

Construction and Maintenance					Basin Information			BMP Tracking Specifications							
BMP Status	Year Planned Construction	Date Constructed	Date of last inspection	Maintenance needed?	Applicable FRP	LC TMDL Drainage Area	LC TMDL Lake Segment	Eligible for Phosphorus Credit?	BMP Type	Impervious area (acres)	Pervious Entry Method	Pervious HSG A	Pervious HSG B	Pervious HSG C	Pervious HSG D
								Yes							
Complete		10/1/2019	10/1/2019	No	Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Gravel Wetland	3.75	Total Pervious				
Final Design (100%)	2020				Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Extended Dry Detention Pond	14.40	Total Pervious				
Complete		11/5/2020	11/5/2020	No	Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Gravel Wetland	11.39	Total Pervious				
Complete					Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Underground Detention	13.89	Total Pervious				
Preliminary Design (<100%)					Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Chambers	1.95	Total Pervious				
Preliminary Design (<100%)					Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Chambers	8.71	Total Pervious				
Complete	2021	2022			n/a	Winooski River	Main Lake	Yes	Sand filter (w/ underdrain)	0.704	Total Pervious				
Complete	2021	2022			n/a	Winooski River	Main Lake	Yes	Impervious removal	1.042	By HSG	0	0.764	0	0
Complete		2016			Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Wet pond/ Created Wetland	0.48	Total Pervious				
Complete		2016			Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Wet pond/ Created Wetland	0.54	Total Pervious				
Complete		2015			n/a	Winooski River	Main Lake	Yes	Infiltration Basin	3.32	Total Pervious				
Complete		2015			n/a	Winooski River	Main Lake	Yes	Infiltration Basin	0.63	Total Pervious				
Complete		2015			n/a	Winooski River	Main Lake	Yes	Infiltration Basin	0.32	Total Pervious				
Planned					Indian Brook	Malletts Bay Direct Drainage	Malletts Bay	Yes	Impervious removal	0.17	By HSG	0.17	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Sand filter (w/ underdrain)	0.6	By HSG	0	0.86	0	0.26
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	7.86	By HSG	5.46	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.16	By HSG	0.39	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.32	By HSG	0.31	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	1.33	By HSG	0.23	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.18	By HSG	0.3	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.68	By HSG	0.64	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.33	By HSG	0.26	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.14	By HSG	0.13	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.15	By HSG	0.21	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.25	By HSG	0.77	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.15	By HSG	0.21	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.23	By HSG	0.27	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.09	By HSG	0.16	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.05	By HSG	0.2	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.26	By HSG	0.16	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.2	By HSG	0.1	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.19	By HSG	0.42	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.23	By HSG	0.24	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.23	By HSG	0.24	0	0	0
Complete		10/20/2003			n/a	Winooski River	Main Lake	No	Infiltration Basin	5.8	Total Pervious				
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.49	By HSG	0.48	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Impervious removal	0.19	By HSG	0.19	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.81	By HSG	0.88	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.43	By HSG	0.89	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.43	By HSG	0.72	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.21	By HSG	0.75	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.41	By HSG	0.32	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.31	By HSG	0.44	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.91	By HSG	0.96	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Impervious removal	0.05	By HSG	0	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.43	By HSG	0.17	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.14	By HSG	0.17	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.11	By HSG	0.2	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.19	By HSG	0.19	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.23	By HSG	0.16	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.19	By HSG	0.21	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.13	By HSG	0.1	0	0	0
Planned					n/a	Winooski River	Main Lake	Yes	Infiltration Trench	0.51	By HSG	0.27	0	0	0
Preliminary Design (<100%)					n/a	Winooski River	Main Lake	Yes	Infiltration Chambers	11.71	By HSG	20.88			
Under Construction	2024				n/a	Winooski River	Main Lake	No	Sand filter (w/ underdrain)	0.618	Total Pervious				

NOTES/ASSUMPTIONS

Gravel Wetland installed late summer 2019
 Retrofit outlet structure and armor spillway.
 Brickyard: Proposed retrofit of existing detention area with newoutlet sl
 Meeting VT 2002 Stormwater Design Standards

updated for 2022 construction by ANM, 3/17/2023

Kiln Rd. - there is a cul de sac but this area is already managed with infil
 Kiln Rd. - there is a cul de sac but this area is already managed with infil
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Unique_DI	Project_Name
1-1074 SN 00	Fairview Drive/Main St Gravel Wetland
2-0289	Countryside Cluster Homes A,B,C and Essex Parks East and West
2-0317/2-095	Mansfield Brickyard Gravel Wetland
4989-INDO	5 Corners North
2-0155	Countryside Dr Intersection
2-0187	Grove St.
TAP TA 18(2)	Acorn Circle cul-de-sac retrofit - media filter with specialized media
TAP TA 18(2)	Acorn Circle cul-de-sac retrofit - impervious removal
6006-9020.1	Taft Street S/N 001
6006-9020.1	Taft Street S/N 002
6653-9010	Village Walk POI 1
6653-9010	Village Walk POI 2
6653-9010	Village Walk POI 3
EJ-MB-001	Briar Lane cul-de-sac impervious removal
EJ-WR-001	Maplewood Lane cul-de-sac
EJ-WR-038	Tyler Drive, Wilkinson Drive - South St. intersection - retrofit/expand
EJ-WR-019	CB522 Elm St drywell
EJ-WR-018	CB521 Elm St drywell
EJ-WR-020	CB523 Elm and Jackson drywell
EJ-WR-017	CB525 Elm and Jackson drywell
EJ-WR-015	CB533 Jackson and McGregor drywell
EJ-WR-014	CB546 McGregor and Grant drywell
EJ-WR-013	CB532 MCGregor and Jackson drywell
EJ-WR-011	CB535 Grant and Jackson drywell
EJ-WR-009	CB536 Jackson drywell
EJ-WR-012	CB531 Jackson and Wrisley drywell
EJ-WR-010	CB537 Jackson and Grant drywell
EJ-WR-007	CB544 Camp drywell
EJ-WR-006	CB543 Camp drywell
EJ-WR-004	CB541 Camp drywell
EJ-WR-005	CB542 Camp drywell
EJ-WR-008	CB538 Camp and Jackson drywell
EJ-WR-002	CB754 and CB755 Oak St drywells
EJ-WR-003	CB756 Oak St drywell
3547-9010.R	Whitcomb Heights (former 1-1227)
EJ-WR-016	CB534 Jackson and Wrisley drywell
EJ-WR-026	Loubier Drive cul de sacs impervious removal
EJ-WR-022	CB90 Loubier Drive drywell
EJ-WR-024	CB92 Loubier Drive drywell
EJ-WR-023	CB91 Loubier Drive drywell
EJ-WR-025	CB757 Loubier Drive drywell
EJ-WR-029	CB1425 Killoran Drive drywell
EJ-WR-027	CB54 and CB55 Killoran Drive drywells
EJ-WR-028	CB56 and CB57 Killoran Drive drywells
EJ-WR-030	Killoran Drive cul de sac impervious removal
EJ-WR-031	CB35 Cascadnac Ave drywell
EJ-WR-032	CB36 Cascadnac Ave drywell
EJ-WR-033	CB37 Cascadnac Ave drywell
EJ-WR-034	CB42 Cascadnac and Owaissa Ave drywell
EJ-WR-035	CB43 Owaissa and Wenonah drywell
EJ-WR-036	CB44 Wenonah Ave drywell
EJ-WR-037	CB706 Wenonah & Owaissa drywell
EJ-WR-021	CB524 Elm and Jackson drywell
EJ-WR-039	Hiawatha Infiltration Gallery Retrofit
7778-INDS.A1	Crescent Connector

Group_ID Project_Description Comments Project_Benefits

		Remove paved road remaini	Just north of the Winooski-Malletts Bay watershed by
		Cul de sac and impervious r	Soils finely textured, assume sand/enhanced filter. C
		Wilkinson-'	Retrofit existing grass chann
		High-priority retrofit - limite	Adjacent to multi-use pi
		Elm Street	
		Elm Street	
		Elm Street	
		Elm Street	Install subsurface drywells ir
		Street is uncurbed with no s	Opportunity to apply a c
		Jackson Street	
		Jackson Street	
		Jackson Street	
		Jackson Street	
		Jackson Str	Install subsurface drywells ir
		Street is uncurbed with no s	Opportunity to apply a c
		Jackson Street	
		Jackson Street	
		Camp Street	
		Camp Street	
		Camp Street	Install subsurface drywells ir
		Street is uncurbed with no s	Opportunity to apply a c
		Camp Street	
		Camp Street	
		Camp Street	
		Oak Street	Install subsurface drywells ir
		Two sets of catch-basins along this street, but no cul-	
		Oak Street	
		Jackson Street	
		Loubier Dri	Install subsurface drywells ir
		Two cul-de-sacs exist along this street, the road was	
		Loubier Drive	
		Loubier Drive	
		Loubier Drive	
		Loubier Drive	
		Loubier Drive	
		Killoran Dri	Install subsurface drywells in existing catchbasin footprints, or retain catchbasins
		Loubier Drive	
		Killoran Drive	
		Killoran Drive	
		Cascadnac-	Install subsurface drywells ir
		Opportunity to apply a distributed, "invisible green ir	
		Cascadnac-Owaissa	
		Cascadnac-Owaissa	
		Cascadnac-Owaissa	
		Cascadnac-Owaissa	
		Cascadnac-Owaissa	
		Elm Street	

Permit taken over by town

Next_Steps

Dominant_Class_HSG

Total_drainage_area_acres

oundary. Low priority.	Developed Pervious - A	0.34
lverted stream crossing under cul-de-sac. Cul-de-sac is 65' diameter; impervious removal may not be feasible in terms of emergency vehicle access/turning radii.	Developed Pervious - B	1.72
Soil borings to confirm subsurface conditions, confirm utility constraints, advance conceptual design	Developed Pervious - A	13.32
	Developed Pervious - A	0.55
	Developed Pervious - A	0.63
	Developed Pervious - A	1.56
Soil borings to confirm subsurface conditions, confirm utility constraints, advance conceptual design	Developed Pervious - A	0.48
	Developed Pervious - A	1.32
	Developed Pervious - A	0.59
	Developed Pervious - A	0.27
	Developed Pervious - A	0.36
Soil borings to confirm subsurface conditions, confirm utility constraints, advance conceptual design	Developed Pervious - A	1.02
	Developed Pervious - A	0.36
	Developed Pervious - A	0.5
	Developed Pervious - A	0.25
Soil borings to confirm subsurface conditions, confirm utility constraints, advance conceptual design	Developed Pervious - A	0.25
	Developed Pervious - A	0.42
	Developed Pervious - A	0.3
Soil borings to confirm subsurface conditions, confirm utility constraints, advance conceptual design	Developed Pervious - A	0.61
	Developed Pervious - A	0.47
	Developed Pervious - A	0.47
	Developed Pervious - A	0.97
Soil borings to confirm subsurface conditions, confirm utility constraints, advance conceptual design	Developed Pervious - A	0.38
	Developed Pervious - A	1.69
	Developed Pervious - A	1.32
	Developed Pervious - A	1.15
	Developed Pervious - A	0.96
Soil borings to confirm subsurface conditions, confirm utility constraints, advance conceptual design	Developed Pervious - A	0.73
	Developed Pervious - A	0.75
	Developed Pervious - A	1.87
	Developed Pervious - A	0.05
Soil borings to confirm subsurface conditions, confirm utility constraints, advance conceptual design	Developed Pervious - A	0.6
	Developed Pervious - A	0.31
	Developed Pervious - A	0.31
	Developed Pervious - A	0.38
	Developed Pervious - A	0.39
	Developed Pervious - A	0.4
	Developed Pervious - A	0.23
	Developed Pervious - A	0.78

Pervious_area_acres Percent_impervious Cost_per_acre_of_impervious Cost_Per_kg_of_P_reduction

0.17	50.00%	\$14,706	\$17,857
1.12	34.88%	\$82,167	\$98,883
5.46	59.01%	\$21,450	\$19,000
0.39	29.09%	\$78,125	\$68,385
0.31	50.79%	\$72,500	\$65,290
0.23	85.26%	\$69,624	\$62,282
0.3	37.50%	\$75,556	\$67,119
0.64	51.52%	\$72,500	\$65,325
0.26	55.93%	\$72,121	\$65,182
0.13	51.85%	\$72,857	\$65,663
0.21	41.67%	\$74,667	\$66,674
0.77	24.51%	\$80,400	\$69,578
0.21	41.67%	\$74,667	\$66,674
0.27	46.00%	\$73,478	\$65,904
0.16	36.00%	\$75,556	\$66,975
0.2	20.00%	\$84,000	\$71,535
0.16	61.90%	\$71,538	\$64,877
0.1	66.67%	\$71,000	\$64,538
0.42	31.15%	\$77,368	\$68,015
0.24	48.94%	\$73,043	\$64,279
0.24	48.94%	\$73,043	\$64,279
0.48	50.52%	\$72,653	\$64,011
0.19	50.00%	\$52,632	\$47,619
0.88	47.93%	\$72,963	\$64,157
0.89	32.58%	\$76,512	\$66,071
0.72	37.39%	\$75,116	\$65,337
0.75	21.88%	\$82,381	\$69,319
0.32	56.16%	\$71,951	\$63,630
0.44	41.33%	\$77,097	\$67,311
0.96	48.66%	\$69,341	\$61,144
0	100.00%	\$50,000	\$41,667
0.17	71.67%	\$73,953	\$65,742
0.17	45.16%	\$91,429	\$80,110
0.2	35.48%	\$99,091	\$86,740
0.19	50.00%	\$84,737	\$75,664
0.16	58.97%	\$81,304	\$73,085
0.21	47.50%	\$84,737	\$75,536
0.1	56.52%	\$93,846	\$83,724
0.27	65.38%	\$70,980	\$63,068

BMP Identification								Maintenance	
Unique ID	Project Name	STP	Land Owner	Responsible Party	Latitude (decimal degrees)	Longitude (decimal degrees)	Previous SW permit number (if applicable)	Part of MS4/ Incorporated into MS4	Date of last inspection
Village	5 Corners North Vortech Unit		Essex Junction MS4	Essex Junction MS4	44.49403	-73.10681	4989-INDO	Yes	June 2019
	Hawthorn Circle Stormwater Pond		Essex Junction MS4	Essex Junction MS4	44.49541	-73.09774	7024-9014.A	Yes	June 2019
	Hawthorn Circle Vortech Unit		Essex Junction MS4	Essex Junction MS4	44.49566	-73.09777	7024-9014.A	Yes	June 2019
	Whitcomb Combined Dry Swale South St		Essex Junction MS4	Essex Junction MS4	44.48755	-73.13209	3547-9010.R	Yes	June 2019
	Upland/Drury Vortech Unit Brookside Ave		Essex Junction MS4	Essex Junction MS4	44.49521	-73.10668	4128-INDO	Yes	June 2019
	Whitcomb Combined Stormwater Pond Dunbar Rd		Essex Junction MS4	Essex Junction MS4	44.48459	-73.13055	3547-9010.R	Yes	June 2019
	Whitcomb Combined Stormwater Pond Ketchum Rd		Essex Junction MS4	Essex Junction MS4	44.47841	-73.12725	3547-9010.R	Yes	June 2019
Town	Lang Farm, Parcel I	Detention berm and sedimentation basin	Town	Essex Town MS4	44.495162	-73.081988	3575-9010.R	Yes	Summer 2019
	Lang Farm, Parcel H	30' Type I stone-lined ditch & 65' Type II grass-lined swale	Town	Essex Town MS4	44.493454	-73.079311	3577-9010.R	Yes	Summer 2019
	Meadows Edge	Grassed drainage swales & detention basin	Town	Essex Town MS4	44.517454	-73.062109	3324-9010.R	Yes	Summer 2019
	Forestdale	Settling tanks & an infiltration basin	Town	Essex Town MS4	44.489061	-73.055539	3574-9010.R	Yes	Summer 2019
	Perkins Bend	Grass-lined swale & underground detention structure	Town	Essex Town MS4	44.485388	-73.071100	3081-9010.R	Yes	Summer 2019
	Pinewood	Grassed Swales & special sedimentation removal catch	Town	Essex Town MS4	44.487839	-73.070893	3578-9010.R	Yes	Summer 2019
	Heritage Phase II	Stone filled trench & grass-lined swales	Town	Essex Town MS4	44.511425	-73.07924	3581-9010.R	Yes	Summer 2019
	Old Stage Village	Grass-lined swales	Town	Essex Town MS4	44.513758	-73.074400	3579-9010.R	Yes	Summer 2019
	Rivers Bend	Existing natural drainageway (with deeded easement)	Town	Essex Town MS4	44.483530	-73.069393	3580-9010.R	Yes	Summer 2019
	Pinewood, Section G	Detention basin	Town	Essex Town MS4	44.489699	-73.074954	3201-9010.R	Yes	Summer 2019
	Saybrook	Grassed swales	Town	Essex Town MS4	44.506794	-73.076251	3267-9010.R	Yes	Summer 2019
	Autumn Knoll	Grass swales, ditching, and detention basin	Town	Essex Town MS4	44.511078	-73.046996	4367-9010.R	Yes	Summer 2019
	Rec Pool Complex	Stone-lined ditching	Town	Essex Town MS4	44.507363	-73.055999	3996-9010.R	Yes	Summer 2019
	Colbert Street Treatment System	Vortechs Model 4000 stormwater swirl concentrator	Town	Essex Town MS4	44.510981	-73.127807	5710-INDO.R	Yes	Summer 2019
	Kellogg Road	Controlled outlet structure and stabilized channel	Town	Essex Town MS4	44.511006	-73.140399	5944-INDO	Yes	Summer 2019
	Police Station	Bioretention facility	Town	Essex Town MS4	44.483512	-73.097151	7002-9015	Yes	Summer 2019
	United States Postal Service	Drainage swales (UPGRADE)	USPS	Essex Town MS4	44.507162	-73.078575	1-0491	Yes	Summer 2019
	Ewing Place (Lot 3)	Grass-lined swale	Ewing Place LLC	Essex Town MS4	44.507187	-73.137333	1-0518	Yes	Summer 2019
	Ewing Place (Susie Wilson Rd - Lot 2)	Grassed and stone-lined drainage swales	Ewing Place LLC	Essex Town MS4	44.507044	-73.136202	1-0619 2-0634	Yes	Summer 2019
	Ewing Place (Lot 1)	Drainage swale	Ewing Place LLC	Essex Town MS4	44.507042	-73.136613	1-0694	Yes	Summer 2019
	Ewing Place (Lot 4)	Grass-lined swale	Ewing Place LLC	Essex Town MS4	44.507437	-73.137713	1-0761	Yes	Summer 2019
	Ewing Place (Lot 5)	Storm drainage system consisting of dry well catch basin	Town	Essex Town MS4	44.507859	-73.138283	1-0965	Yes	Summer 2019
	Ewing Place (Susie Wilson Rd)	Storm drainage system consisting of dry well catch basin	Town	Essex Town MS4	44.506823	-73.136234	1-0761	Yes	Summer 2019
	Town Market Place	Series of catch basins; via 18" pipe to rip-rapped drainag	Town	Essex Town MS4	44.507545	-73.133272	2-0925	Yes	Summer 2019
	Town Market Place	Overland flow across grassed terrain	Towne Market Place LLC	Essex Town MS4	44.507313	-73.133209	1-0552	Yes	Summer 2019
	Essex Outlets	Detention basin	Eurowest Retail Partners LI	Essex Town MS4	44.505705	-73.080697	1-0775 2-0613	Yes	Summer 2019
	Essex Outlets	Detention basin	Eurowest Retail Partners LI	Essex Town MS4	44.505947	-73.083503	1-0775 2-0613	Yes	Summer 2019
	Essex Outlets	Detention basin	Hannaford Brothers LLC	Essex Town MS4	44.506363	-73.084832	1-1307	Yes	Summer 2019
	Woodlands I	Storm drainage system consisting of catch basins and un	Town	Essex Town MS4	44.500341	-73.076811	1-0667	Yes	Summer 2019
	Woodlands II	Storm drainage system consisting of catch basins and un	Town	Essex Town MS4	44.495162	-73.081988	1-1186	Yes	Summer 2019
	Kimberly Drive	Pipe discharge through a headwall	Town	Essex Town MS4	44.503103	-73.129354	1-0250	Yes	Summer 2019
	David Drive	Storm drainage system to a stone-lined ditch	Town	Essex Town MS4	44.508291	-73.135909	1-0896	Yes	Summer 2019
	The LDS Church	Detention basin #1	LDS Church	Essex Town MS4	44.501314	-73.081882	1-1319	Yes	Summer 2019
	Links at Lang Farm	Grassed swale to a vegetated wetland	Why Not LLC	Essex Town MS4	44.503040	-73.082839	1-1371	Yes	Summer 2019
	The Commons	Constructed wetland	The Commons	Essex Town MS4	44.497978	-73.083084	1-1381	Yes	Summer 2019
		Storm drainage system consisting of a catch basin system	The Commons	Essex Town MS4	44.499480	-73.082764	1-1381	Yes	Summer 2019
	VT Systems, Inc.	Detention basin	VT Systems, Inc.	Essex Town MS4	44.506633	-73.131574	1-1463	Yes	Summer 2019
	Baymont Inn & Suites	Storm drainage system consisting of catch basins and pi	Handy's Hotel and Rentals	Essex Town MS4	44.506184	-73.135441	1-1496	Yes	Summer 2019
Shillingford Crossing	Stormwater infiltration system	Town	Essex Town MS4	44.504992	-73.123547	2-0633	Yes	Summer 2019	
The Edge	Overland flow across grassed terrain	Sports & Fitness Edge Inc	Essex Town MS4	44.511213	-73.134696	1-1143	Yes	Summer 2019	
Pearl Street Park	Overland flow across grassed terrain	Town	Essex Town MS4	44.501313	-73.129451	2-1045	Yes	Summer 2019	
Town Highway Garage	Retention Pond	Town	Essex Town MS4	44.504448	-73.052792		Yes	Summer 2019	

					Owned by MS4			
	Permit #	System Name	STP	Location	STP	System Name	Location	Permit #
Applied to Incorporate	3575-9010.R	Lang Farm, Parcel I	Detention berm and sedimentation basin					
	3577-9010.R	Lang Farm, Parcel H	30' Type I stone-lined ditch & 65' Type II grass-lined swale					
	3324-9010.R	Meadows Edge	Grassed drainage swales & detention basin		Retention Pond	Meadow's Edge	Clover Drive	3324-9010.R
	3574-9010.R	Forestdale	Settling tanks & an infiltration basin		Retention Pond	Saxonhollow Drive Pond	Saxonhollow Drive	3574-9010.R
	3081-9010.R	Perkins Bend	Grass-lined swale & underground detention structure		Swirl Separator	Pinewood Drive	Pinewood Dr/Riverview Dr	3081-9010.R
	3081-9010.R	Perkins Bend	Grass-lined swale & underground detention structure		Stormwater Pond	Pinewood Drive	Pinewood Dr/Riverview Dr	3081-9010.R
	3578-9010.R	Pinewood	Grassed Swales & special sedimentation removal catch basins					
	3581-9010.R	Heritage Phase II	Stone filled trench & grass-lined swales		Retention Pond	Craftsbury Court	Craftsbury Court	3581-9010.R
	3579-9010.R	Old Stage Village	Grass-lined swales					
	3580-9010.R	Rivers Bend	Existing natural drainageway (with deeded easement)					
	3201-9010	Pinewood, Section G	Detention basin					
	3267-9010.1R	Saybrook	Grassed swales		Stormwater Pond	Saybrook Road	Saybrook Rd	3267-9010.R
	4367-9010.R	Autumn Knoll	Grass swales, ditching, and detention basin		Retention Pond	Autumn Knoll	Irene Ave	4367-9010.R
	3996-9010.R	Rec Pool Complex	Stone-lined ditching					
	5710-INDO.R	Colbert Street Treatment System	Vortechs Model 4000 stormwater swirl concentrator		Swirl Separator	Colbert Street Swirl Separator	Colbert St and Abare Ave	5715-INDO.R1
	5944-INDO	Kellogg Road	Controlled outlet structure and stabilized channel		Retention Pond	Kellogg Road Retention Pond	Kellogg Rd	5944-INDO.R
7002-9015	Police Station	Bioretention facility						
Already incorporated	1-0491	United States Postal Service	Drainage swales (UPGRADE)					
	1-0518	Ewing Place (Lot 3)	Grass-lined swale	Ewing Place				
	1-0619	Ewing Place (Susie Wilson Rd - Lot 2)	Grassed and stone-lined drainage swales	Ewing Place				
	1-0694	Ewing Place (Lot 1)	Drainage swale	Ewing Place				
	1-0761	Ewing Place (Lot 4)	Grass-lined swale	Ewing Place				
	1-0965	Ewing Place	Storm drainage system consisting of dry well catch basins	Ewing Place				
	2-0634	Ewing Place (Susie Wilson Rd)	Storm drainage system consisting of dry well catch basins	Ewing Place				
	2-0925	Town Market Place	Series of catch basins; via 18" pipe to rip-rapped drainage ditch	Market Place				
	1-0552	Town Market Place	Overland flow across grassed terrain	Pearl Street				
	1-0775	Essex Outlets	Detention basin	Rte 15	Retention Pond	Essex Outlets	Essex Outlets Shopping Center	7025-9014.A
	2-0613	Essex Outlets	Detention basin	Rte 15	Retention Pond	Essex Outlets	Essex Outlets Shopping Center	7025-9014.A
	1-1307	Essex Outlets	Detention basin	Rte 15	Retention Pond	Essex Outlets	Essex Outlets Shopping Center	7025-9014.A
	1-0667	Woodlands I	Storm drainage system consisting of catch basins and underdrain stone trenches that outlet to a drainage swale	Lang Drive Hagan Drive Lida Drive Repa Drive Essex Way				
	1-1186	Woodlands II	Storm drainage system consisting of catch basins and underdrain stone trenches that outlet to a drainage swale	Sydney Drive Bashaw Drive Debra Drive				
	1-0250	Kimberly Drive	Pipe discharge through a headwall	Kimberly Drive				
	1-0896	David Drive	Storm drainage system to a stone-lined ditch	David Drive				
	1-1319	The LDS Church	Detention basin #1	Essex Way	Stormwater Pond	LDS Church Pond	Essex Way	7025-9014.A
			Detention basin #2	Essex Way	Stormwater Pond	LDS Church Pond	Essex Way	7025-9014.A
	1-1371	Links at Lang Farm	Grassed swale to a vegetated wetland	Essex Way	Detention Pond	Sydney Drive Pond	Sydney Drive	7025-9014.A
	1-1381	The Commons	Detention basin	Essex Way	Stormwater Pond	The Commons	Essex Way	7025-9014.A
			Constructed wetland	Essex Way	Stormwater Pond	The Commons	Essex Way	7025-9014.A
	1-1463	VT Systems, Inc.	Storm drainage system consisting of a catch basin system to a drywell	Market Place	Detention Pond	Baymont Inn Pond	Susie Wilson Rd	7025-9014.A
	1-1496	Baymont Inn & Suites	Detention basin	Susie Wilson Road				
	2-0633	Shillingford Crossing	Storm drainage system consisting of catch basins and pipes that outlet to a drainage swale	Devon Hill Court Southdown Court Hampshire Court Dartmoor Court Suffolk Lane				
	1-1143	The Edge	Stormwater infiltration system	Gauthier Drive				
	2-1045	Pearl Street Park	Overland flow across grassed terrain	Pearl Street				
					Retention Pond	Highway Garage Pond	Sand Hill Road	7025-9014.A

Practice Type	Infiltration Rate		0.00	0.10	0.20	0.40	0.60	0.80	1.00	1.50	2.00
Extended Dry Detention Pond		Extended Dry Detention Pond	0%	3%	6%	8%	9%	11%	12%	13%	14%
Bioretention (infiltrating)	8.27 in/hr	Bioretention (infiltrating) 8.27 in/hr	0%	59%	81%	96%	99%	100%	100%	100%	100%
Bioretention (infiltrating)	2.41 in/hr	Bioretention (infiltrating) 2.41 in/hr	0%	46%	67%	87%	94%	97%	98%	100%	100%
Bioretention (infiltrating)	1.02 in/hr	Bioretention (infiltrating) 1.02 in/hr	0%	41%	60%	81%	90%	94%	97%	99%	100%
Bioretention (infiltrating)	0.52 in/hr	Bioretention (infiltrating) 0.52 in/hr	0%	38%	56%	77%	87%	92%	95%	98%	99%
Bioretention (infiltrating)	0.27 in /hr	Bioretention (infiltrating) 0.27 in /hr	0%	37%	54%	74%	85%	90%	93%	98%	99%
Bioretention (infiltrating)	0.17 in/hr	Bioretention (infiltrating) 0.17 in/hr	0%	35%	52%	72%	82%	88%	92%	97%	99%
Bioretention (w/ underdrain)		Bioretention (w/ underdrain)	0%	14%	25%	37%	44%	48%	53%	58%	63%
Dry Swale (infiltrating)	8.27 in/hr	Dry Swale (infiltrating) 8.27 in/hr	0%	59%	81%	96%	99%	100%	100%	100%	100%
Dry Swale (infiltrating)	2.41 in/hr	Dry Swale (infiltrating) 2.41 in/hr	0%	46%	67%	87%	94%	97%	98%	100%	100%
Dry Swale (infiltrating)	1.02 in/hr	Dry Swale (infiltrating) 1.02 in/hr	0%	41%	60%	81%	90%	94%	97%	99%	100%
Dry Swale (infiltrating)	0.52 in/hr	Dry Swale (infiltrating) 0.52 in/hr	0%	38%	56%	77%	87%	92%	95%	98%	99%
Dry Swale (infiltrating)	0.27 in /hr	Dry Swale (infiltrating) 0.27 in /hr	0%	37%	54%	74%	85%	90%	93%	98%	99%
Dry Swale (infiltrating)	0.17 in/hr	Dry Swale (infiltrating) 0.17 in/hr	0%	35%	52%	72%	82%	88%	92%	97%	99%
Dry Swale (w/ underdrain)		Dry Swale (w/ underdrain)	0%	14%	25%	37%	44%	48%	53%	58%	63%
Gravel Wetland		Gravel Wetland	0%	19%	26%	41%	51%	57%	61%	65%	66%
Infiltration Chambers	8.27 in/hr	Infiltration Chambers 8.27 in/hr	0%	50%	75%	94%	98%	99%	100%	100%	100%
Infiltration Chambers	2.41 in/hr	Infiltration Chambers 2.41 in/hr	0%	33%	55%	81%	91%	96%	98%	100%	100%
Infiltration Chambers	1.02 in/hr	Infiltration Chambers 1.02 in/hr	0%	27%	47%	73%	86%	92%	96%	99%	100%
Infiltration Chambers	0.52 in/hr	Infiltration Chambers 0.52 in/hr	0%	23%	42%	68%	82%	89%	94%	98%	99%
Infiltration Chambers	0.27 in /hr	Infiltration Chambers 0.27 in /hr	0%	20%	37%	63%	78%	86%	92%	97%	99%
Infiltration Chambers	0.17 in/hr	Infiltration Chambers 0.17 in/hr	0%	18%	33%	57%	73%	83%	90%	97%	99%
Infiltration Trench	8.27 in/hr	Infiltration Trench 8.27 in/hr	0%	50%	75%	94%	98%	99%	100%	100%	100%
Infiltration Trench	2.41 in/hr	Infiltration Trench 2.41 in/hr	0%	33%	55%	81%	91%	96%	98%	100%	100%
Infiltration Trench	1.02 in/hr	Infiltration Trench 1.02 in/hr	0%	27%	47%	73%	86%	92%	96%	99%	100%
Infiltration Trench	0.52 in/hr	Infiltration Trench 0.52 in/hr	0%	23%	42%	68%	82%	89%	94%	98%	99%
Infiltration Trench	0.27 in /hr	Infiltration Trench 0.27 in /hr	0%	20%	37%	63%	78%	86%	92%	97%	99%
Infiltration Trench	0.17 in/hr	Infiltration Trench 0.17 in/hr	0%	18%	33%	57%	73%	83%	90%	97%	99%
Porous Pavement		Porous Pavement									
Sand filter (infiltrating)	8.27 in/hr	Sand filter (infiltrating) 8.27 in/hr	0%	50%	75%	94%	98%	99%	100%	100%	100%
Sand filter (infiltrating)	2.41 in/hr	Sand filter (infiltrating) 2.41 in/hr	0%	33%	55%	81%	91%	96%	98%	100%	100%
Sand filter (infiltrating)	1.02 in/hr	Sand filter (infiltrating) 1.02 in/hr	0%	27%	47%	73%	86%	92%	96%	99%	100%
Sand filter (infiltrating)	0.52 in/hr	Sand filter (infiltrating) 0.52 in/hr	0%	23%	42%	68%	82%	89%	94%	98%	99%
Sand filter (infiltrating)	0.27 in /hr	Sand filter (infiltrating) 0.27 in /hr	0%	20%	37%	63%	78%	86%	92%	97%	99%
Sand filter (infiltrating)	0.17 in/hr	Sand filter (infiltrating) 0.17 in/hr	0%	18%	33%	57%	73%	83%	90%	97%	99%
Sand filter (w/ underdrain)		Sand filter (w/ underdrain)	0%	14%	25%	37%	44%	48%	53%	58%	63%
Infiltration Basin	8.27 in/hr	Infiltration Basin 8.27 in/hr	0%	59%	81%	96%	99%	100%	100%	100%	100%
Infiltration Basin	2.41 in/hr	Infiltration Basin 2.41 in/hr	0%	46%	67%	87%	94%	97%	98%	100%	100%
Infiltration Basin	1.02 in/hr	Infiltration Basin 1.02 in/hr	0%	41%	60%	81%	90%	94%	97%	99%	100%
Infiltration Basin	0.52 in/hr	Infiltration Basin 0.52 in/hr	0%	38%	56%	77%	87%	92%	95%	98%	99%
Infiltration Basin	0.27 in /hr	Infiltration Basin 0.27 in /hr	0%	37%	54%	74%	85%	90%	93%	98%	99%
Infiltration Basin	0.17 in/hr	Infiltration Basin 0.17 in/hr	0%	35%	52%	72%	82%	88%	92%	97%	99%
Wet pond/ Created Wetland		Wet pond/ Created Wetland	0%	14%	25%	37%	44%	48%	53%	58%	63%
Grass Channel		Grass Channel	0%	2%	5%	9%	13%	17%	21%	29%	36%
Underground Detention		Underground Detention	0%	3%	6%	8%	9%	11%	12%	13%	14%