

APPENDIX C

BMP IMPLEMENTATION SCHEDULE

**Table C-1
Lycoming County MS4 Coalition Schedule of BMP Implementation**

BMP ID	MS4 Entity*	BMP/GI/LID Description	BMP Type	BMP Location		Permit Year 1 (April 2014 - March 2019)				
				Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	PCT	Review and update PEOP.	Plan	N/A	N/A					
MCM 2-1	PCT	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 2-1	PCT	Review and update PIPP.	Plan	N/A	N/A					
MCM 3-5	PCT	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	PCT	Implement requirements for construction site operators to control waste	Plan	N/A	N/A					
MCM 5	PCT	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
LC3	LC	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
PCT5	PCT	An oil/water separator is being discussed for use at the General Services Facility.	Oil/Water Separator	41°13'39.31"N	77° 3'8.89"W					
PCT3	PCT	Inlet Sumps are currently located on the campus of the Pa. College of Tech. outside of Dauphin Hall, and are cleaned annually.	Underground Detention Storage	41°14'5.14"N	77° 1'50.61"W					
PCT1	PCT	Infiltration Trench on the other side of Rose Street that services College Dorms. 3.08 acres.	Infiltration Trench	41°14'6.98"N	77° 1'56.63"W					
MCM 1-1	FT	Review and update PEOP.	Plan	N/A	N/A					
MCM 1-2	FT	Identify target audience list for public education	Report	N/A	N/A					
MCM 1-4	FT	Document two separate methods of distribution of Stormwater educational Materials	Report	N/A	N/A					
MCM 2-1	FT	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 2-3	FT	Document public meetings held	Report	N/A	N/A					
MCM 3-1	FT	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-2	FT	Inspect 40% of outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-3	FT	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 3-4	FT	Create map including outfalls, receiving waters, stormwater drainage collection, swales, basins, etc.	Mapping	N/A	N/A					
MCM 3-5	FT	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	FT	Implement requirements for construction site operators to control waste	Plan	N/A	N/A					
MCM 5	FT	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-2	FT	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-5	FT	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-2	FT	Adopt written operation and maintenance plan addressing housekeeping	Plan	N/A	N/A					
MCM 6-3	FT	Adopt written employee training program	Plan	N/A	N/A					
LC3	FT	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
MCM 1-1	HT	Review and update PEOP.	Plan	N/A	N/A					
MCM 1-2	HT	Identify target audience list for public education	Report	N/A	N/A					
MCM 2-1	HT	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 3-1	HT	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-2	HT	Inspect 40% of outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-4	HT	Create map including outfalls, receiving waters, stormwater drainage collection, swales, basins, etc.	Mapping	N/A	N/A					
MCM 3-5	HT	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	HT	Implement requirements for construction site operators to control waste	Plan	N/A	N/A					
MCM 5	HT	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-2	HT	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-5	HT	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-2	HT	Adopt written operation and maintenance plan addressing housekeeping	Plan	N/A	N/A					
MCM 6-3	HT	Adopt written employee training program	Plan	N/A	N/A					
MCM 3-3	HT	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 5-1	HT	Adopt County model stormwater ordinance modifications as needed	Plan	N/A	N/A					
MCM 5-3	HT	Record BMP Inspections	Report	N/A	N/A					
LC3	HT	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A						

* See Map E-3 for Planned BMP Locations

**Table C-1
Lycoming County MS4 Coalition Schedule of BMP Implementation**

BMP ID	MS4 Entity*	BMP/GI/LID Description	BMP Type	BMP Location		Permit Year 1 (April 2014 - March 2019)				
				Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	LCT	Review and update PEOP.	Plan	N/A	N/A					
MCM 1-2	LCT	Identify target audience list for public education	Report	N/A	N/A					
MCM 1-4	LCT	Document two separate methods of distribution of Stormwater educational Materials	Report	N/A	N/A					
MCM 2-1	LCT	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 3-1	LCT	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-2	LCT	Inspect 40% of outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-3	LCT	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 3-4	LCT	Create map including outfalls, receiving waters, stormwater drainage collection, swales, basins, etc.	Mapping	N/A	N/A					
MCM 3-5	LCT	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	LCT	Implement requirements for construction site operators to control waste	Plan	N/A	N/A					
MCM 5	LCT	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-1	LCT	Adopt County model stormwater ordinance modifications as needed	Plan	N/A	N/A					
MCM 5-2	LCT	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-3	LCT	Record BMP Inspections	Report	N/A	N/A					
MCM 5-5	LCT	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-2	LCT	Adopt written operation and maintenance plan addressing housekeeping	Plan	N/A	N/A					
MCM 6-3	LCT	Adopt written employee training program	Plan	N/A	N/A					
MCM 1-1	LCT	Adopt County PEOP Plan	Plan	N/A	N/A					
MCM 1-3	LCT	Document publication of Stormwater educational Materials	Report	N/A	N/A					
MCM 6-1	LCT	Create inventory of municipal facilities & land uses that are stormwater contributors	Report	N/A	N/A					
LC3	LCT	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A						
MCM 1-1	LST	Review and update PEOP.	Plan	N/A	N/A					
MCM 1-4	LST	Document two separate methods of distribution of Stormwater educational Materials	Report	N/A	N/A					
MCM 2-1	LST	Review and update PIPP.	Plan	N/A	N/A					
MCM 2-3	LST	Document public meetings held	Report	N/A	N/A					
MCM 3-1	LST	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-3	LST	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 3-4	LST	Create map including outfalls, receiving waters, stormwater drainage collection, swales, basins, etc.	Mapping	N/A	N/A					
MCM 4-3	LST	Implement requirements for construction site operators to control waste	Plan	N/A	N/A					
MCM 5	LST	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-3	LST	Record BMP Inspections	Report	N/A	N/A					
MCM 5-5	LST	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-2	LST	Adopt written operation and maintenance plan addressing housekeeping	Plan	N/A	N/A					
MCM 6-3	LST	Adopt written employee training program	Plan	N/A	N/A					
MCM 3-2	LST	Inspect all outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-5	LST	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 5-4	LST	Adopt stormwater ordinance including enforcement of BMP implementation	Plan	N/A	N/A					
LST3	LST	Detention and infiltration basin at Loyalsock Senior High School, currently slated for retrofit/replacement.	Infiltration Basin	41°15'40.73"N	76°57'50.51"W					
LST14	LST	Detention Basin (Bull Run), owned/maintained by Loyalsock Township School District, drainage area of 5 acres. Future improvements to the site will most likely facilitate removal of the Basin.	Infiltration Basin	41°15'42.77"N	76°56'58.98"W					
LST2	LST	Rain Garden at Loyalsock Senior High School.	Rain Garden	41°15'41.56"N	76°57'50.96"W					
LC3	LST	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
MCM 1-1	MB	Review and update PEOP.	Plan	N/A	N/A					
MCM 2-1	MB	Review and update PIPP.	Plan	N/A	N/A					
MCM 3-1	MB	Adopt IDD&E Plan	Plan	N/A	N/A					

* See Map E-3 for Planned BMP Locations

**Table C-1
Lycoming County MS4 Coalition Schedule of BMP Implementation**

BMP ID	MS4 Entity*	BMP/GI/LID Description	BMP Type	BMP Location		Permit Year 1 (April 2014 - March 2019)				
				Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 3-2	MB	Inspect all outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-3	MB	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 3-5	MB	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	MB	Implement requirements for construction site operators to control waste	Plan	N/A	N/A					
MCM 5	MB	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-2	MB	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-5	MB	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-3	MB	Adopt written employee training program	Plan	N/A	N/A					
MB11	MB	Plans for improving Indian Park (behind Borough's building near the recycling center) currently proposed. The project will improve the water quality at the park and restore the ecology of the park's pond. Improvements include wetland/stream restoration, educational programs and community plantings.	Wetland / Stream Restoration	41°15'33.71"N	76°55'23.12"W					
LC3	MB	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
MCM 1-1	OLT	Review and update PEOP.	Plan	N/A	N/A					
MCM 2-1	OLT	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 3-1	OLT	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-3	OLT	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 3-5	OLT	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	OLT	Implement requirements for construction site operators to control waste	Plan	N/A	N/A					
MCM 5	OLT	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-2	OLT	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-5	OLT	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-3	OLT	Adopt written employee training program	Plan	N/A	N/A					
OLT8	OLT	Relocated Recycling Facility at 1250 Princeton Ave, Old Lycoming Township PA 17701. BMPs to be implemented. Willing to do what is best for the community.	Rain Garden	41°15'15.37"N	77° 4'15.51"W					
LC3	OLT	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
MCM 1-1	WC	Review and update PEOP.	Plan	N/A	N/A					
MCM 2-1	WC	Review and update PIPP.	Plan	N/A	N/A					
MCM 4-3	WC	Implement requirements for construction site operators to control waste	Plan	N/A	N/A					
MCM 5	WC	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
WC4	WC	Rain Garden at Recycling Center.	Rain Garden	41°14'14.52"N	77° 2'37.21"W					
WC6	WC	Detention basin at Laurel Run Circle.	Extended Detention Basin	41°14'10.19"N	77° 4'58.61"W					

Structural BMP construction complete on or before this year.
Full permitting compliance achieved for BMP

MS4 Entity Legend	
PCT	Pennsylvania College of Technology
FT	Fairfield Township
HT	Hepburn Township
LCT	Lycoming Township
LST	Loyalsock Township
MB	Borough of Montoursville
OLT	Old Lycoming Township
WC	City of Williamsport
LC	Lycoming County

* See Map E-3 for Planned BMP Locations

**Table C-2
Lycoming County Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOP.	Plan	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
LC3	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
					Structural BMP construction complete on or before this year.				
					Full permitting compliance achieved for BMP				

Lycoming County Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
LC3	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration
LC1	2 riparian buffers proposed on both sides of Lycoming Creek; creek is a cold water fishery with significant development pressure. Buffer intended to protect floodplain, preserve habitat, prevent erosion, and improve water quality.	Riparian Buffer Restoration
LC2	Riparian buffer along Hoagland Run where it is a high quality-cold water fishery. Intended to improve water quality and preserve habitat. Run goes into Lycoming Creek, but is not located in an urbanized area.	Riparian Buffer Restoration

Lycoming County Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
1	Strategic Action to develop a primer entitled "Beyond the Beauty: Environmental and Community Benefits of Forestland," to provide information on forest benefits to water quality, reduced flooding, and groundwater recharge.	Lycoming County Comprehensive Plan
1	Strategic Action to identify and map riparian forest buffers, wetlands, and natural undeveloped water retention areas and encourage stream bank preservation programs. Educate local officials on their ability to regulate riparian buffer areas and distribute information on the value of riparian buffers to officials and the general public.	Lycoming County Comprehensive Plan
1	Strategic Action to protect water supply and water quality by incorporating BMPs into ordinances. Ex. replace high maintenance lawn requirements with seasonal meadow options. Provide demonstration areas to show how BMPs are designed and maintained and what benefits are gained.	Lycoming County Comprehensive Plan
1	Mitigation Action to provide education for residents about water-saving landscaping techniques.	Lycoming County 2014 All-Hazard Mitigation Plan
1	The Public Education and Outreach Program (PEOP) of each MS4 Entity will be updated.	MCM Compliance Breakdown
1	A target audience list will be developed for each MS4 Entity, and will be kept up-to-date.	MCM Compliance Breakdown
1	Planning Department staff updates Lycoming County Conservation District on their current projects at the monthly Board of Directors public meetings.	MCM Compliance Breakdown
1	MS4 Updates presented by Lycoming County at the Lycoming/Sullivan County Boroughs Association Meetings.	MCM Compliance Breakdown

* See Map E-3 for Planned BMP Locations

**Table C-2
Lycoming County Schedule of BMP Implementation**

Lycoming County Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
1	Flyers and educational brochures (including "Only Rain Down the Storm Drain", "How to Build a Rain Garden", "Endless Mountain Water Resources", and "5 Easy Ways to Make a Rain Barrel"), and other MS4 information distributed and presented at major events across the County, including Stormwater and Municipal Summits, Local Environmental Chapters, Conventions, public meetings, and Municipal/non-municipal Board Meetings. Bulletin Board located in the Executive Plaza also provides general stormwater and MS4 information for the public.	MCM Compliance Breakdown
1, 2	Strategic Action to establish watershed associations for all watersheds.	Lycoming County Comprehensive
2	Update and implement Public Involvement and Participation Programs (PIPP) for each MS4 Entity.	MCM Compliance Breakdown
2	Municipalities' Supervisor and Council Meetings are posted and available for all public to attend monthly to provide review and input.	MCM Compliance Breakdown
2	Public involvement and comments allowed and encouraged at various MS4 Events held countywide. These events include Stormwater and Municipality Summits, MS4 Public Meetings, and MS4 Roadshows. Future events are planned with public comment encouraged.	MCM Compliance Breakdown
3	An Illicit Discharge Detection and Elimination plan will be updated and adopted by each of the MS4 Entities.	MCM Compliance Breakdown
5	Strategic Action to promote the use of conservation design techniques such as open space or conservation subdivisions.	Lycoming County Comprehensive Plan
6	Strategic Action to have LCPC Staff and Penn State Cooperative Extension perform a systematic audit of local ordinances and make recommendations on how to improve the regulation of landscaping and tree planting requirements.	Lycoming County Comprehensive Plan
6	An Operations and Maintenance (O&M) Plan will be developed and adopted by each MS4 entity.	MCM Compliance Breakdown
6	Township Training provided during MS4 Coalition Meetings. Topics include O&M Programs, MS4 Tracking, Maintenance, and Procedures.	MCM Compliance Breakdown

* See Map E-3 for Planned BMP Locations

**Table C-3
PA College of Technology Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOP.	Plan	N/A	N/A					
MCM 2-1	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
PCT3	Inlet Sumps are currently located on the campus of the Pa. College of Tech. outside of Dauphin Hall, and are cleaned annually.	Underground Detention Storage	41°14'5.14"N	77° 1'50.61"W					
MCM 3-5	Record stormwater sampling & monitoring	Report	N/A	N/A					
PCT1	Infiltration Trench on the other side of Rose Street that services College Dorms. 3.08 acres.	Infiltration Trench	41°14'6.98"N	77° 1'56.63"W					
PCT5	Install oil/water separator at General Services Facility.	Oil/Water Separator	41°13'39.31"N	77° 3'8.89"W					
					Structural BMP construction complete on or before this year.				
					Full permitting compliance achieved for BMP				

PA College of Technology Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
PCT1	Infiltration Trench on the other side of Rose Street that services College Dorms. 3.08 acres.	Infiltration Basin
PCT2	Underground detention and infiltration at parking lot on Rose St.	UDS
PCT3	Inlet Sumps are currently located on the campus of the Pa. College of Tech. outside of Dauphin Hall, and are cleaned annually.	UDS
PCT4	The placement of a rain garden is currently being discussed, and will be located near the field house and tennis courts.	Rain Garden
PCT5	Install oil/water separator at General Services Facility.	Oil/Water Separator

PA College of Technology Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
3	The college currently employs an Illicit Discharge Detection and Elimination Plan, and incorporates a complaint and investigation program with its Environmental Specialist. Spill Response Reports may be filed.	PCT Illicit Discharge Detection and Elimination Plan
6	The college provides its Environmental Specialist (ES) with HAZMAT training and Hazardous Materials Management training. The ES is also trained as a Certified Stormwater Inspector. The document gives training frequencies and meeting types.	PCT Illicit Discharge Detection and Elimination Plan

* See Map E-3 for Planned BMP Locations

**Table C-4
Fairfield Township Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOP.	Plan	N/A	N/A					
MCM 1-2	Identify target audience list for public education	Report	N/A	N/A					
MCM 1-4	Document two separate methods of distribution of Stormwater educational Materials	Report	N/A	N/A					
MCM 2-1	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 2-3	Document public meetings held	Report	N/A	N/A					
MCM 3-1	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-2	Inspect 40% of outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-3	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 3-5	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-2	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-5	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-2	Adopt written operation and maintenance plan addressing housekeeping	Plan	N/A	N/A					
MCM 6-3	Adopt written employee training program	Plan	N/A	N/A					
LC3	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
MCM 3-4	Create map including outfalls, receiving waters, stormwater drainage collection, swales, basins, etc.	Mapping	N/A	N/A					
					Structural BMP construction complete on or before this year.				
					Full permitting compliance achieved for BMP				

Fairfield Township Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
FT1	Detention basin South of Old State Road.	Infiltration Basin

Fairfield Township Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
4	Zoning Ordinance states that if more than five (5) spaces are to be provided in a parking area, the surface of the parking area shall be considered as impervious for the purposes of preparing a stormwater management plan for the site.	Zoning Ordinance
4, 5	Ordinance requires a Stormwater Management Plan for all regulated activities with the submission of preliminary and/or final subdivision or land development plan.	Stormwater Management Ordinance
5	Stormwater management ordinance contains design standards for detention basins and for facilities to encourage recharge.	Stormwater Management Ordinance

* See Map E-3 for Planned BMP Locations

**Table C-5
Hepburn Township Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOB.	Plan	N/A	N/A					
MCM 1-2	Identify target audience list for public education	Report	N/A	N/A					
MCM 2-1	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 3-1	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-2	Inspect 40% of outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-5	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-2	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-5	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-2	Adopt written operation and maintenance plan addressing housekeeping	Plan	N/A	N/A					
MCM 6-3	Adopt written employee training program	Plan	N/A	N/A					
MCM 3-3	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 5-1	Adopt County model stormwater ordinance modifications as needed	Plan	N/A	N/A					
MCM 5-3	Record BMP Inspections	Report	N/A	N/A					
MCM 3-4	Create map including outfalls, receiving waters, stormwater drainage collection, swales, basins, etc.	Mapping	N/A	N/A					
LC3	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
					Structural BMP construction complete on or before this year.				
					Full permitting compliance achieved for BMP				

Hepburn Township Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
HT1	Detention and Infiltration basin at intersection of Route 973 and Lycoming Creek Road.	Infiltration Basin

Hepburn Township Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
4	Subdivision and Land Development Ordinance states that no subdivision and land development plan can be approved without an E&S plan.	Subdivision and Land Development Ordinance
4	Ordinance requires that, to the maximum extent practicable, all regulated activities should incorporate techniques for low impact development practices described in the PA BMP Manual.	Stormwater Management Ordinance
4, 5	Lycoming Creek Watershed Stormwater Plan adopted 2010.	MS4 Annual Report 2009-2010
5	Stormwater management ordinance contains design standards for stormwater facilities.	Stormwater Management Ordinance

* See Map E-3 for Planned BMP Locations

**Table C-6
Lycoming Township Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOP.	Plan	N/A	N/A					
MCM 1-2	Identify target audience list for public education	Report	N/A	N/A					
MCM 1-4	Document two separate methods of distribution of Stormwater educational Materials	Report	N/A	N/A					
MCM 2-1	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 3-1	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-2	Inspect 40% of outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-3	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 3-5	Record stormwater sampling & monitoring	Report	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-1	Adopt County model stormwater ordinance modifications as needed	Plan	N/A	N/A					
MCM 5-2	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-3	Record BMP Inspections	Report	N/A	N/A					
MCM 5-5	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-2	Adopt written operation and maintenance plan addressing housekeeping	Plan	N/A	N/A					
MCM 6-3	Adopt written employee training program	Plan	N/A	N/A					
MCM 1-1	Adopt County PEOP Plan	Plan	N/A	N/A					
MCM 1-3	Document publication of Stormwater educational Materials	Report	N/A	N/A					
MCM 6-1	Create inventory of municipal facilities & land uses that are stormwater contributors	Report	N/A	N/A					
MCM 3-4	Create map including outfalls, receiving waters, stormwater drainage collection, swales, basins, etc.	Mapping	N/A	N/A					
LC3	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
					Structural BMP construction complete on or before this year.				
					Full permitting compliance achieved for BMP				

Lycoming Township Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
1	Lycoming Township Newsletter distributed to residents that includes instructions on how to wash your car without harming the environment.	MCM Compliance Breakdown
4	A Complete Erosion and Sedimentation Control (ESC) Plan is required for various land-disturbance activities. This section outlines ESC Plan eligibility requirements.	Lycoming Township SLDO
4, 5	Lycoming Township Stormwater Management Plan is currently provided by the Township. This plan is a requirement in the Lycoming Twp. SALDO Plan (Section 508, page 54).	Lycoming Township Stormwater Ordinance
4, 5	Lycoming Creek Watershed Stormwater Plan adopted 2010.	MS4 Annual Report 2009-2010
5	Strategic Action to promote the use of conservation design techniques such as open space or conservation subdivisions.	Comprehensive Plan for Lower Lycoming Creek Planning Area
5	Outlines water quality management options, including: implementing measures to minimize floodplain disturbance, maintain or extend forested buffers, minimize soil disturbances, etc.	Lycoming Township Stormwater Ordinance

* See Map E-3 for Planned BMP Locations

**Table C-7
Loyalsock Township Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOB.	Plan	N/A	N/A					
MCM 1-4	Document two separate methods of distribution of Stormwater educational Materials	Report	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 2-3	Document public meetings held	Report	N/A	N/A					
MCM 3-1	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-3	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5-3	Record BMP Inspections	Report	N/A	N/A					
MCM 5-5	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-2	Adopt written operation and maintenance plan addressing housekeeping	Plan	N/A	N/A					
MCM 6-3	Adopt written employee training program	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-4	Adopt stormwater ordinance including enforcement of BMP implementation	Plan	N/A	N/A					
LC3	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
LST3	Detention and infiltration basin at Loyalsock Senior High School, currently slated for retrofit/replacement.	Infiltration Basin	41°15'40.73"N	76°57'50.51"W					
MCM 3-4	Create map including outfalls, receiving waters, stormwater drainage collection, swales, basins, etc.	Mapping	N/A	N/A					
LST14	Detention Basin (Bull Run), owned/maintained by Loyalsock Township School District, drainage area of 5 acres. Future improvements to the site will most likely facilitate removal of the Basin.	Infiltration Basin	41°15'42.77"N	76°56'58.98"W					
MCM 3-2	Inspect all outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-5	Record stormwater sampling & monitoring	Report	N/A	N/A					
LST2	Rain Garden at Loyalsock Senior High School.	Rain Garden	41°15'41.56"N	76°57'50.96"W					

Structural BMP construction complete on or before this year.

Full permitting compliance achieved for BMP

Loyalsock Township Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
LST1	Oil/water separator at township maintenance building.	Oil/Water Separator
LST2	Rain Garden at Loyalsock Senior High School.	Rain Garden
LST3	Detention and infiltration basin at Loyalsock Senior High School, currently slated for retrofit/replacement.	Infiltration Basin
LST4	Infiltration trench at Greenview Commons development site.	Infiltration Basin
LST5	Detention and infiltration basin at Mill Creek Estates.	Infiltration Basin
LST6	Infiltration system at Windfield Drive.	Infiltration Basin
LST7	Detention basin at Poco Estates.	Infiltration Basin
LST8	Detention basin and wetlands at Northwoods Estates.	Infiltration Basin
LST9	4 rain gardens associated with the Grafius Run receiving body of water that are privately owned/maintained.	Rain Garden

* See Map E-3 for Planned BMP Locations

Table C-7

Loyalsock Township Schedule of BMP Implementation

Loyalsock Township Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
LST10	Wetland Recharge associated with the Grafius Run receiving body of water, privately owned/maintained.	Infiltration Basin
LST11	Detention basin (Grafius Run) privately owned/maintained, drainage area of 4 acres.	Infiltration Basin
LST12	Detention basin (Mill Creek), owned/maintained by Lycoming County Commissioners, drainage area of 2 acres.	Infiltration Basin
LST13	Detention basin (Mill Creek), Privately owned/maintained, drainage area of 45 acres.	Infiltration Basin
LST14	Detention Basin (Bull Run), owned/maintained by Loyalsock Township School District, drainage area of 5 acres. Future improvements to the site will most likely facilitate removal of the Basin.	Infiltration Basin
LST15	In the area by the levee, behind TJMaxx shopping center: Currently the area is mowed and maintained, but has the potential to be converted into an infiltration area. Also, there is a possible tree planting flood control BMP between 180 and the "golden strip" (vacant grassland) that is currently mowed and maintained. Future costs could be higher due to levee permitting.	Infiltration Basin

Loyalsock Township Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
1	E&S fact sheet distributed by MS4s and County Conservation District.	2012 MS4 Report
1	Rain Drain Brochures distributed by MS4s and County Conservation District at County Fair.	2012 MS4 Report
1	Lycoming County staff performed public education presentations on low impact stormwater practices, stormwater management, and flooding to Leadership Lycoming and Lycoming Tioga Flood Summit.	2012 MS4 Report
1	County Conservation district purchased storm drain markers installed by County and MS4 personnel.	2012 MS4 Report
1	"When it Rains it Drains" brochure distributed to all applicants for building permits and land developments, and distributed at the county fair.	2012 MS4 Report
2, 3	Outfall screening and sampling conducted by Penn College Environmental Technology students.	2012 MS4 Report
3	MS4 outfall mapping done for entire MS4 area, including photos and GPS locations.	2012 MS4 Report
4	Stormwater Management Ordinance requires E&S Plan and stormwater management plan for any project with disturbance activity of > = 5,000 sq. ft. Ordinance also requires minor stormwater plan for sites between 1,000 and 5,000 sq. ft. of contiguous area.	2012 MS4 Report
4	E&S Control for Earthmoving Sites Fact Sheet prepared by conservation district was distributed to all developers and to any applicant for a building permit or land development approval.	2012 MS4 Report
4, 5	Lycoming Creek Watershed Stormwater Plan adopted 2010.	MS4 Annual Report 2009-2010
5	Stormwater management ordinance contains design standards governing stormwater drainage facilities.	Stormwater Ordinance
5	Subdivision and Land Development Ordinance contains design standards for storm drainage facilities in subdivisions. Facilities must be designed to handle a 25-yr frequency 24-hr duration rainfall.	Subdivision and Land Development Ordinance
5	Strategic Action to promote the use of conservation design techniques such as open space or conservation subdivisions.	Comprehensive Plan for Lower Lycoming Creek Planning Area
6	Street sweeping along Freedom Road.	MS4 Compliance Inspection Report July 2014
6	Strategic Action to review local ordinances for standards that require excessive impervious coverage, e.g. wider than necessary streets, excessive parking, etc. Revise such standards with provisions for better stormwater management practices, e.g. for shared parking, uncurbed streets, where appropriate.	Comprehensive Plan for the Greater Williamsport Alliance Planning Area

* See Map E-3 for Planned BMP Locations

**Table C-8
Borough of Montoursville Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOP.	Plan	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 3-1	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-3	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-2	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-5	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-3	Adopt written employee training program	Plan	N/A	N/A					
LC3	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
MCM 3-2	Inspect all outfalls. Document results in standard inspection form and in illicit discharge tracking system.	Inspect & Report	N/A	N/A					
MCM 3-5	Record stormwater sampling & monitoring	Report	N/A	N/A					
MB11	Plans for improving Indian Park (behind Borough's building near the recycling center) currently proposed. The project will improve the water quality at the park and restore the ecology of the park's pond. Improvements include wetland/stream restoration, educational programs and community plantings.	Wetland / Stream Restoration	41°15'33.71"N	76°55'23.12"W					
					Structural BMP construction complete on or before this year.				
					Full permitting compliance achieved for BMP				

Montoursville Borough Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
MB1	Infiltration trench at South Loyalsock Avenue.	Infiltration Basin
MB2	Porous pavement and underground infiltration at Montoursville School on N. Arch Street.	UDS
MB3	UDS 1, owned by Montoursville Area School District.	UDS
MB4	UDS 2, owned by Montoursville Area School District.	UDS
MB5	UDS 3, owned by Lycoming Physical Therapy.	UDS
MB6	Infiltration/Detention Basin owned by Parkside Elderly Housing, LLC.	Infiltration Basin
MB7	Rain Garden owned by Sooner Pipe.	Rain Garden
MB8	UDS 4, owned by VisionMax.	UDS
MB9	Infiltration Basin owned by Euro-Optics.	Infiltration Basin
MB10	Possible Infiltration improvements at the Borough Maintenance Yard. Currently, there is an outfall that drains from the direction of the route 87 to an open field area. Naturalization of the area could be used to improve the site.	Basin Naturalization
MB11	Plans for improving Indian Park (behind Borough's building near the recycling center) currently proposed. The project will improve the water quality at the park and restore the ecology of the park's pond. Improvements include wetland/stream restoration, educational programs and community plantings.	Wetland/Stream Restoration
MB12	Mill Race currently runs through Indian Park and during wet periods it fills and ponds, then slowly infiltrates into the ground. The area is currently lined with trees, however there is a possibility of naturalization.	Basin Naturalization
MB13	The Borough currently owns 140.6 acres (including the larger island in the river and a smaller portion north along Loyalsock Creek that extends North) near the Williamsport Airport; The area located in between the runway and river, located off of Miller St. The airport does not have stormwater runoff control (drains to swampland), and this area could help capture runoff. The area is swampland, but could possibly be improved.	Basin Naturalization

* See Map E-3 for Planned BMP Locations

**Table C-8
Borough of Montoursville Schedule of BMP Implementation**

Montoursville Borough Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
MB14	Farm Field located west of RT 180 W Highway in the Floodway of Loyalsock Creek, has an existing tree line stream buffer. Possible BMP improvements.	Basin Naturalization
MB15	Current paving projects are underway that have BMP implementation possible during construction, including curb cuts, detention basins, street trees, etc.	Street Trees

Montoursville Borough Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
1	Lycoming Township Newsletter distributed to residents of Montoursville that includes County Environmental Brochures and MS4 information.	MCM Compliance Breakdown
4, 5	Montoursville Township Stormwater Management Plan is currently provided by the Municipality.	Montoursville Township Stormwater Ordinance
5	Strategic Action to promote the use of conservation design techniques such as open space or conservation subdivisions.	Comprehensive Plan for Montoursville – Muncy Planning
5	Improvements to control drainage and runoff will be designed to increase infiltration and control rate of release of runoff off-site. Deed Covenants are suggested, which restrict the allowable impervious area on each lot, swales, basins, etc.	Ordinance 381 Zoning Ordinance
5	Drainage requirements and suggestions are provided in this section, and include, but are not limited to: Drainage Easement requirements, open channel suggestions, minimizing of impervious surfaces, etc.	Ordinance 453 Stormwater Management
5	Encourages integration of landscaping and stormwater management infiltration BMPs. Bio-retention facilities are specifically mentioned.	Ordinance 381 Zoning Ordinance
6	Strategic Action to review local and County ordinances for standards that require excessive impervious coverage, e.g. wider than necessary streets, excessive parking, etc. Revise such standards with provisions for better stormwater management practices, e.g. for shared parking, uncurbed streets, where appropriate.	Comprehensive Plan for Montoursville – Muncy Planning Area
6	Details Stormwater Management Facility inspection frequencies.	Ordinance 453 Stormwater Management

* See Map E-3 for Planned BMP Locations

**Table C-9
Old Lycoming Township Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOP.	Plan	N/A	N/A					
MCM 2-1	Adopt County PIPP Plan	Plan	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 3-1	Adopt IDD&E Plan	Plan	N/A	N/A					
MCM 3-3	Create Illicit discharge complaint tracking system	Report	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
MCM 5-2	Create BMP Tracking System	Report	N/A	N/A					
MCM 5-5	Create inspection program for proper BMP operation and maintenance	Plan	N/A	N/A					
MCM 6-3	Adopt written employee training program	Plan	N/A	N/A					
LC3	Flood-prone properties (Fairfield, Hepburn, Lycoming, Loyalsock, Montoursville, Old Lycoming) were/will be acquired, cleared, and returned to open space as part of the countywide flood mitigation initiative.	Open Space Restoration	N/A	N/A					
MCM 3-5	Record stormwater sampling & monitoring	Report	N/A	N/A					
OLT8	Relocated Recycling Facility at 1250 Princeton Ave, Old Lycoming Township PA 17701. BMPs to be implemented. Willing to do what is best for the community.	Rain Garden	41°15'15.37"N	77° 4'15.51"W					
					Structural BMP construction complete on or before this year.				
					Full permitting compliance achieved for BMP				

Old Lycoming Township Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
OLT1	Underground detention and infiltration on PSS property at 1431 Dewey Avenue.	UDS
OLT2	The Lacomie Detention Basin is located just South of Ridge Road between Lacomie Street and Round Hill Road in the Township. It is dredged and cleaned as often as necessary, depending on the number and magnitude of storms. The last major cleaning of the Basin was in 2013.	Infiltration Basin
OLT3	Detention and infiltration basin on Hillview Baptist Church property at 40 Hillview Avenue. Visually inspected at least every three months and cleaned as needed.	Infiltration Basin
OLT4	Oil/water separator and collection system at township maintenance building.	Oil/Water Separator
OLT5	Underground detention and infiltration on the C&N Bank Property at 1510 Dewey Avenue.	Infiltration Basin
OLT6	Stormtech Underground Detention System (UDS) on Susquehanna Bank property at 1901 Lycoming Creek Road	UDS
OLT7	Stormtech Underground Detention System (UDS) at site of CVS Store on Lycoming Creek Road.	UDS
OLT8	Relocated Recycling Facility at 1250 Princeton Ave, Old Lycoming Township PA 17701. BMPs to be implemented. Willing to do what is best for the community.	Rain Garden

Old Lycoming Township Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
3	Old Lycoming Township provides an up-to-date list of Storm Sewer Outfall Locations.	OLT StormSewer Outfall Locations
4	A Complete Erosion and Sedimentation Control (ESC) Plan is required for various land-disturbance activities. This section outlines ESC Plan eligibility requirements.	Old Lycoming Twp Chapter 22 Subdivision and Land Development
4	Outlines requirements for future landscaping, and limits removal of existing green space. BMPs are encouraged to facilitate drainage and reduce impacts from any removed vegetation.	Old Lycoming Twp Chapter 22 Subdivision and Land Development
4	Requires that all activities include measures to maintain buffers, minimize disturbance, and generally ensure that runoff is directed to pervious surfaces whenever possible.	Old Lycoming Twp Chapter 26 Stormwater Management
4, 5	Lycoming Creek Watershed Stormwater Plan adopted 2010.	MS4 Annual Report 2009-2010

* See Map E-3 for Planned BMP Locations

Table C-9

Old Lycoming Township Schedule of BMP Implementation

Old Lycoming Township Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
4, 5	Old Lycoming Township Stormwater Management Plan is currently provided by the Municipality.	Old Lycoming Township Chapter 26 Stormwater Management
5	Strategic Action to promote the use of conservation design techniques such as open space or conservation subdivisions.	Comprehensive Plan for Lower Lycoming Creek Planning Area
5	This section outlines grading requirements applicable to future development projects. It outlines grading design and cut/fill design requirements.	Old Lycoming Twp Chapter 22 Subdivision and Land Development
5	Outlines Storm Sewer requirements, and suggests using swales in lieu of or in addition to storm sewers wherever practicable. Gives design criteria for vegetated swales.	Old Lycoming Twp Chapter 26 Stormwater Management
6	Strategic Action to review local ordinances for standards that require excessive impervious coverage, e.g. wider than necessary streets, excessive parking, etc. Revise such standards with provisions for better stormwater management practices, e.g. for shared parking, uncurbed streets, where appropriate.	Comprehensive Plan for the Greater Williamsport Alliance Planning Area

* See Map E-3 for Planned BMP Locations

**Table C-10
City of Williamsport Schedule of BMP Implementation**

BMP ID	BMP/GI/LID Description	BMP Type	BMP Location		Permit Cycle 1 (April 2014 - March 2019)				
			Latitude	Longitude	Apr 2014 - Mar 2015	Apr 2015 - Mar 2016	Apr 2016 - Mar 2017	Apr 2017 - Mar 2018	Apr 2018 - Mar 2019
MCM 1-1	Review and update PEOB.	Plan	N/A	N/A					
MCM 2-1	Review and update PIPP.	Plan	N/A	N/A					
MCM 4-3	Create plan to record and manage public inquiries	Plan	N/A	N/A					
MCM 5	Compare Township/Borough Stormwater Ordinances to the MS4 Ordinance checklist.	Plan	N/A	N/A					
WC4	Rain Garden at Recycling Center.	Rain Garden	41°14'14.52"N	77° 2'37.21"W					
WC6	Detention basin at Laurel Run Circle.	Extended Detention Basin	41°14'10.19"N	77° 4'58.61"W					
					Structural BMP construction complete on or before this year.				
					Full permitting compliance achieved for BMP				

City of Williamsport Total Structural BMPs		
BMP ID	BMP/GI/LID Description	BMP Type
WC1	Bioretention/Storm Ceptor at William Street Kohl's Department Store. Six acre drainage area.	Rain Garden
WC2	Bio retention at Susquehanna Health parking area on High Street. Two acre drainage area.	Rain Garden
WC3	Infiltration Trench at YMCA construction site. 4.35 acres.	Infiltration Basin
WC4	Rain Garden at Recycling Center.	Rain Garden
WC5	Detention basin at Moran Logistics. Twenty-two acres.	Infiltration Basin
WC6	Detention basin at Laurel Run Circle.	Infiltration Basin
WC7	Installed 3 detention, 3 bio-retention, 1 infiltration trench, 1 infiltration basin, inlet sumps, and a bio-retention/storm cepter between 2003 and 2012.	Infiltration Basin
WC8	Reach Road Industrial Park Project will involve drainage improvements that include stormwater BMPs.	UDS
WC9	City of Williamsport reconstructed 2012 Street Reconstruction Project reconstructed ten (10) inlets and forty-two (42) catch basin inlets and converted thirteen (13) to safety grates at various locations throughout the municipality. Also constructed a new storm sewer which removed three (3) catch basins from the sanitary sewer system at the intersection of Court and W 3rd Streets.	UDS
WC10	New Parking Garage. Provide Streetscaping, street trees, BMPs	Street Trees
WC11	On Basin Street (Southeast of Route 180), there is a concrete triangle in the middle of the road that has BMP potential. Proposal to mimic the beautification that the traffic circles have (First Church volunteered their time to plant the flowers in existing traffic circles). Private maintenance for the project is possible, since adjacent traffic circles are privately maintained.	Rain Garden
WC12	Currently, a re-design of the intersection is under way near Bowman Field/Memorial Park. They have created a raised median strip (planter box), that would be a good location for bio infiltration. This can be coordinated with the current redesign of the intersection.	Rain Garden
WC13	Brodart Project. Curb cut to infiltration trench	Infiltration Trench
WC14	Street Improvement Project at the southeast corner of Pine Street and Edwin Street. Curb cut to infiltration trench	Infiltration Trench
WC15	Street Improvement Project at the northwest corner of Willow Street and William Street. Curb cut to infiltration trench	Infiltration Trench
WC16	Ways Garden project including pervious pavement parking lot	Pervious Pavement

* See Map E-3 for Planned BMP Locations

Table C-10

City of Williamsport Schedule of BMP Implementation

City of Williamsport Total Non-Structural BMPs		
MCM #	BMP/GI/LID Description	Document
1	When It Rain, It Drains brochure is distributed at events and available in the department offices. Also distributed to all applicants for building permits and land developments at the County Planning Department and the City of Williamsport Bureau of Codes.	MS4 Annual Report 2012-2013
1	Several hundred storm drain markers were purchased and installed to discourage dumping.	MS4 Annual Report 2012-2013; Storm Drain Marker News Release
1	Storm drain marker educational brochure (Only Rain Down the Storm Drain) designed and will be distributed in water and sewer bills.	MS4 Annual Report 2012-2013; "Only Rain" Brochure
1	E & S fact sheet distributed by MS4s and County.	MS4 Annual Report 2012-2013
1	Lycoming County staff performed a widespread public educational campaign about Chesapeake Bay issues including presentations made to various Williamsport local groups.	MS4 Annual Report 2012-2013; Public Education Plan
1	An "Erosion and Sediment Control for Earthmoving Sites" Fact Sheet prepared by the Lycoming County Conservation District was distributed to all developers and to any applicant for a building permit or land development approval.	MS4 Annual Report 2012-2013
3	All outfalls and receiving water-bodies mapped in GIS for entire urbanized area.	MS4 Annual Report 2012-2013; West Branch outfalls maps
3	Outfall screening and sampling conducted by Penn College environmental technology students (previously) and completed by City staff under the direction of Penn College staff.	MS4 Annual Report 2012-2013
3	Williamsport Bureau of Codes receives complaints and investigates illicit discharges into the city's storm sewer system. Reports are tracked through GeoPlan (GIS-based code enforcement program).	Illicit Discharge Detection and Elimination Plan
3	City of Williamsport works with the Williamsport Municipal Water and Sanitary Authority to investigate illicit sanitary connections to the storm sewer system.	Illicit Discharge Detection and Elimination Plan
3, 6	Williamsport Bureau of Fire personnel are trained with HAZMAT training to respond to spills of hazardous material to ensure that it does not enter the storm sewer system.	Illicit Discharge Detection and Elimination Plan
4	Under the amendment to the Stormwater Management Ordinance (adopted April 5, 2012), a stormwater management plan and E&S plan is required for any project with an earth disturbance activity of 5,000 square feet or more. Williamsport Bureau of Codes requires the review and approval of all E&S plans prior to the issuance of a building permit.	MS4 Annual Report 2012-2013
4	Planning and Zoning Code contains design and construction standards governing stormwater drainage. Requires erosion and sediment control BMPs for all regulated earth disturbance activities.	City of Williamsport Planning and Zoning Code
4, 5	Lycoming Creek Watershed Stormwater Plan adopted 2010.	MS4 Annual Report 2009-2010
5	Roof drains and sump pumps must discharge to infiltration or vegetative BMPs to the maximum extent practicable.	Stormwater Management Ordinance
6	Strategic Action to review local ordinances for standards that require excessive impervious coverage, e.g. wider than necessary streets, excessive parking, etc. Revise such standards with provisions for better stormwater management practices, e.g. for shared parking, uncurbed streets, where appropriate.	Comprehensive Plan for the Greater Williamsport Alliance Planning Area
6	Williamsport Department of Streets and Parks developed practices and procedures utilized during 2012 to control solids and floatable materials from being discharged into the city's storm sewer system.	MS4 Annual Report 2012-2013
6	Developed a maintenance plan for storm water facilities on the site of River Valley Transit and the Williamsport Department of Public Services at 1500 West Third Street.	MS4 Annual Report 2012-2013
6	The City of Williamsport and River Valley Transit, at their vehicle maintenance areas, has spill absorbent materials for use if necessary. Vehicle truck washing areas are designed with oil interceptor facilities which are regularly maintained. Department personnel are trained in the use of these facilities on a regular basis with review by the City's Safety Committee.	MS4 Annual Report 2012-2013
6	Green Infrastructure Assessment Project – study to looking at land cover contributing to urban runoff, calculate nutrient and sediment reductions, and identify geographic areas for implementation of BMPs.	MS4 letters of support for National Fish and Wildlife grant

* See Map E-3 for Planned BMP Locations

Table C-10

City of Williamsport Schedule of BMP Implementation

City of Williamsport Total Non-Structural BMPs

MCM #	BMP/GI/LID Description	Document
6	In preparation of a measurable rainfall event that considerable runoff is anticipated, city crews are dispatched to clean storm sewer grates prior to and during the storm event.	Sanitary Authority Report
6	City operates a Jet-Vac Truck and cleaned approximately forty-five (45) storm sewer basins and laterals during 2012.	Sanitary Authority Report
6	Public Service vehicles are washed inside of the 1550 W Third Street facility which is equipped with a sediment and grease trap cleaned on a monthly basis.	Sanitary Authority Report

* See Map E-3 for Planned BMP Locations