

2021 Monroe County Hazard Mitigation Plan - Municipal Project Opportunities

Municipality	Community Rank	Project Name	Mitigation Measures		Hazard Mitigated	Total Cost
			Description of Problem to be Solved	Project Description		
Barrett Township	N/A	Creek Bank Restoration	To preserve and retain stream banks to prevent flooding and/or road failures	Rebuild, reinforce existing stream and creek bank to prevent further erosion and/or road failure.	Flooding	N/A
Barrett Township	N/A	Road Failure Repair	Temporary repair of road failures such as potholes, cracks or washouts in a timely manner when PA Department of Transportation fails to act on reported hazards.	Having funding available, or mandating PENNDOT to act ASAP, in order to make temporary repairs to roads where it is a hazard to motorists.	Transportation Accidents	N/A
Barrett Township	N/A	Utility Relief	Compensation for time (manpower), equipment and fuel that is used when a municipality, fire company or law enforcement has to deal with downed utility lines.	Obtaining funding and/or enacting legislation against utility companies in order to compensate municipalities and fire companies for services provided to ensure public safety when there are downed wires	Utility Interruption	N/A
Barrett Township	N/A	Brodhead Debris Removal	Removal of dead trees and previous storm debris that clogs or diverts the flow of water allowing it to wash away road banks and/or flooding of Rt. 447 and potentially flood creek front properties and homes.	Appropriation of funds and/or being able to obtain permits to get into the creek and remove debris with heavy equipment.	Flooding	N/A
Barrett Township	N/A	Hazard Tree Removal	Removal of tree or manmade objects that could fall onto public property causing death, injury, or property damage especially during adverse weather events.	Being able to identify hazard objects, contacting private landowner(s) and obtaining permission to remove objects, removal and clean up.	Utility Interruption/Transportation Accidents	N/A
Coolbaugh Township	N/A	Coolbaugh Township Fire Headquarters	The current Coolbaugh Township Volunteer Firehouse Station 2, located at 8111 Wildflower Drive is a two bay garage which has been outgrown due to the tripling of the population in Coolbaugh Township since it was built. The current truck sizes are larger than previous trucks that were housed in the truck bays and the building is not able to be renovated to expand on the size due to the lot size and setback restrictions. The call volume for the Coolbaugh Township Volunteer Fire Company has increased drastically since the building was built. There is no designated area for the storage of gear in accordance to the NFPA standards. The new fire headquarters in being built in order to not only remedy the issues listed above but also to provide the best service and response time to the residents of the community. The project location allows for a centralized location to multiple communities within the Township. The new building and location will assist with recruitment of new volunteers in a time when volunteerism is so extremely low. The new building will be visible to many residents on their daily travels and will be appealing to those that may want to join.	The new Coolbaugh Township Fire Headquarters will be the home to an approximately 302,000 sq ft fire station. The new headquarters will be complete with seven bay truck garages, equipment storage room, gear storage room, office space, meeting room, training room, restrooms with showers and lockers, a kitchen, and four bunks for sleeping quarters. The new fire headquarters will allow the space for continued training and certification. This new fire headquarters will be a much needed addition to the community to ensure that the health and safety needs are met in a manner that the Coolbaugh Township Fire Company Volunteers are trained for.	Emergency Services	\$5,000,000 to \$7,000,000
East Stroudsburg Borough	1.6	East Stroudsburg Borough Levee Culvert Repairs	The most recent US Army Corps of Engineers inspection of the East Stroudsburg Flood Control Levee System identified 3 of the 17 culverts that pass through the flood control levee as starting to rust on the bottom. If these culverts were to fail, it would contribute greatly to the failure of the levee system, which would be catastrophic.	Line the existing culverts to preserve their life span.	Flooding	N/A

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East Stroudsburg Borough	3.3	214 Washington Street Stormwater Culvert Relocation	The building on the parcel is located on top of a Borough stormwater culvert. The Borough has no evidence that this building was permitted to be placed on a Borough stormwater management structure or that the culvert is designed to safely support a building. Borough engineering professionals report that said culvert is in poor shape and is in danger of collapse. The degradation of the culvert has resulted in cracks to the foundation of the building and subsidence around the building foundation and also in the rear off-street parking area. The stormwater culvert is a major component of the Borough's stormwater management system and any degradation and/or collapse of the culvert has the potential to result in flooding of properties upstream of the culvert that rely on the system to adequately manage stormwater in the Borough.	Obtain an easement from the private property owner and relocate and replace the stormwater culvert so it no longer adversely impacts the building nor the properties upstream.	Flooding	N/A
East Stroudsburg Borough	3.3	Day Street Stormwater Culvert Replacement	The flood control levee along the Little Sambo Creek does not have the required freeboard, and the culvert pipe that conveys the Little Sambo Creek under Day Street restricts the passage of flood waters.	Replace existing CMP culvert pipe with a larger pipe to enable the passing of larger flows and reduce the potential for overtopping the levee.	Flooding	N/A
East Stroudsburg Borough	N/A	Sambo Creek Streambank Stabilization	The Borough is required to submit a Pollution Reduction Plan (PRP) for the Sambo Creek Planning Area, designated as impaired for siltation along with the MS4 (NOI). A PRP must be developed outlining Best Management Practices (BMPs) to achieve a 10% sediment reduction in stormwater discharges from the East Stroudsburg MS4 planning area to the impaired water, the Sambo Creek. Unless a waiver is granted, the measures outlined in the PRP must be implemented within 5 years of the general permit issuance.	This reduction is to be achieved through the implementation of BMPs in the Sambo Creek Planning Area. Erosion of the Sambo Creek stream banks form the limits of the Borough boundary to the discharge in the Brodhead's Creek was at one location on the East Stroudsburg School District property near the confluence of the Brodhead and Sambo Creeks. Roughly 140 feet of erosion was observed at this point. The stabilization of the stream bank would reduce siltation of the creek.	Environmental Hazards	N/A
East Stroudsburg University	N/A	Mobil Decon Trailer	Expanding the country's emergency preparedness capabilities.	Mobil decon (shower) trailer. Trailer can be used for either technical decon at a hazmat incident, or at a shelter site. This was one of the major obstacles when the temporary hospital was set-up at ESU, showers for patients and also for medical personnel. I have experience with these trailer as one was purchased for Centre county. Trailer is handicap accessible and heated, along with hot water capabilities for the showers. I can get more info if needed.	Hazardous Materials	N/A
Eldred Township	1	Emergency Backup Generator for Township Municipal Complex & Emergency Management and Emergency Operations Center	Our municipal building houses our Township Administration Operations, our Public Works Department and our Township Emergency Management Operations and Emergency Operations Center. When we lose utility power, as we often do, our entire Township Administration Operations, Public Woks Department, and our Emergency Management Operations are not able to function. Our phone PBX and computer systems, as well as lighting, are compromised until such time that PPL, our utility carrier, is able to restore power.	To procure, install, and optimize a backup generator to provide electricity during those times when we lose power due to man-made or natural/weather related incidents.	Utility Interruptions	\$70,000.00
Hamilton Township	1	Manor Drive Bridge - Gravel Bar and Vegetation	In the McMichael Creek at Manor Drive a sand bar/gravel bar has reduced the clearance beneath the bridge, thereby creating an obstruction to water flow, especially during high flow events. Additionally, trees and shrubs have dislodged from the stream bank further enhancing the obstruction. Additional flooding at this area increases hazard to Pleasant Valley Manor, Monroe County Correctional Facility, and Burnley Workshop, all settings with at risk population.	Removal of vegetation and restoration of creek bed to previously existing elevation by removing sand bar/gravel bar.	Flooding, Hurricanes/Tropical Storms	N/A

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Hamilton Township	2	Beaver Dams Near Middle Easton Belmont Pike	Numerous beaver dams combine to create a complex which has flooded the property of 3532 Middle Easton Belmont Pike. Continued flooding jeopardizes numerous residences, commercial entities, as well as the Monroe County Office of Emergency Management site.	Beaver removal by qualified wildlife biologist and removal of dams.	Flooding, Hurricanes/Tropical Storms	N/A
Hamilton Township	3	Ash Tree Removal	The invasive Emerald Ash Borer has resulted in the death of virtually every ash tree in the township (county). The dead ash trees present a hazard in the following ways: 1) Threat to fall on pedestrians or motorists, 2) blockage of roadway, 3) blockage of waterways. The ash trees are prevalent throughout the township, some areas with greater concentrations of ash trees include Walters Road, Cherry Valley, Turkey Hill Road, etc.	Cutting of diseased/dead ash trees. Removal of debris when threatening roadways or obstruction of waterways.	Transportation Accidents, Tornadoes, Windstorms, Invasive Species	\$150,000.00
Hamilton Township	4	East Terrace Drive Bridge Stream Channel Realignment	Flooding from Tropical Storm Isaias caused a realignment of a stream channel which has caused scouring of the bridge base.	Realign approximately 100 feet of stream channel at approx. 8 feet wide, and support bridge base against future scouring.	Flooding, Hurricanes/Tropical Storms	\$100,000.00
Hamilton Township	5	Road Shoulder/Streambank Erosion Spruce Woods Road.	Long standing streambank erosion on the south side of Pensyl Creek has caused road bank erosion on Spruce Woods Road just west of Neola Road.	Support road shoulder with large sized rock and fill to maintain road integrity.	Transportation Accidents, Flooding	\$100,000.00
Hamilton Township	6	Road Shoulder/Streambank Erosion Old Mill Road.	Long standing streambank erosion along the Lake Creek and McMichael Creek portions of Old Mill Road has caused road bank erosion on Old Mill Road in two nearby locations.	Support road shoulder with large sized rock and fill to maintain road integrity.	Transportation Accidents, Flooding	\$80,000.00
Hamilton Township	7	Brick Church Road Drainage Pipe	Drainage pipe under Brick Church Road at Spring Run, near intersection with Meadowlake Road has faced structural issues exacerbated by Tropical Storm Isaias.	Replacement of drainage pipe.	Flooding, Hurricanes/Tropical Storms	\$250,000.00
Hamilton Township	8	Pine Lane Drainage Pipe Collapse	Pipe collapse from storm drainage and excessive sedimentation runoff has caused a 50 foot long drainage pipe to clog and collapse. Problem is complicated by utility crossing, private driveway, and a lack of alternative ingress and egress for approx. five families on Pine Lane	Replace pipe and create a secondary bypass pipe.	Flooding, Hurricanes/Tropical Storms	\$90,000.00
Hamilton Township	9	Stream Obstruction, Unnamed Tributary on Neola Road	Flooding from Tropical Storm Isaias has caused numerous mature trees to obstruct the unnamed tributary on Neola Road approx. 150 yards west of Rt. 209. These trees are immediately downstream of a small bridge and continued flooding can compromise the bridge and roadway as well as cause downstream impacts.	Vegetation removal from the unnamed tributary.	Flooding, Hurricanes/Tropical Storms, Transportation	N/A
Hamilton Township	10	Pensyl Creek Road Bank/Streambank Erosion and Stream Channel Realignment	Flooding from Tropical Storm Isaias has caused channel realignment of the Appenzell Creek, caused streambank erosion and destabilization, and road bank erosion. A number of residences are no longer able to directly access their properties.	Re-establish stream crossings for residents impacted, realign stream channel as necessary, place large rock and fill to stabilize road bank.	Flooding, Hurricanes/Tropical Storms	N/A
Hamilton Township	11	Hazard Awareness Directional Signs	Hamilton Township lacks ability to communicate with both the public and travelling motorists in cases of emergency and public issues.	Purchase of two or more portable, programmable, solar powered message signs. Signs can be used for hazard awareness, road detours, and public health information.	Transportation	\$30,000.00
Hamilton Township	12	Importation of "Clean Fill"	Importation of "clean fill" has occurred in very large volumes at a number of sites. This large-scale importation of fill reshapes the topography and increases risks during flooding as well as increases leachate potential of any off spec product.	Cease "clean fill" operations.	Flooding	N/A
Jackson Township	1	Camelback Road Infrastructure	Began in 2014. Previously submitted as a project. Road too small to get Emergency Vehicles in during high volume events.	This was brought to the County meeting in 2016. Planning Commission was in attendance.	Emergency Services Shortage	N/A
Jackson Township	2	Brush Fires	Fuel load reduction, 10% of Township fuel load greatly reduced by DCNR via controlled burns.	Previously submitted as a project in 2016.	Wildfires	N/A
Jackson Township	3	Municipal Building Renovations	Renovations necessary to improve security.	Renovate offices: install bullet proof walls/glass, security cameras, upgrade ADA, emergency egress.	Terrorism	\$1,200,000.00
Jackson Township	4	Barton Glen Road Pipe	Wash outs, flooding.	Relace piping/ redirect water flow. Barton Glen Home Owner's Association approval necessary. Previously submitted as a project in 2016. Went to state level and did not move any further.	Flooding	\$555,316.00

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Jackson Township	5	Running Valley Rd/Johnson Lane	Water runoff/flooding	Replace drainage pipe to increase flow. Project was previously approved. Then reassessed by MCCD. Engineering costs increased dramatically. Project was placed on hold due to lack of funding.	Flooding, Hurricanes/Tropical Storms	\$325,000.00
Jackson Township	6	Spruce Woods Road Stream Bank	Stream washing out embankment of road.	Jackson Twp. And Hamilton Twp. joint municipal work with MCCD (grant project).	Flooding, Transpiration	N/A
Jackson Township	7	Jackson Mt. View Dr./Bridge	Bridge damage/erosion	Fix bridge deficiencies. Steel structure is compromised and needs to be enlarged to accommodate water flow. Approx. 30 homes in development - only means of entrance exit for residents.	Flooding, Transportation	N/A
Middle Smithfield Township	3	Barren Road GSR	Flash flooding due to piping being overwhelmed.	Construct new bridge using GSR. Bridge size 20' x 26'.	Flooding, Transportation	\$84,812.00
Middle Smithfield Township	5	Creek Road Storm Effects	Numerous trees have fallen into Marshalls Creek from storms over the past couple of years. A major storm could cause significant flooding, impacting numerous residents in that area. Damage could be catastrophic	Removal of trees from the creek to eliminate possible damming.	Flooding, Hurricanes/Tropical Storms	\$1,000,000.00
Monroe County	N/A	Monroe County Drug and Alcohol Overdose Prevention Coalition	The task force meets the second Thursday of the month, with the exception of July and December. We follow a strategic plan which is attached. Specific overdose initiatives are around raising awareness of how to get treatment, distribution of naloxone, and overdose awareness event/pinwheel display.	See attached plan.	Opioid/Substance Abuse	N/A
Mount Pocono Borough	1	SR611 Downtown Pedestrian Crossing	There are currently no safe pedestrian crossings in downtown Mount Pocono. Downtown has four active lively child-focused businesses - 2 on each side of the SR611 - with no way to cross the road. Traffic on this busy SR through town does not stop anywhere, and traffic will only increase in ears to come with more resort business, economic development, and trucking warehouses.	Signaling SR611 at Knob Road & Fairview Ave and enhance cross walks to provide safe pedestrian crossing areas (2) [Flashing yellow during winter storms]	Transportation Accidents, Winterstorms	\$600,000.00
Paradise Township	N/A	Devils Hole Road Culvert Replacement Over Tank Creek	Paradise Township is proposing to replace an existing structurally deficient seventy-eight inch (78") diameter CMP culvert beneath Devils Hole Road (T-561) that supports Tank Creek. The existing culvert will be replaced with a precast 3-sided concrete box culvert with associated wingwalls.	Devils Hole Road Culvert Replacement Project. Replacement of a deteriorated seventy-eight inch (78") diameter corrugated metal pipe (CMP) culvert under Devils Hill Road with a proposed precast 3-sided box culvert and associated wingwalls requiring a GP-11 Permit.	Flooding	\$317,220.00
Pocono Township	N/A	Learn Rd / Rt611 Flood Mitigation Project	With the past few floods Pocono Township has had, Learn Rd. will flood to the extent of backing all the way to Rt. 611. Flooding occurs all through Learn Rd. and will flow over to Rt. 611, causing flooding at Alger ave intersection, and Cherry Lane Rd / Warner Rd. intersection.	Re-route stormwater drainage system to include all of learn Rd. Replace 18" pipe to 36" pipe add approx. 15-20 D-boxes, re-route stormwater flow to drainage field near Fish Hill Rd. Re-cut & line swale in between Resort Beverage to help with Rt.611 flooding of Cherry Lane Rd. intersection.	Flooding, Transportation Accidents	\$750,000.00
Pocono Township	N/A	Learn Rd, Fish Hill Rd, Old Mill Rd, Rt 611	Throughout the years Pocono Township has had a major problem with accidents at the above mentioned intersection. Over a 7 year span there have been 35 accidents. Pocono Township has eliminated one of the road intersections (changing it from 5 to 4); this has helped, but still presents a large safety issue from a driver's point of view.	Re-align intersection & integrate Fish Hill Rd. back into the mix in a safe manner.	Transportation Accidents	\$750,000.00

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Pocono Township	N/A	Traffic Management Plan	<p>With Pocono Township being in the center of Monroe County, Pocono finds themselves in a traffic dilemma 3/4 of the year. With the large amount of tourism Pocono's transient occupancy goes to 60k. If there is an issue on 33, 209, or Rt 80, traffic will route through Pocono Township. With the constant demand for police calls and traffic calls, it puts a strain on manpower with putting things into complete gridlock 75% of the time. Pocono was selected for a Greenlight Go for complete automation grant from PennDOT but was later excluded from funding due to Covid-19. With it being such a large scale project the money will not be available from the state for a project of this magnitude for many years. By adding camera systems, proper dispatching can help eliminate traffic and help control center to properly route emergency calls.</p>	<p>By installing (2) 2.8 mm 8mp IP cameras at each intersection listed above along with NVR system to be integrated in box. Would be able to be viewed by control center, PTPD & PTPW & PTEMA.</p>	Transportation, Emergency Services	\$32,000.00
Pocono Township	N/A	Traffic Safety Management Plan	<p>With Pocono Township being in the center of Monroe County, Pocono finds themselves in a traffic dilemma, with intersection accidents rapidly growing. With the large amount of tourism, Pocono's transient occupancy goes to 60,000, leaving tourists to rely on GPS that is not always correct. Fog, snow, and heavy rains provide visibility problems on an extremely busy road. Pocono utilizes Rt. 611 as its major artery for around town. The lights that are not listed in Pocono are set for realignment from PennDOT, so these have been moved to a second phase for this safety program.</p>	<p>By installing illuminated street signs to be hung from each traffic signal intersection poles. A total of 22 single sided LEDs (energy efficient).</p>	Disorientation, Transportation Accidents	\$20,000.00
Polk Township	N/A	Dotters Corner Road, Jonas Road, SR 534 Intersection and Flooding on RT 534	<p>The three roads are unaligned in vertical heights and there is no sight distance. The drainage pipes to the North across RT 534 are inadequate and the roadway floods in a bad curve and then travels across a homeowner's property and onto Dotters Corner Road west of the intersection.</p>	<p>Realign the roads to a height that allows for better sight distance. Bigger drainage pipes under RT 534 and a detention basin are needed to handle the large volumes of water flowing off of Jonas Mountain.</p>	Transportation Accidents/Flooding	N/A
Polk Township	N/A	Lower Green Hill Road	<p>The road is a farmland flood plain and often has water ponding across the road. It is an extremely flat area, and the road needs to elevate and drain properly.</p>	<p>Elevate approximately a quarter mile of roadway.</p>	Flooding	N/A
Polk Township	N/A	Mertz Road, Smith Road, and Memorial Drive Realignment	<p>The three roads connect in a hazardous irregular substandard traffic pattern that dissects a very active camp with approximately 500 daily vehicle trips. The "Y" shaped intersection has serious deficient sight distances. Campers walk along and cross the very narrow dangerous roadways. Winter ice sheeting is also a problem due to the three roads unaligned connections.</p>	<p>Removal of two sharp curves and increasing the grade on Memorial Drive will improve the sight distance for motorists and pedestrians. Widening of the roads, adding signage, a public crossing safety zone and safe designated walking paths would alleviate this dangerous location and save lives.</p>	Transportation Accidents	N/A

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Polk Township	N/A	Silver Spring Blvd., SR 209, and Polk Township Road	The three roads connect in hazardous irregular substandard intersection that needs realignment. It is a very busy intersection that does not allow for the many tractor trailers and school buses that try to turn into and out of a 40-degree angle, where there is no sight distance, and the turn can only be made by going into the opposite lane of traffic in all 4 directions. The area lacks signage and traffic control devices. SR 209 in this area also has drainage problems during heavy rains. This traffic hazard area will continue to become more dangerous as a new Waste Transfer Station is now using the intersection and Nestle Water Extraction Company is also planning to use the same roadway intersection for their tankers.	Obtain available land, which would allow for realignment of 90-degree angle intersections and a traffic signal to be timed with the 534/209 traffic signal. Widen the roadways. SR 209 also requires additional drainage pipes and detention basins in this area.	Transportation Accidents	N/A
Polk Township	N/A	Upper Green Hill Road	The steepness of the tree-lined roadway causes driveway and roadway washout issues and dangerous icing during the winter. It is extremely dangerous during snowstorms; Township trucks have even slid into the ditch.	The very dangerous curves need to be widened, with special attention to drainage problems that wash out the edges of the road and resident's driveways. Additional guide rail is also needed. The MCCD Dirt and Gravel Agency has also reviewed the situation and has determined it is available for funding due to conservation efforts.	Transportation Accidents	N/A
Polk Township	N/A	Vertical Improvement to SR 209 at HTY Road	Very poor sight distances in both directions, due to elevated roadway of RT 209 near H.T.Y. intersection. Unsafe passing is taking place in this section of the highway that a high volume of school buses uses for the elementary and intermediate schools in Pleasant Valley School District.	Correct the sight distances for traffic in both directions by reconstructing the roadway to an acceptable visual sight distance standard for the designated speed limit. This would entail removing the high spot in the roadway and properly remarking the roadway and possible turning lane onto H.T.Y. Road.	Transportation Accidents	N/A
Smithfield Township	1	Green Mountain Dr. Bridge	Smithfield Township needs to ensure continued access to Green Mountain Drive, and is pursuing two options for mitigating this problem. Option 1: repair or replace the bridge to remove the weight limit. Option 2: The township is in discussion with the owner of 528 Seven Bridge Road to pursue a permanent road easement on their property, which would bypass the bridge entirely. This requires negotiating with the property owner to procure the easement, checking with PennDOT for any HOP requirements, and installing a new road. The township would keep the bridge open for pedestrians and bikes only, and would no longer be the main access point to Green Mountain Drive.	Green Mountain Drive bridge is in serious need of repairs. PennDOT requires the bridge to be posted for 15-tons. This bridge is the only access point for a community, and this weight limit would prevent large trucks from entering the development.	Transportation Accidents	Option 1: \$500,000 to \$1,000,000. Option 2: \$250,000.00
Smithfield Township	2	Marshalls Falls Park	These parcels contain Marshalls Falls, a local waterfall. There is no safe place to park to access the falls, so visitors park along the narrow, curving road, or illegally park on private property. Walking to the falls along this narrow road creates dangerous traffic situations. Inside the property, much of the established trails are in floodplains of floodways and are prone to becoming slippery and unsafe. A popular overlook forces visitors to climb a steep incline and the overlook itself has no handrails to prevent visitors from falling. The township closed the property to visitors and posted security guards to keep visitors from parking on the roads, but visitors continue to access the park illegally.	Smithfield Township plans to build a parking lot on the parcel to eliminate illegal and dangerous parking habits and provide safe access to the falls. The township also plans to pave the trails to the falls and install steps and handrails at the overlook to help prevent injuries.	Transportation Accidents	\$489,000.00

