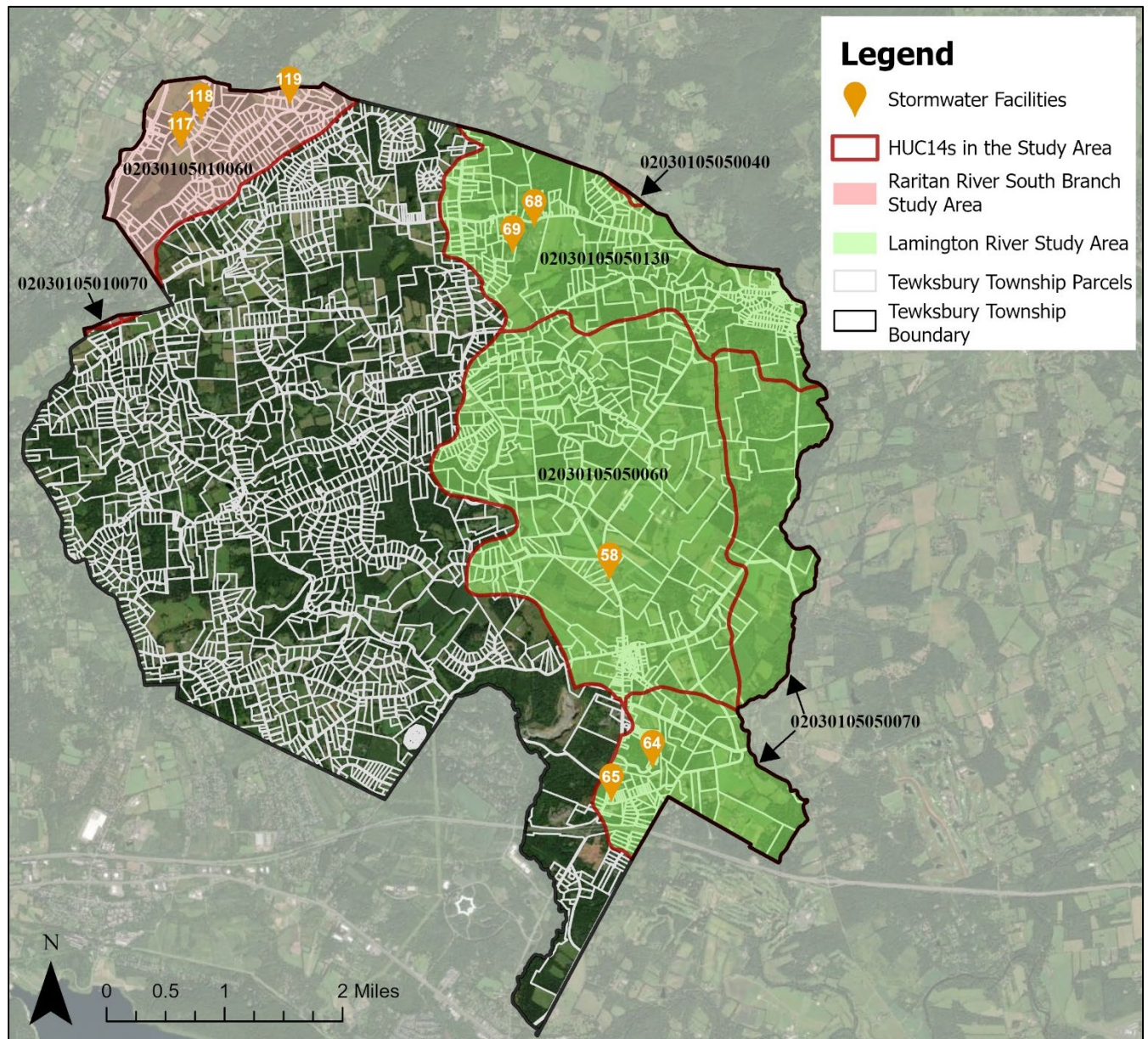


Figure 5: Stormwater Facilities in the Study Area of Tewksbury Township

Table 4: Location of Stormwater Facilities in the Study Area of Tewksbury Township

Lamington River Study Area		
<u>ID</u>	<u>Address</u>	<u>Type</u>
58	83 Old Turnpike Rd	N
64	1210 Farley Rd	D
65	130 Oldwick Rd	I
68	113 Fairmount Rd East	N
69	16 Apple Lane	D
Raritan River South Branch Study Area		
<u>ID</u>	<u>Address</u>	<u>Type</u>
117	Beavers Rd	N
118	Barclay Rd	I
119	3 Logan Dr	RB

“D” = Detention, “N” = Naturalized, “I” = Infiltration, “RB” = Retention with Buffer

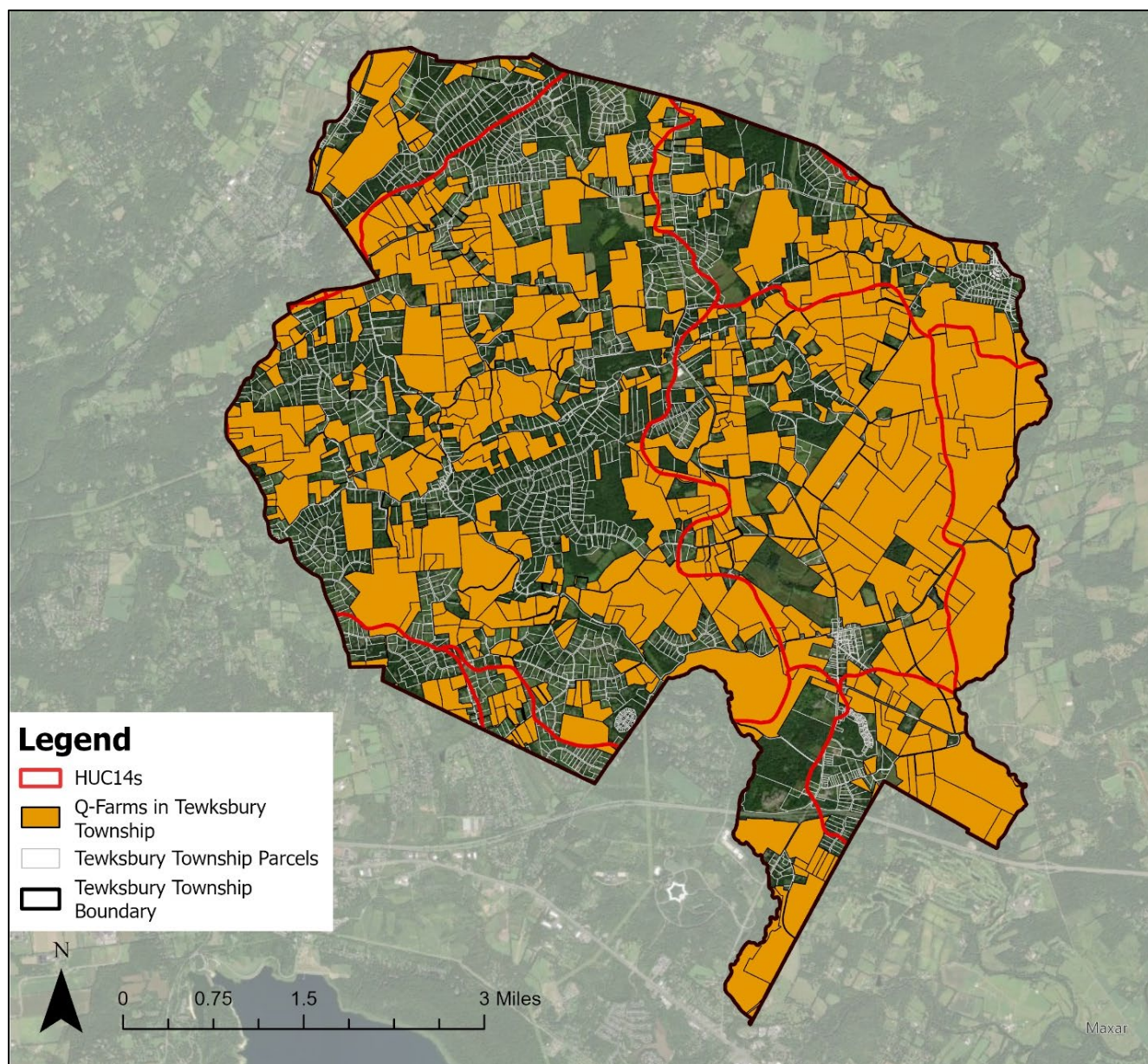


Figure 6: Q-Farm Parcels in Tewksbury Township

Table 5: Q-Farm Parcels in Tewksbury Township

Block	Lot	Q-Code	Prop Class	Location
3	4	Q0002	3B	45 Beavers Rd
3	4.01	Q0002	3B	30 Beavers Rd
3	1	Q0002	3B	65 Vernoy Rd
3	4.02	Q0002	3B	67 Beavers Rd
4	4.02	Q0002	3B	1 Barclay Rd
4	4.15	Q0002	3B	4 Barclay Rd
2	8	Q0003	3B	12 Vernoy Rd
3	33	Q0003	3B	9 Vernoy Rd
3	8	Q0003	3B	11 Vernoy Rd
4	4.01	Q0004	3B	36 Beavers Rd
4	10	Q0005	3B	2 Logan Drive
5	12.01	Q0006	3B	9 Fairmount Rd West
5	12.02	Q0006	3B	11 Fairmount Rd West
4	13	Q0007	3B	80 Frog Hollow Rd
4	10.05	Q0007	3B	10 Logan Dr
5	2	Q0008	3B	47A Fairmount Rd West
2	1	Q0009	3B	65 Vernoy Rd
5	10.02	Q0010	3B	25 Fairmount Rd West
5	10.04	Q0010		Fairmount Rd W
5	10.03	Q0010	3B	23 Fairmount Rd West
5	11	Q0010	3B	19 Fairmount Rd West
5	12	Q0011	3B	1 Fairmount Rd West
5	2.16	Q0012	3B	33A Fairmount Rd West
6.04	3.01	Q0013	3B	7 Beacon Light Rd
6.04	7.02	Q0014	3B	131 Fairmount Rd West
6.04	7.21	Q0015	3B	243 Old Turnpike Rd
6.04	7.04	Q0016		245 Old Turnpike Rd
6.04	7.20	Q0017		35 Salters Farm Rd
6.04	23.01	Q0018	3B	95 Fairmount Rd West
6.04	23.27	Q0018		12 Barlow Dr
6.04	24.01	Q0020	3B	14 Tamarack Farm Ln
7	1.01	Q0021	3B	260 Old Turnpike Rd
7	1.02	Q0021	3B	258 Old Turnpike Rd
7	1	Q0021	3B	262 Old Turnpike Rd
7	4.04	Q0023		289 County Road 517
7	4.05	Q0024		252 Old Turnpike Road
7	6	Q0025	3B	232 Fairmount Rd East
4	4.19	Q0026	3B	38 Frog Hollow Rd
4	4.18	Q0026	3B	40 Frog Hollow Rd
4	4.17	Q0026	3B	42 Frog Hollow Rd
3	4.03	Q0027	3B	1 Indian Ln

16	11	Q0028	3B	103 Fairmount East
7.01	1	Q0029	3B	2 Van Pelt Rd
7	8	Q0030	3B	136 Fairmount Rd East
7	17	Q0031	3B	108 Fairmount Rd East
5	2.09	Q0032	3B	49 Fairmount Rd West
7	8.01	Q0033	3B	134 Fairmount Road East
7	40	Q0034	3B	80 Fairmount Rd East
7	21.03	Q0034	3B	78 Fairmount Rd East
7	39	Q0035	3B	82 Fairmount Rd East
10	5.02	Q0036	3B	70 Sutton Rd
8	2	Q0037	3B	1222 Califon-Cokesbury Rd
8	2.01	Q0038	3B	1218 Califon-Cokesbury Rd
9	6	Q0039	3B	26 Sutton Rd
7	10	Q0040	3B	132 Fairmount Rd East
10	1.01	Q0041	3B	6 Fairmount Rd West
10	6.13	Q0042	3B	25 Farmersville Road
10	4.01	Q0043	3B	60 Sutton Rd
14	5.06	Q0044	3B	10 Farmersville Road
14	5.05	Q0044	3B	18 Farmersville Road
14	5	Q0044	3B	14 Farmersville Rd
6.04	37	Q0045	3B	89 Frog Hollow Rd
10	5.06	Q0046	3B	74 Sutton Rd
10	5.03	Q0047	3B	30 Fairmount Rd West
10	6	Q0048	3B	23 Farmersville Rd
10	6.12	Q0048	3B	27 Farmersville Rd
5	2.04	Q0049	3B	19 Beavers Rd
7	22	Q0050		7 Van Pelt Rd
11	5	Q0051	3B	1210 Califon-Cokesbury Rd
11	5.06	Q0051	3B	1208 Califon-Cokesbury Rd
11	21.01	Q0052		Water St
11	11	Q0053		30 Longview Rd
11	10	Q0053		Longview Rd
11	35	Q0054	3B	1116 Califon-Cokesbury Rd
11	12	Q0055	3B	22 Long View Rd
11	16.03	Q0055	3B	16 Long View Rd
11	38	Q0055	3B	554 Cokesbury Rd
11	1	Q0055	3B	1172 Califon-Cokesbury Rd
11	38.01	Q0055	3B	24 Long View Rd
11	7	Q0056		9 Sutton Rd
11	22.09	Q0057		1018 Califon Cokesbury Rd
11	22.04	Q0057		1016 Califon Cokesbury Rd
11	9.07	Q0058	3B	14 Glennon Farm Ln
11	22	Q0059		11 Water St
11	32.02	Q0060	3B	1028 Califon-Cokesbury Rd

11	33	Q0062	3B	1108 Califon-Cokesbury Rd
11	33.01	Q0062	3B	1102 Califon-Cokesbury Rd
12	1	Q0064	3B	35 Sutton Rd
12	12.01	Q0065	3B	30 Guinea Hollow Rd
12	26.01	Q0066	3B	65 Philhower Rd
12	26	Q0066	3B	69 Philhower Rd
12	27.01	Q0068	3B	61 Philhower Rd
12	32	Q0069	3B	43 Philhower Rd
12	48	Q0071	3B	19 Philhower Rd
12	47	Q0071	3B	23 Philhower Rd
13	1	Q0072	3B	7 Guinea Hollow Rd
13	1.01	Q0072	3B	43 Sutton Rd
13	10	Q0074	3B	41 Guinea Hollow Rd
13	8	Q0074	3B	31 Guinea Hollow Rd
13	14	Q0075	3B	1 Boulder Hill Rd
13	17	Q0076	3B	15 Boulder Hill Rd
13	16	Q0076	3B	9 Boulder Hill Rd
13	20.02	Q0077	3B	65 Sutton Rd
13	20	Q0077	3B	39 Boulder Hill Rd
13	21	Q0079	3B	59 Sutton Rd
13	22	Q0080	3B	47 Sutton Rd
14	1	Q0081	3B	50 Fairmount Rd West
14	5.01	Q0082		Farmersville Rd
14	9.01	Q0083		66 Farmersville Rd
14	9.02	Q0084	3B	50 Farmersville Rd
14	5.04	Q0085	3B	30 Farmersville Rd
14	5.07	Q0085	3B	24 Farmersville Rd
14	23.02	Q0086	3B	90 Fairmount West
14	12	Q0087	3B	70 Farmersville Rd
13	19	Q0088	3B	25 Boulder Hill Rd
13	20.01	Q0088	3B	29 Boulder Hill Rd
14	10.02	Q0089	3B	58 Farmersville Rd
14	16	Q0090		1 Whitenack Rd
15	19	Q0090		103 Farmersville Rd
14	17	Q0091	3B	110 Farmersville Rd
15	18	Q0092	3B	111 Farmersville Rd
14	1.05	Q0093	3B	44 Fairmount Rd West
14	20.05	Q0094	3B	112 Fairmount Rd West
14	20.07	Q0096	3B	114 Fairmount Rd West
14	1.04	Q0097	3B	48 Fairmount Rd West
14	23.01	Q0098		98 Fairmount Rd W
18	6	Q0099	3B	9 Wildwood Rd
14	25	Q0100	3B	62 Fairmount Rd West
14	25.01	Q0101	3B	72 Fairmount Rd West

14	29	Q0102	3B	213 Old Turnpike Rd
15	3	Q0103	3B	24 Boulder Hill Rd
15	4.03	Q0104	3B	5 Burrell Rd
15	4.04	Q0105	3B	9 Burrell Rd
15	1	Q0106	3B	30 Boulder Hill Rd
15	8	Q0107		Burrell Rd
15	8.02	Q0107		27 Burrell Rd
15	7	Q0108	3B	23 Burrell Rd
26	10	Q0108	3B	20 Burrell Rd
15	8.01	Q0109	3B	37 Burrell Rd
15	8.03	Q0109	3B	33 Burrell Rd
14	9.03	Q0110	3B	38 Farmersville Rd
15	14.02	Q0112	3B	58 Sawmill Rd
15	17	Q0112	3B	181 Old Turnpike Rd
14	25.03	Q0113	3B	68 Fairmount Rd West
14	15	Q0114	3B	100 Farmersville Rd
14	22	Q0114	3B	84 Farmersville Rd
15	20	Q0114	3B	101 Farmersville Rd
15	21	Q0115	3B	75 Farmersville Rd
15	24.01	Q0117	3B	45 Farmersville Rd
15	25	Q0118	3B	37 Farmersville Rd
15	26	Q0118	3B	39 Farmersville Rd
16	20	Q0119	3B	71 Hollow Brook Rd
19	13.01	Q0120	3B	32 Homestead Rd
16	17	Q0121	3B	59 Hollow Brook Rd
19	13.10	Q0122	3B	34 Homestead Rd
16	7	Q0123	3B	17 Hollow Brook Rd
23	4.02	Q0124	3B	25 Homestead Rd
23	4	Q0124	3B	25 Homestead Rd
16	12.03	Q0125	3B	39 Hollow Brook Rd
16	13	Q0126	3B	43 Hollow Brook Rd
19	12	Q0126	3B	38 Hollow Brook Rd
19	13.07	Q0126	3B	32 Hollow Brook Rd
16	15	Q0127	3B	53 Hollow Brook Rd
16	25	Q0127	3B	81 Fairmount Rd East
16	15.01	Q0128	3B	49 Hollow Brook Rd
16	23	Q0130	3B	63 Fairmount Rd East
16	24	Q0131	3B	71 Fairmount Rd East
*20	2	Q0132	3B	46 Fairmount Rd East
23	30	Q0133	3B	87 Homestead Rd
7.01	2	Q0134	3B	74 Fairmount Rd East
16	34	Q0134	3B	75 Fairmount Rd East
16	35	Q0135	3B	79 Fairmount Rd East
26	21	Q0137	3B	2 Boulder Hill Rd

19	28	Q0138	3B	4 Cold Spring Rd
19	27	Q0138	3B	8 Cold Spring Rd
29	20	Q0138	3B	5 Cold Spring Rd
18	11.04	Q0139	3B	14 Fox Hill Rd
18	11	Q0139	3B	8 Hollow Brook Rd
19	4	Q0140	3B	12 Hollow Brook Rd
19	11.01	Q0142		Cold Springs Rd
19	11.03	Q0142	3B	18 Cold Spring Rd
19	16	Q0143	3B	36 Homestead Rd
23	36	Q0144	3B	77 McCann Mill Rd
23	22	Q0144	3B	74 Vlietown Rd
24	20	Q0144	3B	76 McCann Mill Rd
19	13.06	Q0145	3B	16 Homestead Rd
19	13.03	Q0146	3B	24 Homestead Rd
43	2	Q0147	3B	41 Vlietown Rd
19	13.08	Q0148	3B	14 Homestead Rd
19	17	Q0149	3B	50 Homestead Rd
19	15	Q0150	3B	28 Homestead Rd
19	17.05	Q0151	3B	42 Homestead Rd
23	34	Q0153	3B	4 Flint Hill Rd
23	2.01	Q0153	3B	9 Flint Hill Rd
23	32.01	Q0153	3B	10 Flint Hill Rd
20	12	Q0154		28 Fairmount Rd E
*20	7	Q0154	3B	34 Fairmount Rd East
23	35	Q0157	3B	67 Mccann Mill Rd
24	19	Q0157	3B	68 Mccann Mill Rd
19	17.03	Q0158	3B	40 Cold Spring Rd
26	18.02	Q0159	3B	4 Burrell Rd
26	17	Q0159	3B	16 Boulder Hill Rd
26	17.01	Q0159	3B	12 Boulder Hill Rd
26	2.06	Q0160	3B	69 Guinea Hollow Rd
23	25.01	Q0161	3B	38 Vlietown Rd
23	28.01	Q0162	3B	107 Homestead Rd
23	26	Q0163	3B	68 Old Turnpike Rd
23	28	Q0164	3B	80 Old Turnpike Rd
23	21	Q0166	3B	78 Vlietown Rd
26	6	Q0167	3B	6 Sawmill Rd
51	2	Q0167	3B	7 Sawmill Rd
23	23	Q0168	3B	81 Homestead Rd
23	28.03	Q0168	3B	86 Old Turnpike Rd
23	3	Q0168	3B	29 Mccann Mill Rd
23	29	Q0168	3B	103 Homestead Rd
23	20	Q0168	3B	55 Mccann Mill Rd
23	2	Q0168	3B	39 Homestead Rd

23	1	Q0168	3B	21 Flint Hill Rd
23	32.02	Q0168	3B	16 Flint Hill Rd
24	18	Q0168	3B	44 Mccann Mill Rd
28	17	Q0168	3B	100 Old Turnpike Rd
26	11.04	Q0169	3B	24 Burrell Rd
26	15	Q0170	3B	12 Burrell Rd
26	15.02	Q0171	3B	8 Burrell Rd
26	16	Q0171	3B	2 Burrell Rd
26	15.01	Q0171	3B	6 Burrell Rd
27	87	Q0172	3B	103 Old Driftway Ln
28	9.06	Q0173	3B	150 Old Turnpike Rd
27	66	Q0174	3B	53 Sawmill Rd
23	28.02	Q0176	3B	109 Homestead Rd
27	103	Q0178	3B	44 Hill & Dale Rd
27	103.01	Q0179	3B	42 Hill & Dale Rd
27	103.06	Q0180	3B	3 Fieldview Ln
38	1.01	Q0181		74 Rockaway Rd
38	1	Q0181		Rockaway Rd
38	1.04	Q0181		86 Rockaway Rd
38	1.02	Q0181		17 Rockaway Rd
51	80.04	Q0181		Pruner Farm Rd
51	82	Q0181		102 Rockaway Rd
27	145.01	Q0182	3B	34 Hill & Dale Rd
27	145.06	Q0183	3B	26 Hill & Dale Rd
38	3.05	Q0183	3B	23 Hill & Dale Rd
27	145.07	Q0184	3B	32 Hill & Dale Rd
27	145.08	Q0184	3B	30 Hill & Dale Rd
27	147.01	Q0185	3B	24 Hill & Dale Rd
26	11.01	Q0187	3B	32 Burrell Rd
28	21	Q0188		56 Fox Hill Rd
27	148	Q0189	3B	109 Old Turnpike Rd
27	149	Q0191		Hill And Dale Rd
27	151	Q0192	3B	8 Hill & Dale Rd
27	155	Q0193	3B	56 Hill & Dale Rd
28	33	Q0194	3B	8 Wildwood Rd
28	4	Q0194	3B	18 Wildwood Rd
28	3	Q0194	3B	14 Wildwood Rd
28	34	Q0194	3B	10A Wildwood Rd
28	10	Q0195	3B	136 Old Turnpike Rd
28	14	Q0196	3B	58 Fox Hill Rd
28	20	Q0196	3B	60 Fox Hill Rd
29	9	Q0197	3B	3 Palatine Rd
28	28	Q0198		28 Fox Hill Rd
28	29	Q0199	3B	30 Fox Hill Rd

29	21	Q0199	3B	21 Fox Hill Rd
28	30.08	Q0200	3B	160 Old Turnpike Rd
28	30.02	Q0201	3B	24 Fox Hill Rd
28	30.04	Q0201	3B	164 Old Turnpike Rd
28	30.06	Q0201	3B	22 Fox Hill Rd
29	8.02	Q0202	3B	27 Fox Hill Rd
29	10.02	Q0203	3B	13 Palatine Rd
29	10	Q0204	3B	21 Palatine Rd
27	103.03	Q0205	3B	10 Fieldview Ln
27	148.01	Q0206	3B	125 Old Turnpike Rd
28	18	Q0207		74 Fox Hill Rd
30	6	Q0207		Homestead Rd
30	6.01	Q0208	3B	60 Homestead Rd
31	7.01	Q0210	3B	50 Philhower Rd
31	24.04	Q0211		2 Potter Ln
31	24	Q0211	3B	4 Potter Ln
28	9.01	Q0212	3B	156 Old Turnpike Rd
28	9.07	Q0212		154 County Road 517
31	30	Q0213		Longview Rd
32	36	Q0214	3B	92 Bissell Rd
32	5	Q0214	3B	90 Bissell Rd
32	6	Q0215	3B	84 Bissell Rd
33	7.13	Q0217	3B	87 Bissell Rd
23	32	Q0218	3B	77 Homestead Rd
23	32.03	Q0218	3B	79 Homestead Rd
32	9	Q0219	3B	18 Still Hollow Rd
34	3	Q0219	3B	13 Still Hollow Rd
32	11	Q0220	3B	139 Rockaway Rd
32	21.05	Q0221	3B	54 Water St
32	24	Q0222		Water St
32	22.01	Q0223	3B	9 Schoolhouse Ln
28	30.01	Q0224	3B	158 Old Turnpike Rd
32	25	Q0225	3B	48-A Water St
32	25.01	Q0225	3B	48 Water St
34	12	Q0226	3B	4 Meadow Ln
36	8	Q0226		13 Meadow Ln
32	32.02	Q0227		28 Water St
34	19.10	Q0228	3B	5 Hedge Row Crossing
34	19.06	Q0228	3B	6 Alpaugh Farm Rd
34	12.03	Q0228	3B	14 Meadow Ln
34	12.02	Q0228	3B	8 Meadow Ln
34	19.04	Q0229	3B	5 Alpaugh Farm Rd
33	10	Q0230	3B	105 Deer Hill Rd
32	22.04	Q0231	3B	11 Halsey Farm Rd

*33	12	Q0232	3B	97 Deer Hill Rd
36	5	Q0233	3B	15 Meadow Ln
33	23	Q0234		184 Cokesbury Rd
34	12.01	Q0236	3B	6 Meadow Ln
31	12	Q0238	3B	47 Water St
31	12.01	Q0239	3B	62 Philhower Rd
33	19	Q0240	3B	89 Deer Hill Rd
33	20	Q0240	3B	103 Deer Hill Rd
34	25	Q0242	3B	39 Still Hollow Rd
34	24	Q0242	3B	41 Still Hollow Rd
27	92	Q0243	3B	11 Dinner Pot Rd
35	6	Q0244	3B	49 Bissell Rd
35	10.15	Q0245	3B	31 Welsh Rd
35	10.17	Q0245	3B	33 Welsh Rd
35	10.13	Q0245	3B	29 Welsh Rd
35	10	Q0246	3B	37 Welsh Rd
35	10.16	Q0247	3B	84 Deer Hill Rd
29	8.06	Q0248		27A Fox Hill Rd
35	10.14	Q0249	3B	45 Bissell Rd
27	147.02	Q0250	3B	22 Hill & Dale Rd
35	8.06	Q0251		Welsh Rd
35	8.07	Q0251		Welsh Rd
35	10.20	Q0252		Welsh Rd
38	4.02	Q0253	3B	7 Wintermute Ln
37	3	Q0254	3B	80 Potterstown Rd
37	3.01	Q0255	3B	21 Bissell Rd
43	2.02	Q0256	3B	45 Vlietown Rd
37	3.59	Q0257	3B	3 Bissell Rd
37	3.08	Q0258	3B	19 Bissell Rd
37	3.10	Q0259	3B	70 Welsh Rd
37	3.09	Q0260	3B	23 Bissell Rd
37	6.05	Q0263	3B	36 Welsh Rd
37	6.02	Q0264	3B	24 Welsh Rd
37	6.03	Q0264	3B	24 Welsh Rd
32	22.05	Q0265	3B	12 Halsey Farm Rd
38	4.01	Q0266	3B	15 Hill & Dale Rd
14	25.02	Q0267	3B	70 Fairmount Rd West
38	2	Q0269	3B	41 Hill & Dale Rd
38	3.07	Q0270		Hill And Dale Rd
38	3	Q0270		Hill And Dale Rd
38	3.06	Q0270		Hill And Dale Rd
38	6	Q0271		27 Homestead Rd
38	5.02	Q0271		Hill And Dale Rd
38	5.01	Q0271		7 Hill And Dale Rd

38	5	Q0272	3B	7 Hill & Dale Rd
38	8.03	Q0273	3B	73 Old Turnpike Rd
38	11	Q0274	3B	18 King St
38	16.14	Q0275	3B	6 Old Farm Ln
38	14.01	Q0276	3B	22 King St
38	16.01	Q0277		Potterstown Rd
45	5	Q0278	3B	50 Felmley Rd
43	3.03	Q0279	3B	53 Vliettown Rd
42	4	Q0280		Cold Brook Rd
43	4	Q0280	3B	36 Cold Brook Rd
42	3	Q0281	3B	35 Vliettown Rd
44	24	Q0282		163 Oldwick Rd
46	18	Q0282	3B	23 Rockaway Rd
42	6	Q0283	3B	15 Cold Brook Rd
42	27	Q0284	3B	183 Lamington Rd
42	9	Q0284		183 Lamington Rd
43	3.02	Q0286	3B	16 Cold Brook Rd
44	21	Q0287	3B	167 Oldwick Rd
47	26	Q0288		Matheson Rd
44	26	Q0289	3B	19 King St
51	85.02	Q0290	3B	108 Rockaway Rd
5	2.01	Q0291	3B	31 Fairmount Rd West
48	4	Q0292	3B	55 Felmley Rd
48	4.01	Q0292	3B	57 Felmley Rd
45	2	Q0293	3B	182 Lamington Rd
48	5	Q0294	3B	39 Felmley Rd
23	23.02	Q0296		Vliettown Rd
23	24.03	Q0296		Vliettown Rd
23	23.01	Q0296		Vliettown Rd
43	3	Q0296	3B	77 Vliettown Rd
45	44	Q0297		170 Oldwick Rd
45	3.01	Q0298	3B	184 Lamington Rd
51	7	Q0300	3B	17 Sawmill Rd
51	6	Q0300	3B	15 Sawmill Rd
19	11.07	Q0301	3B	10 Alder Creek Drive
19	11.06	Q0301		Alder Creek Dr
47	58	Q0302	3B	30 New Bromley Rd
48	3	Q0303	3B	27 Felmley Rd
48	3.01	Q0304		Felmley Road
48	3.03	Q0305		31 Felmley Rd
47.02	6	Q0306	3B	15 Felmley Rd
49	14	Q0308	3B	31 New Bromley Rd
49	10	Q0308	3B	17 New Bromley Rd
49	8	Q0308	3B	19 New Bromley Rd

34	19.01	Q0309	3B	52 Bissell Rd
34	19.17	Q0309	3B	54 Bissell Rd
49	9	Q0310	3B	25 New Bromley Rd
49	11	Q0310	3B	37 New Bromley Rd
47	24	Q0311		34 Matheson Rd
47	62	Q0311		Matheson Rd
19	11.05	Q0312		15 Alder Creek Dr
43	2.01	Q0313	3B	49 Vliettown Rd
47	27	Q0314		Matheson Rd
10	6.07	Q0315	3B	17 Farmersville Rd
51	95.01	Q0316	3B	134 Rockaway Rd
51	85.03	Q0317	3B	110 Rockaway Rd
42	9.03	Q0318		Lamington Rd
42	9.02	Q0318		173 Lamington Road
47	48.01	Q0319	3B	8 New Bromley Rd
47	53	Q0319	3B	12 New Bromley Rd
28	9	Q0320	3B	146 Old Turnpike Rd
28	9.04	Q0320	3B	148 Old Turnpike Rd
28	9.02	Q0320	3B	140 Old Turnpike Rd
28	9.05	Q0321	3B	152 Old Turnpike Rd
19	13.09	Q0322		10 Homestead Rd
36	5.01	Q0323	3B	19 Meadow Ln
19	13.04	Q0324	3B	12 Homestead Rd
37	3.07	Q0325	3B	62 Potterstown Rd
37	3.05	Q0325	3B	15 Rockaway Rd
47	25	Q0326		Matheson Rd
19	11.04	Q0327	3B	13 Alder Creek Drive
19	11.08	Q0328		Alder Creek Dr
50	1	Q0329	3B	8 Black River Rd
19	12.01	Q0330	3B	44 Hollow Brook Rd
19	12.02	Q0331	3B	46 Hollow Brook Rd
50	1.01	Q0332	3B	2 Black River Rd
6.04	12	Q0333	3B	141 Fairmount Rd West
26	10.01	Q0334		28 Sawmill Rd
48	3.04	Q0336	3B	33 Felmley Road
31	23	Q0337	3B	37 Water St
11	16.07	Q0338		Water St
2	9	Q0339	3B	6 Vernoy Rd
10	6.08	Q0340	3B	13 Farmersville Rd
36	3.04	Q0341	3B	6 Bissell Rd
38	11.01	Q0342	3B	12 King St
34	19.16	Q0347	3B	2 Alpaugh Farm Rd
45	5.01	Q0350	3B	196 Lamington Rd
46.01	7	Q0372		121 Oldwick Rd

47	48	Q0372	3B	118 Oldwick Rd
12	15	Q0373		38 Guinea Hollow Rd
26	1	Q0373		63 Guinea Hollow Rd
38	7.03	Q0390	3B	77 Old Turnpike Rd
12	17	Q0391	3B	44 Guinea Hollow Rd
26	2.04	Q0391	3B	73 Guinea Hollow Rd
38	7	Q0392	3B	87 Old Turnpike Rd
27	154	Q0393		Fieldview Ln
27	96	Q0393		Dinner Pot Rd
51	108	Q0394	3B	310 Main St-Mountainville
51	113	Q0394		13 Sawmill Rd
27	81	Q0401	3B	110 Old Driftway Ln
27	64	Q0401	3B	49 Sawmill Rd
23	24	Q0402	3B	52 Vlietown Rd
23	24.01	Q0402	3B	56 Vlietown Rd
19	23	Q0403	3B	28 Cold Spring Rd
19	22	Q0404	3B	24 Cold Spring Rd
16	32	Q0405	3B	125 Fairmount Rd East
19	11.09	Q0411	3B	7 Alder Creek Drive
26	8.01	Q0414	3B	3 Stoney Ridge Ln
45	10	Q0415	3B	38 Felmley Rd
45	9	Q0415	3B	38 Felmley Rd
28	31	Q0416		4 Wildwood Rd
15	21.01	Q0444	3B	79 Farmersville Rd
6.04	37.04	Q0445	3B	93 Frog Hollow Rd
9	6.01	Q0452	3B	34 Sutton Rd
9	6.02	Q0453	3B	2 Guinea Hollow Rd
9	6.03	Q0454	3B	20 Sutton Rd
15	3.04	Q1534		4 Covered Bridge Ln
28	13	Q2813	3B	124 Old Turnpike Rd
34	19.15	Q3419	3B	6 Hedge Row Crossing
51	47	Q5147	3B	36 Ridge Rd
33	22	Q6100		Stillery Rd
18	11.01	Q6101	3B	6 Hollow Brook Rd
11	22.07	Q6102	3B	Desantis On-Cokesbury Rd
12	6.01	Q6103	3B	4 Winterwood Rd
11	35.01	Q6105		1120 Califon Cokesbury Rd
32	23	Q6106	3B	11 Schoolhouse Ln
5	2.02	Q6107	3B	33 Fairmount Rd West
38	14.02	Q6109	3B	28 King St
38	14.03	Q6109	3B	40 King St
38	14	Q6109	3B	40 Potterstown Rd
16	14	Q6110	3B	47 Hollow Brook Rd
27	95	Q6111	3B	14 Dinner Pot Rd

45	3	Q6112	3B	186 Lamington Rd
9	2	Q6114	3B	1240 Califon-Cokesbury Rd
45	46	Q6116	3B	178 Lamington Rd
45	6.02	Q6117	3B	58 Felmley Rd
42	6.01	Q6118		1 Cold Brook Rd
43	3.01	Q6118		8 Cold Brook Rd
27	100	Q6120	3B	1 Dinner Pot Rd
32	10	Q6121		127 Rockaway Rd
51	95	Q6121		Rockaway Rd
16	30	Q6122	3B	123 Fairmount Rd East
27	103.05	Q6123	3B	4 Fieldview Ln
19	13.05	Q6124		20 Homestead Rd
19	14.04	Q6125	3B	6 Homestead Rd
19	14.05	Q6125	3B	6B Homestead Rd
38	4.07	Q6126	3B	6 Wintermute Ln
27	71	Q6127	3B	151 Old Turnpike Rd
51	98	Q6128	3B	142 Rockaway Rd
37	7.02	Q6129	3B	32 Welsh Rd
27	147.03	Q6130		Hill And Dale Rd
6.04	23.04	Q6131	3B	89 Fairmount Rd West
42	8	Q6132		Lamington Rd
51	80.07	Q6133	3B	66-68 Hill & Dale
27	77	Q6134	3B	57 Sawmill Rd
34	19.05	Q6135		7 Alpaugh Farm Rd
34	12.04	Q6135	3B	10 Meadow Ln
28	30.05	Q6136		Fox Hill Rd
16	22	Q6140	3B	77 Hollow Brook Rd
23	9	Q6140	3B	70 Hollow Brook Rd
8	2.02	Q6141	3B	10 Sutton Rd
12	10	Q6142	3B	53 Philhower Rd
51	111	Q6143	3B	30 Mountain Rd
19	17.04	Q6144	3B	46 Homestead Rd
13	20.03	Q6145	3B	31 Boulder Hill Rd
27	72.01	Q6146	3B	5 Laurel Mountain Way
34	1	Q6147	3B	33 Still Hollow Rd
48	5.01	Q6148		41 Felmley Rd
12	36	Q6149	3B	37 Philhower Rd
12	1.01	Q6150		Sutton Rd
28	19	Q6151	3B	68 Fox Hill
15	10	Q6152	3B	53 Burrell Rd
26	13	Q6152	3B	34 Burrell
32	21.03	Q6153	3B	12 Schoolhouse Ln
51	80.08	Q6154	3B	78 Hill & Dale Rd
31	24.01	Q6155		1 Potter Ln

36	1.01	Q6156		9 Meadow Ln
34	28	Q6157	3B	29 Still Hollow Rd
47.02	1	Q6158		Gulick Rd
26	19	Q6159	3B	8 Boulder Hill Rd
15	23	Q6160	3B	61 Farmersville Rd
38	1.05	Q6161		Hill And Dale Rd
38	1.03	Q8300		Rockaway Rd
*63	18	QFARM	3B	Black River Rd

*Only a portion of the Q-Farm is within the Tewksbury Township boundary

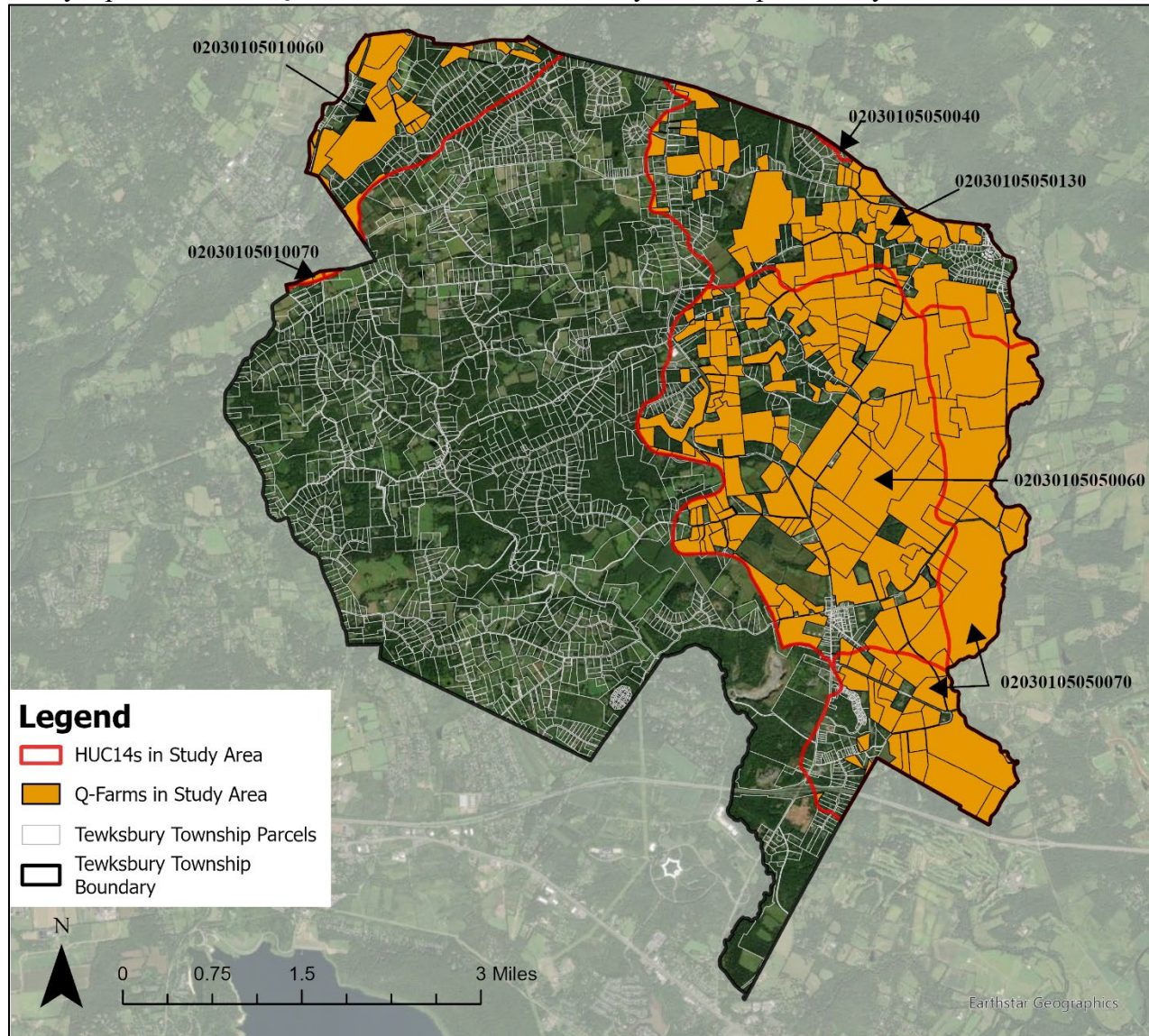


Figure 7: Q-Farm Parcels in the Study Area of Tewksbury Township

Table 6: Q-Farm Parcels in the Study Area of Tewksbury Township

Block	Lot	Q-Code	Prop Class	Location
3	4	Q0002	3B	45 Beavers Rd
3	4.01	Q0002	3B	30 Beavers Rd
3	1	Q0002	3B	65 Vernoy Rd
3	4.02	Q0002	3B	67 Beavers Rd
4	4.02	Q0002	3B	1 Barclay Rd
4	4.15	Q0002	3B	4 Barclay Rd
2	8	Q0003	3B	12 Vernoy Rd
3	33	Q0003	3B	9 Vernoy Rd
3	8	Q0003	3B	11 Vernoy Rd
4	4.01	Q0004	3B	36 Beavers Rd
4	10	Q0005	3B	2 Logan Drive
4	13	Q0007	3B	80 Frog Hollow Rd
4	10.05	Q0007	3B	10 Logan Dr
2	1	Q0009	3B	65 Vernoy Rd
5	10.04	Q0010		Fairmount Rd W
*5	12	Q0011	3B	1 Fairmount Rd West
*6.04	3.01	Q0013	3B	7 Beacon Light Rd
*6.04	7.21	Q0015	3B	243 Old Turnpike Rd
*6.04	7.04	Q0016		245 Old Turnpike Rd
*6.04	7.20	Q0017		35 Salters Farm Rd
*7	1.02	Q0021	3B	258 Old Turnpike Rd
*7	1	Q0021	3B	262 Old Turnpike Rd
7	4.04	Q0023		289 County Road 517
7	4.05	Q0024		252 Old Turnpike Road
7	6	Q0025	3B	232 Fairmount Rd East
4	4.19	Q0026	3B	38 Frog Hollow Rd
4	4.18	Q0026	3B	40 Frog Hollow Rd
4	4.17	Q0026	3B	42 Frog Hollow Rd
3	4.03	Q0027	3B	1 Indian Ln
16	11	Q0028	3B	103 Fairmount East
7.01	1	Q0029	3B	2 Van Pelt Rd
7	8	Q0030	3B	136 Fairmount Rd East
7	17	Q0031	3B	108 Fairmount Rd East
7	8.01	Q0033	3B	134 Fairmount Road East
7	40	Q0034	3B	80 Fairmount Rd East
7	21.03	Q0034	3B	78 Fairmount Rd East
7	39	Q0035	3B	82 Fairmount Rd East
7	10	Q0040	3B	132 Fairmount Rd East
6.04	37	Q0045	3B	89 Frog Hollow Rd
*5	2.04	Q0049	3B	19 Beavers Rd
7	22	Q0050		7 Van Pelt Rd

*14	20.05	Q0094	3B	112 Fairmount Rd West
*14	20.07	Q0096	3B	114 Fairmount Rd West
18	6	Q0099	3B	9 Wildwood Rd
*14	29	Q0102	3B	213 Old Turnpike Rd
16	20	Q0119	3B	71 Hollow Brook Rd
19	13.01	Q0120	3B	32 Homestead Rd
16	17	Q0121	3B	59 Hollow Brook Rd
19	13.10	Q0122	3B	34 Homestead Rd
16	7	Q0123	3B	17 Hollow Brook Rd
23	4.02	Q0124	3B	25 Homestead Rd
23	4	Q0124	3B	25 Homestead Rd
16	12.03	Q0125	3B	39 Hollow Brook Rd
16	13	Q0126	3B	43 Hollow Brook Rd
19	12	Q0126	3B	38 Hollow Brook Rd
19	13.07	Q0126	3B	32 Hollow Brook Rd
16	15	Q0127	3B	53 Hollow Brook Rd
16	25	Q0127	3B	81 Fairmount Rd East
16	15.01	Q0128	3B	49 Hollow Brook Rd
16	23	Q0130	3B	63 Fairmount Rd East
16	24	Q0131	3B	71 Fairmount Rd East
20	2	Q0132	3B	46 Fairmount Rd East
23	30	Q0133	3B	87 Homestead Rd
7.01	2	Q0134	3B	74 Fairmount Rd East
16	34	Q0134	3B	75 Fairmount Rd East
16	35	Q0135	3B	79 Fairmount Rd East
19	28	Q0138	3B	4 Cold Spring Rd
19	27	Q0138	3B	8 Cold Spring Rd
29	20	Q0138	3B	5 Cold Spring Rd
18	11.04	Q0139	3B	14 Fox Hill Rd
*18	11	Q0139	3B	8 Hollow Brook Rd
19	4	Q0140	3B	12 Hollow Brook Rd
19	11.01	Q0142		Cold Springs Rd
19	11.03	Q0142	3B	18 Cold Spring Rd
19	16	Q0143	3B	36 Homestead Rd
23	36	Q0144	3B	77 Mccann Mill Rd
23	22	Q0144	3B	74 Vlietown Rd
24	20	Q0144	3B	76 Mccann Mill Rd
19	13.06	Q0145	3B	16 Homestead Rd
19	13.03	Q0146	3B	24 Homestead Rd
43	2	Q0147	3B	41 Vlietown Rd
19	13.08	Q0148	3B	14 Homestead Rd
19	17	Q0149	3B	50 Homestead Rd
19	15	Q0150	3B	28 Homestead Rd
19	17.05	Q0151	3B	42 Homestead Rd

23	34	Q0153	3B	4 Flint Hill Rd
23	2.01	Q0153	3B	9 Flint Hill Rd
23	32.01	Q0153	3B	10 Flint Hill Rd
20	12	Q0154		28 Fairmount Rd E
20	7	Q0154	3B	34 Fairmount Rd East
23	35	Q0157	3B	67 Mccann Mill Rd
24	19	Q0157	3B	68 Mccann Mill Rd
19	17.03	Q0158	3B	40 Cold Spring Rd
23	25.01	Q0161	3B	38 Vlietown Rd
23	28.01	Q0162	3B	107 Homestead Rd
23	26	Q0163	3B	68 Old Turnpike Rd
23	28	Q0164	3B	80 Old Turnpike Rd
23	21	Q0166	3B	78 Vlietown Rd
23	23	Q0168	3B	81 Homestead Rd
23	28.03	Q0168	3B	86 Old Turnpike Rd
23	3	Q0168	3B	29 Mccann Mill Rd
23	29	Q0168	3B	103 Homestead Rd
23	20	Q0168	3B	55 Mccann Mill Rd
23	2	Q0168	3B	39 Homestead Rd
23	1	Q0168	3B	21 Flint Hill Rd
23	32.02	Q0168	3B	16 Flint Hill Rd
24	18	Q0168	3B	44 Mccann Mill Rd
28	17	Q0168	3B	100 Old Turnpike Rd
28	9.06	Q0173	3B	150 Old Turnpike Rd
23	28.02	Q0176	3B	109 Homestead Rd
*27	103	Q0178	3B	44 Hill & Dale Rd
*27	103.06	Q0180	3B	3 Fieldview Ln
*27	145.01	Q0182	3B	34 Hill & Dale Rd
27	145.06	Q0183	3B	26 Hill & Dale Rd
38	3.05	Q0183	3B	23 Hill & Dale Rd
27	145.07	Q0184	3B	32 Hill & Dale Rd
27	145.08	Q0184	3B	30 Hill & Dale Rd
27	147.01	Q0185	3B	24 Hill & Dale Rd
28	21	Q0188		56 Fox Hill Rd
27	148	Q0189	3B	109 Old Turnpike Rd
27	149	Q0191		Hill And Dale Rd
27	151	Q0192	3B	8 Hill & Dale Rd
28	33	Q0194	3B	8 Wildwood Rd
28	4	Q0194	3B	18 Wildwood Rd
28	3	Q0194	3B	14 Wildwood Rd
28	34	Q0194	3B	10A Wildwood Rd
28	10	Q0195	3B	136 Old Turnpike Rd
28	14	Q0196	3B	58 Fox Hill Rd
28	20	Q0196	3B	60 Fox Hill Rd

29	9	Q0197	3B	3 Palatine Rd
28	28	Q0198		28 Fox Hill Rd
28	29	Q0199	3B	30 Fox Hill Rd
29	21	Q0199	3B	21 Fox Hill Rd
28	30.08	Q0200	3B	160 Old Turnpike Rd
28	30.02	Q0201	3B	24 Fox Hill Rd
28	30.04	Q0201	3B	164 Old Turnpike Rd
28	30.06	Q0201	3B	22 Fox Hill Rd
29	8.02	Q0202	3B	27 Fox Hill Rd
29	10.02	Q0203	3B	13 Palatine Rd
29	10	Q0204	3B	21 Palatine Rd
*27	103.03	Q0205	3B	10 Fieldview Ln
27	148.01	Q0206	3B	125 Old Turnpike Rd
28	18	Q0207		74 Fox Hill Rd
30	6	Q0207		Homestead Rd
30	6.01	Q0208	3B	60 Homestead Rd
28	9.01	Q0212	3B	156 Old Turnpike Rd
28	9.07	Q0212		154 County Road 517
23	32	Q0218	3B	77 Homestead Rd
23	32.03	Q0218	3B	79 Homestead Rd
28	30.01	Q0224	3B	158 Old Turnpike Rd
*27	92	Q0243	3B	11 Dinner Pot Rd
29	8.06	Q0248		27A Fox Hill Rd
*27	147.02	Q0250	3B	22 Hill & Dale Rd
38	4.02	Q0253	3B	7 Wintermute Ln
43	2.02	Q0256	3B	45 Vlietown Rd
38	4.01	Q0266	3B	15 Hill & Dale Rd
*38	3.07	Q0270		Hill And Dale Rd
*38	3	Q0270		Hill And Dale Rd
38	3.06	Q0270		Hill And Dale Rd
38	6	Q0271		27 Homestead Rd
38	5.02	Q0271		Hill And Dale Rd
38	5.01	Q0271		7 Hill and Dale Rd
38	5	Q0272	3B	7 Hill & Dale Rd
38	8.03	Q0273	3B	73 Old Turnpike Rd
38	11	Q0274	3B	18 King St
38	14.01	Q0276	3B	22 King St
45	5	Q0278	3B	50 Felmley Rd
43	3.03	Q0279	3B	53 Vlietown Rd
42	4	Q0280		Cold Brook Rd
43	4	Q0280	3B	36 Cold Brook Rd
42	3	Q0281	3B	35 Vlietown Rd
*44	24	Q0282		163 Oldwick Rd
42	6	Q0283	3B	15 Cold Brook Rd

42	27	Q0284	3B	183 Lamington Rd
42	9	Q0284		183 Lamington Rd
43	3.02	Q0286	3B	16 Cold Brook Rd
*44	26	Q0289	3B	19 King St
48	4	Q0292	3B	55 Felmley Rd
48	4.01	Q0292	3B	57 Felmley Rd
45	2	Q0293	3B	182 Lamington Rd
48	5	Q0294	3B	39 Felmley Rd
23	23.02	Q0296		Vlietown Rd
23	24.03	Q0296		Vlietown Rd
23	23.01	Q0296		Vlietown Rd
43	3	Q0296	3B	77 Vlietown Rd
*45	44	Q0297		170 Oldwick Rd
45	3.01	Q0298	3B	184 Lamington Rd
19	11.07	Q0301	3B	10 Alder Creek Drive
19	11.06	Q0301		Alder Creek Dr
48	3	Q0303	3B	27 Felmley Rd
48	3.01	Q0304		Felmley Road
48	3.03	Q0305		31 Felmley Rd
47.02	6	Q0306	3B	15 Felmley Rd
19	11.05	Q0312		15 Alder Creek Dr
43	2.01	Q0313	3B	49 Vlietown Rd
42	9.03	Q0318		Lamington Rd
42	9.02	Q0318		173 Lamington Road
28	9	Q0320	3B	146 Old Turnpike Rd
28	9.04	Q0320	3B	148 Old Turnpike Rd
28	9.02	Q0320	3B	140 Old Turnpike Rd
28	9.05	Q0321	3B	152 Old Turnpike Rd
19	13.09	Q0322		10 Homestead Rd
19	13.04	Q0324	3B	12 Homestead Rd
19	11.04	Q0327	3B	13 Alder Creek Drive
19	11.08	Q0328		Alder Creek Dr
50	1	Q0329	3B	8 Black River Rd
19	12.01	Q0330	3B	44 Hollow Brook Rd
19	12.02	Q0331	3B	46 Hollow Brook Rd
50	1.01	Q0332	3B	2 Black River Rd
48	3.04	Q0336	3B	33 Felmley Road
2	9	Q0339	3B	6 Vernoy Rd
38	11.01	Q0342	3B	12 King St
45	5.01	Q0350	3B	196 Lamington Rd
*47	48	Q0372	3B	118 Oldwick Rd
38	7.03	Q0390	3B	77 Old Turnpike Rd
38	7	Q0392	3B	87 Old Turnpike Rd
*27	154	Q0393		Fieldview Ln

*27	96	Q0393		Dinner Pot Rd
23	24	Q0402	3B	52 Vlietown Rd
23	24.01	Q0402	3B	56 Vlietown Rd
19	23	Q0403	3B	28 Cold Spring Rd
19	22	Q0404	3B	24 Cold Spring Rd
16	32	Q0405	3B	125 Fairmount Rd East
19	11.09	Q0411	3B	7 Alder Creek Drive
45	10	Q0415	3B	38 Felmley Rd
45	9	Q0415	3B	38 Felmley Rd
28	31	Q0416		4 Wildwood Rd
6.04	37.04	Q0445	3B	93 Frog Hollow Rd
9	6.02	Q0453	3B	2 Guinea Hollow Rd
9	6.03	Q0454	3B	20 Sutton Rd
28	13	Q2813	3B	124 Old Turnpike Rd
*18	11.01	Q6101	3B	6 Hollow Brook Rd
*38	14.02	Q6109	3B	28 King St
*38	14	Q6109	3B	40 Potterstown Rd
16	14	Q6110	3B	47 Hollow Brook Rd
*27	95	Q6111	3B	14 Dinner Pot Rd
45	3	Q6112	3B	186 Lamington Rd
9	2	Q6114	3B	1240 Califon-Cokesbury Rd
45	46	Q6116	3B	178 Lamington Rd
45	6.02	Q6117	3B	58 Felmley Rd
42	6.01	Q6118		1 Cold Brook Rd
43	3.01	Q6118		8 Cold Brook Rd
27	100	Q6120	3B	1 Dinner Pot Rd
16	30	Q6122	3B	123 Fairmount Rd East
*27	103.05	Q6123	3B	4 Fieldview Ln
19	13.05	Q6124		20 Homestead Rd
19	14.04	Q6125	3B	6 Homestead Rd
19	14.05	Q6125	3B	6B Homestead Rd
38	4.07	Q6126	3B	6 Wintermute Ln
27	71	Q6127	3B	151 Old Turnpike Rd
*27	147.03	Q6130		Hill And Dale Rd
42	8	Q6132		Lamington Rd
*27	77	Q6134	3B	57 Sawmill Rd
28	30.05	Q6136		Fox Hill Rd
16	22	Q6140	3B	77 Hollow Brook Rd
23	9	Q6140	3B	70 Hollow Brook Rd
19	17.04	Q6144	3B	46 Homestead Rd
27	72.01	Q6146	3B	5 Laurel Mountain Way
48	5.01	Q6148		41 Felmley Rd
28	19	Q6151	3B	68 Fox Hill
47.02	1	Q6158		Gulick Rd

*38	1.05	Q6161		Hill And Dale Rd
63	18	QFARM	3B	Black River Rd

*Only a portion of the Q-Farm is within the study area

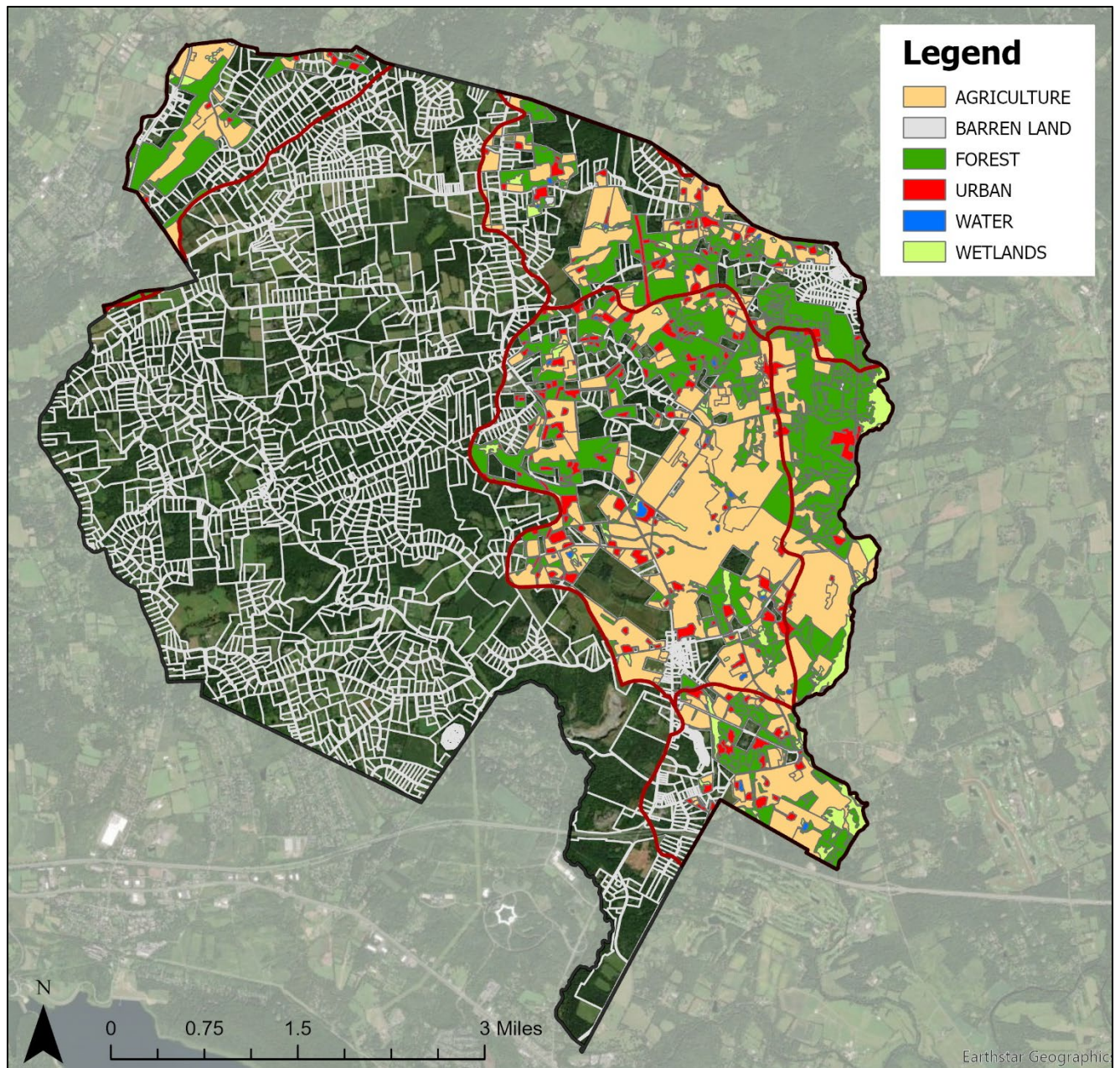


Figure 8: Land Use on Q-Farms in the Study Area of Tewksbury Township

Table 7: Land Use on Q-Farms in the Study Area of Tewksbury Township

Land Use	Area (acres)
Agriculture	2,833.1
Barren Land	5.2
Forest	2,297.5
Urban	514.8
Water	57.2
Wetlands	265.0
Total:	5,972.8

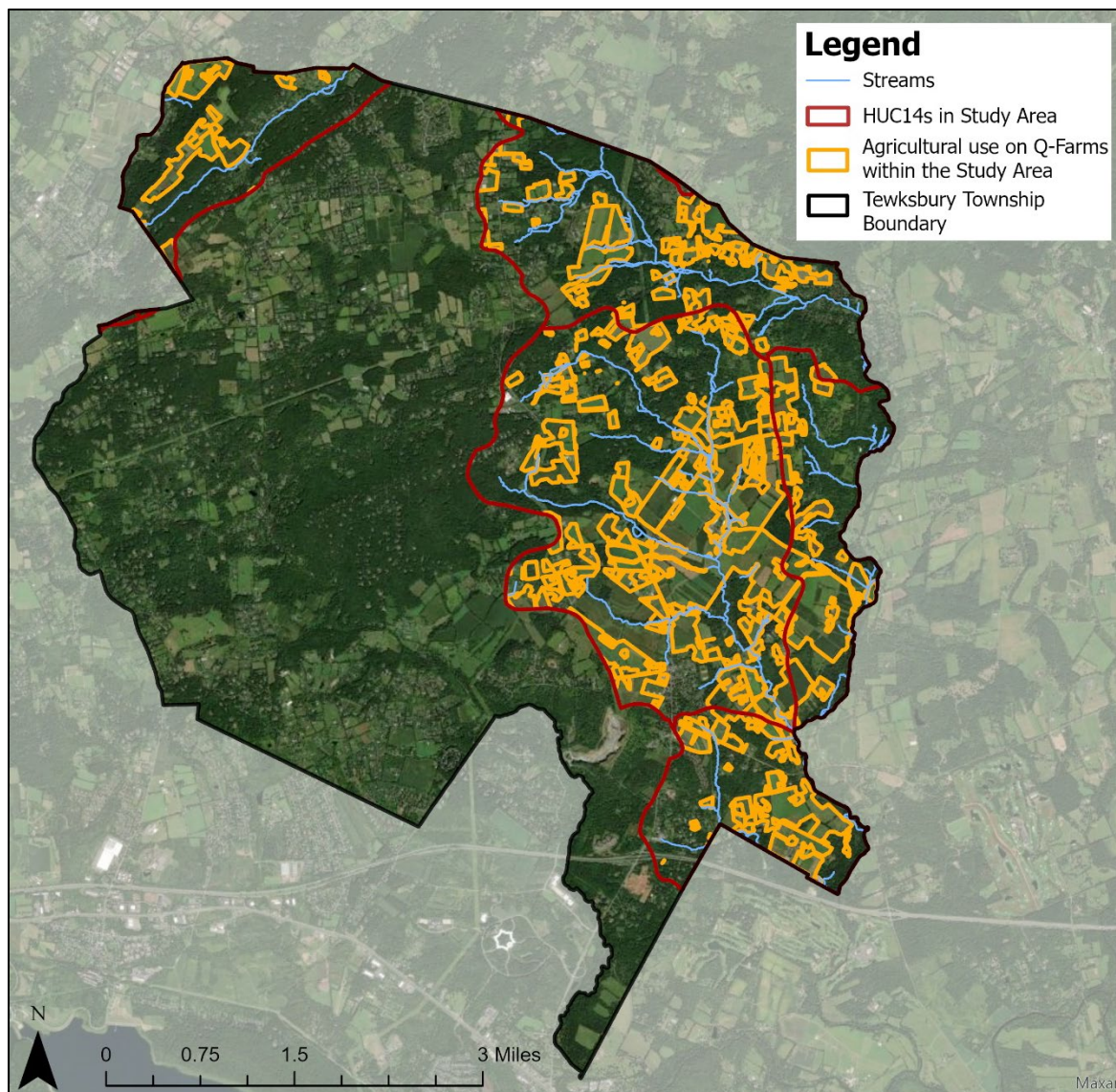


Figure 9: Aerial View of Agricultural Use on Q-Farm Parcels within the Study Area of Tewksbury Township

Table 8: Recommendations for Specific Farms in the Study Area of Tewksbury Township

Lamington River Study Area								
Block	Lot	Q-Farm Code	Cover Crop	Enhanced Stream Buffer	Impervious Cover Mgt.	Rainwater Harvesting	Livestock Exclusion	Manure Mgt.
23	36	Q0144	X					
23	35	Q0157			X	X		
23	21	Q0166	X			X		
23	2	Q0168	X					
23	20	Q0168	X					
42	9	Q0284				X		
48	4	Q0292	X		X	X		
48	5	Q0294				X		
43	3	Q0296	X	X				
48	3	Q0303						
42	9.03	Q0318						
50	1	Q0329	X	X				
50	1.01	Q0332	X	X				
48	3.04	Q0336			X	X		
45	9	Q0415						
42	6.01	Q6118	X					
43	3.01	Q6118	X	X				
South Branch Raritan River Study Area								
Block	Lot	Q-Farm Code	Cover Crop	Enhanced Stream Buffer	Impervious Cover Mgt.	Rainwater Harvesting	Livestock Exclusion	Manure Mgt.
3	4.01	Q0002						X

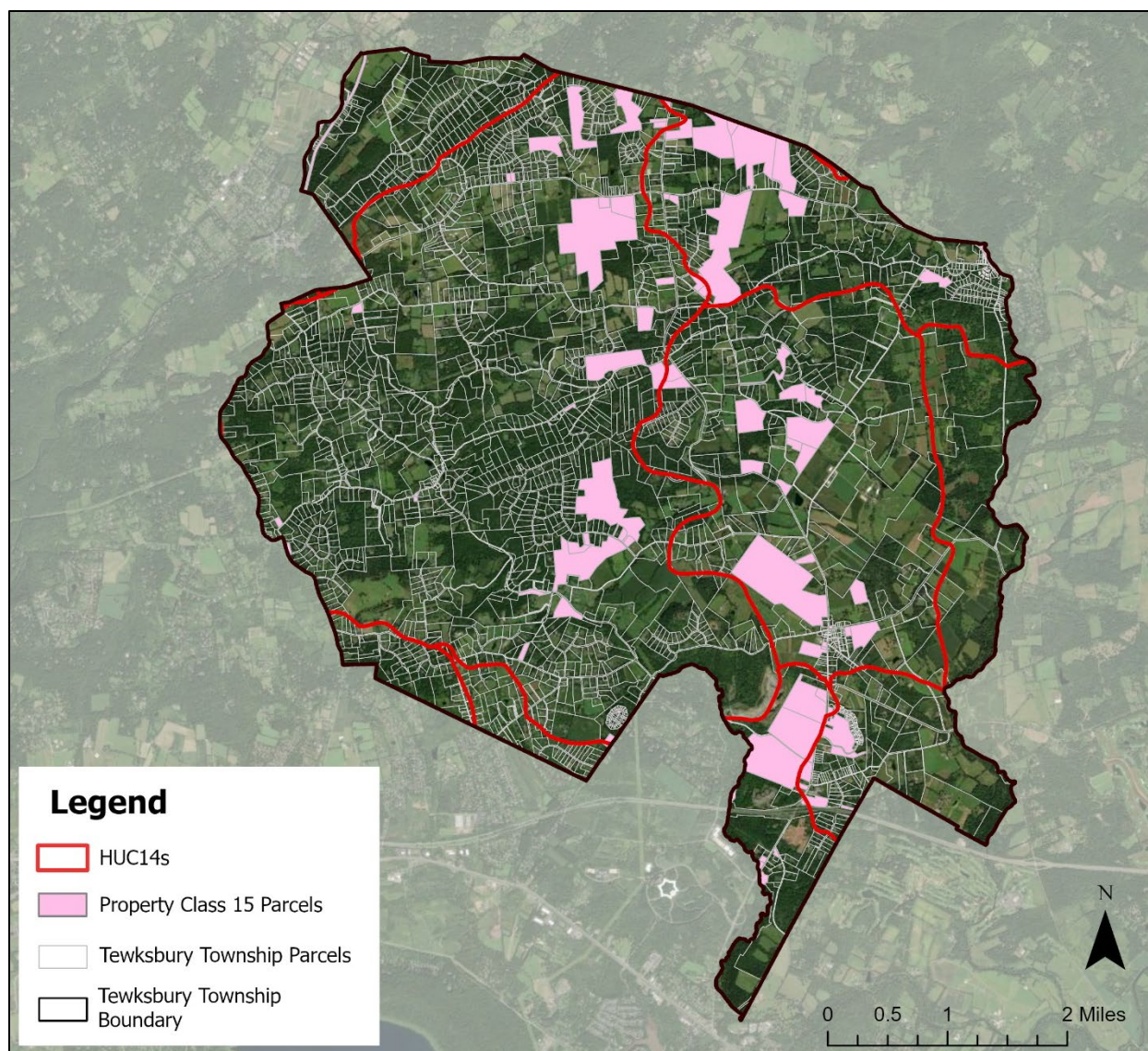


Figure 10: Property Class 15 Parcels in Tewksbury Township

Table 9: Property Class 15 Parcels in Tewksbury Township

Block	Lot	Prop Class	Location	Facility Type
27	68.01	15A	171 Old Turnpike Rd	Tewks Grade School
2	100	15C	38 Vernoy Rd	Footpath
2	5	15C	26 Vernoy Rd	Park
2	4	15C	40 Vernoy Rd	Park
3	101	15C	11 Vernoy Rd	Footpath
3	100	15C	67 Vernoy Rd	Footpath
6.04	1.01	15C	17 Beacon Light Rd	Vacant Land
6.04	23.20	15C	3 Fleming Rd	Vacant Land
6.04	1.24	15C	11 Coddington Lane	Vacant Land
7	13	15C	116 Fairmount Rd East	Vacant Land
7	2	15C	50 Pickle Rd	Vacant Land
7	4.01	15C	254 Old Turnpike Rd	Vacant Land
7	13.03	15C	96 Fairmount Rd East	Vacant Land
7	23	15C	258 Old Turnpike Rd	Vacant Land
14	21	15C	108 Fairmount Rd West	Park
14	21.01	15C	102 Fairmount Rd West	Municipal Bldg
14	21.02	15C	112 Fairmount Rd West	Playground
15	18.01	15C	105 Farmersville Rd	Vacant Land
15	9.10	15C	10 Tiger Dr	Vacant Land
15	9.05	15C	87 Farmersville Rd	Vacant Land
16	27	15C	117 Fairmount Rd East	Vacant Land
16	6	15C	113 Fairmount Rd East	Park
16	6.01	15C	5 Fox Hill Rd	Park
22	1	15C	16 Black River Rd	Green Acres
23	8.41	15C	5 Homestead Rd	Vacant Land
23	26.02	15C	34 Church St	Sewage Disposal
27	115.02	15C	3 Parsonage Lot Rd	Farm
27	115.03	15C	7 Parsonage Lot Rd	Farm
27	115	15C	5,13,37 Parsonage Lot Rd	Farm
27	68.02	15C	169 Old Turnpike Rd	Garage
29	18	15C	11 Cold Spring Rd	Forest
31	24.03	15C	33 Potter Ln	Vacant Land
32	19	15C	60 Water St	Municipal Bldg
32	20	15C	62 Water St	Road
34	8	15C	105 Rockaway Rd	Vacant Land
37	3.22	15C	76 Potterstown Rd	Sewage Disposal
38	8	15C	65 Old Turnpike Rd	Park
42	2	15C	29 Vlietown Rd	Sewer Disposal
44	12	15C	29 Old Turnpike Rd	Playground
44	22	15C	159 Oldwick Rd	UCP/Coah
44	7	15C	45 Old Turnpike Rd	Parking Lot
44	23	15C	149 Oldwick Rd	Sanctuary
45.01	1	15C	9-02 Old Turnpike Rd	Vacant Land
45.02	49	15C	1216 Farley Rd	Vacant Land
46	20	15C	15 Rockaway Rd	Sanctuary
46	17.01	15C	125-A Oldwick Rd	Vacant Land

46	17.02	15C	Oldwick	Vacant Land
46.01	12	15C	101 Oldwick Rd	Park
46.01	11	15C	103 Oldwick Rd	Park
47	14	15C	12-A Felmley Rd	Highway
47	61	15C	Matheson Rd	Highway
47	60	15C	Interstate 78	Highway
47.01	47.01	15C	124 Oldwick Rd	Vacant Land
47.02	12.01	15C	Interstate 78	Highway
49	5.02	15C	100 Oldwick Rd	Water Way
49	1	15C	1 New Bromley Rd	Vacant Land
51	11	15C	25 Sawmill Rd	Park
51	19	15C	35 Sawmill Rd	Vacant Land
*63	17	15C	Black River Rd	Vacant Land
6.04	5.01	15D	253 Old Turnpike Rd	Church
6.04	6	15D	249 Old Turnpike Rd	Parsonage
6.04	6.01	15D	247 Old Turnpike Rd	Community Center
6.04	4.01	15D	255 Old Turnpike Rd	Church
16	1	15D	228 Old Turnpike Rd	Church
16	2.02	15D	135 Fairmount East	Parsonage
23	41	15D	56 Old Turnpike Rd	Church
28	16	15D	110 Old Turnpike Rd	Home Handicap Childr
32	1	15D	230 Cokesbury Rd	Church
40	2	15D	5 James St	Storage Bldg.
42	1	15D	18 Miller Ave	Community Center
44	10	15D	35 Old Turnpike Rd	Parsonage
6.02	24.06	15F	73 Fairmount Rd West	Disabled Veteran
6.02	24.05	15F	71 Fairmount Rd West	Disabled Veteran
11	23	15F	5 Water St	Disabled Veteran
12	1.06	15F	37 Sutton Rd	Green Acres
14	17.03	15F	195 Old Turnpike Rd	Disabled Veteran
15	13	15F	50 Sawmill Rd	Green Acres
16	26	15F	93 Fairmount Rd East	Green Acres
28	13.01	15F	118 Old Turnpike Rd	Green Acres
28	27	15F	42 Fox Hill Rd	Green Acres
29	8.021	15F	27 Fox Hill Rd	Green Acres
29	10.04	15F	17 Palatine Rd	Green Acres
30	4.01	15F	51 Fox Hill Rd	Green Acres
30	5	15F	61 Fox Hill Rd	Green Acres
30	3	15F	45 Fox Hill Rd	Green Acres
34	13.04	15F	38 Bissell Rd	Disabled Veteran
34	11	15F	99 Rockaway Rd	Vacant Land
36	1	15F	9 Meadow Ln	Vacant Land
37.02	5	15F	5 Hunters Circle	Disabled Veteran
38	7.01	15F	83 Old Turnpike Rd	Barn
44	11	15F	31 Old Turnpike Rd	Community Center
44	22.01	15F	163 Oldwick Rd	Firehouse
50.01	1	15F	80 Vlietown Rd	Green Acres
51	80	15F	78 Hill & Dale	Conservation/Rec
51	80.06	15F	24A Parsonage Lot Rd	Conservation/Rec

51	80.05	15F	24 Parsonage Lot Rd	Conservation/Rec
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*Only a portion of the parcel is within the Tewksbury Township boundary

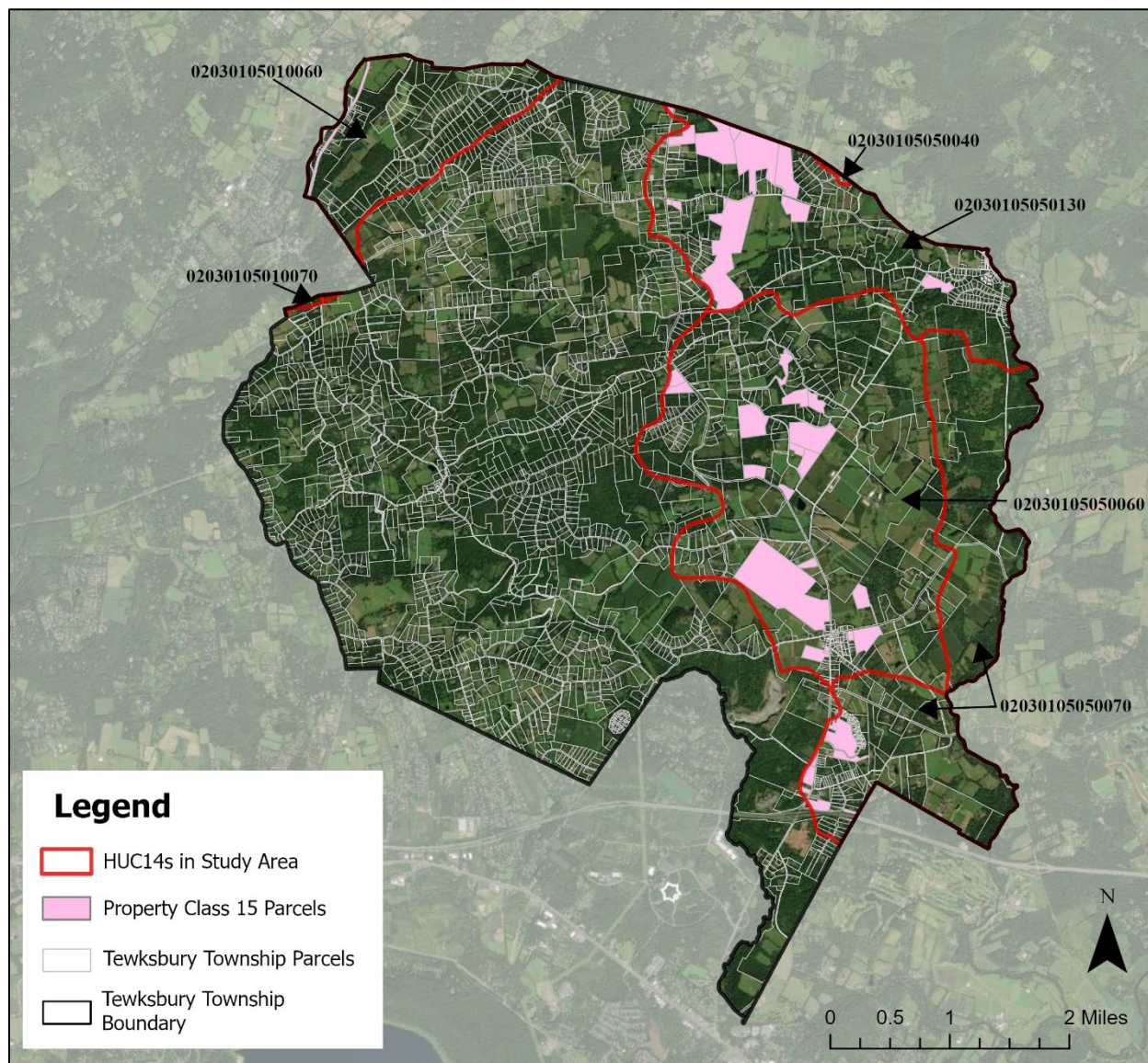


Figure 11: Property Class 15 parcels in the Study Area of Tewksbury Township

Table 10: Property Class 15 Parcels in the Study Area of Tewksbury Township

Block	Lot	Prop Class	Location	Facility Type
*27¹	68.01	15A	171 Old Turnpike Rd	Tewks Grade School
2	4	15C	40 Vernoy Rd	Park
2	5	15C	26 Vernoy Rd	Park
2	100	15C	38 Vernoy Rd	Footpath
3	100	15C	67 Vernoy Rd	Footpath
3	101	15C	11 Vernoy Rd	Footpath
7	2	15C	50 Pickle Rd	Vacant Land
7 ¹	4.01	15C	254 Old Turnpike Rd	Vacant Land
7	13	15C	116 Fairmount Rd East	Vacant Land
7	13.03	15C	96 Fairmount Rd East	Vacant Land
7	23	15C	258 Old Turnpike Rd	Vacant Land
*16¹	6	15C	113 Fairmount Rd East	Park
16 ¹	6.01	15C	5 Fox Hill Rd	Park
16	27	15C	117 Fairmount Rd East	Vacant Land
22	1	15C	16 Black River Rd	Green Acres
23	8.41	15C	5 Homestead Rd	Vacant Land
23	26.02	15C	34 Church St	Sewage Disposal
*27¹	68.02	15C	169 Old Turnpike Rd	Garage
29	18	15C	11 Cold Spring Rd	Forest
38	8	15C	65 Old Turnpike Rd	Park
42	2	15C	29 Vlietown Rd	Sewer Disposal
44	7	15C	45 Old Turnpike Rd	Parking Lot
*44	12	15C	29 Old Turnpike Rd	Playground
*44¹	22	15C	159 Oldwick Rd	Ucp/Coah
44 ¹	23	15C	149 Oldwick Rd	Sanctuary
45.01 ¹	1	15C	9-02 Old Turnpike Rd	Vacant Land
45.02	49	15C	1216 Farley Rd	Vacant Land
46 ¹	20	15C	15 Rockaway Rd	Sanctuary
47	14	15C	12-A Felmley Rd	Highway
47	60	15C	Interstate 78	Highway
47	61	15C	Matheson Rd	Highway
47.01 ¹	47.01	15C	124 Oldwick Rd	Vacant Land
47.02	12.01	15C	Interstate 78	Highway
63	17	15C	Black River Rd	Vacant Land
6.04	4.01	15D	255 Old Turnpike Rd	Church
*6.04¹	5.01	15D	253 Old Turnpike Rd	Church
16	1	15D	228 Old Turnpike Rd	Church
16	2.02	15D	135 Fairmount East	Parsonage
23	41	15D	56 Old Turnpike Rd	Church
28	16	15D	110 Old Turnpike Rd	Home Handicap Childr
40	2	15D	5 James St	Storage Bldg.
42	1	15D	18 Miller Ave	Community Center
44	10	15D	35 Old Turnpike Rd	Parsonage
16	26	15F	93 Fairmount Rd East	Green Acres
28	13.01	15F	118 Old Turnpike Rd	Green Acres
28	27	15F	42 Fox Hill Rd	Green Acres

29	8.021	15F	27 Fox Hill Rd	Green Acres
29	10.04	15F	17 Palatine Rd	Green Acres
30	3	15F	45 Fox Hill Rd	Green Acres
30	4.01	15F	51 Fox Hill Rd	Green Acres
30	5	15F	61 Fox Hill Rd	Green Acres
38	7.01	15F	83 Old Turnpike Rd	Barn
*44	11	15F	31 Old Turnpike Rd	Community Center
50.01	1	15F	80 Vlietown Rd	Green Acres

*** Sites that can be retrofitted with green infrastructure**

¹Only a portion of the parcel is within the study area

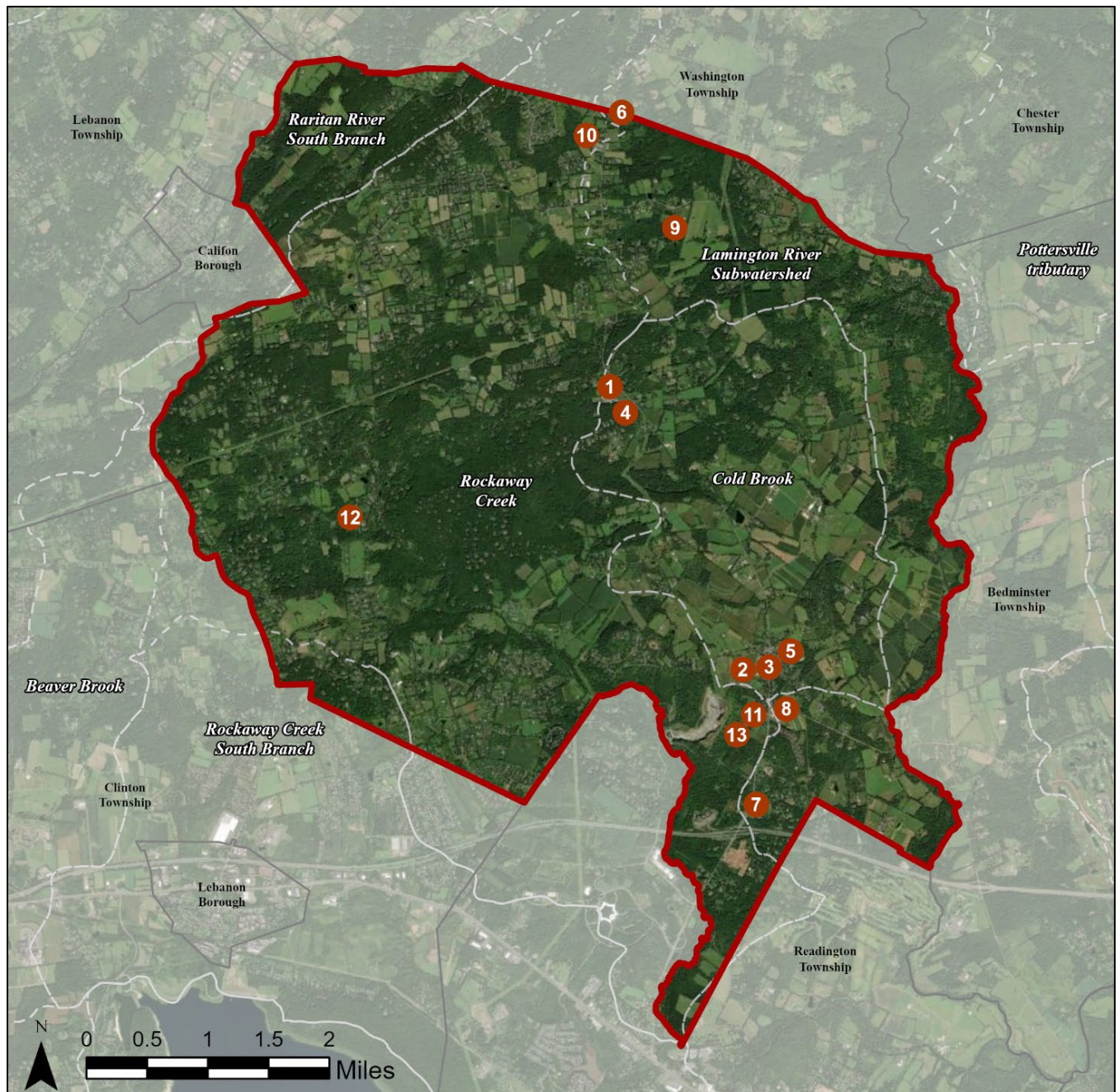


Figure 12: Sites with Green Infrastructure Opportunities in Tewksbury Township

OLD TURNPIKE MIDDLE SCHOOL



RAP ID: 1

Subwatershed: Cold Brook

Site Area: 997,124 sq. ft.

Address: 171 Old Turnpike Road
Tewksbury, NJ 07830

Block and Lot: Block 27, Lot 68.01



Two rain gardens can be installed adjacent to the entrance of the building and in the turfgrass south of the building to capture, treat, and infiltrate rooftop runoff. A section of parking spaces can be converted to pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
21	212,600	10.2	107.4	976.1	0.166	5.83

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.143	24	18,304	0.81	1,375	\$6,875
Pervious pavement	0.449	75	9,073	0.40	3,080	\$77,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Old Turnpike Middle School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS

0 50' 100'

OLDWICK PARK

RAP ID: 2

Subwatershed: Cold Brook

Site Area: 528,992 sq. ft.

Address: 31 Old Turnpike Road
Whitehouse Station, NJ 07830

Block and Lot: Block 44, Lot 12



A cistern can be installed on the southern side of the building near a downspout to capture stormwater from the roof. The water can then be used for watering gardens, washing vehicles, or for other non-potable uses. Four downspout planter boxes can be constructed along the building to allow roof runoff to be reused. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
11	59,764	2.9	30.2	274.4	0.047	1.64

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Planter boxes	n/a	3	n/a	n/a	4	\$4,000
Rainwater harvesting	0.033	6	995	0.12	995 (gal)	\$1,990

GREEN INFRASTRUCTURE RECOMMENDATIONS



Oldwick Park

- planter box
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS



TEWKSBURY TOWNSHIP LIBRARY



RAP ID: 3

Subwatershed: Cold Brook

Site Area: 27,235 sq. ft.

Address: 31 Old Turnpike Road
Whitehouse Station, NJ
08889

Block and Lot: Block 44, Lot 11

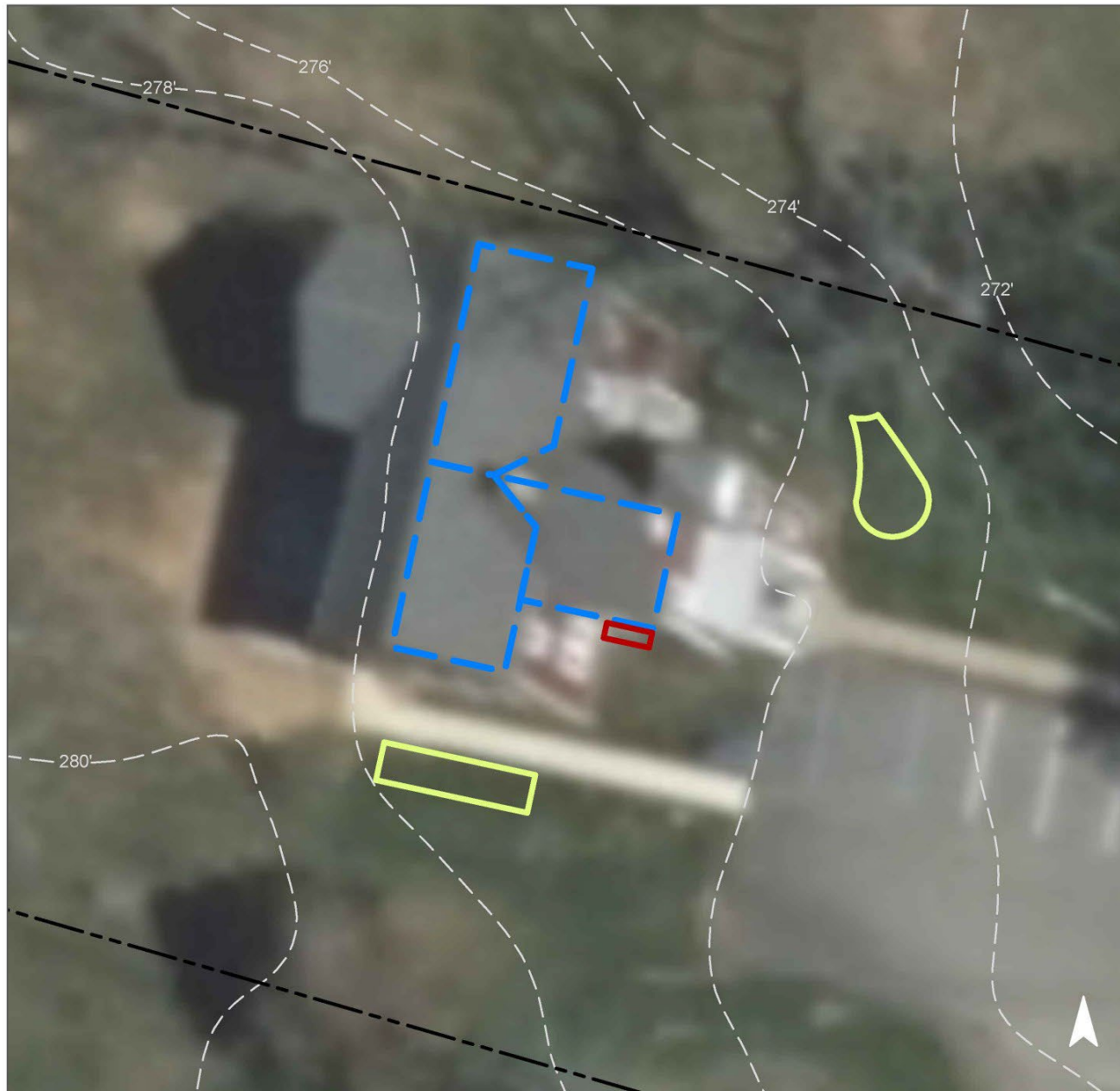


Two rain gardens can be used to capture, treat, and infiltrate rooftop runoff. A downspout planter box can be constructed along the building to allow roof runoff to be captured and reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
49	13,271	0.6	6.7	60.9	0.010	0.36

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.020	3	1,459	0.06	195	\$975
Planter box	n/a	1	n/a	n/a	1 (box)	\$1,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Tewksbury Township Library

-  bioretention system
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



TEWKSBURY TOWNSHIP MUNICIPAL BUILDINGS

RAP ID: 4

Subwatershed: Cold Brook

HUC14 ID: 02030105050060

Site Area: 417,784 sq. ft.

Address: 167 County Road 517
Califon, NJ 07830



Block and Lot: Block 27, Lot 68.02

Rain gardens can be installed in multiple locations around the property to capture, treat, and infiltrate stormwater runoff from the rooftops. Most of these will require downspout disconnection and redirection. A rain garden can be installed to the northwest of the property to capture, treat, and infiltrate runoff from the asphalt. A trench drain will be needed. Cisterns can be installed near multiple buildings to divert and detain runoff from the rooftops via downspouts for non-potable future use, such as washing vehicles or watering the landscaping vegetation. The police vehicle parking lot and sections of existing parking spots can be converted into pervious pavement to capture and infiltrate stormwater runoff from the asphalt and the rooftops. This will require downspout disconnections. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 49.4"
48	201,148	9.7	101.6	923.5	0.157	6.19

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	19,455	0.569	86	39,010	1.47	4,865	\$48,650
Pervious pavement	24,455	0.715	106	49,030	1.84	7,795	\$194,875
Rainwater harvesting	6,390	0.187	29	5,200	0.20	5,200 (gal)	\$15,600

GREEN INFRASTRUCTURE RECOMMENDATIONS



Tewksbury Township Municipal Buildings

-  bioretention system
-  pervious pavement
-  rainwater harvesting
-  captured drainage area
-  property line
-  2017 - 2018 USGS Lidar:
NW New Jersey 6 County



ZION LUTHERAN CHURCH



RAP ID: 5

Subwatershed: Cold Brook

Site Area: 104,636 sq. ft.

Address: 18 Miller Avenue
Oldwick, NJ 08858

Block and Lot: Block 42, Lot 1

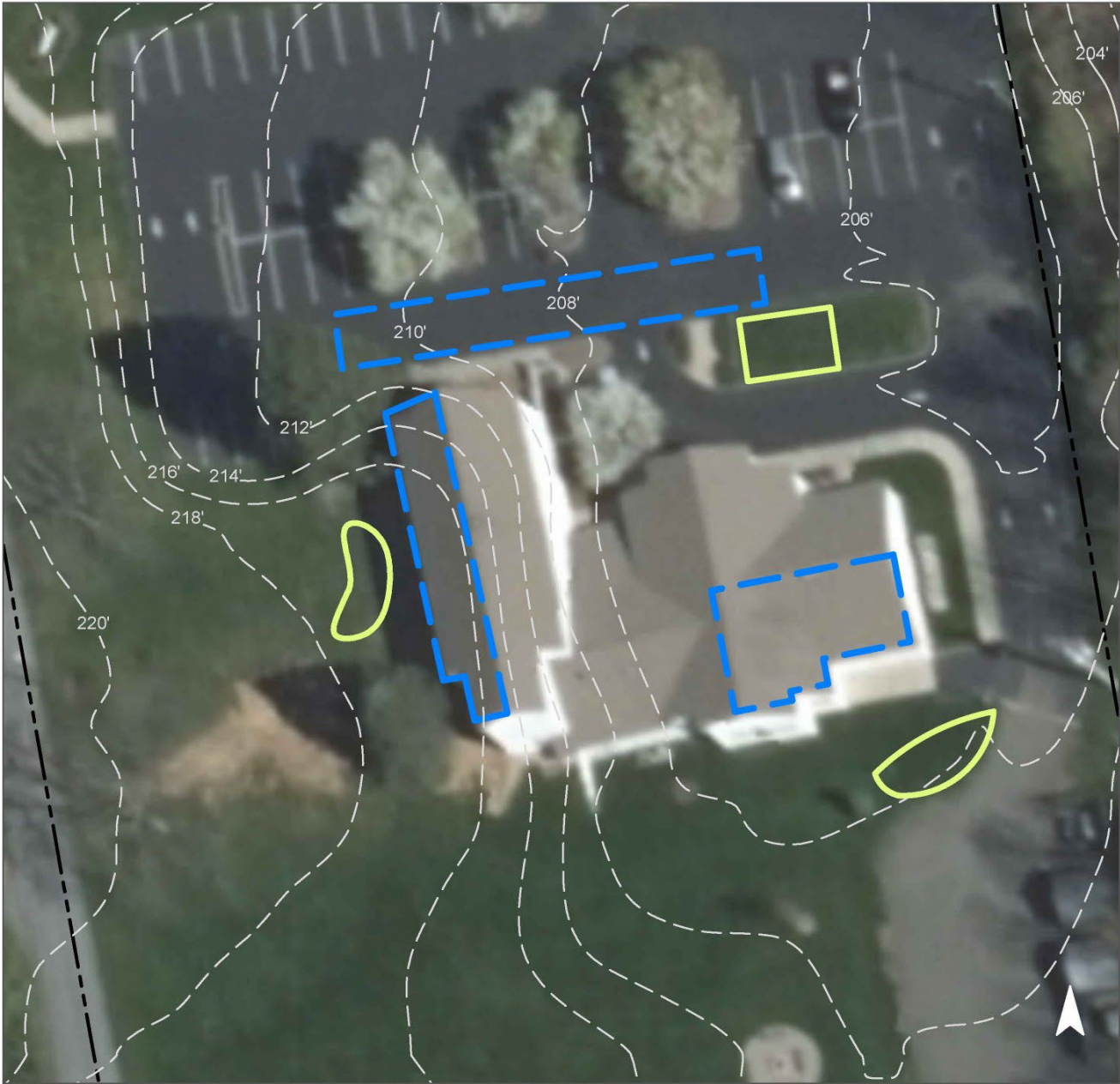


Two rain gardens can be installed in the turfgrass areas adjacent to the building to capture, treat, and infiltrate stormwater runoff from the roof. Another rain garden can be installed in a parking lot island to capture, treat, and infiltrate stormwater runoff from the parking lot. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
44	46,252	2.2	23.4	212.4	0.036	1.27

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.103	17	4,421	0.19	995	\$4,975

GREEN INFRASTRUCTURE RECOMMENDATIONS



Zion Lutheran Church

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



FAIRMOUNT UNITED METHODIST CHURCH



RAP ID: 6

Subwatershed: Lamington River

Site Area: 56,952 sq. ft.

Address: 253 Old Turnpike Road
Califon, NJ 07830

Block and Lot: Block 16, Lot 1,2.012

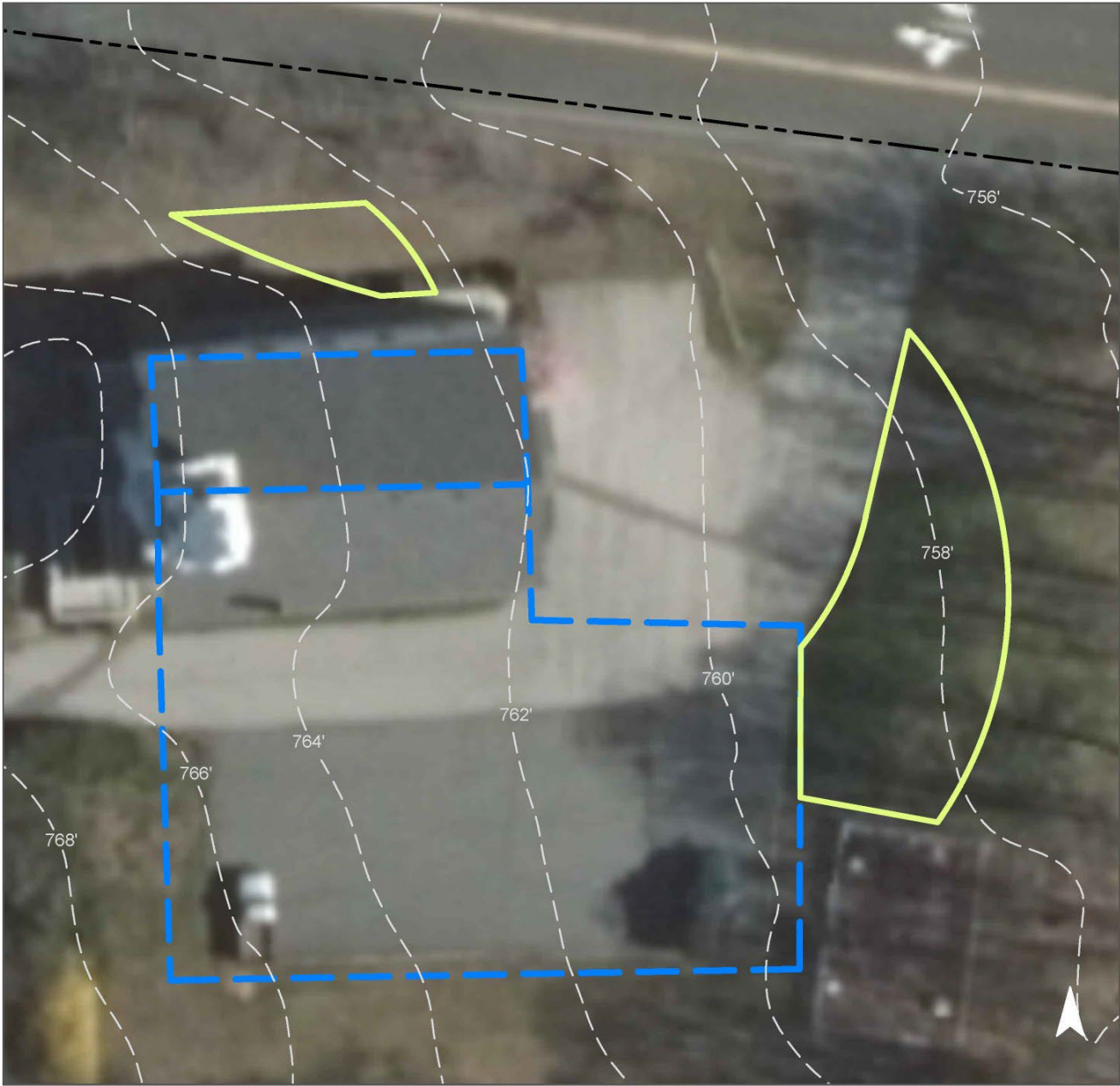


Rain gardens can be installed on the north side of the building and on the turfgrass area east of the parking lot to capture, treat, and infiltrate stormwater runoff from the roof. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
54	30,764	1.5	15.5	141.2	0.024	0.84

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.322	54	24,385	1.07	3,090	\$15,450

GREEN INFRASTRUCTURE RECOMMENDATIONS



Fairmount United Methodist Church

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



OLDWICK ANIMAL HOSPITAL



RAP ID: 7

Subwatershed: Lamington River

Site Area: 44,718 sq. ft.

Address: 130 Oldwick Road
Whitehouse Station, NJ
08889

Block and Lot: Block 45, Lot 28

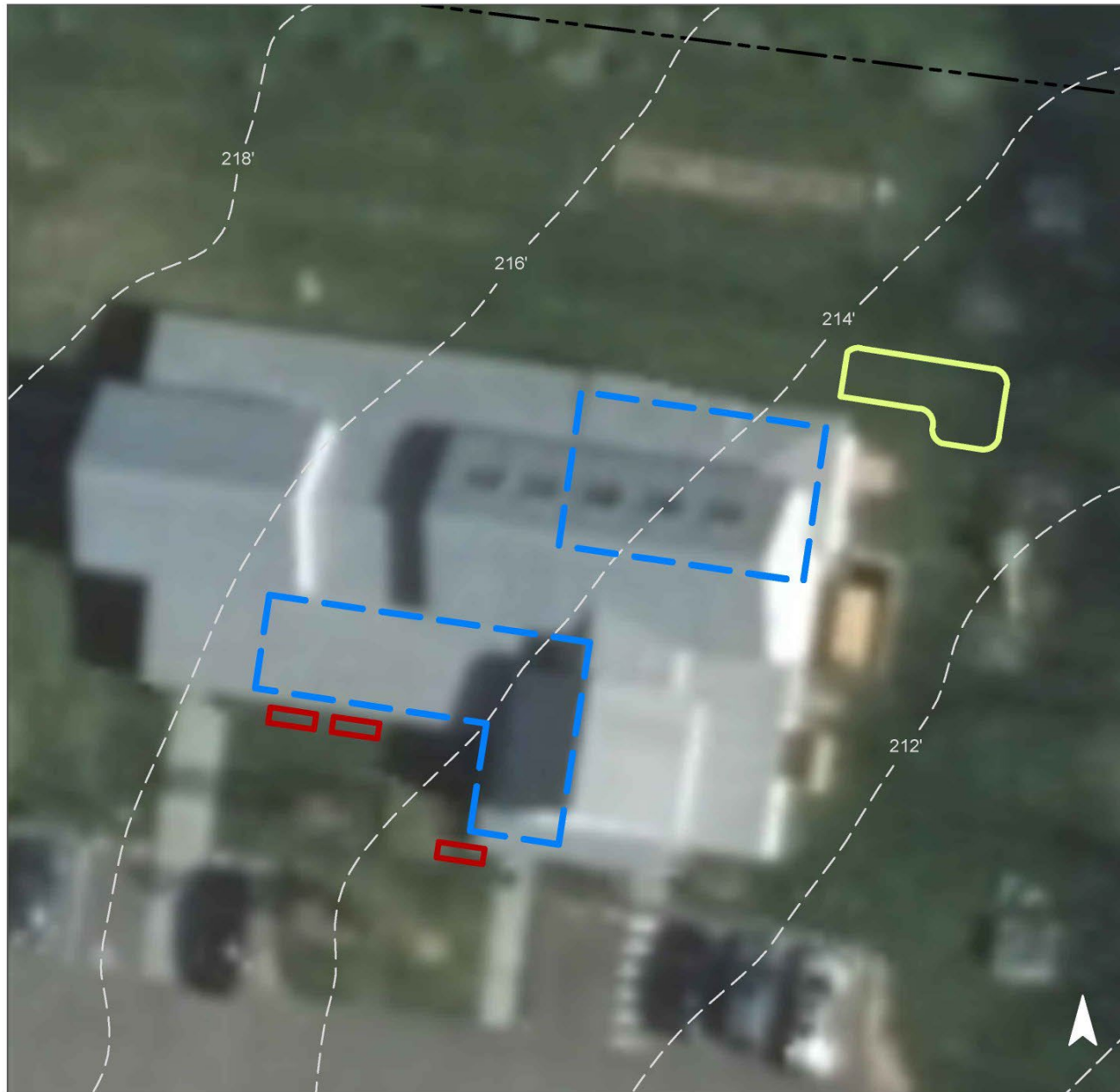


A rain garden can be installed in the turfgrass area to capture, treat, and infiltrate stormwater runoff from the roof. Downspout planter boxes can be constructed along the building to allow roof runoff to be captured and reused. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
61	27,479	1.3	13.9	126.2	0.021	0.75

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.017	3	741	0.03	165	\$825
Planter boxes	n/a	2	n/a	n/a	3 (boxes)	\$3,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Oldwick Animal Hospital

 bioretention system

 planter box

 drainage area

 property line

 2015 Aerial: NJOIT, OGIS



OLDWICK POST OFFICE



RAP ID: 8

Subwatershed: Lamington River

Site Area: 21,980 sq. ft.

Address: 174 Lamington Road
Oldwick, NJ 08858

Block and Lot: Block 45, Lot 1.01

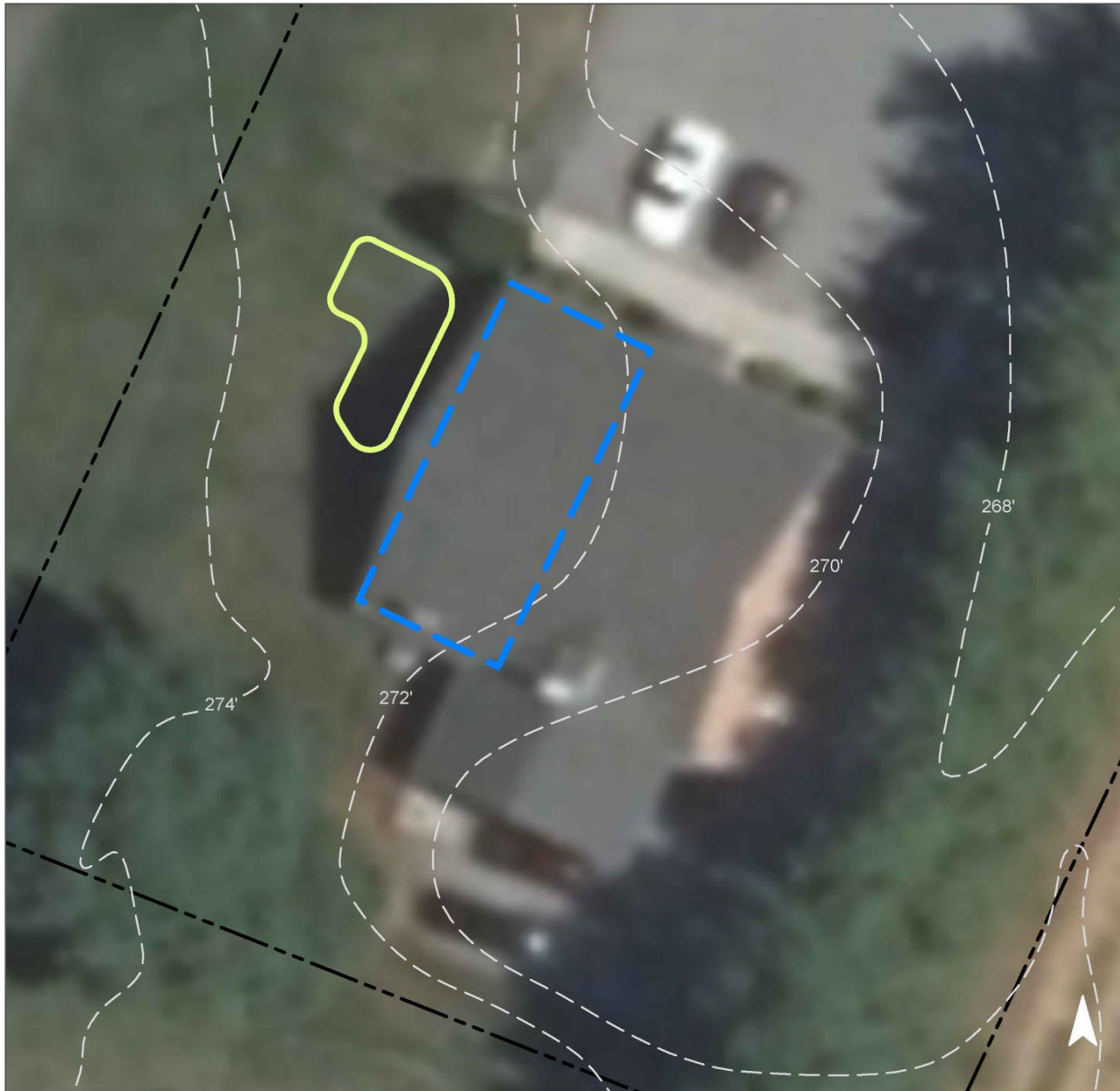


A rain garden can be installed on the west side of the building to capture, treat, and infiltrate stormwater runoff from the roof. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
45	9,842	0.5	5.0	45.2	0.008	0.27

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.024	4	1,825	0.07	225	\$1,125

GREEN INFRASTRUCTURE RECOMMENDATIONS



Oldwick Post Office

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



TEWKSBURY ELEMENTARY SCHOOL



RAP ID: 9

Subwatershed: Lamington River

Site Area: 5,952,026 sq. ft.

Address: 109 Fairmount Road East
Whitehouse Station, NJ
08889

Block and Lot: Block 16, Lot 6



A rain garden can be installed in the turfgrass area on the west side of the building and on the turfgrass area in the parking lot to capture, treat, and infiltrate stormwater runoff from the roof. Parking spaces north of the building can be replaced with pervious pavement to capture and infiltrate stormwater runoff from the parking lot. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
6	333,441	16.1	168.4	1,531.0	0.260	9.15

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.133	22	16,164	0.71	1,275	\$6,375
Pervious pavement	0.371	62	24,662	1.08	2,540	\$63,500

GREEN INFRASTRUCTURE RECOMMENDATIONS



Tewksbury Elementary School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAYTOWN NURSERY SCHOOL

RAP ID: 10

Subwatershed: Rockaway Creek

HUC14 ID: 02030105050080

Site Area: 131,401 sq. ft.

Address: 18 Miller Avenue
Oldwick, NJ 08858



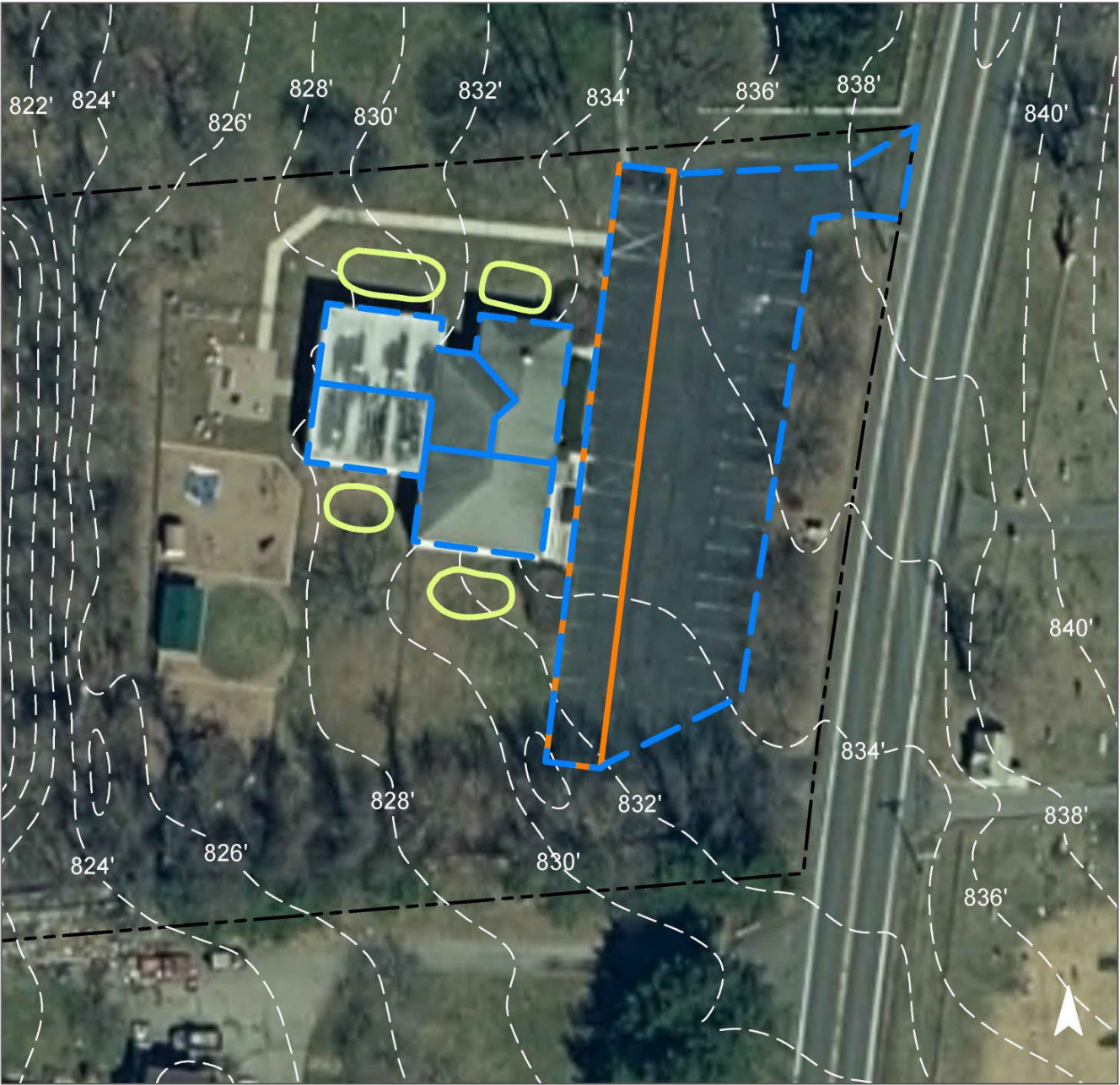
Block and Lot: Block 6.04, Lot 6.01

Rain gardens can be installed in multiple grass areas around the building to capture, treat, and infiltrate stormwater runoff from the rooftop. Downspout disconnection and redirection will be required. The existing parking spaces in the west of the lot can be converted to pervious pavement to capture and infiltrate runoff from the asphalt. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 49.4"
24	31,929	1.5	16.1	146.6	0.025	0.98

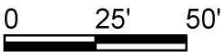
Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	5,010	0.147	23	10,050	0.38	1,250	\$12,500
Pervious pavement	12,400	0.363	53	24,860	0.93	3,530	\$88,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



Haytown Nursery School

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2017 - 2018 USGS Lidar: NW New Jersey 6 County



OLDWICK FIRE COMPANY SOCIAL HALL



RAP ID: 11

Subwatershed: Rockaway Creek

Site Area: 200,735 sq. ft.

Address: 163 Oldwick Road
Oldwick, NJ 08858

Block and Lot: Block 44, Lot 22.01

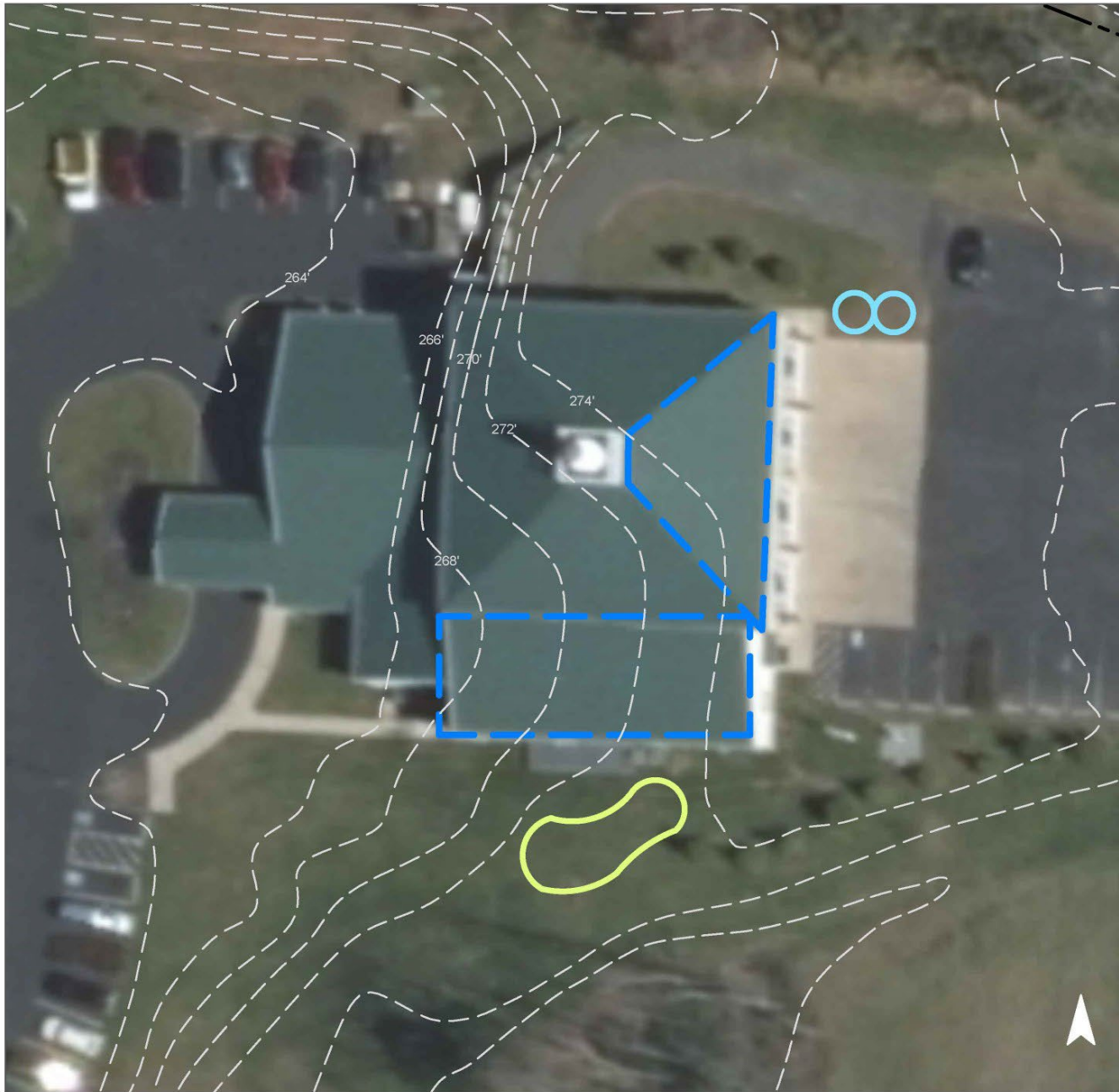


A rain garden can be installed on the south side of the building to capture, treat, and infiltrate stormwater runoff from the roof. Two cisterns can be installed on the north side of the building to capture stormwater from the roof. The water can then be used for watering gardens, washing vehicles, or for other non-potable uses. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
31	61,279	3.0	30.9	281.4	0.048	1.68

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.065	11	4,869	0.18	625	\$3,125
Rainwater harvesting	0.044	7	1,325	0.15	1,325 (gal)	\$2,650

GREEN INFRASTRUCTURE RECOMMENDATIONS



**Oldwick Fire Company
Social Hall**

-  bioretention system
-  rainwater harvesting
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS

0 15' 30'

TEWKSBURY HISTORICAL SOCIETY



RAP ID: 12

Subwatershed: Rockaway Creek

Site Area: 35,923 sq. ft.

Address: 60 Water Street
Lebanon, NJ 08833

Block and Lot: Block 32, Lot 19

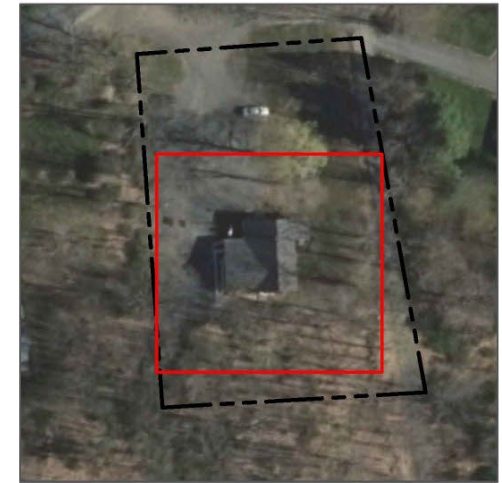
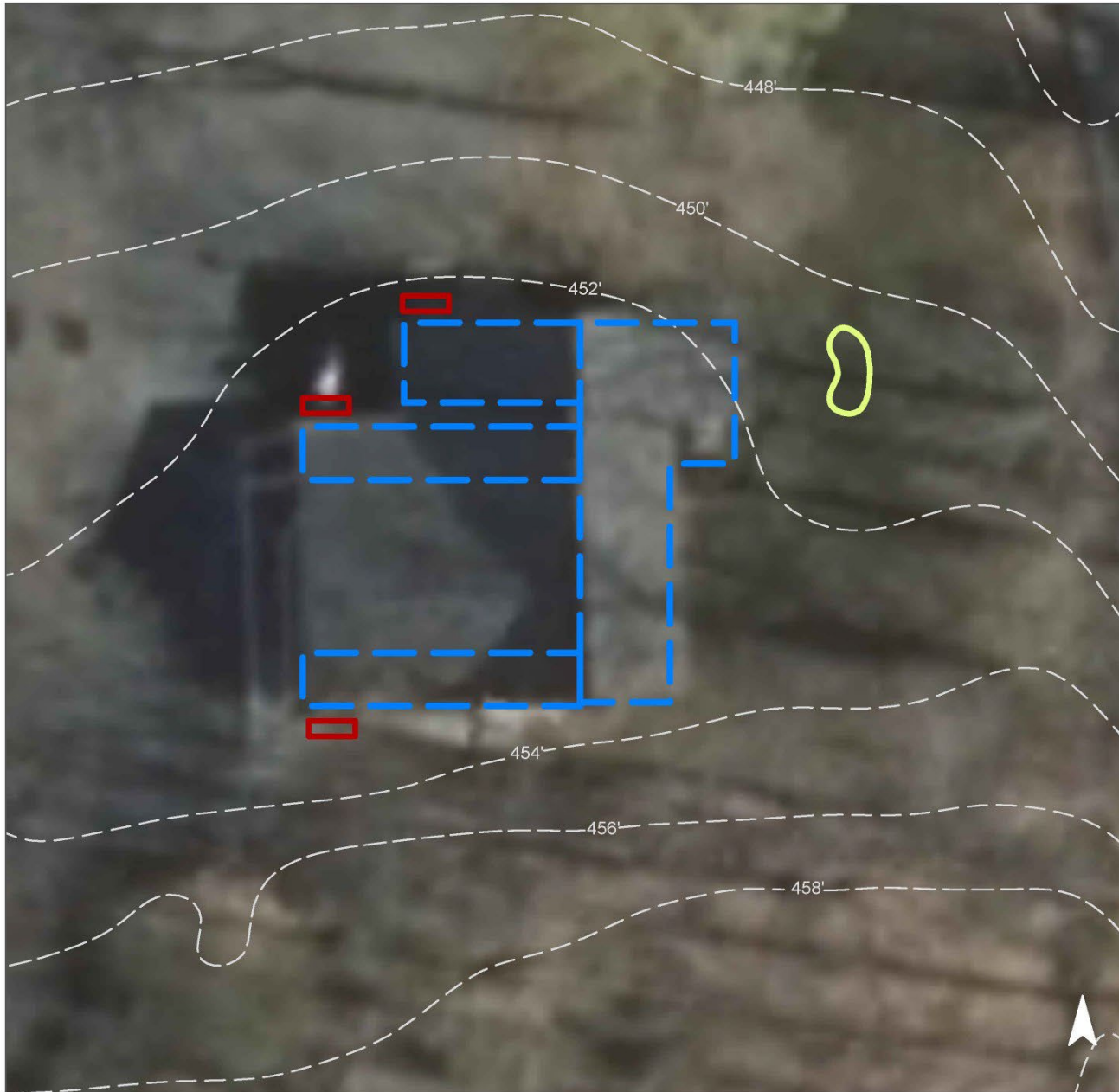


A rain garden can be installed in the turfgrass area on the east side of the building to capture, treat, and infiltrate stormwater runoff from the roof. Downspout planter boxes can be installed to allow roof runoff to be captured and reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
15	5,372	0.3	2.7	24.7	0.004	0.15

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.019	3	367	0.02	185	\$925
Planter boxes	n/a	2	n/a	n/a	3 (boxes)	\$3,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Tewksbury Historical Society

-  bioretention system
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



THE MEADOWS AT OLDWICK



RAP ID: 13

Subwatershed: Rockaway Creek

Site Area: 2,218,965 sq. ft.

Address: 800 Fisher Road
Whitehouse Station, NJ 08889

Block and Lot: Block 44, Lot 22

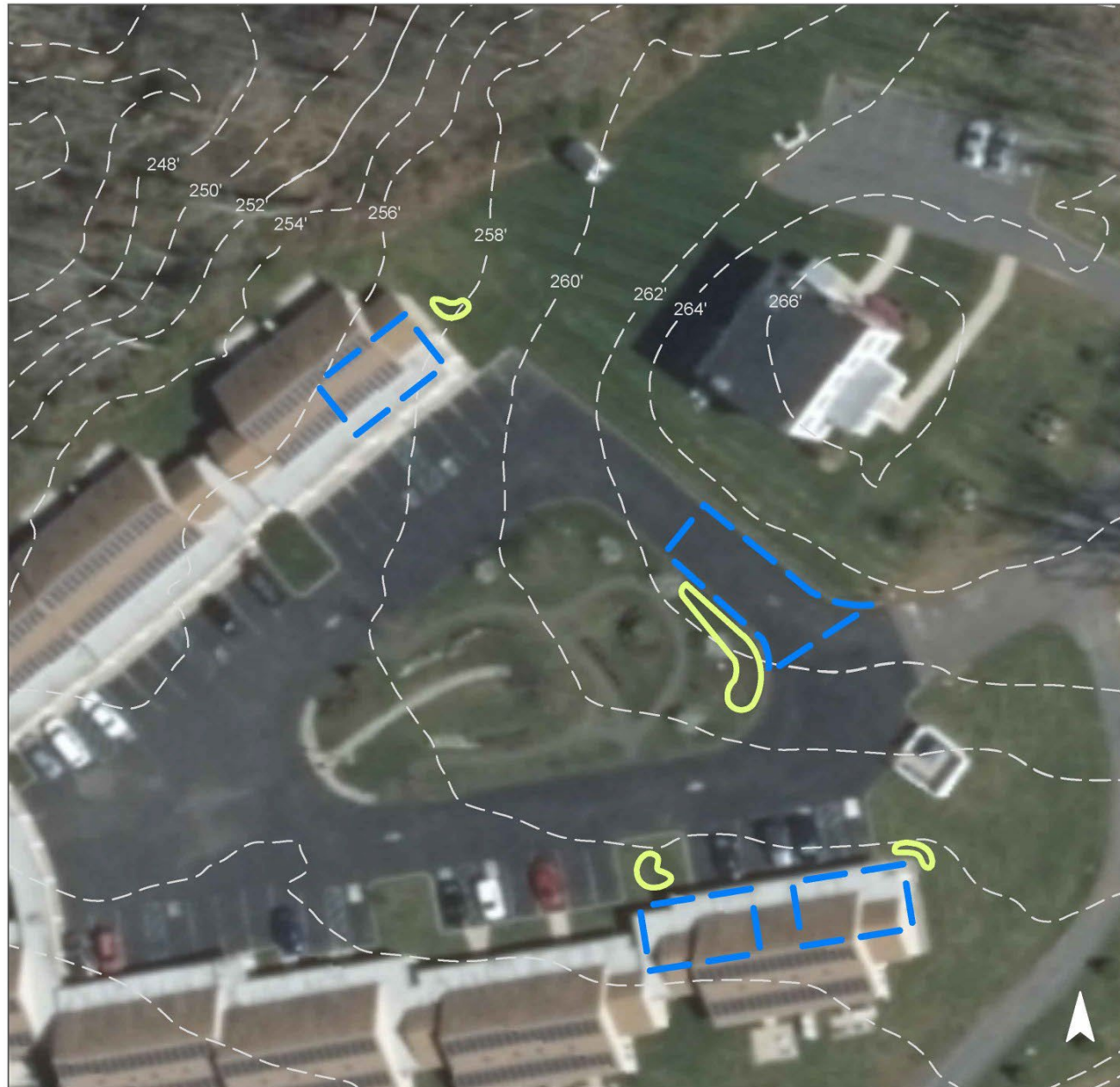


Multiple rain gardens can be installed in the turfgrass area adjacent to the buildings and in the center parking lot island to capture, treat, and infiltrate stormwater runoff from the roof. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
10	219,372	10.6	110.8	1,007.2	0.171	6.02

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.089	15	5,991	0.26	865	\$4,325

GREEN INFRASTRUCTURE RECOMMENDATIONS



The Meadows At Oldwick

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS

0 25' 50'

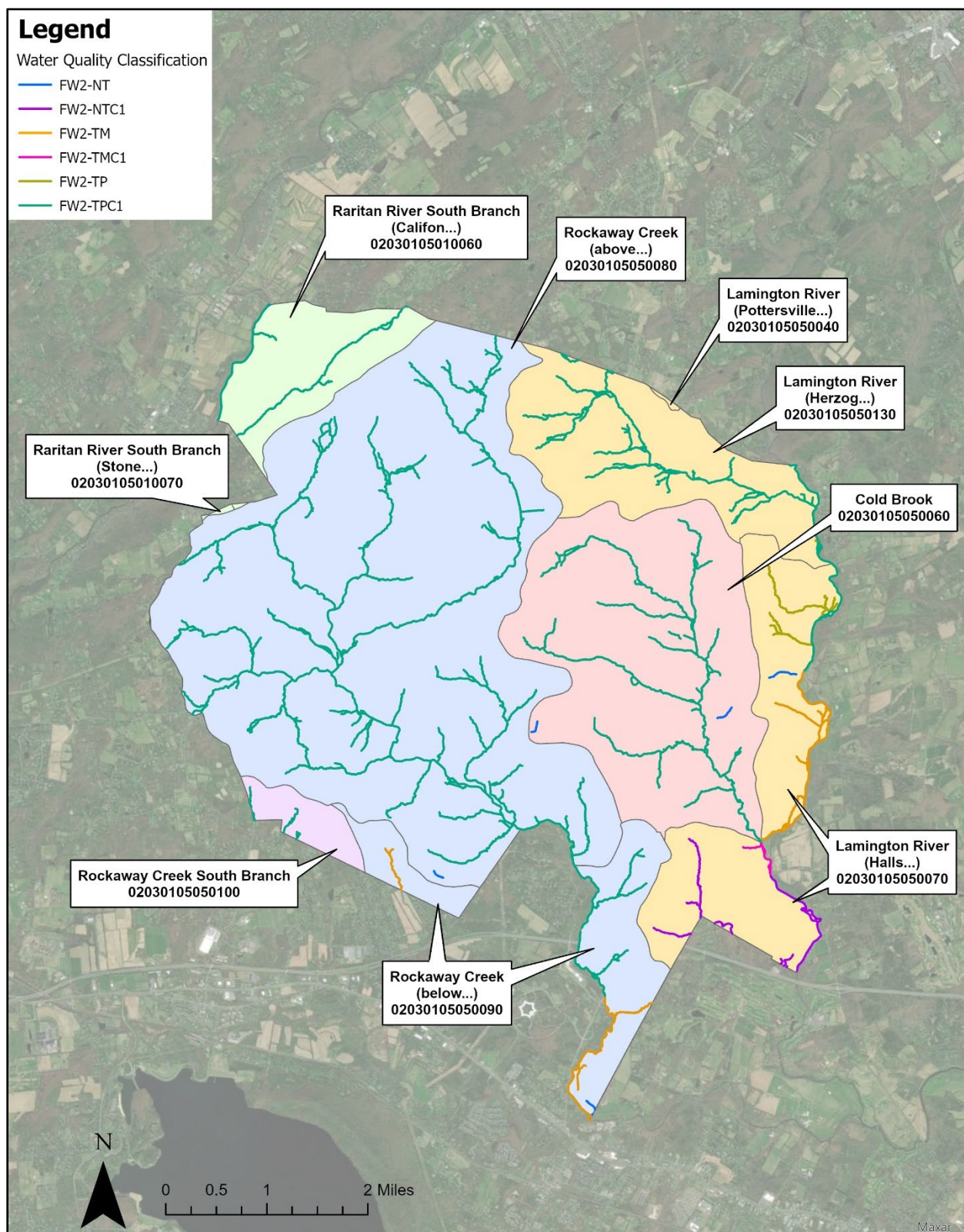


Figure 13: Water quality classification of surface waters throughout Tewksbury Township

Table 11. Water Quality Classification of Surface Waters in Tewksbury Township

Surface Water Quality Classification	Surface Water Quality Code	Miles	Percent of Municipal Streams
Freshwater 2, non-trout	FW2-NT	0.9	0.9%
Freshwater 2, non-trout, Category One	FW2-NTC1	3.8	3.7%
Freshwater 2, trout production, Category One	FW2-TPC1	86.2	84.7%
Freshwater 2, trout maintenance	FW2-TM	7.5	7.4%
Freshwater 2, trout production	FW2-TP	2.6	2.6%
Freshwater 2, trout maintenance, Category One	FW2-TMC1	0.7	0.7%