BMP Tracking Table Instructions

Last updated 3/13/2020

*phosphorus calcs were not working for storage depths <0.1" past the first row. This has been fixed.

The workbook is designed to track stormwater practices that are owned or controlled by an MS4. There are two tabs:

- BMP P Tracking Table – used to track practice maintenance, construction, and phosphorus accounting of practices included in a phosphorus control plan (PCP) or flow restoration plan (FRP).
- Maintenance – used to track maintenance of practices that are not included in a phosphorus control plan or flow restoration plan, but the MS4 has taken full legal responsibility for.

Some cells have a dropdown that appear when the cell is selected. Please select one of the values from the list, rather than typing in a value manually. If a value is input that doesn't match one of the expected values, formulas in the workbook may break.

Do not put anything in cells that have been grey out . T s could break equations.

If the appropriate FRP Watershed is selected, the drainage area and lake segment will autofill, although it may not work if you delete the cell contents. Drainage areas and Lake Segments can be found on the Natural Resources Atlas (linked below) by selecting ANR Basemap Data> Lake Segment Basins. Stormwater Impaired Watersheds are found under Stormwater>Stormwater Impaired Watersheds.

http://anrmaps.vermont.gov/websites/anra5/

Some cells of the worksheet are locked to protect the formulas. Where this is the case , the field name is marked with an *****. If errors are discovered please contact:

emily.schelley@vermont.gov

What can be included for phosphorus credit?

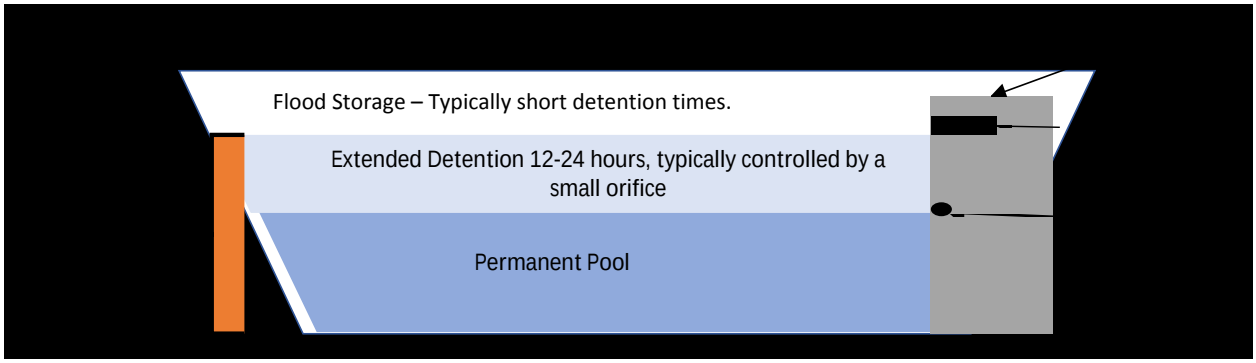
- Increase in treatment built during or after 2002 on existing impervious
- Treatment of new impervious after 2010 that was not required to obtain a state stormwater permit

Storage Volumes

The storage volume is the maximum amount of water that a practice can hold at one time. The storage volume that should be used for credit calculations is typically the volume of water can hold during storms up to the 1-year return storm. Some practices are designed to provide attenuation and safe passage of larger storms, such as the 10- or 100-year return storm; however, this additional volume typically does not stay in the practice long enough to receive much treatment and shouldn't be included in credit calculations.

Storage Volume for Ponds and Wetlands

For wet ponds and gravel wetlands, there is typically a large outlet at or near the top of the outlet riser that allows larger storms to exit the practice quickly. Storage above that level is considered flood storage and should be excluded from credit calculations.



Generalized diagram off a wet pond

Modeling documentation for the practice should include a stage vs. storage table that can be used to determine the appropriate volume for credit calculations.

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
364.00	27	0	0
365.00	2,208	1,118	1,118
366.00	3,123	2,666	3,783
368.00	5,591	8,714	12,497
370.00	8,301	13,892	26,389
372.00	11,418	19,719	46,108

Storage volume @ 370' = 26,389 ft³

Device	Routing	Invert	Outlet Devices
#1	Primary	365.00'	**15.0" Round Culvert** L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 365.00' / 360.50' S= 0.0900 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#2	Device 1	368.00'	**2.2" Vert. Orifice/Grate** C= 0.600
#3	Device 1	370.00'	**24.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	371.00'	**4.0' long x 8.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

Overflow Orifice

HydroCAD summary of a wet pond showing the correct storage volume for credit calculations

Many ponds built prior to the adoption of the 2002 Vermont Stormwater Management Manual were designed for peak flow attenuation and have neither a permanent pool nor extended detention. Ponds lacking these features are not assigned a phosphorus credit as they do not provide significant treatment.

Storage Volume for Grass Channels

Grass channels were a popular treatment practice under the 2002 Vermont Stormwater Management Manual (VSMM). Grass channels were typically sized to provide treatment for the water quality storm, which was the 0.9" storm under the 2002 VSMM. Grass channel typically have volume to convey large storms but credit calculations should be based on the peak volume of water in the swale during the water quality storm.

Summary for Reach 16R: Grass Channel 1

Inflow Area = 0.653 ac,100.00% Impervious, Inflow Depth > 0.65" for Wqv event
Inflow = 0.65 cfs @ 12.01 hrs, Volume= 0.035 af
Outflow = 0.47 cfs @ 12.28 hrs, Volume= 0.035 af, Atten= 28%, Lag= 16.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-20.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.27 fps, Min. Travel Time= 11.2 min
Avg. Velocity = 0.07 fps, Avg. Travel Time= 40.3 min

Peak Storage= 320 cf @ 12.09 hrs, Average Depth at Peak Storage= 0.26'
Bank-Full Depth= 1.50', Capacity at Bank-Full= 11.16 cfs

6.00' x 1.50' deep channel, n= 0.150 Sheet flow over Short Grass
Side Slope Z-value= 3.0 '/' Top Width= 15.00'
Length= 178.0' Slope= 0.0050 '/'
Inlet Invert= 698.50', Outlet Invert= 697.61'

‡

HydroCAD summary of a grass channel (swale) showing the correct storage volume for credit calculations

Storage Volume of Filters and Bioretention Practices

When calculating the storage of a filter media, the porosity (n) of 0.33 should be used. The same rule about excluding flood storage in storage calculations as for ponds and wetlands applies to these practices.

BMP Identification				Basin Information			BMP Tracking Specifications							Phosphorus Calculations					
Unique ID	Project Name	Latitude (decimal degrees)	Longitude (decimal degrees)	BMP Status	LC TMDL Drainage Area	LC TMDL Lake Segment	Eligible for Phosphorus Credit?	BMP Type	Impervious area (acres)	Pervious Entry Method	Total Pervious area (acres)	Storage volume (ft³)	Infiltration rate (in/hr)	* Load Before Treatment (kg/ac/yr)	* Storage Depth (inches)	* Practice Efficiency	* P Reduction (kg/year)	% Credit to MS4	* P Credit (kg/yr)
MLT001	North Rd Culvert	44.64599	-73.09844	Planned	Lamoille River	Malletts Bay	Yes	Sand filter (w/ underdrain)	4.25	Total Pervious	122.94	8,000		32.86	0.19	24.18%	7.95	100%	7.95
MLT002	Howard Dr	44.64091	-73.11481	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Trench	0.61	Total Pervious	2.28	1,151	2.41 in/hr	1.21	0.37	77.18%	0.94	100%	0.94
MLT003	River St Park	44.63720	-73.11391	Planned	Lamoille River	Malletts Bay	Yes	Bioretention (infiltrating)	0.12	Total Pervious	0.07	750	1.02 in/hr	0.15	1.39	98.55%	0.15	100%	0.15
MLT004	Lamoille Terr N	44.63209	-73.12451	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.57	Total Pervious	1.61	1,009	2.41 in/hr	1.02	0.37	84.25%	0.86	100%	0.86
MLT005	Lamoille Terr S	44.63123	-73.12448	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.49	Total Pervious	0.99	907	2.41 in/hr	0.79	0.41	87.34%	0.69	100%	0.69
MLT006	Railroad St Ditch N	44.63765	-73.10483	Planned	Lamoille River	Malletts Bay	Yes	Grass Channel	0.44	Total Pervious	2.30	600		1.02	0.27	6.35%	0.06	100%	0.06
MLT007	Railroad St Ditch S	44.63624	-73.10554	Planned	Lamoille River	Malletts Bay	Yes	Wet pond/ Created Wetland	0.44	Total Pervious	2.30	8,500		1.02	1.60	59.01%	0.60	100%	0.60
MLT008	Turner Ave	44.63333	-73.10718	Planned	Lamoille River	Malletts Bay	Yes	Grass Channel	0.58	Total Pervious	2.32	1,000		1.19	0.34	7.80%	0.09	100%	0.09
MLT009	Chrisemily Ln S	44.62646	-73.13751	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.23	Total Pervious	0.08	150	2.41 in/hr	0.28	0.17	61.70%	0.17	100%	0.17
MLT010	Nancy Dr	44.62783	-73.13956	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.17	Total Pervious	0.30	246	2.41 in/hr	0.26	0.35	81.58%	0.21	100%	0.21
MLT011	Checkerbery Sq	44.62796	-73.13911	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.95	Total Pervious	0.95	1,517	2.41 in/hr	1.30	0.39	86.34%	1.12	100%	1.12
MLT012	Lamoille Terr at Rt 7	44.63037	-73.11609	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Chambers	0.41	Total Pervious	0.30	800	2.41 in/hr	0.53	0.49	85.64%	0.45	100%	0.45
MLT013	Stacy St	44.62828	-73.12687	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Chambers	1.97	Total Pervious	2.35	5,000	2.41 in/hr	2.77	0.58	90.21%	2.50	100%	2.50
MLT014	Town Garage E	44.64094	-73.11200	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.81	Total Pervious	0.53	200	2.41 in/hr	1.04	0.07	30.88%	0.32	100%	0.32
MLT015	Town Garage W	44.64098	-73.11269	Planned	Lamoille River	Malletts Bay	Yes	Sand filter (w/ underdrain)	0.29	Total Pervious	0.05	850		0.34	0.78	47.54%	0.16	100%	0.16
MLT016	Ice House Rd	44.64066	-73.11288	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.88	Total Pervious	0.49	1,316	2.41 in/hr	1.12	0.39	85.60%	0.96	100%	0.96
MLT017	Landfill Rd Parking	44.62596	-73.13015	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Chambers	0.77	Total Pervious	0.03	2,500	2.41 in/hr	0.88	0.89	96.89%	0.85	100%	0.85
MLT018	Milton Elementary 1	44.63396	-73.10939	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.43	Total Pervious	0.05	1,400	2.41 in/hr	0.50	0.87	97.36%	0.49	100%	0.49
MLT019	Milton Elementary 2	44.63355	-73.10973	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Chambers	7.61	Total Pervious	6.93	8,000	2.41 in/hr	10.24	0.27	64.10%	6.56	100%	6.56
MLT020	Milton Elementary 3	44.63348	-73.10956	Planned	Lamoille River	Malletts Bay	Yes	Bioretention (infiltrating)	0.32	Total Pervious	0.01	500	2.41 in/hr	0.37	0.43	88.01%	0.32	100%	0.32
MLT021	Milton Elementary 4	44.63298	-73.10965	Planned	Lamoille River	Malletts Bay	Yes	Bioretention (infiltrating)	0.38	Total Pervious	0.17	300	2.41 in/hr	0.47	0.21	68.15%	0.32	100%	0.32
MLT022	Milton High Parking	44.62831	-73.11815	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Chambers	0.18	Total Pervious	0.00	400	2.41 in/hr	0.20	0.62	91.56%	0.18	100%	0.18
MLT023	Murray Road at Sawyer Ave	44.68495	-73.14132	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.47	Total Pervious	1.81	756	2.41 in/hr	0.95	0.32	79.47%	0.75	100%	0.75
MLT024	Poor Farm Road	44.65411	-73.12233	Planned	Lamoille River	Malletts Bay	Yes	Grass Channel	0.86	Total Pervious	0.23	5,000		1.03	1.44	28.12%	0.29	100%	0.29
MLT025	Moss End Dr	44.62900	-73.11428	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.92	Total Pervious	1.17	1,740	2.41 in/hr	1.31	0.45	88.68%	1.16	100%	1.16
MLT026	Petty Brook Rd	44.60700	-73.15434	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Sand filter (w/ underdrain)	0.56	Total Pervious	1.63	2,285		0.48	0.71	46.15%	0.22	100%	0.22
MLT027	Allen Dr	44.60267	-73.15865	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Basin	0.56	Total Pervious	5.66	1,500	2.41 in/hr	0.53	0.36	82.91%	0.44	100%	0.44
MLT028	Allen Brook Dr	44.59968	-73.15247	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Sand filter (w/ underdrain)	2.36	Total Pervious	5.21	2,432		2.01	0.24	27.66%	0.56	100%	0.56
MLT029	Emile Dr	44.61839	-73.11763	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Basin	1.14	Total Pervious	2.45	4,000	2.41 in/hr	0.97	0.68	95.24%	0.93	100%	0.93
MLT030	Woodcrest Cir	44.61493	-73.11523	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Chambers	0.56	Total Pervious	0.97	3,200	2.41 in/hr	0.47	1.04	98.18%	0.47	100%	0.47
MLT031	Hemlock Rd	44.61262	-73.11291	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Chambers	1.58	Total Pervious	5.28	3,283	2.41 in/hr	1.37	0.41	81.52%	1.11	100%	1.11
MLT032	Mcmullen Rd Dry Wells	44.61256	-73.11062	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Chambers	0.28	Total Pervious	1.14	800	2.41 in/hr	0.25	0.49	85.68%	0.21	100%	0.21
MLT033	Kingswood Dr	44.61087	-73.11586	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Sand filter (w/ underdrain)	0.33	Total Pervious	0.39	2,000		0.28	1.20	55.04%	0.15	100%	0.15
MLT034	Town Library	44.61892	-73.12418	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Bioretention (infiltrating)	0.08	Total Pervious	0.02	142	2.41 in/hr	0.06	0.49	90.08%	0.06	100%	0.06
MLT035	Hunting Ridge Ln Swale	44.64169	-73.10021	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Sand filter (w/ underdrain)	1.31	Total Pervious	2.01	1,080		1.10	0.21	25.47%	0.28	100%	0.28
MLT036	Bradley St	44.63006	-73.11127	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Bioretention (infiltrating)	0.32	Total Pervious	4.80	150	2.41 in/hr	0.32	0.09	41.18%	0.13	100%	0.13
MLT037	Municipal Office Parking Lot N	44.61963	-73.12431	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Bioretention (infiltrating)	0.08	Total Pervious	0.06	129	2.41 in/hr	0.07	0.40	87.17%	0.06	100%	0.06
MLT038	Municipal Office Parking Lot S	44.61952	-73.12445	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Bioretention (infiltrating)	0.10	Total Pervious	0.04	133	2.41 in/hr	0.08	0.37	84.06%	0.07	100%	0.07
MLT039	Municipal Building Roof W	44.61921	-73.12413	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Bioretention (infiltrating)	0.18	Total Pervious	0.02	291	2.41 in/hr	0.15	0.43	88.02%	0.13	100%	0.13
MLT040	Pinewood Ln W	44.60954	-73.11310	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Chambers	0.79	Total Pervious	1.28	1,278	2.41 in/hr	0.67	0.38	78.25%	0.52	100%	0.52
MLT041	Pinewood Ln E	44.60944	-73.11305	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Chambers	0.90	Total Pervious	1.78	1,484	2.41 in/hr	0.77	0.37	77.49%	0.59	100%	0.59
MLT042	Tennis Ct W	44.61656	-73.12172	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Basin	0.14	Total Pervious	0.12	226	2.41 in/hr	0.12	0.40	87.13%	0.10	100%	0.10
MLT043	Tennis Ct E	44.61647	-73.12149	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Basin	0.17	Total Pervious	0.03	275	2.41 in/hr	0.14	0.43	87.98%	0.13	100%	0.13
MLT044	Tennis Courts	44.61592	-73.12274	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Trench	0.59	Total Pervious	0.10	858	2.41 in/hr	0.49	0.39	80.28%	0.39	100%	0.39
MLT045	Park Pl N	44.61777	-73.12529	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Basin	0.50	Total Pervious	0.33	846	2.41 in/hr	0.41	0.43	88.18%	0.36	100%	0.36
MLT046	Park Pl SE	44.61629	-73.12543	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Basin	0.29	Total Pervious	0.33	473	2.41 in/hr	0.24	0.40	86.63%	0.21	100%	0.21
MLT047	Park Pl SW	44.61654	-73.12562	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Infiltration Basin	0.14	Total Pervious	0.13	227	2.41 in/hr	0.12	0.41	87.24%	0.10	100%	0.10
MLT048	Municipal Parking E	44.61926	-73.12323	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Bioretention (infiltrating)	0.14	Total Pervious	0.11	252	2.41 in/hr	0.12	0.44	88.40%	0.11	100%	0.11
MLT049	Municipal Roof E	44.61906	-73.12373	Planned	Malletts Bay Direct Drainage	Malletts Bay	Yes	Bioretention (infiltrating)	0.10	Total Pervious	0.02	158	2.41 in/hr	0.08	0.42	87.61%	0.07	100%	0.07
MLT050	Brandy Ln Parking S	44.62977	-73.11938	Planned	Lamoille River	Malletts Bay	Yes	Bioretention (infiltrating)	0.09	Total Pervious	0.02	146	2.41 in/hr	0.10	0.44	88.54%	0.09	100%	0.09
MLT051	Brandy Ln Parking	44.63024	-73.11985	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.60	Total Pervious	0.63	1,103	2.41 in/hr	0.83	0.45	88.63%	0.73	100%	0.73
MLT052	Milton High Parking N	44.62859	-73.11829	Planned	Lamoille River	Malletts Bay	Yes	Bioretention (infiltrating)	0.35	Total Pervious	0.25	589	2.41 in/hr	0.45	0.43	88.03%	0.40	100%	0.40
MLT053	Milton High Parking S	44.62777	-73.11804	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.71	Total Pervious	0.26	1,324	2.41 in/hr	0.87	0.49	90.03%	0.78	100%	0.78
MLT054	Cherry St	44.63680	-73.11157	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Chambers	0.34	Total Pervious	0.25	924	2.41 in/hr	0.44	0.66	92.58%	0.41	100%	0.41
MLT055	School St	44.63844	-73.11088	Planned	Lamoille River	Malletts Bay	Yes	Bioretention (infiltrating)	0.37	Total Pervious	0.33	774	0.52 in/hr	0.50	0.51	82.38%	0.41	100%	0.41
MLT056	WW Treatment Plan N	44.63466	-73.12654	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.87	Total Pervious	2.46	1,686	2.41 in/hr	1.55	0.40	87.06%	1.35	100%	1.35
MLT057	WW Treatment Plan S	44.63328	-73.12566	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.04	Total Pervious	0.08	65	2.41 in/hr	0.07	0.34	81.27%	0.06	100%	0.06
MLT058	Riverside Dr	44.63365	-73.12244	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.61	Total Pervious	0.71	1,128	2.41 in/hr	0.86	0.44	88.51%	0.76	100%	0.76
MLT059	Maplewood Ave	44.64747	-73.10738	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	1.15	Total Pervious	1.37	2,104	2.41 in/hr	1.62	0.44	88.37%	1.43	100%	1.43
MLT060	Valley View Dr Corner	44.61035	-73.17170	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	0.32	Total Pervious	0.80	380	2.41 in/hr	0.54	0.27	74.42%	0.40	100%	0.40
MLT061	Bear Trap Ln	44.63160	-73.17361	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	21.8	Total Pervious	1.25	4,250	2.41 in/hr	6.39	0.34	81.20%	5.19	100%	5.19
MLT062	Lena Ct	44.66032	-73.12848	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Basin	1.29	Total Pervious	3.17	3,198	2.41 in/hr	2.19	0.50	90.64%	1.99	100%	1.99
MLT063	Chrisemily Ln N	44.62907	-73.13527	Planned	Lamoille River	Malletts Bay	Yes	Infiltration Chambers	2.94	Total Pervious	4.13	6,927	2.41 in/hr	4.29	0.53	87.71%	3.76	100%	3.76

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BMP Identification								Maintenace	
Unique ID	Project Name	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	Maintence needed?
ABC0001	Test BMP	Townsville MS4	Colchester MS4	44.11111	-73.00002	3000-9010			
