Maine Turnpike Authority
2360 Congress Street
Portland, Maine 04102

September 15, 2016

Mr. Mike Mullen
Bureau of Land and Water Quality
Maine Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017

SUBJECT: Maine Turnpike Authority (MTA)
Memorandum of Agreement (MOA) for Storm Water Management
2015 Annual Progress Report

Dear Mr. Mullen:

MTA is pleased to submit the 2015 Annual MOA Progress Report for your review. Please do not hesitate to contact me at (207) 871-7771 ext. 359 to discuss this report, should you have any questions.

Respectfully,

John M. Branscom
Environmental Services Coordinator
Maine Turnpike Authority

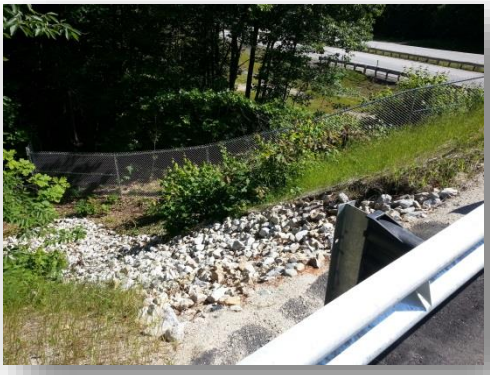
Enclosure: 2015 Progress Report on Implementation of the Stormwater MOA

Cc: Peter Merfeld, MTA
Steve Tartre, MTA
John Cannell, MTA
Brian Taddeo, MTA
Bruce Van Note, MTA
Aimee Mountain, GZA GeoEnvironmental

MAINE TURNPIKE AUTHORITY

2015 ANNUAL PROGRESS REPORT
ON IMPLEMENTATION OF THE STORMWATER
MEMORANDUM OF AGREEMENT






Prepared by:
Maine Turnpike Authority

Submitted:
September 2016

think blue
clean water starts with you!

Stormwater Protection in Maine

I. INTRODUCTION

This Annual Progress Report has been prepared to satisfy the requirements in the Stormwater Memorandum of Agreement (MOA), dated November 14, 2007 as adopted by the Maine Department of Environmental Protection (DEP), Maine Department of Transportation (MaineDOT) and Maine Turnpike Authority (MTA). This report summarizes MTA's compliance status with respect to the MOA requirements during calendar year 2015. Additional documentation and data pertaining to construction projects and activities (e.g., training, certification, etc.) performed; projects and activities anticipated to occur in 2016; and a list of staff or designees who provided oversight with respect to erosion and sedimentation control and stormwater control are maintained on file at MTA.

II. 2015 CONSTRUCTION PROJECTS

As required by MTA Supplemental Specifications and Special Provision 656 – Temporary Soil Erosion and Water Pollution Control, all MTA construction projects with earth disturbance are required to install, maintain, inspect, and document erosion control measures. Compliance with these requirements is tracked as part of MTA's Construction Project Environmental Compliance (CPEC) Program. Each erosion control measure is selected from, and installed consistent with the MaineDOT Best Management Practices (BMP) for Erosion and Sedimentation Control Manual.

In 2015, the MTA initiated 16 construction projects subject to the CPEC Program. The majority of the MTA construction activities were focused on bridge repair/maintenance projects and pavement rehabilitation. Other construction projects conducted by MTA included clearing, resurfacing, culvert repairs, interchange improvements, and toll plaza upgrades. A complete list of the 2015 construction projects is provided as **Table 1**. Below is a summary of the MOA applicability for MTA's 2015 construction projects:

- All MTA projects were located within an existing travel corridor, with the exception of contract 2015.14 – Gray Park and Ride and Preload for Gray Interchange and contract S2015.53 – Slope and Drainage Repairs - Route 100;

- Four (4) of MTA's construction projects were located within Urban Impaired Stream (UIS) watersheds, and nine (9) projects were at least partially located in a regulated Municipal Separate Stormwater Sewer System (MS4) Urbanized Area (UA).

- Maine Construction General Permit (MCGP) coverage was obtained for stormwater discharges originating from eight (8) sites with Limit of Disturbance (LOD) equal to or greater than 1 acre. Additionally, one 2014 project permitted under the MCGP was completed in 2015 (2014.16 - Bridge Repair and Rehabilitation) and another 2014 project permitted under the MCGP (2014.10 - Lewiston Interchange - Phase II) is on-going.

In 2015 only one MTA construction project required treatment of stormwater in accordance with the General Standards of Chapter 500 Stormwater Management. Relocation of the Gray Park and Ride resulted in 53,579 square feet of new impervious surface. As part of this project, three ditch turn-out buffers diverted to level lip spreaders were installed in accordance with Chapter 500. An

inventory of permanent BMPs installed, as well as the inspections and tracking of post-construction operations and maintenance (O&M) on construction projects is also maintained as part of MTA's CPEC Program.

III. MAINTENANCE OPERATIONS

MTA's Highway Maintenance Department continues to track O&M tasks performed along the MTA right-of-way (ROW). The most common maintenance activities accomplished in 2015 included shoulder/slope repairs, litter picking, and sweeping of paved (impervious) surfaces from Kittery to Augusta, including roadways, toll plazas, service plazas, etc. Other O&M highlights from each maintenance facility (MF) in 2015 included:

- The Auburn MF staff repaired washouts (i.e., erosional features) at approximately three roadway shoulder locations, performed slope repairs from a motor vehicle accident at Exit 75, removed sand from the medians, as well as repaired median culverts and their associated catch basins.

- The Crosby MF staff performed maintenance and repairs on multiple pothole locations at Exit 46 East and West. Staff removed brush and vegetation at various locations along the Exit 45 Northbound (NB) ramp. The MF staff mowed, removed litter, and removed sand from the median along the main line. Lastly, staff repaired two areas between mile marker (MM) 37 (Saco) and 53 (Falmouth) that had minor washouts due to heavy rains.

- The Gardiner and Litchfield MF repaired, seeded, mowed, loamed and hayed approximately 12 different areas. The staff replaced culverts and associated riprap at approximately five locations along the main line and swept and removed sand from the median. Maintenance crews also replaced oil-only absorbent devices (PIG® Sump Skimmers) in catch basins at the West Gardiner Service Plaza.

- The Gray MF staff repaired a culvert washout at MM 63 (Gray) Southbound (SB) by replacing riprap, hydro seeding, and applying hay mulch. Staff also mowed the ditches and swales of approximately 22 locations along the turnpike in their jurisdiction.

- The Kennebunk MF staff preformed repairs on the Route 35 SB plow ramp and median between MM 20 (Wells) and 37 (Saco). Staff mowed the ditches and swales between MM 20 (Wells) and 37 (Saco). Staff maintained and repaired three culvert areas for better drainage at MM 24 (Kennebunk), 35 (Saco) and 31 (Biddeford). The MF staff also repaired or excavated four ditching areas that had been washed out.

- The York MF staff placed hay mulch at the Wells Toll Plaza as well as repaired ditching for Exit 19 NB on ramp. The MF staff replaced signs, repaired guardrails, and removed sand from the median, as well as cut and chipped brush and fallen trees.

MTA performed annual inspections of the catch basins and associated pipeline outlets along the ROW. Repairs and catch basin cleanouts are subsequently performed within MTA ROW, as needed. The sediments removed during the cleaning were managed in accordance with established DEP protocols for waste management and beneficial reuse.

Consistent with previous years, Highway Maintenance crews utilize weekly summary reports and transfer the data relating to stormwater or soil and erosion control activities to quarterly O&M reports to document MOA compliance. The Environmental Services Coordinator conducts:

- Periodic review of the quarterly O&M reports at each Highway Maintenance Facility to track progress throughout the year;
- Joint quarterly inspections of each Highway Maintenance Facility to address stormwater and erosion control issues with the Foremen to supplement their monthly inspections;
- Audits of construction projects with Foremen to review the post-construction O&M Plan requirements for permanently installed BMPs as part of MTA's CPEC Program; and
- Annual training on stormwater, erosion/sedimentation control and spill prevention topics for both MTA's Highway Maintenance and Engineering personnel.

In addition to the daily maintenance operations completed by MTA's Highway Maintenance Department, a comprehensive inspection of MTA's ROW is conducted each year by a professional engineering consultant. This inspection (generally referred to as the "Annual Inspection") addresses pavement, cut sections, embankments, bridges, roadway lighting, drainage structures, signs, pavement markings, toll plazas, utility buildings, service areas, maintenance areas and other facilities. Upon completion of the inspection, MTA receives a report that provides guidance and recommendations as to the proper maintenance, repair, and operation of the Highway during the ensuing fiscal year.

IV. ADDITITONAL PROGRAMS AND TRAININGS

In 2015, the MTA's CPEC program was utilized to manage, monitor and document stormwater-based compliance issues in order to ensure stormwater-related activities and other environmental considerations are documented and filed in a single binder for each construction project. The CPEC binders provide project-based compliance documentation from Project Development (e.g., planning, permitting, design, etc.) through Post-Construction, when projects are inspected by the Highway Maintenance Foremen as part of the O&M Plans for recently completed projects. The implementation of the CPEC Program ensures compliance with Chapter 500/MOA requirements and the applicable Maine Pollutant Discharge Elimination System (MEPDES) Program permits, such as the MS4 permit and the MCGP.

Each year, the MTA conducts stormwater training for employees in accordance with its MS4 Stormwater Program Management Plan (SPMP). This stormwater training is combined with Erosion and Sedimentation Control (ESC) training and includes a discussion of the MOA. The training was held in May and June of 2015 and was attended by 84 MTA employees, including maintenance personal and engineering inspectors.

V. 2016 CONSTRUCTION PROJECTS

In 2016, MTA's construction projects are focused primarily on bridge repair/rehabilitation and pavement rehabilitation/resurfacing with additional projects involving clearing, toll conversions,

and interchange improvements. These projects are summarized in **Table 2.** As seen in **Table 2**, several 2015 projects have extended into 2016, and with the exception of contract 2016.02 (Gray Interchange Improvements) all projects are located within an existing travel corridor or developed property (i.e., Service Plaza or Park and Ride).

The CPEC program will be utilized for these projects to document compliance with Chapter 500/MOA requirements and other environmental considerations. Post-construction O&M Plans will be prepared and implemented for newly installed BMPs to facilitate long-term functionality and treatment efficacy.

MTA's Highway Maintenance Department has no specific plans to perform new construction projects with BMP requirements beyond the Chapter 500 Basic Standards. Construction projects to be performed by MTA Highway Maintenance are anticipated to be limited to improvements to existing infrastructure and the associated land disturbances are expected to be limited in nature.

VI. STORMWATER MOA OVERSIGHT

Stormwater MOA compliance and oversight is provided by the following MTA personnel, most of whom are professional engineers and/or certified under the DEP's Non-Point Source (NPS) Training Program:

MTA Personnel	MTA Job Title
John Branscom	*Environmental Services Coordinator*
Peter Merfeld, P.E.	*Chief Operations Officer*
MTA Engineering Personnel	
Steve Tartre, P.E.	*Director of Engineering and Building Maintenance*
Scott Warchol	*Construction Program Manager*
Jeff Nadeau, P.E.	*Resident Engineer*
Ralph Norwood, P.E.	*Project Manager*
J. Ryan Leavitt, P.E.	*Senior Resident Engineer*
Scott McConihe	*Inspector*
Gerry Ouellette	*Inspector*
Jody Dyke	*Inspector*
MTA Highway Maintenance Personnel	
John Cannell	*Director of Highway & Equipment Maintenance*
Brian Taddeo, P.E.	*Highway Maintenance Engineer*
Roger Mathews	*Highway Division Supervisor*
Andy Perry	*Highway Division Supervisor*
Dale Cook	*Foreman at Gardiner and Litchfield Highway Maintenance Facility*
Rick Dionne	*Foreman at Auburn Highway Maintenance Facility*
Jeff Stevens	*Foreman at Gray Highway Maintenance Facility*
Bill Thompson	*Foreman at South Portland (Crosby) Highway Maintenance Facility*
Jim Sotir	*Foreman at Kennebunk Highway Maintenance Facility*
Joe Violette	*Foreman at York Highway Maintenance Facility*

In addition to these MTA staff, several engineering consulting contractors provide additional technical and professional services to MTA regarding stormwater and erosion control maintenance, inspection, design, planning, permitting and compliance.

VII. CONCLUSION

MTA consistently applies appropriate engineering design and construction practices to its projects to successfully meet the requirements of the current stormwater MOA. MTA management remains committed to post-construction operations and maintenance, and increased education for its employees. MTA proactively manages stormwater and erosion control issues to protect the environment and comply with the conditions contained in the current MOA.

TABLES

Table 1 – Review of 2015 MTA Construction Projects

Table 2 – Review of 2016 MTA Construction Projects

TABLE 1
REVIEW OF 2015 MTA CONSTRUCTION PROJECTS
Based on MaineDOT ENV Ch 500/MOA Flowchart

Contract Number	Contract Type	Description of Work	Existing Corridor	Applicable Standards[1]	Limits of Disturbance (LOD)[3]	Amount of New Impervious Cover (IC) or Developed Area[4]	Located within Urban Impaired Stream (UIS)[5]?	MOA Reportable[6]	Other Stormwater Permits
2014 Construction Projects Active in 2015									
2014.02	Other (Clearing)	**Gray/New Gloucester/Auburn:** Roundside Clearing MM 63.0-75.3	Yes	Basic[2]	-	No changes expected	No	No	None
2014.10	Interchange Improvements	**Lewiston:** Interchange Improvements to Exit 80 – Phase II (Bridge and Mainline) MM 80.3	Yes	Basic[2] + General	14.4 acres	34,000 sf of New Impervious Cover 110,000 sf of New Landscaped Area	**Yes (Hart Brook)**	**Yes**	MS4 UA, MCGP
2014.13	Bridge Repair & Rehabilitation	**Falmouth:** Piscataqua River Bridge Repairs MM 55.5 to MM 56.6 (Piscataqua Bridge Structures #28 & #31)	Yes	Basic[2]	0.84 acres	No changes expected	No	No	None
2014.16	Bridge Repair & Rehabilitation	**York:** Wearing Surface Replacement and Substructure Rehabilitation at York River Bridge MM 5.20 and Web Stiffener Rehabilitation at Cutts Road Bridge MM 3.10	Yes	Basic[2]	1.74 acres	16,553 sf of New Impervious Cover	No	No	MS4 UA, MCGP
Construction Projects Initiated in 2015									
2015.01	Resurfacing & Bridge Repairs	**Portland/Falmouth:** Pavement Rehabilitation MM 51.2 to MM 54.5 and F 0.0 to F 3.8, Guiderail and Clear Zone Improvements MM 51.1 to MM 55.0 and F 0.0 to F 3.8, and Route 9 Bridge Repairs F 3.7	Yes	Basic[2]	2.26 acres	No changes expected	No	No	Portions MS4 UA, MCGP
2015.02	Resurfacing & Bridge Repairs	**New Gloucester/Auburn:** Pavement Rehabilitation MM 68 to MM 75 and Bald Hill Road Bridge Repairs	Yes	Basic[2]	0.5 acres	No changes expected	No	No	Portions MS4 UA
2015.03	Resurfacing & Bridge Repairs	**South Portland/Portland:** Bridge Repairs at Exit 45 Bridge MM 44.9 and Exit 46 Bridge MM 46.3, Pavement Rehabilitation at Exit 46 MM 46.3, and Miscellaneous Turnpike Repairs MM 44.0 to MM 49.01 and F 0.6	Yes	Basic[2]	0.97 acres	10,700 sf of New Impervious Cover	**Yes (Long Creek / Nasons Brook / Capisic Brook)**	No	MS4 UA
2015.04	Bridge Repair & Rehabilitation	**Kittery/York:** Southerly Bridge Repairs - Route 1 On-Ramp (Ramp H) Underpass MM 1.8, Route 1 SB Over I-95 On-Ramp (Ramp M), Mountain Rd Underpass MM 10.6, Clay Hill Rd Underpass MM 11.9, Cape Neddick River Culvert MM 9.6, Josias River Culvert MM 11.8	Yes	Basic[2]	0.1 acres	No changes expected	No	No	Portions MS4 UA
2015.05	Interchange Improvements	**Wells:** Wells Interchange Capacity Improvements	Yes	Basic[2]	0.21 acres	573 sf of New Impervious Cover	No	No	None
2015.06	Other (Lane Addition)	**Saco/Arundel:** Saco Toll Plaza (Interchange 36) Lane Addition and Variable Message Sign Relocation to Mainline in Arundel MM 28.3	Yes	Basic[2]	2.59 acres	16,171 sf of New Impervious Cover	**Yes (Goosefare Brook)**	No	Portions MS4 UA, MCGP
2015.07	Other (Clearing)	**Auburn/Lewiston/West Gardiner/Farmingdale/Hallowell/Augusta:** Clearing MM 75-83 and 99.2-109.1	Yes	Basic[2]	-	No changes expected	**Yes (Hart Brook)**	No	Portions MS4 UA
2015.09	Other (Toll Upgrades)	**Falmouth:** Toll system upgrades at Exit 53 (MM 52.4)	Yes	Basic[2]	3.68 acres	12,040 sf of New Impervious Cover	No	No	MS4 US, MCGP
2015.10	Bridge Repair & Rehabilitation	**Litchfield:** Superstructure Replacement at Lunts Hill Road Underpass MM 99.0	Yes	Basic[2]	1.5 acres	No changes expected	No	No	MCGP
2015.11	Other (Toll Conversion)	**West Gardiner:** West Gardiner Barrier Toll Plaza Open Road Tolling Conversion MM 100.2	Yes	Basic[2]	4.1 acres	9,588 sf of New Impervious Cover	No	No	MCGP
2015.12	Other (Toll Upgrades)	**Biddeford/Saco/Portland:** Toll system support upgrades at Exits 32, 36, and 46 NB (MM 31.6, 35.7, and 46.4)	Yes	Basic[2]	2.77	27,007 sf of New Impervious Cover	**Yes (Thatcher Brook / Goosefare Brook / Long Creek)**	No	MS4 US, MCGP
2015.13	Other (Toll Conversion)	**Falmouth:** Exit 52 Open Road Tolling Conversion	Yes	Basic[2] + General	7.62 acres	96,406 sf of New Impervious Cover	No	**Yes**	MCGP
2015.14	Other	**Gray:** Gray Park and Ride and Preload for Gray Interchange (Exit 63)	**No**	Basic[2] + General	6.35 acres	53,579 sf of New Impervious Cover	No	**Yes**	MCGP
S2015.51	Bridge Repair & Rehabilitation	**Auburn:** Hackett Road Bridge Repair	Yes	Basic[2]	-	No changes expected	No	No	None
S2015.52	Other	Tree Planting	Yes	Basic2	-	No changes expected	No	No	None
S2015.53	Other (Slope & Drainage Repairs)	**Falmouth:** Slope and Drainage Repairs - Route 100	**No**	Basic[2]	0.4 acres	No changes expected	No	No	MS4 UA

NOTES:
1 - Applicable Standards refer to Chapter 500 Stormwater Management as it applies through MaineDOT's Environmental (ENV) Office "DEP Stormwater Rule Compliance Flowchart."
2 - Basic Standards apply unless 1 acre or more of new impervious OR > 5 acres of developed area are anticipated.
3 - Limits of Disturbance greater than or equal to 1 acre may trigger Maine Construction General Permit (MCGP) coverage.
4 - Developed Area excluding area that within one calendar year of being disturbed is returned to a condition with the same drainage pattern that existed prior to the disturbance and is revegetated, provided the area is not mowed more than once per year.
5 - Urban Impaired Stream as listed in Chapter 502 and the Maine Municipal Separate Stormwater Sewer System (MS4) Permit.
6 - MOA Reportable indicates that the project may require Ch 500 BMPs beyond Basic Standards (e.g., General Standards to the Extent Practicable with DEP Consultation) as per the current MOA and Flowchart referenced in Note #1 above. MOA reportable projects included those projects with greater than 1 acre of new impervious cover (IC) or greater than 5 acres of developed area or projects located within an urban impaired stream with greater than 20,000 SF of new IC or greater than 5 acres of developed area.

TABLE 2
REVIEW OF 2016 MTA CONSTRUCTION PROJECTS
Based on MaineDOT ENV Ch 500/MOA Flowchart

Contract Number	Contract Type	Description of Work	Existing Corridor	Applicable Standards[1]	Limits of Disturbance (LOD)[3]	Amount of New Impervious Cover (IC) or Developed Area[4]	Located within Urban Impaired Stream (UIS)[5]?	MOA Reportable[6]	Other Stormwater Permits
2015 Construction Projects Active in 2016									
2015.07	Other (Clearing)	**Auburn/Lewiston/West Gardiner/Farmingdale/Hallowell/Augusta:** Clearing MM 75-83 and 99.2-109.1	Yes	Basic[2]	-	No changes expected	**Yes (Hart Brook)**	No	Portions MS4 UA
2015.10	Bridge Repair & Rehabilitation	**Litchfield:** Superstructure Replacement at Lunts Hill Road Underpass MM 99.0	Yes	Basic[2]	1.5 acres	No changes expected	No	No	MCGP
2015.11	Other (Toll Conversion)	**West Gardiner:** West Gardiner Barrier Toll Plaza Open Road Tolling Conversion MM 100.2	Yes	Basic[2]	4.1 acres	9,588 sf of New Impervious Cover	No	No	MCGP
2015.12	Other (Toll Upgrades)	**Biddeford/Saco/Portland:** Toll system support upgrades at Exits 32, 36, and 46 NB (MM 31.6, 35.7, and 46.4)	Yes	Basic[2]	2.77	27,007 sf of New Impervious Cover	**Yes (Thatcher Brook / Goosefare Brook / Long Creek)**	No	MS4 US, MCGP
2015.13	Other (Toll Conversion)	**Falmouth:** Exit 52 Open Road Tolling Conversion	Yes	Basic[2] + General	7.62 acres	96,406 sf of New Impervious Cover	No	**Yes**	MCGP
S2015.53	Other (Slope & Drainage Repairs)	**Falmouth:** Slope and Drainage Repairs - Route 100	**No**	Basic[2]	0.4 acres	No changes expected	No	No	MS4 UA
Construction Projects Initiated in 2016									
2016.01	Resurfacing	**Falmouth/Gray/Cumberland:** Mainline Paving MM 54.5-64.4 and Bridge Repairs MM 60.8 and 61.6	Yes	Basic[2]	0.6 acres	No changes expected	No	No	None
2016.02	Interchange Improvements	**Gray:** Interchange Improvements	**No**	Basic[2] + General	14.9 acres	42,700 sf of New Impervious Cover (Net Increase)	No	**Yes**	MCGP
2016.03	Bridge Repair & Rehabilitation	**Litchfield:** Bridge superstructure replacement (Small Road underpass)	Yes	Basic[2]	1 acre	No changes expected	No	No	MCGP
2016.04	Bridge Repair & Rehabilitation	**Farmingdale**: Bridge superstructure replacewment (Maple Street underpass)	Yes	Basic[2]	1.4 acres	No changes expected	No	No	MCGP
2016.05	Bridge Repair & Rehabilitation	**Kittery/Scarborough/South Portland/Portland:** Bridge Repairs (MM 1.59, 42.0, 44.6, 44.9, 50.0)	Yes	Basic[2]	0.4 acres	No changes expected	**Yes (Long Creek)**	No	MS4 UA
2016.06	Other (Sign Upgrades)	**Auburn/Lewiston/Sabattus/Litchfield/West Gardiner/Farmingdale/Hallowell/Augusta:** Guide Signing Upgrades, MM 75-109	Yes	Basic[2]	0.5 acres	No changes expected	No	No	MS4 UA
2016.09	Other (Bridge Painting)	**Kennebunk/Portland:** Cleaning and painting steel structures (Exit 52, Exit 53, Mousam Bridges)	Yes	Basic[2]	0.95 acres	No changes expected	No	No	MS4 UA
N/A	Other (Pavement Reduction)	**Lewiston:** Park and Ride pavement reduction	Yes	Basic[2]	0.75 acres	Remove 0.71 acres of Impervious Cover	**Yes (Hart Brook)**	No	MS4 UA
N/A	Other (Pavement Reduction)	**Lewiston:** Former Service Plaza pavement reduction	Yes	Basic2	0.65 acres	Remove 0.65 acres of Impervious Cover	No	No	MS4 UA
2016.XX	Other (Service Plaza Renovation)	**Cumberland/Gray:** Service Area Renovation	Yes	Basic[2]	0.25 acres	No changes expected	No	No	None

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5 - Urban Impaired Stream as listed in Chapter 502 and the Maine Municipal Separate Stormwater Sewer System (MS4) Permit.
6 - MOA Reportable indicates that the project may require Ch 500 BMPs beyond Basic Standards (e.g., General Standards to the Extent Practicable with DEP Consultation) as per the current MOA and Flowchart referenced in Note #1 above. MOA reportable projects included those projects with greater than 1 acre of new impervious cover (IC) or greater than 5 acres of developed area or projects located within an urban impaired stream with greater than 20,000 SF of new IC or greater than 5 acres of developed area.