Minimu	n Control Measure Reporting					
GP Part 6.2	MCM Requirements	Measurable Goal	Description of how requirement was met	List attachments if applicable	Activities planned for next year	Proposed change in BMP or measurable goal?
	· · ·		MM#1: Public Education and Outreach on Stormwater Impacts		. ·	
1.c. (1)	Website maintained with locally relevant stormwater information	Number of updates made; number of visits to the website	Updated website to include four subpages focusing on 1) reducing and eliminating runoff 2)working collaboratively 3) Restoration and Control Plans 4) Resources Added info about Adopt-a-drain program	https://www.essexjunctic n.org/departments/stor mwater	2 Add SW Ordinance and SW Utility page	
1.c (2)	Maintain a program to identify opportunities and provide technical assistance on Low Impact BMPs		Land Development Code was adopted in June 2023 after a comprehensive review and changes made by CCRPC, staff and City Planning Commission			
1.c (3)	provide technicar assistance on cow impact dwirs	Participate in and provide financial support for operation of the regional Rethink Runoff campaign consisting generally of periodic advertising throughout each year supplemented by a survey of residents every 5 years to track reported behavior with regards to residential stormwater BMPs via an annual report provided by the Chittenden County RPC's subcontractor. The permittee will document annual number of site visits to www.rethinkrunoff.org as well as well as other metrics.			Develop SW Ordinance	
	Participate in a regional stormwater education strategy		http://rethinkrunoff.org/ Pay annual dues set based on program needs, range from \$6,000-\$7,500 per community plus staff time to co	MCM#1_2023_AnnualRe		
Other	or develop an MS4 specific program	Number of brochures handed out	chair committee and attend meetings est. \$2,000 Updated brochure created and put in display rack at main Municipal office. Posted on City website a PR titled "Dog Waste and Composting:	port_RethinkRunoff		
	Create educational brochure about pet waste and water quality		A reminder for a Heathier City", using info posted on Rethink Runoff to address animal waste concerns from residents this summer.			
Other	Provide biodegradable pet waste bags to the community	Number of bags purchased or distributed	Purchased 12000 pet waste for community dispensers along walking paths. Basket with Rethink Runoff branded biodegradable pet waste bags and dispensers, sign with scoop the poop reminder and pet waste brochure at municipal office and library continuously kept stocked. Bags handed out with annual dog licensing for City residents at municipal office.		Continue same practices.	
Other		Number of pet waste dispensers				
Other	Install pet waste dispensers	Number of signs	2 along bike path in City		Continue same practices. Inventory # of signs and GPS	
	Install signs with the message "pick up after your pet"	, , , , , , , , , , , , , , , , , , ,	No new signs were posted in 2023. Approximately 12 posted around municipality.		locations	
Other	Provide educational talks about the importance of water quality including virtual or physical tours of the Wastewater Treatment Facility	Number of classroom visits, virtual tours, or tours given; number of students	13 WWTF tours given which highlight the difference between SW and WW reaching 105 people. 3 Stormwater only talks given reaching 20 people.		Include link on website to request a tour	
Other	Review of Land use codes to ensure consistency with LID practices as they apply to community and compliance goals	Percentage of land use codes reviewed	The planning commission in partnership with CCRPC spent 2021 & 2022 proposing updates for the LDC by reviewing section by section. Stormwater section was updated to focus on LID and infiltration practices including P tracking. The changes were adopted in 2023.		Develop SW Ordinance	
Other	Review of site plans to ensure incorporation of LID and BMPs in compliance with local regulations	Number of site plans reviewed	7			
Other	Incorporate LID into municipal projects	Number of projects retrofitted	0.00			
			MM#2: Public Involvement and Participation	1	1	
2.d Other	Participate in a regional stormwater public involvement and participation strategy or develop an MS4 specific program Participate in Vermont Green-up Day or organize	Participate in a regional stormwater public involvement and participation strategy or develop an MS4 specific program Report tons of trash and other	http://rethinkrunoff.org/the-stream-team/ Participate and pay for in Adopt-a-drain initiative	MCM#2_2023_AnnualRe port_RethinkRunoffStrea mTeam		
	stream clean-up day	materials collected	Participated in Green-up day collecting 0.4 tons of trash and 6 tires. We also picked up 850 Christmas trees in January.			
		1	MM#3: Illicit Discharge Detection and Elimination	1	1	1
3.a (1)	Develop and maintain a GIS or AutoCAD map of the storm sewers in the regulated MS4 showing all outfalls	Number of outfalls field verified; number of map updates made	Two summer interns were hired whose main task was to inspect all outfalls and permitted catch basins plus some non-permitted. They used Field Collector which is a ArcGIS app and logging any changes needed to map. These were then reviewed updated by CCRPC who is providing the City GIS support.			
3.a (2)	Develop ordinance or policy prohibiting non- stormwater discharges and implement enforcement procedures	Status report of proposed changes and approved changes to local regulation	See chapter 7 pg. 208 of pdf or page 190 of the LDC	https://www.essexjunctic n.org/fileadmin/files/Ord nances_Codes/Land_Dev elopment_Code/LDC_Co mplete_20230705.pdf	2	
3.a (3)	Develop and implement a plan to detect and address non-stormwater discharges	Number of discoveries or complaints; Number resolve; Number of water quality test conducted or samples collected	Number of discovers: 1 Number of Resolved: 1 Public Works truck spilt diesel along curb as it tipped over in the bed of the paving pick-up and driver did not notice right away. It was reported by a resident. Public works put speedy dry on the spill and put oil pigs in surrounding catch basins. The used the street sweeper to clean up the speedy dry.			

3.a (4)						
		Number of door tags placed;				
		number of IDDE brochures handed				
	Inform public on the dangers of illegal discharges	out; number of public notices	Number of door tags placed: 0 Number of IDDE brochures handed out: 1 Number of public notices: 0			
3.a (6)	Status of monitoring activities:					
	Outfalls Inspected:		150 outfalls-Pictures taken, notes of any maintenance needed in database			
	Number of dry-weather samples taken:		0		40 outfalls will be sampled	
					Conducting round 3 of tv of lines	
	Feet of stormwater drainage pipe inspected:		Closed Circuit TV stormwater lines as part of a grant received. Approximately 200 pipes		and applied for 4th round	
	Discharges Detected		0			
	Discharges Corrected:		0			
Other	Review of Stormwater Ordinance and Land	Status report of proposed changes				
	Development Code to effectively prohibit illicit	and approved changes to local				
	discharge	regulation	LDC already has an illicit discharge section and was updated as part of the 2023 edition		Develop SW Ordinance	
			MM#4: Construction Site Stormwater Runoff Control	ŧ.		•
4.a (1)	Develop and implement procedures to ensure that	Status report of proposed changes				
	construction activities undertaken by the MS4 are	& approved changes to local				
	properly permitted	regulation	Follow internal procedures including what is outline in the LDC, grant funding procedures to bring projects from 100% design to installation			
	Number of permitted MS4 construction projects:		2 1)Brickyard Culvert replacement 2) Crescent Connector			
4.a (2)	Review existing policies to determine effectiveness,	Status report of proposed changes				
	consistency with state standards; Amend for	& approved changes to local				
	consistency with state standards	regulation	Reviewed, made changes and incorporated into LDC 2023		Develop SW Ordinance	
4.a (3)		Status report of proposed changes				
	Develop and implement ordinance that regulates earth	& approved changes to local				
	disturbance <1ac	regulation	Reviewed, made changes and incorporated into LDC 2023		Develop SW Ordinance	
	Number of projects with <1ac of disturbance subject to		0			
011	MS4 requirements:					
Other						
			Approx. 80/project (daily) during the construction of the Brickyard Culvert replacement project and Crescent Connector. The inspections			
			were conducted full time by Hamlin Engineers who served as construction site inspectors for the project but staff checked in on the site			
	Inspect construction sites for compliance with	Number of construction site	during the construction.			
	stormwater construction permits	inspections			Crescent Connector	
Other	Provide erosion control brochures to zoning permit				Have summer interns update	
•	applicants	Number of brochures handed out	30 Low Risk handbooks/Erosion control brochures		brochure	
		•	MM#5: Post Construction Stormwater Management for New Development and Redevelopment		•	
5 d	Review existing policies to determine effectiveness					
5.d	Review existing policies to determine effectiveness,					
5.d	consistency with state standards, opportunities for LID,	Status report of proposed changes				
5.d	consistency with state standards, opportunities for LID, and opportunities for changes to street and parking	Status report of proposed changes				
5.d	consistency with state standards, opportunities for LID, and opportunities for changes to street and parking requirements; Amend for consistency with state	& approved changes to local	Reviewed, made changes and incorporated into LDC 2023		Develop SW Ordinance	
	consistency with state standards, opportunities for LID, and opportunities for changes to street and parking requirements; Amend for consistency with state standards		Reviewed, made changes and incorporated into LDC 2023		Develop SW Ordinance	
5.d 5.e	consistency with state standards, opportunities for LID, and opportunities for changes to street and parking requirements; Amend for consistency with state standards Develop and implement procedures to identify projects	& approved changes to local	Reviewed, made changes and incorporated into LDC 2023		Develop SW Ordinance	
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	consistency with state standards, opportunities for LID, and opportunities for changes to street and parking requirements; Amend for consistency with state standards Develop and implement procedures to identify projects that disturb >1ac but do not require a state post- construction permit	& approved changes to local	Reviewed, made changes and incorporated into LDC 2023 Reviewed, made changes and incorporated into LDC 2023		Develop SW Ordinance Develop SW Ordinance	
	consistency with state standards, opportunities for LID, and opportunities for changes to street and parking requirements; Amend for consistency with state standards Develop and implement procedures to identify projects that disturb >1ac but do not require a state post-	& approved changes to local			·	
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5.e 5.f 5.g (1) 5.g (2) 6.b (2)	consistency with state standards, opportunities for LID, and opportunities for changes to street and parking requirements; Amend for consistency with state standards Develop and implement procedures to identify projects that disturb >1ac but do not require a state post- construction permit Number of projects >1ac of disturbance <1ac of impervious: Adopt an ordinance or policy that requires projects that disturb >1ac to utilize a combination of structural, non- structural, and low impact BMPs and ensure long-term maintenance Develop and implement procedures for inspecting projects subject to the MS4's ordinance Number of STPs (without state permits) inspected by MS4: Develop and implement procedures to ensure that development activities undertaken by the MS4 are properly permitted Conduct stormwater training for staff Implement controls for reducing or eliminating the discharge of pollutants from the MS4 STPs incorporated into the MS4 Inspections performed on filet vehicles, buildings, garages, parks, open spaces Catch basin cleaning	& approved changes to local regulation Number of post-construction site inspections conducted	Reviewed, made changes and incorporated into LDC 2023 0 Reviewed, made changes and incorporated into LDC 2023 0 Trained summer interns to conduct periodic inspections especially after heavy rain event- 7 inspections 3 Follow internal procedures including what is outline in the LDC, grant funding procedures to bring projects from 100% design to installation 3 MM#6: Pollution Prevention and Good Housekeeping for Municipal Operations 1 Listened to webinars related to wetland permitting, salt use reduction, MS4 Subcommittee and CWAC presentations 1 List in BMP tracking table 1 List in BMP tracking table 2 Continuous part of operations at our Public Works garage 2 Complete 'Non Structural Tab' 2		Develop SW Ordinance	
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		hazardous waste in compliance with CSWD requirements; provide			
		abeamentation of compliance,	PW picked up 850 Christmas trees. Made appointments at CSWD to bring special waste like electronics, waste oil, oily rags, waste glycol. Usually make 1-2 runs per year. Also recycle metal and wood at local disposal facilities.		
		tons of waste disposed	usually make 1-2 runs per year. Also recycle metal and wood at local disposal admities.		
C	Develop and implement procedures for proper disposal				
a	of wastes				
6.c P	Prohibit use of phosphorus containing fertilizers on				
fa	facility operations unless warranted by a soil test;				
s	submit copy of test		No fertilizer was used on municipal owned properties		
6.d P	Participate in the Agency's Municipal Compliance	Provide documentation of	As reported in 2019 Annual report received an email from Ed Antczak an Environmental Program Manager with DEC this program is no		
A	Assistance Program (or other audit program) for	compliance	longer in existence. "The MCAP Program, overseen by the Environmental Assistance Office, ended several years ago. The last database		
n	municipal garages		entry for an on-site visit was 2013. "		
Other II		Number of STP inspections;			
		Number of STPs maintained	# CB inspected: 600 # OF inspected: 200 #STP inspected: 7 #cubic yard material removed from STP: 3.5 #CB cleaned: 76 #cubic yards		
			material removed from CBs: 69 List of OF need ditching established. Securing easements or access to complete work.		
Other II	installation of STPs	Number of STPs installed	0		
Other II	Installation of retrofitted STPs	Number of STPs retrofitted	0		
Other II	nventory and Installation of "No Dumping, Drains to	Number of "No Dumping, Drains to			
v	Waterways" markers or painted stencils on catch basins				
		Number of basins stenciled			
			Inventory of where markers are located		
Other C	Continue the Joint Stormwater Coordination Committee	Number of times met or informed			
		the committee of stormwater			
		progress via email or mailings			
			0- This committee is discontinued with the separation of the two communities		Remove in 2023
		Annual stormwater operating	Fiscal Year 2024 \$167,434, this is the first year in which the City SW budget was fully part of the general fund and not spilt with the Town of	A SW utility will be launched in	
ir	ncluding BMP implementation	budget by fiscal year	Essex due to full separation of the two communities	late 2024	

Yes as part of the reapplication due March 26, 2024
No Water Quality Sampling was performed in 2023
Pluck/WNRCD/CCRPC for MM1/MM2
\$167,434

Other information, if applicable

Impaired Waters Response Plan		
Impaired Stream		
Impairment	i.e. Chloride	
Status of implementation		
Planned activities for upcoming year		
Other information, if applicable		

* Optional response.

Non Structural BMP Reporting

Complete Table 1 or 2, depending on tracking method used by MS4

Table 1. Area tracking method			
Sub Area Name (Lake segment, route,			
etc.)	Mallet's Bay	Main Lake	
Area of streets swept (acres)	67.36	135.87	
P Load from Streets where sweeping			
occurs (kg/year)	45.6	108.97	
Sweeper Frequency	Monthly	Monthly	Monthly
Sweeper Technology	Vacuum Assisted	Vacuum Assisted	
Year sweeping started	2008	2008	
If weekly or monthly, number of			
months streets are swept	8	8	
Phosphorus Credit	2.13%	2.13%	
Phosphrous Reduction from Street			
Sweeping (kg/year)	0.9728	2.324693333	
Catch Basin Cleaning			
P Load from Streets where catch basin			
cleaning occurs (kg/year)			
Phosphorus Credit	2%	2%	2%
Phosphrous Reduction from Catch			
Basin Cleaning(kg/year)			

Table 2. Measurement of material tracking met	hod
Combined dry weight of material collected (kg)	
OR Cubic yards of material collected	
Number of sediment samples taken	
Lab where samples were processed	
Record the average TP result	
Was a particle size analysis done?	
Please attach results from the lab	

**There is currently no approved accounting methodology based on weight or volume of material collected. Should a method be developed, DEC anticipates information like that in Table 2 could be required.

Table 3. Phosphorus Reduction Factor				
	2/year (spring and fall)	Monthly	Weekly	4X in the fall
Mechanical Broom	1%	3%	5%	17%
Vacuum Assisted	2%	4%	8%	17%
High Efficiency Regenerative Air-Vacuum	2%	8%	10%	17%

2023 Data

2023 Data		
69		
76		
3		

102
732.5

Flow Restoration Plan Implementation			
	Indian Brook	Sunderland Brook	
	All projects needed to meet the targets for Indian Brook in the City	No actions were taken on the FRP for Sunderland Brook as the	
	have been completed as of 2020. The Town of Essex still has one	STPs currently in place demonstrate the City and Town is	
Summary of actions taken to implement FRP	outstanding project-LDS Church which is to be constructed in 2024.	exceeding the high flow target. See State approved FRP for	
components		more info.	
What is the MS4's overall status in	City owned project-100%, Town has 1 remaining project. Overall		
implementing the FRP?	95%	100%	
Summary of BMP implementation for the next			
calendar year, if any.	0	0	
Assessment of ability to meet outstanding	None		
schedule items		None	

Stream Flow Monitoring		
, , ,	Yes. We hired Stone Environmental to continue stream flow	
monitoring?	monitoring of Indian Brook after the State contract expired.	

Steam Corridor Protection	
Ordinance or regulation adopted to protect	https://www.essexjunction.org/fileadmin/files/Ordinances Codes/
and regulate development in sw impaired	Land Development Code/LDC Complete 20230705.pdf
water stream corridors	

Phosphorus Control Plan Development (PCP)	
Road Erosion Inventory (REI)	CCRPC uploaded to portal on City of Essex Jct behalf
Are there any segments on the MRGP Implementation Table	There is some conflicting data that CCRPC needs to update on City behalf in
portal that are incomplete? If so, please describe how the data	Implementation Table regarding project completion timelines and erosion
will be completed.	removed, emailed 3/27/2024
Roads and Outlets planned for upgrade in calendar year 2023.	EJCT034 with associated road segment 1337.1 located on Athens Dr was
	completed in 2023.
Extent of street sweeping and catch basin cleaning	See 'Non-structural tab'
Extent of stormwater BMP implementation	See 'BMP Tracking Table'
What is the MS4's overall status in implementing the PCP?	We completed the Acorn cul-de-sac retrofit in 2022. We installed groundwater
	monitoring wells in a potential PCP project area. Using the MS4 formula grant
	to develop a large underground infiltration project at Hiawatha School
	property just outside the City ROW
Assessment of the ability to meet outstanding schedule items	Mallet's Bay structural and non structural practices implemented is showing
	exceed target by large margin of safety. More work to do in Main lake but
	have some potential projects at concept level
List of '3 acre sites' that have been taken over by the MS4 in the	
past calendar year.	None
Has the additional loading from privately owned land associated	
with the 3-acre sites been addressed in the phosphorus control	
plan? If not describe the MS4s plan to address the additional	
target.	No because we are not partnering with any private 3-acre sites at this time.