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VIA USPS MAIL – RETURN RECEIPT REQUESTED

July 9, 2012

Mr. Don Witherill
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

2011 Annual Progress Report

Dear Don:

MTA is pleased to submit the 2011 Annual MOA Progress Report for your review. A total of one (1) hard copy with five (5) digital CD copies have been enclosed for distribution to appropriate Department personnel.

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:

2011 Progress Report on Implementation of the Stormwater MOA

Cc:

Steve Tibbetts, Maine Department of Transportation (MaineDOT)

Peter Merfeld, MTA Steve Tartre, MTA Bill Wells, MTA Brian Taddeo, MTA Lauren Carrier, MTA Bob Driscoll, HNTB Robyn Saunders, GZA







MAINE TURNPIKE AUTHORITY

2011 PROGRESS REPORT ON IMPLEMENTATION OF THE STORMWATER MEMORANDUM OF AGREEMENT







Prepared by:

Maine Turnpike Authority



Submitted on: **July 2012**

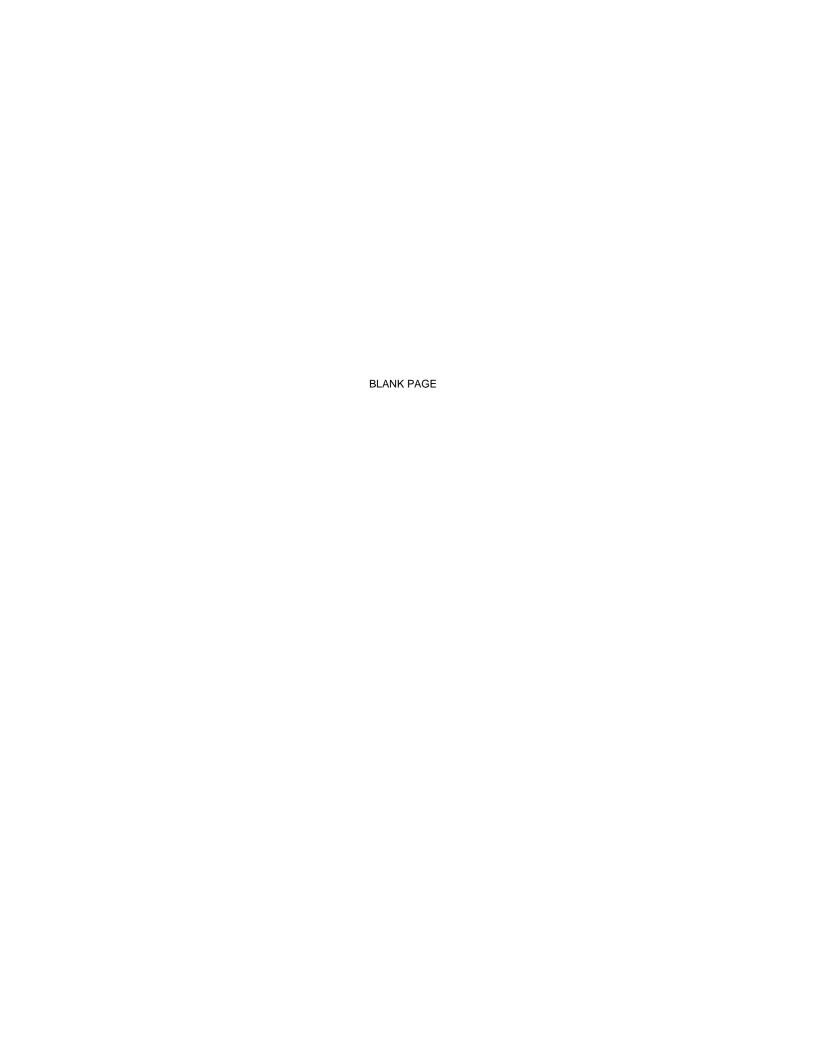


Stormwater Protection in Maine



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I. INTRODUCTION

The purpose of this Progress Report is to comply with the requirements in the Stormwater Memorandum of Agreement (MOA) currently dated November 14, 2007 and adopted by the Maine Department of Environmental Protection (DEP), Maine Department of Transportation (MaineDOT) and Maine Turnpike Authority (MTA). This report includes information and data on construction projects and activities accomplished in 2011; projects and activities anticipated in 2012; and a list of staff or designees who provided oversight with respect to erosion and sedimentation control and stormwater control.

The intent of the MOA is to achieve stormwater quantity and quality controls reasonably consistent with the standards set out by the DEP in Chapter 500 – Stormwater Management Rules, and the requirements of the Maine Pollutant Discharge Elimination System (MEPDES) General Permit for Construction Activity issued pursuant to 06-096 CMR 529 (2)(a)(2)(i) and Part IV (D)(6) and (7) of the General Permit for the Discharge of Storm Water from MaineDOT and MTA Municipal Separate Storm Sewer Systems (MS4s).

The MOA reflects the specific technical concerns associated with linear transportation projects undertaken by or under the supervision of MaineDOT and MTA, and specifies the stormwater quantity and quality standards that apply to those projects. As part of the conditions established under the MOA, MaineDOT and MTA are not obligated to (1) obtain a permit; or (2) obtain DEP approval under Chapter 500 for linear projects undertaken by MTA. A copy of the current Stormwater MOA is located in **Appendix A**. The MOA was updated in November 2007 with a significant coordinated effort among MTA, MaineDOT, and DEP. These changes to the MOA and associated operating criteria are reflected in this 2011 annual report.

II. ACTIVITIES ACCOMPLISHED

a. Training

MTA in-house highway maintenance supervisors and foremen, as well as engineers, consultants, and contractors who are certified by the Maine Department of Environmental Protection's (DEP) Nonpoint Source Program (NPS) or are Professional Engineers (PEs) experienced with stormwater requirements are listed in **Table 1** of **Appendix B**.

In 2011, MTA continued to place a high priority on stormwater training for employees in several internal departments which include:

- <u>Highway & Equipment Maintenance</u>. MTA's Highway Maintenance Supervisors and Foremen are certified through the DEP's Nonpoint Source (NPS) Program in 2011; and
- <u>Engineering & Building Maintenance.</u> MTA's Engineering Staff (e.g., inspectors and managers) are either professional engineers or certified through the DEP's NPS Program in 2011, as well.

Turnpike staff continued to attend DEP and MaineDOT training sessions and workshops through 2011, and plan to continue to attend joint training and workshop sessions in 2012 in order to learn and share knowledge on erosion and sediment control practices and promote multi-agency interaction. In 2010, MTA updated the internal stormwater training program to focus on permit requirements including Chapter 500, MS4 minimum control measures (MCMs), Maine Construction General Permit (MCGP), Long Creek Post-Construction Stormwater Discharges, and other Urban Impaired Stream (UIS) watershed considerations. These recent changes were reinforced and emphasized again during internal training sessions held in 2011.

b. Contracted Projects

In 2011, MTA construction efforts continued to focus on bridge repair/maintenance projects, pavement rehabilitation and other small linear projects. As seen in **Table 2** of **Appendix B**, MTA awarded a total of thirteen (13) linear construction projects (i.e., 9 contracts and 4 solicitations) while four (4) construction projects remain active from 2010 and 2009. Although MOA applicability and subsequent reporting is required for all of these linear projects, many of the projects did not involve earth-disturbing activities. Subsequently, **Table 3** of **Appendix B** presents a summary of the permanent stormwater Best Management Practices (BMPs) installed as part of construction projects managed under the MOA in 2011; permanent stormwater BMPs installed in 2011 are primarily associated with upgrades to existing infrastructure (e.g., catch basins, slope stabilization, etc.) and involved bridge rehabilitations that required:

- Rip rap downspouts (i.e., Lisbon Street\Route 196, Presumpscot River Bridge & Auburn Street Bridge, Washington Street\Route 202, Eastern Trail Pedestrian Bridge, and Exit 48 Bridge);
- Slope stabilization (i.e. Presumpscot River Bridge & Auburn Street Bridge, Washington Street\Route 202, and Kitty Hawk and railroad bridges); and/or
- Culvert and stone ditch protection (i.e. Eastern Trail Pedestrian Bridge, and Exit 48 Bridge).

c. MTA Highway Maintenance Department Construction Projects

MTA's Highway Maintenance Department completed three (3) small construction projects which incorporated permanent BMPs. **Table 4** of **Appendix B** provides a summary of MTA Highway Maintenance Department construction projects with an inventory of permanent BMPs completed in 2011.

d. Post Construction Maintenance and Inspection

Operations & Maintenance (O&M)

A summary of the O&M tasks accomplished in 2011 along MTA right-of-way (ROW) is presented in **Table 5** of **Appendix B**. The most common maintenance activities accomplished by MTA's Highway Maintenance Department in 2011 included sweeping

of paved (impervious) surfaces, such as roadways, toll plazas, service plazas, crossovers, maintenance yards, and commuter parking lots. MTA continues annual inspections of 100% of the catch basins and associated culverts (i.e., outfalls); repairs and catchment cleanouts are subsequently performed as needed within MTA ROW. Similar to previous years, approximately 67% of the catch basins contained enough sediment to require cleaning.

Consistent with previous years, Highway Maintenance crews use weekly summary reports and transfer the data relating to storm water or soil and erosion control activities to a quarterly O&M Summary Table similar to the format of **Table 5**. The Environmental Services Coordinator conducts a periodic review of the O & M Summary Tables at each Highway Maintenance Facility to track progress throughout the year.

Inspections of ROW

In 2011, HNTB (MTA's primary construction contractor) conducted a thorough inspection of the Turnpike. This inspection (generally referred to as the "Annual Inspection") covers 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, HNTB submits to MTA a report that provides advice and recommendations as to the proper maintenance, repair, and operation of the Turnpike during the ensuing fiscal year. Subsequently, a detailed Annual Inspection Report was transmitted to the Authority's Executive Director in October 2011. Below is a summary of information contained within the Annual Inspection Report relative to storm water quality and quantity control.

The roadway surface drainage system, consisting of drainage ditches, catch basins and cross culverts, was inspected and found to be in fair-to-good condition. Catch basin repair is typically included as part of the pavement rehabilitation projects. This practice appears to be adequate to maintain the catch basins in fair-to-good condition. Routine ditch and side slope repairs are required for proper upkeep of the highway. Turnpike maintenance forces routinely clear debris from drainage ditches and regrade the surrounding areas as necessary. All ditches will continue to be evaluated and recommendations for reconstruction will be made as required.

Numerous rivers and streams pass under the turnpike through box culverts and culvert pipes. All box culverts and pipes 60 inches in diameter or greater are inspected every year. Pipes 36 to 54 inches in diameter are inspected on a five year cycle and were last inspected in 2008. All box culverts and all pipes 60 inches in diameter and larger were inspected in 2011 (a total of 89 individual culvert ends), and were found to be in satisfactory condition.

The Maine Turnpike periodically issues contracts to address erosion or drainage issues that are not able to be addressed by the Authority's maintenance forces due to their location and the type of equipment required to cost effectively complete the repair.

2012 Recommendations: HNTB identified several areas of significant erosion under the Mousam River Overpass and the Presumpscot River Overpass. HNTB recommends that these areas be repaired as part of 2012 scheduled bridge rehabilitation projects. We also recommend that the areas noted in the detailed inspection report be monitored on a yearly basis.

In addition to the HNTB inspections and surveys in 2011, MTA continued implementing its Stormwater Program Management Plan (SPMP) as required by the NPDES Phase II Municipal Separated Storm Sewer System (MS4) Permit/Program. This SPMP identifies the municipalities and receiving waters to which MTA may discharge within approximately 17.8 miles of Urbanized Areas (UAs). In support of the SPMP's six minimum control measures (MCMs), MTA continues to make progress with the measurable goals established in MTA's SPMP, which include (but are not limited to) implementing an illicit discharge detection and elimination (IDDE) program; developing a storm sewer system map of all outfalls within UA; conducting annual dry weather and opportunistic inspections; and assessing the contents during clean out of catch basins. In addition to the 17.8 miles of ROW within UA, MTA continued to voluntarily apply the MS4 MCMs to document post-construction activities (e.g., documenting catch basin and outfall inspections/cleanout, prioritizing sweeping, etc.) within several UIS watersheds in 2011 (i.e., Long Creek in South Portland, Red Brook in Scarborough and Hart Brook in Lewiston).

In 2011, MTA continued to implement the Construction Project Environmental Compliance (CPEC) program, a stormwater compliance program established by MTA in 2010 to ensure stormwater related activities and other environmental considerations are documented and filed in a single binder for each construction project. This compliance program separates all construction projects into three separate phases: (1) Project Development (e.g., planning, permitting, design, etc.); (2) Active Construction; and (3) Post-Construction requirements (i.e., long-term O&M and inspection). Subsequently, Post-Construction O&M Plans were developed for projects completed in 2011 (e.g., Eastern Trail Pedestrian Bridge in Kennebunk, Exit 48 reconstruction in Portland, etc.).

Each CPEC binder includes regulatory checklists that identify applicable requirements and activities for each project undertaken by MTA, such as the weekly Erosion Control Report (ECR) with corrective actions, Erosion and Sedimentation Control (ESC) Plans, as well as Construction General Permit (CGP) documents (e.g., Notice of Intent to comply [NOI], Notice of Termination [NOT], etc.) and other environmental/permitting information.

III. ACTIVITIES AND CONSTRUCTION PROJECTS PLANNED FOR 2012

a. Training

In addition to continuing to maintain certification for key employees with the DEP's NPS Training Program in 2011, MTA will continue to operate a Storm Water Pollution Reduction Training Program for MTA employees. This training program complies with MTA's NPDES Phase II MS4 Stormwater Program Management Plan (SPMP) for two Minimum Control Measures (MCMs) to include Public Education and Outreach, and Pollution Prevention (P2)/Good Housekeeping for Municipal Operations.

As seen in the representative training curricula included in **Appendix C**, a revised training program was performed for MTA Maintenance personnel and Engineering inspectors. The stormwater training program, which is combined with SPCC topics, was performed in May and June 2011 by regulatory specialists from GZA GeoEnvironmental, Inc. (GZA) and MTA alike. The training was attended by approximately 104 MTA employees from Engineering, Highway and Equipment Maintenance, as well as Fare Collection Supervisors. MTA will continue to train employees in the following areas:

- Applicable requirements of the MPDES MS4 Permit, including non-stormwater discharges, job-specific responsibilities, indicators and notification procedures of illicit discharges/connections, dry weather/opportunistic inspection procedures, good housekeeping and other MS4 BMPs;
- MTA's two designated highest priority watersheds and other urban impaired stream watersheds/considerations:
- Typical ESC BMPs from the MaineDOT BMP Manual and associated requirements, including construction and post-construction BMPs, operation and maintenance (O&M), and inspections; and
- In April 2012, revisions were also made to the 2012 curriculum to reflect recent changes to MTA's IDDE SOP to include inspection of open ditch systems.

b. Contracted Projects

As previously mentioned, MTA efforts in 2011 continued to focus on bridge repair/maintenance projects, pavement rehabilitation, and smaller scale linear projects with operations and maintenance components, as opposed to the larger Turnpike Widening effort that was completed in 2004. In 2012, MTA will continue to primarily focus on bridge projects (i.e., repair, maintenance, rehabilitation and/or replacement), with additional projects involving pavement rehabilitation, drainage improvements, interchange modifications, toll plaza modifications at New Gloucester and other small scale linear projects. These projects that will be managed in accordance with the existing MOA are summarized in **Table 6** of **Appendix B.** The development and implementation of the CPEC program in 2011 will continue in 2012 for all of these projects to ensure compliance with Chapter 500/MOA and other environmental considerations, including post-construction O&M plans.

c. MTA Highway Maintenance Department Projects

MTA has no specific plans to perform any new construction projects, which involve permanent BMPs along the Turnpike (such as installation of sediment traps/catch basins, permanent check dams, etc.). Anticipated construction projects to be performed by MTA Highway Maintenance are likely to be improvements to existing infrastructure and are anticipated to have limited land disturbance at the existing facilities. In addition, implementation of the CPEC program will be continue to be applied relative to proposed projects in 2012 thus facilitating the inspections and overall recordkeeping process for MTA Highway Maintenance Foremen and Supervisors for these small scale construction projects involving permanent BMPs within their territory.

d. Operations & Maintenance

MTA will continue to contract one or more outside engineering firms to perform the Annual Inspection of MTA ROW, which includes infrastructure (e.g., bridges, buildings, roadways, shoulders, culverts, etc.) as well as permanently installed BMPs (e.g., drainage structures, vegetated buffers and other erosion control measures).

MTA's Highway Maintenance Department employees' primary focus is to perform routine and as-needed O&M BMPs. Consistent with previous years, the proposed BMPs for 2012 (shown in **Table 7**) will include routine sweeping and removal of sand from guard rails and other ancillary facilities (e.g., parking lots, median crossovers, toll facilities, etc.), as well as post-construction O&M inspections.

IV. STORMWATER MOA OVERSIGHT

Stormwater MOA compliance and oversight is provided for the Turnpike by the following MTA and HNTB personnel:

MTA Management Staff:

Peter Merfeld, P.E., Chief Operations Officer

Steve Tartre, P.E., Director of Engineering and Building Maintenance

William Franklin, Deputy Director of Engineering and Building Maintenance

Scott Warchol, Project Administrator

Scott McConihe, Inspector

Gerry Ouellette, Inspector

Jody Dyke, Inspector

William Wells, Director of Highway & Equipment Maintenance

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

Gary Montague, 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

John Branscom, Environmental Services Coordinator

J. Ryan Leavitt, Senior Resident Engineer

Brian Taddeo, Project Engineer

HNTB, Inc.

Lauren Meek, P.E. Greg Blake, P.E. Roland Lavallee, P.E Dale Mitchell, P.E. Bob Driscoll, P.E. Mitch Elliot, P.E. Lori Driscoll, P.E. Trevin Cobb Tim Cote, P.E. Mark Desenberg Charles Myers, P.E. Bruce Munger Clayton Hoak, P.E. Tianna Higgins Walter Fagerlund, P.E. Jamie Waugh Donald Ettinger, P.E.

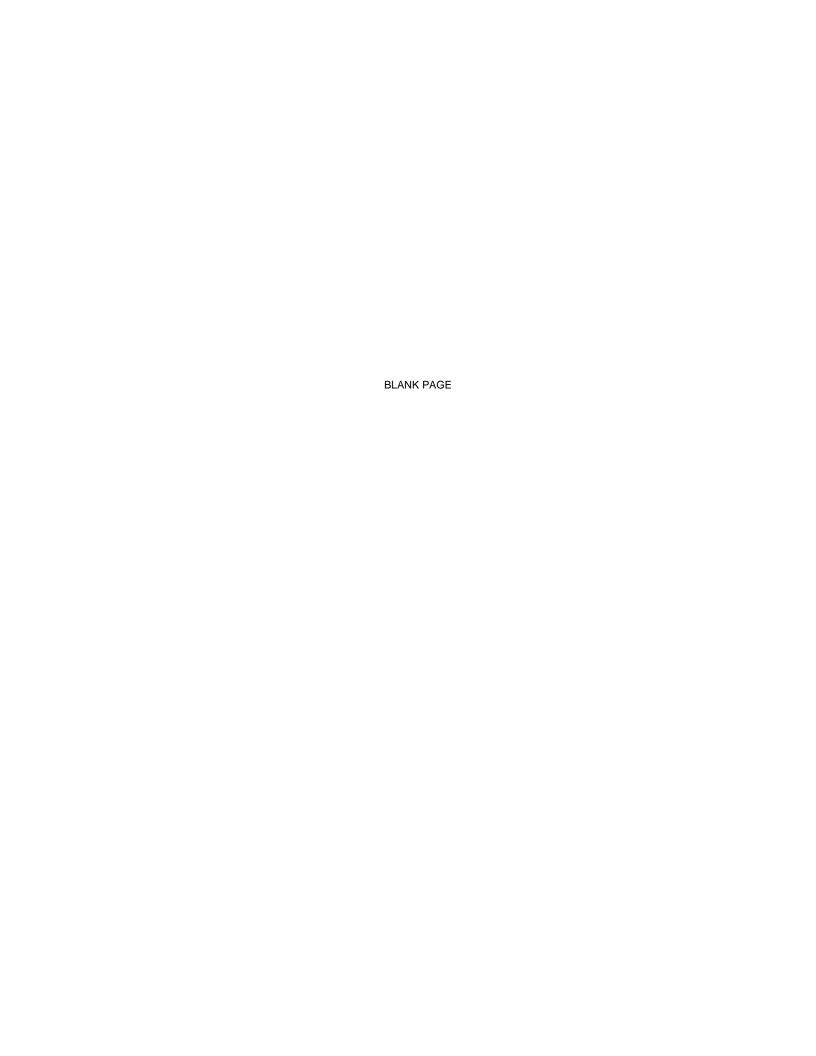
V. CONCLUSION

MTA will continue to apply the appropriate engineering design and building practices for construction projects to successfully meet the requirements of the current Stormwater MOA. MTA management is committed to post-construction operations and maintenance, and increased education for its employees. MTA will carefully manage stormwater and erosion control issues to protect the environment and comply with the current MOA.



APPENDIX A

STORMWATER MOA



MEMORANDUM OF AGREEMENT

FOR STORMWATER MANAGEMENT BETWEEN THE MAINE DEPARTMENT OF TRANSPORTATION, MAINE TURNPIKE AUTHORITY AND MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

The Maine Department of Environmental Protection (hereinafter DEP), the Maine Department of Transportation (hereinafter MaineDOT), and the Maine Turnpike Authority (hereinafter MTA) agree as follows:

WHEREAS, projects involving state transportation systems developed by or under the supervision of the MaineDOT or MTA must meet the storm water requirements set forth in a Memorandum of Agreement between the DEP, MaineDOT and MTA; and

WHEREAS, DEP, MaineDOT and MTA recognize the unique characteristics, benefits and impacts of state transportation systems, including without limitation roads and railroads; and

WHEREAS, DEP, MaineDOT and MTA agree that the intent of this Memorandum of Agreement is to achieve stormwater quality and quantity controls reasonably consistent with the standards set out by the DEP in Chapter 500 Stormwater Management Rules; and

WHEREAS, those objectives will be achieved by a comprehensive stormwater management program that applies to any project developed, administered, supervised, or overseen by MaineDOT or MTA which otherwise would have required a stormwater permit or been subject to the standards of Chapter 500, but for the exemption in 38 M.R.S.A. §420-D(7)(G), and that applies to all other MaineDOT and MTA projects located in the organized territory which would not have required a storm water permit or not have been subject to the standards of Chapter 500; and

WHEREAS, comprehensive stormwater management as part of MaineDOT and MTA projects in the organized territory will result in substantial environmental benefits for all

watersheds and in particular those direct watersheds of lakes most at risk from new development or urban impaired streams.

NOW, THEREFORE, MaineDOT and MTA will adopt the following requirements for stormwater management,

1. Applicability.

This Memorandum of Agreement (MOA) applies to MaineDOT and MTA projects that would be required to meet the requirements of the Stormwater Management Law if not for the exemption in Title 38 MRSA §420-D(7)(G). It does not apply to projects requiring a permit pursuant to the Site Location of Development Law.

This MOA addresses the specific technical issues associated with state transportation system projects undertaken by or under the administration, supervision, or oversight of MaineDOT and MTA, and specifies the storm water quality and quantity standards which will apply to those projects. MaineDOT and MTA have agreed to adopt standards that are based on the type of project and the project location with respect to direct watersheds of lakes most at risk from new development and urban impaired streams, as set forth in Chapters 500 and 502 of the Maine Stormwater Management Rules.

No state transportation system project constructed pursuant to the requirements of this MOA is required to get a permit or DEP approval pursuant to the Maine Stormwater Management Law.

2. Definitions.

- A. Roads. All roads, highways, bridges, bike paths, interchanges and intersections.
- B. Construction site operator. The contractor's designated on-site supervisor or MaineDOT or MTA's designated on-site supervisor if there is no outside

contractor.

- C. State transportation system. 1) (a) MaineDOT and MTA administered or supervised state or state aid highways along with associated sidewalks, paths, trails and/or bridges; (b) MaineDOT administered or supervised marine highways, airports, and rail lines along with associated sidewalks, paths, trails and/or bridges, and 2) any associated facilities essential to the safe and efficient operation of those state transportation systems, including but not limited to highway maintenance facilities, transit/rail stations, toll plazas, ferry terminals, cargo ports, intermodal transportation centers, weigh stations, rest areas, visitor information centers, service plazas, and park-and-ride lots as well as parking lots and other infrastructure serving those facilities.
- D. Linear portion of a project. All rail lines, roads, highways, bridges, or similar transportation corridors, along with associated interchanges, scenic turnouts, access ramps, airport runways and taxiways, weigh stations, toll facilities, intersections, sidewalks, trails, paths and similar associated facilities including associated parking and building area of up to 5,000 square feet.
- E. Non-linear portion of a project. All portions of a state transportation system that are not linear. Examples of a non-linear portion of a project include, but are not limited to, maintenance facilities, intermodal transportation centers, transit/rail stations, and airport terminals, hangers and aprons.

3. Specific Provisions to Comply with Chapter 500 Standards.

All state transportation system projects undertaken by or under the administration, supervision, or oversight of MaineDOT and MTA shall comply with the requirements of Chapter 500 and 502 as follows.

A. Basic Standards. All projects shall meet the Basic Standards described in Section

- 4(A) of Chapter 500, through implementation of best management practices described in the MaineDOT's Best Management Practices for Erosion and Sedimentation Control (hereinafter the MaineDOT BMP Manual) as may be updated from time to time.
- B. General Standards. For projects that are large enough to trigger the General Standard threshold in Chapter 500:
 - (1) A linear portion of a project located in the direct watershed of a lake most at risk from new development or in the watershed of an urban impaired stream, shall meet the General Standards to the extent practicable as determined through consultation with and agreement by DEP, except that redevelopment of existing impervious area may qualify for the exception in Section 4(B)(3)(e).
 - (2) A linear portion of a project associated with an existing travel corridor constructed prior to July 19, 2007, and not located in either the direct watershed of a lake most at risk from new development or in the watershed of an urban impaired stream, shall not be required to meet the General Standards.
 - (3) A linear portion of a project that is not associated with an existing travel corridor shall meet the General Standards to the extent practicable as determined through consultation with and agreement by DEP.
 - (4) A non-linear portion of a project shall meet the General Standards, except that redevelopment of existing impervious area may qualify for the exception in Section 4(B)(3)(e) of Chapter 500.
- C. Phosphorus standard. Projects triggering the Phosphorus standard shall instead apply the General Standards in accordance with Section 3(B) of this MOA.

¹ July 19, 2007 is the date the first MOA with this language became effective.

- D. Urban impaired stream standard. A linear or non-linear portion of a project that is not associated with an existing travel corridor, is located within the watershed of an urban impaired stream, and triggers the Urban Impaired Stream Standard, shall meet the Urban Impaired Stream Standard in Chapter 500, Section 4(D), to the extent practicable as determined through consultation with and agreement by DEP. MaineDOT and MTA may use mitigation credit measures within the same watershed as that portion of a project in order meet the requirements of Chapter 500, Section 4(D).
- E. Flooding standard. For a state transportation system project that triggers the thresholds of the Flooding Standard, MaineDOT and MTA shall apply design and engineering measures to the extent practicable such that project drainage avoids adverse impacts to offsite property resulting from project-related peak flow.

The following additional requirements of Chapter 500 shall be met through review, reporting and recordkeeping undertaken by MaineDOT and MTA pursuant to Section 4 of this MOA: project notification and submittal requirements of Ch. 500(7)(B), Ch. 500(7)(E)(1-6), Ch. 500(8)(C)(1 through 3), Ch. 500(8)(D)(1-6), and Ch. 500(8)(E)(1-2); the pre-application meeting requirements of Ch. 500(8)(A); the recording requirements of Ch. 500(11); and the re-certification requirements of Ch. 500, Appendix B(4). DEP agrees that MaineDOT and MTA have demonstrated the qualifications of their respective staff to perform the maintenance activities required pursuant to Ch. 500, Appendix (B)(3) and therefore, meet the intent of that requirement without contracting with third-parties.

4. Interagency Review.

As part of the annual Interagency Review MaineDOT and MTA agree to provide DEP with a list of all projects started in the 12 months since the last Interagency Review meeting and a list of projects anticipated for the next 12 months. The DEP, MaineDOT

and MTA also agree to hold interagency meetings as necessary, but at least annually, to identify, discuss and resolve any issues which may have arisen regarding interpretation and implementation of the MOA. MaineDOT and MTA each shall keep records of their projects that would otherwise trigger the stormwater rules requirements, including: the project location; a description of other work done in the watershed; a description of any alternative stormwater management measures installed and their relative performance, if known; a description of each instance where, pursuant to Section 3(B)(1) and 3(D) of this MOA, the General Standards were not fully applied because it was determined to not be practicable to do so and the extent to which the General Standards were not met; a list of facilities or state transportation systems that have undergone site inspections; and a list of staff or designees who provided oversight with respect to erosion and sedimentation control and stormwater control. As part of this annual review MaineDOT and MTA shall provide DEP with a report on maintenance surveys and activities.

Dated: 10/3/107

David A. Littell, Commissioner Maine Department of Environmental

Protection

Dated: ///06/67

David Cole, Commissioner

Maine Department of Transportation

Dated: 11/14/07

Gerard P. Conley, Sr., Chairman Maine Tumpike Authority

APPENDIX B

MOA TABLES 1 – 7



TABLE 1 - LIST OF TRAINED PERSONNEL

Maine Turnpike Authority

This table provides a list of all MTA trained personnal provided for 2011 to employees providing stormwater and sedimentation control oversight on projects. In addition, the table lists employees who are NPS certified or are PE's experienced with stormwater requirements.

NAME (LAST, FIRST)	COMPANY	MAINE P.E. with STORMWATER EXPERIENCE	MDEP EROSION CONTROL CERTIFIED	OTHER TRAINING ATTENDED (1)
		IN-HO	JSE PERSONNEL	
BRANSCOM, JOHN	MTA		Y	Pollution Prevention (SPCC/Stormwater Phase II) Chapter 500 Stormwater Management Rules
COOK, DALE	MTA			Pollution Prevention (SPCC/Stormwater/ESC)
DIONNE, RICK	MTA		Y	Pollution Prevention (SPCC/Stormwater/ESC)
DYKE, JODY	MTA		Υ	Pollution Prevention (SPCC/Stormwater/ESC)
FRANKLIN, BILL	MTA		Y	Pollution Prevention (SPCC/Stormwater/ESC)
LaCHANCE, SCOTT	MTA		Y	Pollution Prevention (SPCC/Stormwater/ESC)
LEAVITT, J. RYAN	MTA	Y		Pollution Prevention (SPCC/Stormwater/ESC)
MATHEWS, ROGER	MTA		Υ	Pollution Prevention (SPCC/Stormwater/ESC)
McCONIHE, SCOTT	MTA		Υ	Pollution Prevention (SPCC/Stormwater/ESC)
MERFELD, PETER	MTA	Υ		
MONTAGUE, GARY	MTA		Υ	Pollution Prevention (SPCC/Stormwater/ESC)
OUELLETTE, GERRY	MTA		Υ	Pollution Prevention (SPCC/Stormwater/ESC)
PERRY, ANDY	MTA		Υ	
SOTIR, JAMES	MTA		Υ	Pollution Prevention (SPCC/Stormwater/ESC)
TADDEO, BRIAN	MTA	Υ		Pollution Prevention (SPCC/Stormwater/ESC)
TARTRE, STEPHEN	MTA	Υ	Υ	
THOMPSON, BILL	MTA		Υ	Pollution Prevention (SPCC/Stormwater/ESC)
VIOLETTE, JOE	MTA		Υ	Pollution Prevention (SPCC/Stormwater/ESC)
WARCHOL, SCOTT	MTA		Υ	
WELLS, BILL	MTA		Υ	
		PRIMARY COI	NTRACTOR PERSO	NNEL
BLAKE, GREG	HNTB	Y		
COBB, TREVIN	HNTB		Y	
COTE, TIM	HNTB	Y		
DESENBERG, MARK	HNTB		Y	
DRISCOLL, BOB	HNTB	Y		
DRISCOLL, LORI	HNTB	Y		
ELLIOT, MITCH	HNTB	Y		
ETTINGER, DONALD	HNTB	Y		
FAGERLUND, WALTER	HNTB	Y		
HIGGINS, TIANNA	HNTB		Y	
HOAK, CLAYTON	HNTB	Y		
LAVALLEE, ROLAND	HNTB	Υ		
MEEK, LAUREN	HNTB	Y		
MITCHELL, DALE	HNTB	Y		CPESC
MUNGER, BRUCE	HNTB		Y	
MYERS, CHARLES	HNTB	Y		
WAUGH, JAMIE	HNTB		Υ	

⁽¹⁾ Pollution Prevention training includes (1) Spill Prevention, Control & Countemeasures (SPCC) topics, (2) Stormwater management requirements from both Chpter 500 & Phase II MS4 Permit; and (3) Erosion & Sedimentation Control (ESC) topics. A copy of the training is included in Appendix C.

TABLE 2 - LIST OF ACTIVE CONSTRUCTION PROJECTS

Maine Turnpike Authority

This table provides a summary of construction contracts and solicitations issued in 2011.

CONTRACT NUMBER	APPROXIMATE LOCATION	DESCRIPTION	LINEAR or NON-LINEAR PROJECT	MOA APPLIES
2009.03	Lewiston	Bridge Rehabilitation (Route 196-Lisbon Street)	Linear	Yes

CONTRACT NUMBER	APPROXIMATE LOCATION	DESCRIPTION	LINEAR or NON-LINEAR PROJECT	MOA APPLIES
2010.03	Portland and Falmouth	Bridge Rehabilitations	Linear	Yes
2010.04	Auburn	Bridge Rehabilitation	Linear	Yes
2010.06	Kennebunk	Eastern Trail Pedestrian Bridge	Linear	Yes

CONTRACT NUMBER	APPROXIMATE LOCATION	DESCRIPTION	LINEAR or NON-LINEAR PROJECT	MOA APPLIES
2011.01	York / Ogunquit / Wells	2011 Pavement Rehabilitation (Mile 13.3 to 23.3)	Linear	Yes
2011.02	Portland	Exit 48 Bridge Replacement	Linear	Yes
2011.03	Litchfield	Bridge Rehabilitation & Bridge Repair	Linear	Yes
2011.04	Falmouth	Exit 53 Bridge Rehabilitation	Linear	Yes
2011.05	South Portland / Falmouth	Bridge Repair & Culvert Repair	Linear	Yes
2011.06	New Gloucester	Toll Plaza modifications	Linear	Yes
2011.07	Auburn	Bridge Repairs	Linear	Yes
2011.08	Auburn	Interchange Modifications	Linear	Yes
2011.09	Lewiston	Interchange Modifications	Linear	Yes

CONTRACT NUMBER	APPROXIMATE LOCATION	DESCRIPTION	LINEAR or NON-LINEAR PROJECT	MOA APPLIES
S2011.50	Auburn	Bridge Repair	Linear	Yes
S2011.51	Falmouth	Bridge Repair	Linear	Yes
S2011.52	Portland	Bridge Repair	Linear	Yes
S2011.53	Falmouth	Bridge Repair	Linear	Yes

Note: Contract 2011.111 awarded in late December 2011. No work completed by MTA until 2012.

TABLE 3 - BMPs ASSOCIATED WITH PROJECTS IN 2011

Maine Turnpike Authority

This table is an inventory of permanent BMPs installed by the MTA contracts and solicitations in 2011 (listed by project).

CONTRACT NUMBER	PROJECT LOCATION/DESCRIPTION		SEDIMENT TRAP	RIP RAP DOWNSPOUT	CULVERT INLET PROTECTION (STONE)	CULVERT OUTLET PROTECTION (STONE)	SLOPE STABALIZTION (x1000SF)	VEGETATED BUFFER (x1000 SF)	STONE DITCH PROTECTION (x1000 SF)	PERMANENT STONE CHECK DAM	CATCH BASIN or HOLDING TANK (1)	отнек	DESCRIPTION
2009.03	Bridge Rehabilitation (Route 196-Lisbon Street)	2011		7								5	Stone splash pads
2010.03	Bridge Rehabilitations (Presumpscot River & Auburn Street)	2011		5		3	27			1		1	Rip Rap Swale
2010.04	Bridge Rehabilitation (Washington Street\Route 202)	2011		3		2	4						
2010.06	New Bridge (Eastern Trail Pedestrian Bridge)	2011		3	1	1			1				
2011.01	Pavement Rehabilitaiton ¹	2011									120		
2011.02	Exit 48 Bridge Replacement	2011		2	2	10			11		5		
2011.07	Bridge Repairs (Kitty Hawk and SLARR)						3						
	PROJECTS TOTALS:			20	3	16	34		12	1	125	6	

⁽¹⁾ Contract 2011.01 - catch basins are existing and to be adjusted or modified, no new installations

TABLE 4 - INVENTORY OF PERMANENT BMP's

Maine Turnpike Authority

This table is a summary of MTA Highway Maintenance Department new construction/installation projects accomplished in 2011.

APPROXIMATE LOCATION	PROJECT DESCRIPTION	SEDIMENT TRAPS/CATCH BASINS (Qty #)	RIP RAP DOWN SPOUT	CULVERT INLET PROTECT (STONE)	SLOPE STABALIZTION (# SF)	VEGETATION BUFFER (x1000SF)	PERM. CHECK DAM (Qty #)	OUTER PERIMETER BARK GRINDINGS BARRIER (# LF)
SOUTH PORTLAND (CROSBY MF)	Maintenance Yard BMP Retrofits	2						400
FALMOUTH SPUR FS2	Median Opening Installation			3				
KENNEBUNK MM 30.3 NB	Culvert Installation			1	675			

TABLE 5 - SUMMARY OF MTA HIGHWAY MAINTENANCE DEPARTMENT 2011 O&N

Maine Turnpike Authority

This table is a summary of MTA Highway Maintenance Department and Engineering department Operations and Maintenance (O&M) accomplished in 2011.

HIGHWAY MAINTENANCE FACILITY	LOCATION	REPAIR/REDO DITCHING (Total Linear Miles)	CULVERT/DOWNSPOUT REPAIR/MAINTENANCE (Qly. #)	CATCH BASIN REPAIR/MAINTENANCE (Qty. #)	REMOVE SAND from GUARD RAILS (# of Linear Miles)	SLOPE and/or ROW REPAIR/MULCHING (# SF)	INSPECT CATCHMENTS (1) (Total # inspected)	CATCHMENTS CLEANED OUT (Total # cleaned out)	STREET SWEEPING (# of Linear Miles)	SWEEPING of ANCILLARY FACILITIES (2) (# of Facilities/Year)	LITTER PICKING (# of Miles)
YORK MF	Kittery to Wells	0	0	0	40	0	241	150	45	64	170 ⁽⁴⁾
KENNEBUNK MF	Wells to Saco	1	0	0	30	4,500	229	200	85	39	102
SOUTH PORTLAND (CROSBY MF)	Saco to Falmouth	0	0	61	97	800	179	107	48	21	140
GRAY MF	Falmouth to New Gloucester	0	0	0	28	0	152	84	28	28	62
AUBURN MF	New Gloucester to Sabattus	0	2	1	40	152,064 ⁽⁵⁾	329	155	115	33	221
LITCHFIELD & GARDINER MF	Sabattus to Augusta	23	ALL ⁽³⁾	3	45	530	256	230	45	70	184
TOTALS:	Kittery to Augusta	24	2	65	279	5,830	1,386	926	366	255	709

⁽¹⁾ Catchments include catch basins, sediment traps, vegetated swales, detention ponds, etc.

⁽²⁾ Ancillary facilities include parking lots, median crossovers, interchanges, service plazas, maintenance yards, etc.

⁽³⁾ All culverts from mile marker 26 to mile marker 36 northbound were cleared of debris, etc.

⁽⁴⁾ Frequently conducted litter picking of MDOT (MM 2.5-4.2) and Kennebunk (MM 15.2-20.4) territories of Turnpike.

⁽⁵⁾ Auburn MF reported 14.4 miles of slope repair during 2011.

TABLE 6 - ANTICIPATED CONSTRUCTION CONTRACTS FOR 2012

Maine Turnpike Authority

This table is a summary of anticipated construction contracts to be issued in 2012.

CONTRACT NUMBER	APPROXIMATE LOCATION	DESCRIPTION
2012.01	Biddeford / Saco	Mainline Pavement Rehabilitation & Saco River Bridge Repair
2012.02	Litchfield	Mainline Pavement Rehabilitation
2012.03	Sabattus	Bridge Rehabilitiation
2012.04	New Gloucester	Bridge Rehabilitiation
2012.05	Falmouth	Bridge Rehabilitiation
2012.06	Various	Bridge Repairs
2012.07	Various	Bridge Painting
2012.08	Various	Bridge Repairs
2012.09	Auburn	Interchange Improvements
2012.10	Lewiston	Interchange Improvements
2012.11	Lewiston	Interchange Improvements
2012.13	New Gloucester	Toll Plaza Improvements
2012.14	Gray	Maintenance Improvements
2012.15	Portland / Falmouth	Bridge Repair
2012.17	Scarborough / South Portland	Mainline Pavement Rehabilitation and Interchange Pavement Rehab

TABLE 7 - SUMMARY OF PROPOSED O&M FOR INSTALLED BMPs

Maine Turnpike Authority

This table is a summary of the proposed O&M of permantently installed BMPs throughout MTA for 2011.

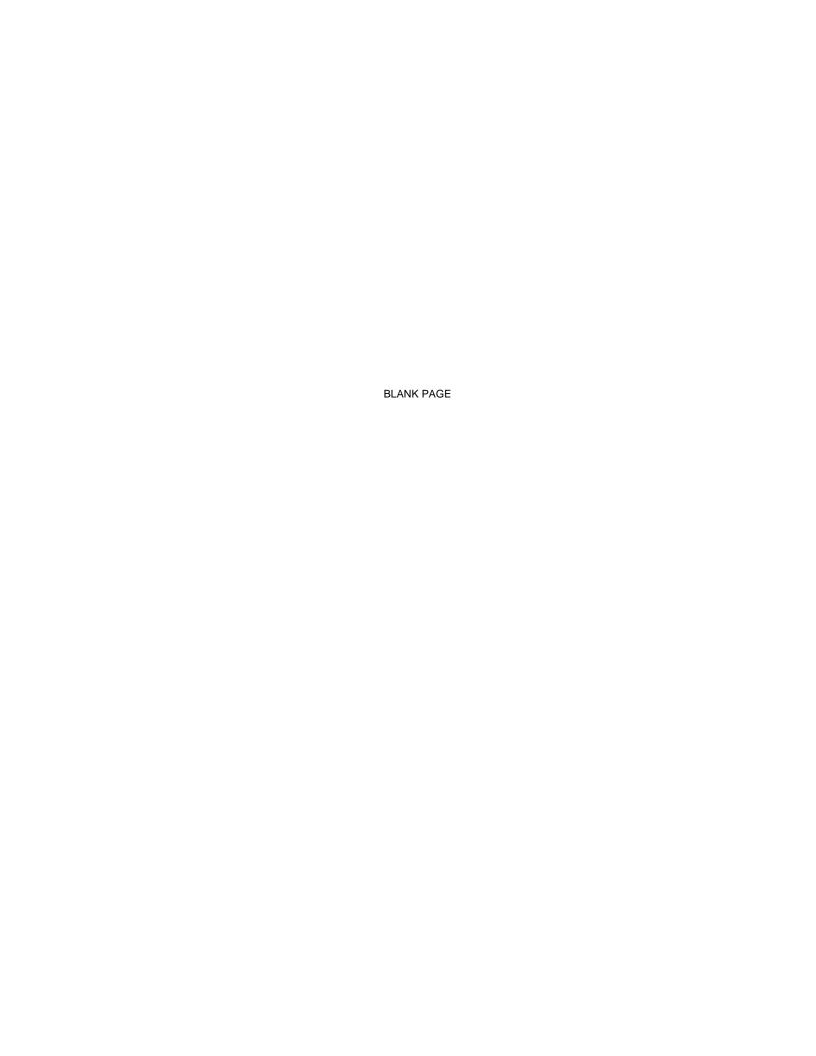
PROJECT ID	LOCATION	REPAIR/REDO DITCHING (#Miles Linear Total)	CULVERT REPAIR (Qty. #)	CATCH BASINS TO BE REPAIRED (Qty.#)	REMOVE SAND FROM GUARD RAILS (# Linear Miles)	SLOPE and/or ROW REPAIR/MULCHING (#SF total)	INSPECT CATCH BASINS, SEDIMENT TRAPS, VEG. SWALES, and DETENTION PONDS (Total % to be Inspected)	CATCH BASINS, SEDIMENT TRAPS, VEG. SWALES, and DETENTION PONDS TO BE CLEANED OUT (% of Total)	STREET SWEEPING (# linear Miles)	SWEEP PARKING LOT, MAINTENANCE YARDS, MEDIAN CROSS-OVERS, TOLL PLAZAS, INTERCHANGES, SERVICE PLAZAS, and MISC.	LITTER PICKING (# Miles)
MEDIAN & MAINLINE NB & SB; & FACILITIES	Kittery to Augusta	1-2	25-50	50-75	180-200	As Needed*	100%	50 - 60%	180-200	1-2	223

Note: Includes O&M performed by both MTA Highway Maintenance and contractors (e.g., HNTB)



APPENDIX C

REPRESENTATIVE STORMWATER TRAINING CURRICULUM (2011)



MAINE TURNPIKE AUTHORITY

ANNUAL ENVIRONMENTAL TRAINING

- OIL SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC)
- MOBILE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC)
- STORMWATER POLLUTION PREVENTION

EROSION & SEDIMENTATION CONTROL

GZA GeoEnvironmental, Inc. Prepared and conducted by

MAY 2011



Maine Turnpike Authority SPCC Training May 2011

MAINE TURNPIKE AUTHORITY

ANNUAL ENVIRONMENTAL **TRAINING**

- OIL SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC)
- MOBILE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC)
- STORMWATER POLLUTION PREVENTION
- EROSION & SEDIMENTATION CONTROL Prepared and conducted by GZA GeoEnvironmental, Inc. MAY 2011



TRAINING OVERVIEW:

- Spill Response procedures and notifications
- Mobile SPCC requirements
- Review changes to MTA's Plans and BMPs
- Review new stormwater management requirements
- Erosion and Sedimentation Control (ESC) requirements for all MTA



Trivia Games to challenge your level of knowledge on each topic!!

Let's start with SPCC requirements first....

SPCC Regulatory Background

- Federal Regulations set standard
- EPA's Oil Pollution Prevention Regulations (40 CFR 112)
- Supplemental State Rules
 - CMR Chapter 800 and 801 -- Identification and Remediation of Oil and Hazardous Matter

SPCC Regulatory Background

ENFORCEMENT OF REGULATIONS

- EPA conducts unannounced inspections and may assess penalties up to \$27,500* per day
 - Aggressive Enforcement Program!!
- DEP may also inspect facilities



* EPA increasing to \$37,500/day

SPCC Regulatory Background

- WHO IS REGULATED BY SPCC MANAGEMENT RULES?
 - · Facilities that store more than 1,320 gallons oil (petroleum products) in aboveground storage are subject to
 - QUESTION: Can you think of which MTA Facili STORE MORE THAN 1,320 GALLONS of petrole
- WHO HAS THE POTENTIAL TO SPILL PETROLEUM?
 - MTA has developed SPCC Plans for all maintenance facilities as a best management practice (BMP)



UPDATING SPCC PLAN: Table of Contents

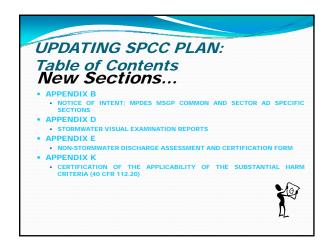
New Sections...

- 10. 0 Certification Of The Applicability Of The Substantial Harm Criteria 11. 0 Applicable State, Tribal Or Local Requirements

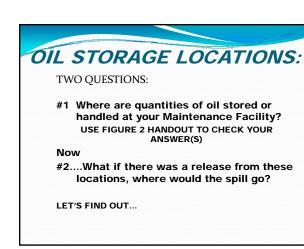
- 13. 0 Maintaining An Updated Plan
 14. 0 Signatures and Making Plans Available
- ADDITIONAL REQUIREMENTS FOR FACILITIES SUBJECT TO EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW REPORTING REQUIREMENTS
- 5.0 ADDITIONAL REQUIREMENTS FOR SALT STORAGE PILES
 7.0 MONITORING REQUIREMENTS AND NUMERIC LIMITATIONS
- 18. 0 Retention of Records







Today's Training: MOST IMPORTANT PARTS OF SPCC PLAN • FIGURE 2 • Oil Storage Locations • Drainage Features (described in Table 5) • APPENDIX B THROUGH APPENDIX F • App C - Spill Report Form • App F - Emergency Spill Info (see Table 3) • App G - Notification Info • App H - Inspection Forms THIS FACILITY SPECIFIC INFORMATION IS PROVIDED IN TRAINING HANDOUTS FOR REFERENCE TODAY!!!















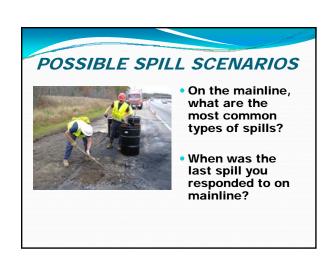
























Spill Prevention BMPs

- ANNUAL TRAINING
 - Initial training 2002
 - Annual updates and reviews for significant changes (e.g., new tank installation)
 - New employees or changes in job duties

Spill Prevention BMPs

INSPECTIONS - REQUIRED MONTHLY*

- Tanks/Containers/Equipment are checked for the following:
 signs of spills or leakage
- good condition (i.e., not rusted, dented, etc.) properly closed
- · fuel lines not leaking
- containers or equipment are placed for easy access
- proper labeling of drums, tanks, containers secondary containment in good condition
- accumulation of material within secondary containment

CORRECTIVE ACTIONS MUST BE NOTED ON THE INSPECTION FORM

RECORDS MUST BE MAINTAINED ON-SITE IN SPCC PLAN

SPCC PROGRAM GOALS

How do we achieve the three (3) SPCC Goals?

- 1 SPILL PREVENTION
- 2. SPILL CONTROL
 - Secondary containment
 - Monitoring of leak detection systems
 - SDILL COLINTEDMEASURES

Achieving Spill Control

- Respond immediately to alarms.
- Provide secondary containment for all tanks and containers:
 - o Oil drums/containers are stored on "spill pallets".
- Perform regularly scheduled tests on monitoring systems to ensure that they are operational, including leak detection and overfill protection.
- Employ temporary containment systems during transfers.
- Report all spills and unusual observations to Supervisor

Spill Control BMPs

- Leak detection systems
- Monitoring and inspections
- Secondary containment
- Spill response equipment and supplies
- Security (e.g. lighting, locked, etc.)
- Careful attention during transfers and operations with high spill potential

Spill Control Secondary Containment





Remember no Gasoline waste can be put in waste barrels, notify your Supervisor for proper disposal.

Spill Control Spill Response Materials White is a specific and the specif

Spill Control Spill Response Materials

- Spill materials include:
 - Absorbent pads and Spill Magic
 - Pig Co ® 65 gallon Overpak Spill Kit containing the following equipment/material:
 - 10-48 in. Socks; 6-10 ft. Socks; 6-Pillows; 56-Wipers; 40 PIG® Mat Pads; 6-Disposal bags & ties; 6-Tamper Proof Labels; 1-Emergency Response Guidebook; 1-Instruction Manual
 - Spill mats for covering catch basins/floor drains
 - Protective Gloves/Suits and Safety Glasses/Goggles
- Caution tape for securing spill area
- Shovels and bags for collection of clean-up material









Spill Countermeasures Steps in an Oil Spill 1. Contact Site Emergency Coordinator 2. Assess the risk 3. Extinguish all sources of ignition 4. Select personal protective equipment (PPE) 5. Confine the spill / protect receptors 6. Stop the source 7. Evaluate the incident and implement cleanup 8. Decontaminate 9. Complete required reports 10. Conduct incident analysis © REMEMBER: Personal safety is top priority!!! You should attempt to contain the spill only if you and others are not endangered by doing so. © SEE HANDOUT of Appendix F

Spill Countermeasures Response to spill will vary depending on type of spill. Incidental spills: MTA employees can respond Non-Incidental spills: Certified contractor will respond

Spill Countermeasures

What is an incidental spill?

- Incidental spills: "Incidental spills" are considered
 - . in which personnel are familiar with the hazards associated with the spilled material; and
 - . containment and response do not pose potential safety or health hazards;
 - . can be controlled in the immediate release area;
 - . which do NOT reach the environment; and
 - . which are less than 5 gallons.

Spill Countermeasures

For Incidental Spills ONLY

- 1. Contact your site Emergency Coordinator
- Assess the spill situation (source, material, quantity, limits).

REMEMBER: Personal safety is top priority!!! Attempt to contain spill only if you can do so without risk!

- 3. Extinguish all source of ignition.
- 4. Use personal protective equipment (PPE) as appropriate for hazards of the spilled material and your level of training

Spill Countermeasures

For Incidental Spills ONLY

- Protect potential receptors/cut off migration pathways
- STOP THE LEAK and CONTAIN THE SPILL!!!
- Evaluate the incident and implement cleanup
- Decontaminate the site, personnel, and equipment
- Assist with Spill report and any follow up as requested
- 10. Conduct incident analysis

Spill Countermeasures

For Non-Incidental Spills ONLY

Enact Steps 1-3 of Appendix F...

- 1. Contact your site Emergency Coordinator
- Assess the spill situation (source, material, quantity, limits).

REMEMBER: Personal safety is top priority!!! attempt to contain spill only if you can do so without risk!

3. Extinguish all source of ignition.

...but remember...

Spill Countermeasures

For Non-Incidental Spills ONLY

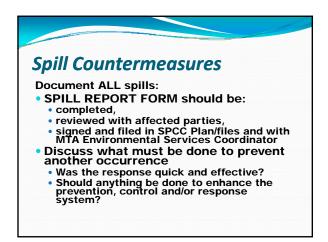
Enact Steps 1-3 of Appendix F...but remember

- Personal safety is top priority!!! Cover/protect floor drains & CBs, if you can without risk.
- Evacuate and secure the spill area.
- Immediately report spill to SPCC Emergency Coordinator (EC)
- EC will notify MTA Communications Center and John Branscom, MTA Environmental Coordinator, and decide whether outside assistance is needed
- If required, MTA Communication Center will contact emergency response agencies and Maine DEP. Provide as much information as possible about the spill (e.g., nature of spill, location and quantity of oil released).
- Remain close to the site to direct responders to the spill location (as long as you are in a safe position).

Spill Countermeasures

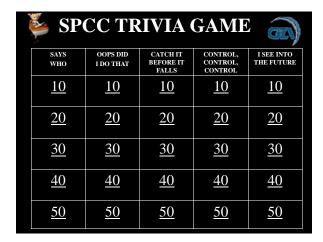


Where are Emergency Contact Lists (ECL) located? Review ECL handout



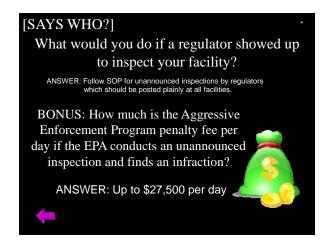






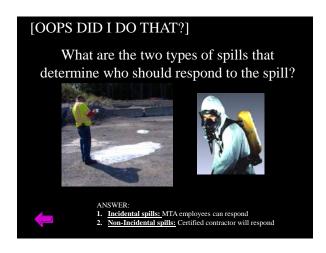


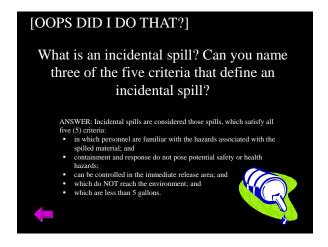


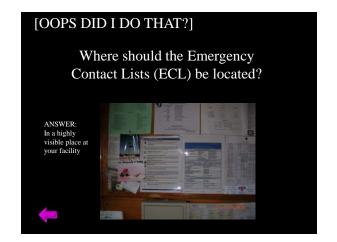


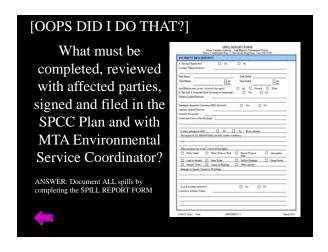


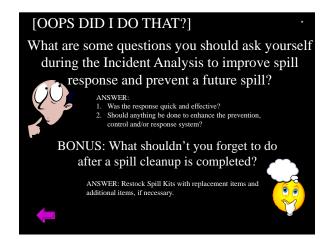






















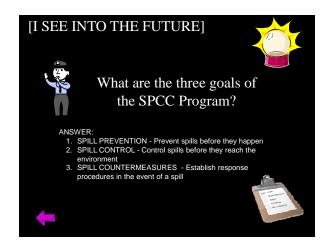




















May 2011

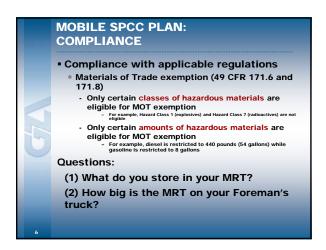




MOBILE SPCC PLAN: TRAINING PROGRAM OVERVIEW • Introduction • Purpose and Scope • Review Mobile SPCC Plan • Spill Prevention Measures • Transportation • Selecting a Refueling Site • Setting Up The Refueling Operation • Good Operating Practices in Refueling • Closing the Refueling Site • Storage/Parking for MRTs • Spill Response Procedures and Equipment • Emergency Contact Information • Notification and Reporting







May 2011

MOBILE SPCC PLAN: COMPLIANCE Compliance with applicable regulations Stormwater Regs (MPDES SWMP and EPA's Clean Water Act) - Refrain from refueling in Urbanized areas "Urbanized Areas" Include: - Sabattus - Mile 83.6 to 84.3 - Lewiston - Mile 78.9 to 79.6 and 80.8, 81.4 - Auburn - Mile 75.0 to 75.6 and 78.9 to 79.4 - Falmouth - Mile 51.8 to 53.4 and Exits 52, 53 - Portland - Mile 46.7 to 51.8, Exits 46, 47, 48 - Scarborough - Mile 41.0 to 42.0 - Saco - Mile 33.0 to 35.7, Exit 36 approach ramp - Biddeford - Mile 32.0 to 33.0 - Kittery - Mile 3.1 to 4.2 and 0 to 2.2, Exits 1,2,3



MOBILE SPCC PLAN: PROGRAM GOALS COMPLIANCE with applicable regulations SAFE HANDLING of petroleum fuels POLLUTION PREVENTION by keeping oil off the ground and out of navigable waters SOUND OPERATING PRACTICES to minimize the potential for release and migration of oil TRAINING in procedures, equipment and support systems that address a release DOCUMENTATION of all spills NOTIFICATION of all spills







May 2011







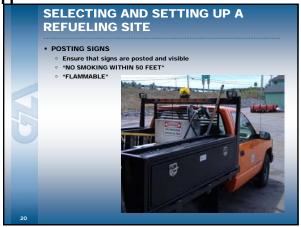






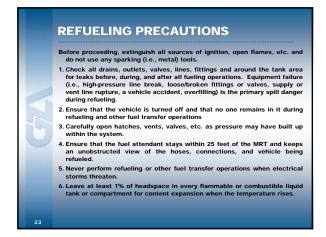
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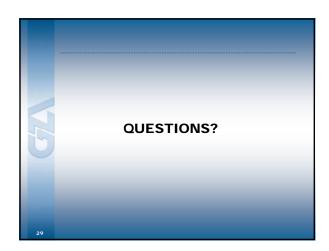
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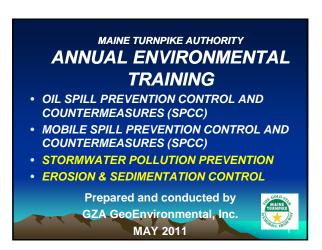
CLOSING A REFUELING SITE INSPECT REFUELING AREA Any leaks, stains, smells? If yes, notify Supervisor and ESC immediately DISMANTLE TEMPORARY CONTAINMENT STRUCTURES Return absorbents to Spill Kit, if clean Level and spread any earthen berms RESTORE SITE Containerize and label wastes (sorbent pads etc) Excavate and containerize any stained/contaminated soil Deliver to nearby MTA maintenance facility for proper storage and disposal as oily waste

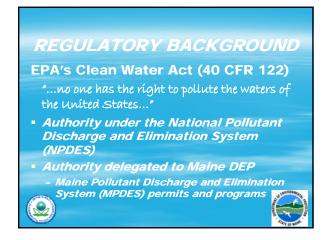




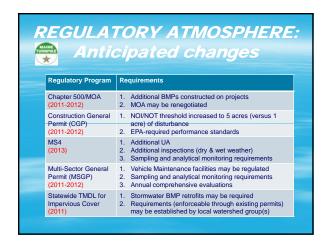


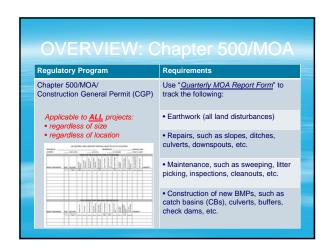


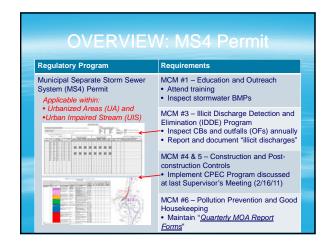








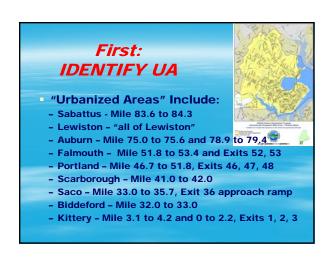


















BMPs at Maintenance Facilities

Many MTA Maintenance Facility
Activities May Have the Potential
To Impact Storm Water

- Equipment Storage
- Vehicle Maintenance and Washing
- Material Handling and Storage
 - Oil and Petroleum Products
 - Sand and Salt
 - Waste and Excess Material Storage
 - Painting















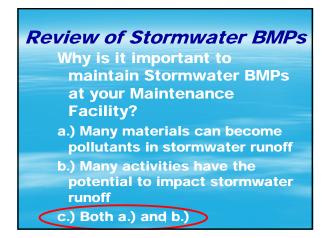








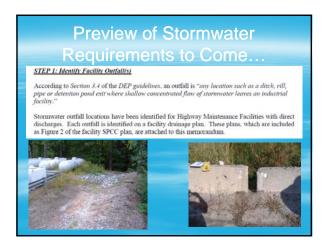


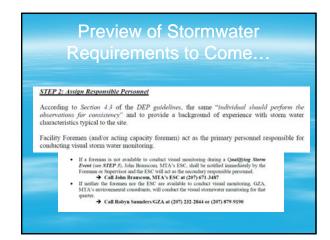


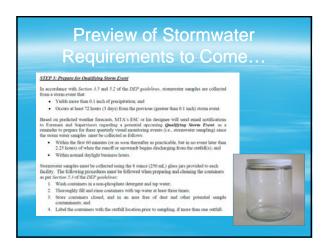


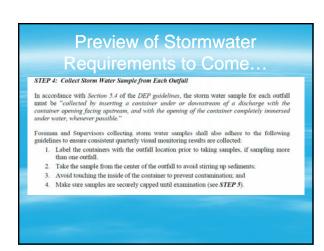




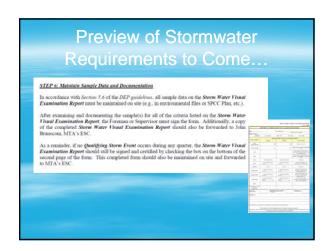










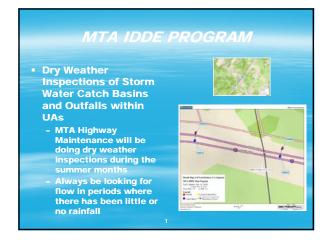


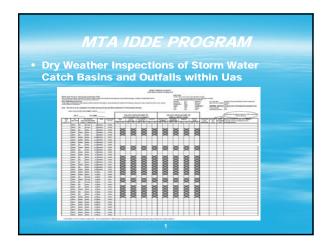


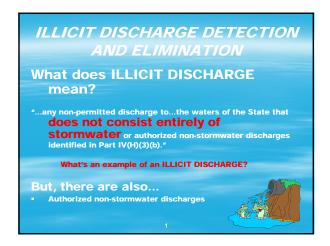




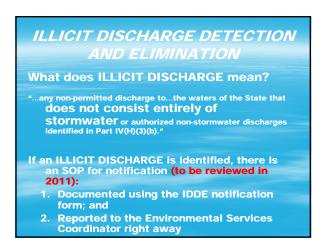












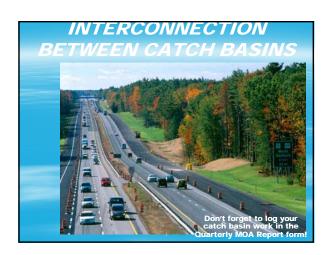




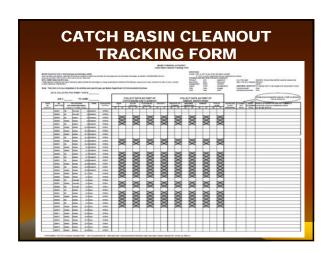






















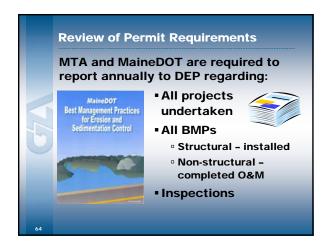




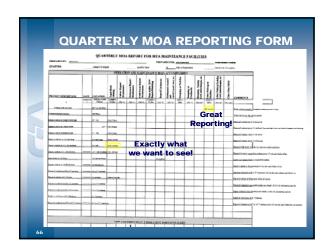


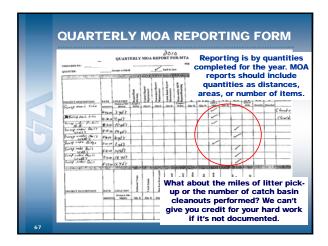














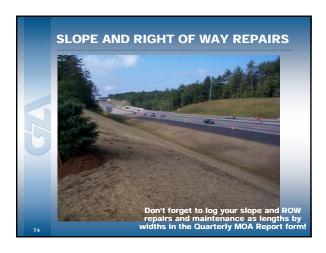




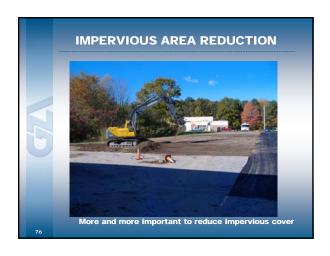




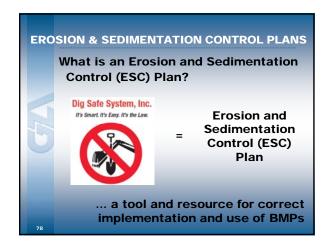








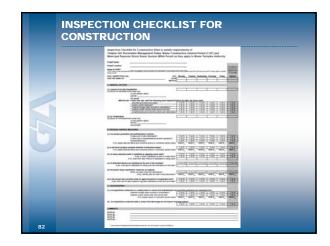




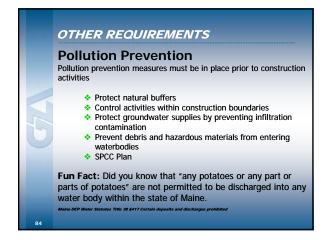


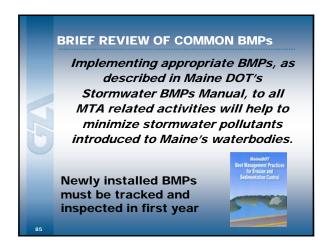


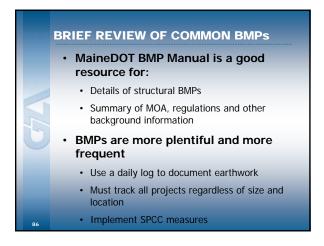




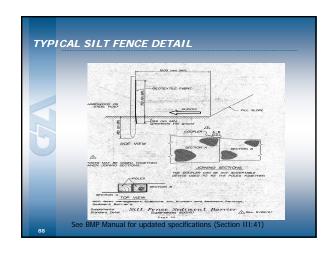






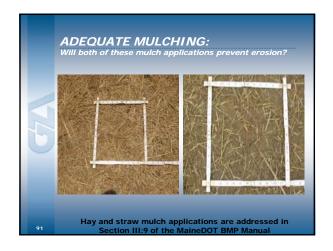












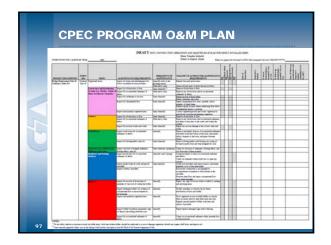






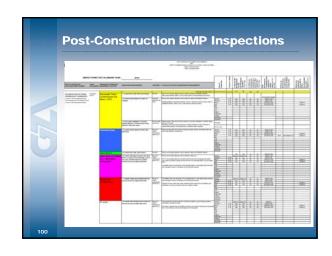










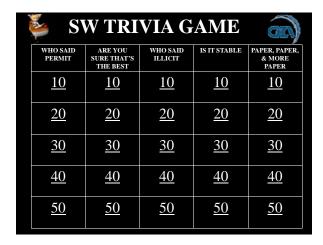


IMPORTANT POINTS:
As OSRP you should...

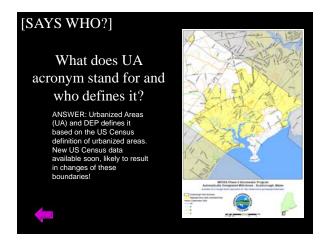
Be familiar with required ESCs
Be familiar with MaineDOT BMPs
Be prepared to document ESCs and BMPs
Summaries used to complete the Annual Reports to DEP
Be conscious and vigilant if you are in a UIS Watershed
More changes are on the way....
UIS watershed management plans...

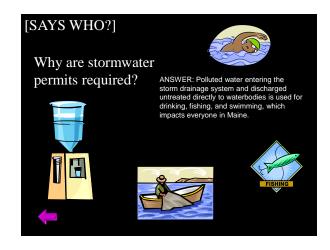
"...the effect stormwater runoff has on the water quality of Maine waters is impacted by the level of effort put into the construction, operation, and maintenance of MTA's stormwater infrastructure. Polluted water entering the storm drain system and discharged untreated directly to waterbodies is used for drinking, fishing, and swimming, which impacts everyone in Maine."

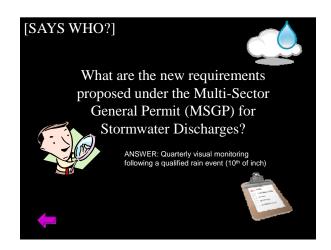
















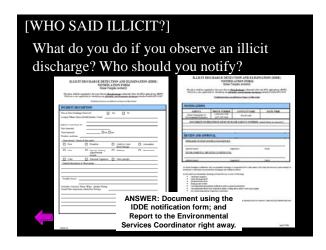


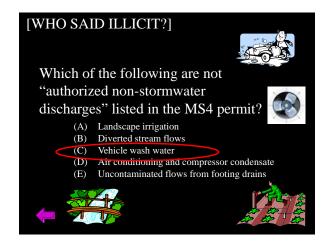






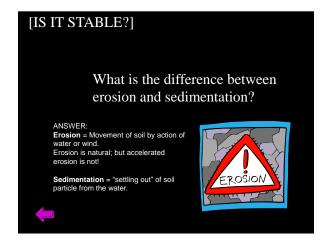








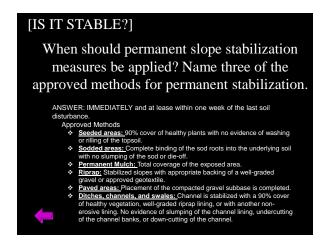




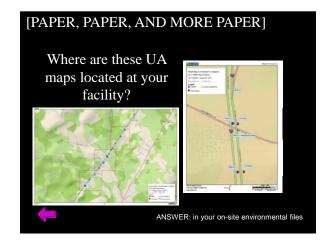


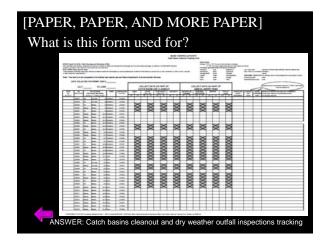


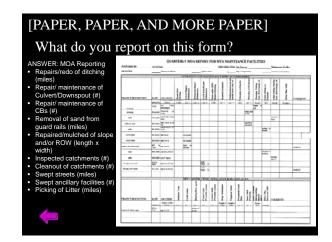


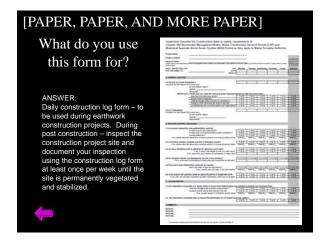


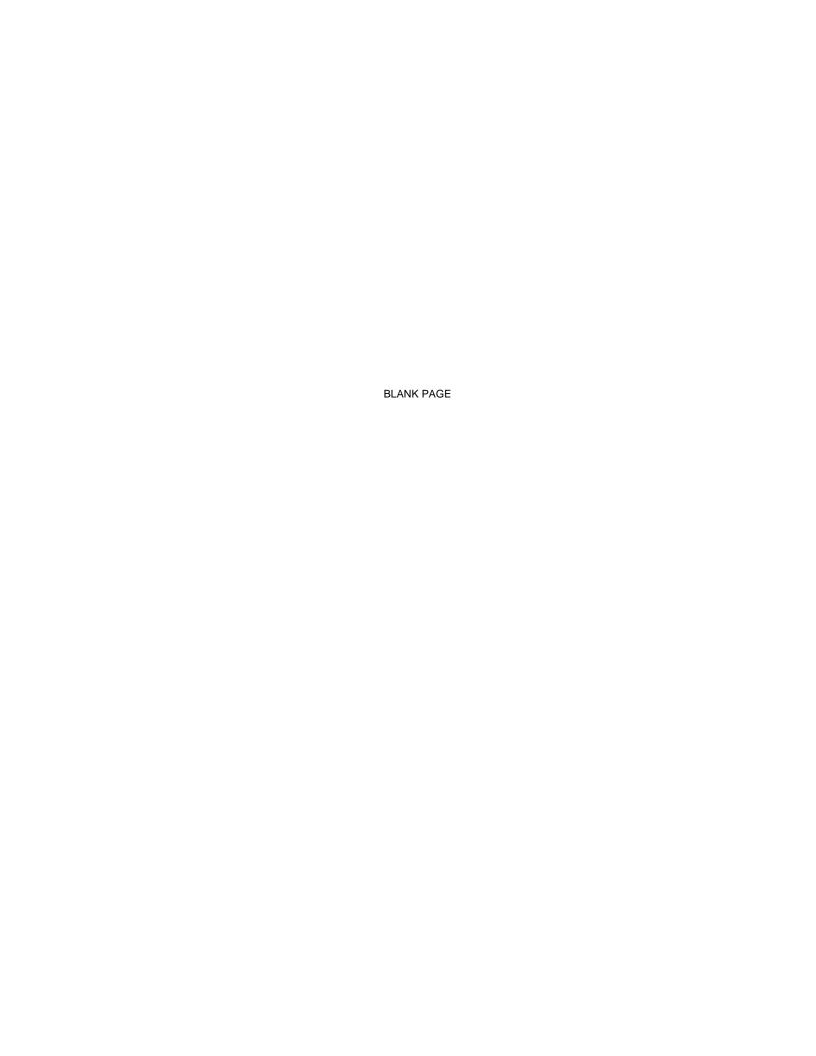


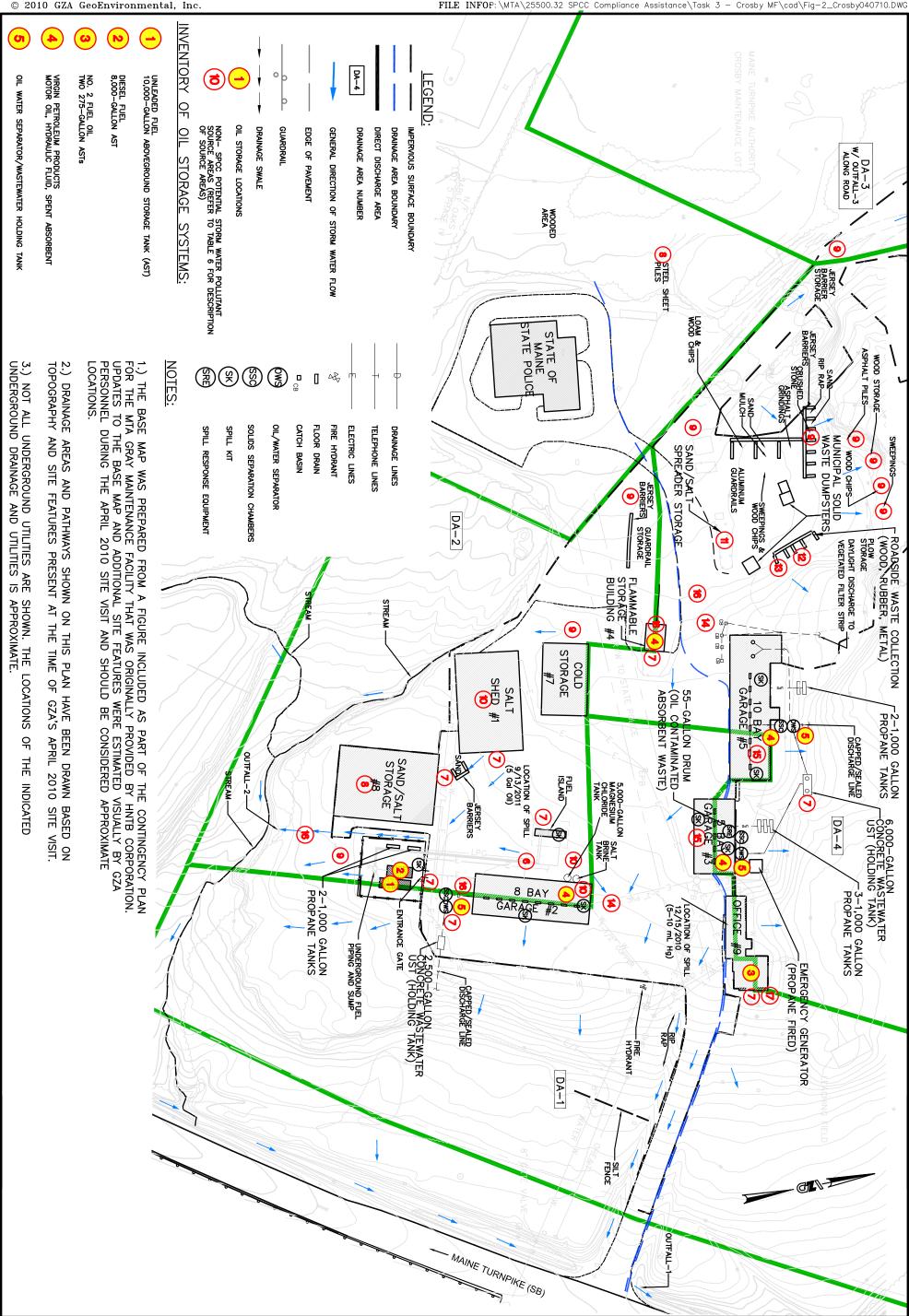












PROJECT No.: 25700.30 DES'D BY : G.M.G. GRAPHIC SCALE INTEGRATED SPILL PREVENTION, CONTROL, AND COUNTERMEASURE 100 200' CHK'D BY : R.L.S. AND STORMWATER POLLUTION PREVENTION PLAN MTA - CROSBY HIGHWAY MAINTENANCE FACILITY SOUTH PORTLAND, MAINE APP'D BY : R.A.B. GZA DRAWN BY: MJD GeoEnvironmental, Inc. Engineers and Scientists 4 FREE STREET PORTLAND, MAINE 04101 SITE PLAN :1" = 100'SCALE : APRIL 2010 (207)879-9190 DATE



EMERGENCY CONTACT LIST CROSBY MAINTENANCE FACILITY

CROODI MINITERINI (CE INCIENTI					
	NCY RESPON				
Discoverer shall con	Discoverer shall contact one of the following in the order presented				
Primary Emergency Response	Bill Thompson,		Office: (207) 871-7728		
Coordinator	Highway Mainte	enance	Cell phone: (207) 838-6825		
	Supervisor		Pager: (207) 759-8502		
First Alternate Emergency Response	Roger Mathews,		Office: (207) 985-3506		
Coordinator	Highway Division	on Manager	Cell phone: (207) 776-0974		
			Pager: (207) 471-0077		
Second Alternate Emergency Response	Bill Wells,		Office: (207) 871-7771 ext. 125		
Coordinator	Director of High		Cell phone: (207) 831-5812		
	Equipment Main	itenance	If no answer, contact Radio Room		
	OTHER MTA	CONTACT	S		
Discoverer or ERC sha	all contact each	of the follo	wing as soon as possible		
MTA Communications Center/Radio Roo		(207) 871-777			
Arlo Pike, Safety Coordinator		(207) 871-777	71 ext. 358; cell: (207) 423-5994		
John Branscom, Environmental Services	Coordinator		71 ext. 359; cell: 671-3487; pg: 471-0881		
	GENCIES EM				
(EMERGENCY DIAL 911 – other numbers for reference, if needed)					
South Portland Fire Department		911 or (207) 799-3314 (800) 482-0730			
Maine State Police		(000) 402-0730			
Maine Department of Environmental Prot	tection	(000) 400 0			
Spill Hotline		(800) 482-077			
Central Office	2 (T) (A)	(207) 287-768			
Maine Emergency Management Agency (MEMA)		(207) 287-408			
Maine State Emergency Response Commission		(800) 452-446			
Centers for Disease Control		(800) 311-343			
National Response Center		(800) 424-880)2		
		(515) 222 52			
EPA Region 1		(617) 223-726			
	L RESPONSE				
ERC will contact if sp	oill recovery an	ıd/or cleanuj	p assistance is required		
Petroleum/Fuel Suppliers:					
Diesel & Gasoline Fuel: C.N. Brown	& Co.	(207) 743-921	2 -or- (800) 442-6330		
No. 2 Fuel Oil: Union Oil Co.		(207) 799-1521			
Propane: Downeast Energy		(207) 799-5585			
Motor & Lubricating Oils: Maine Lub	orication Service	(207) 772-651	.3		
Clean Harbors Environmental Services		(207) 799-811	.1		
Environmental Projects, Inc. (EPI)		(207) 786-739	00		
		(202) =			
ENPRO Services, Inc.		(207) 799-085	00		

SPILL REPORT FORM

Maine Turnpike Authority - Crosby Highway Maintenance Facility Mile 45.8 Southbound South Portland, Maine 04106

Date Began:	am pm Water
Time Began: am Time Ended: Ppm	pm Water
Fime Began:	pm Water
Time Began:	pm Water
Spill/Release onto or into: (check all that apply)	pm Water
Spill/Release onto or into: (check all that apply)	Water
Is The Spill A Suspected Illicit Discharge to Stormwater? Yes No Material Spilled/Released: Extremely Hazardous Substance (EHS) Involved? Yes No Amounts Spilled/Released: Amounts Recovered: Source and Cause of the Discharge: Is more spillage possible? Yes No If yes, amount: Description of All Affected Media (include weather conditions): What resources are at risk? (check all that apply)	_
Extremely Hazardous Substance (EHS) Involved? Yes No Amounts Spilled/Released: Amounts Recovered: Source and Cause of the Discharge: Is more spillage possible? Yes No If yes, amount: Description of All Affected Media (include weather conditions): What resources are at risk? (check all that apply)	
Extremely Hazardous Substance (EHS) Involved?	
Amounts Spilled/Released: Amounts Recovered: Source and Cause of the Discharge: Is more spillage possible? Yes No If yes, amount: Description of All Affected Media (include weather conditions): What resources are at risk? (check all that apply)	
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Description of All Affected Media (include weather conditions): What resources are at risk? (check all that apply)	
Description of All Affected Media (include weather conditions): What resources are at risk? (check all that apply)	
☐ Public Safety ☐ Public Water or Well ☐ Private Water or Well ☐	Atmosphere
☐ Land or Ground ☐ Open Water ☐ Surface Drainage ☐	Storm Sewer
Sanitary Sewer Vapors in Building Other (specify):	
Damages or Injuries Caused by Discharge:	
Is an Evacuation necessary?	
Corrective Action(s) Taken:	

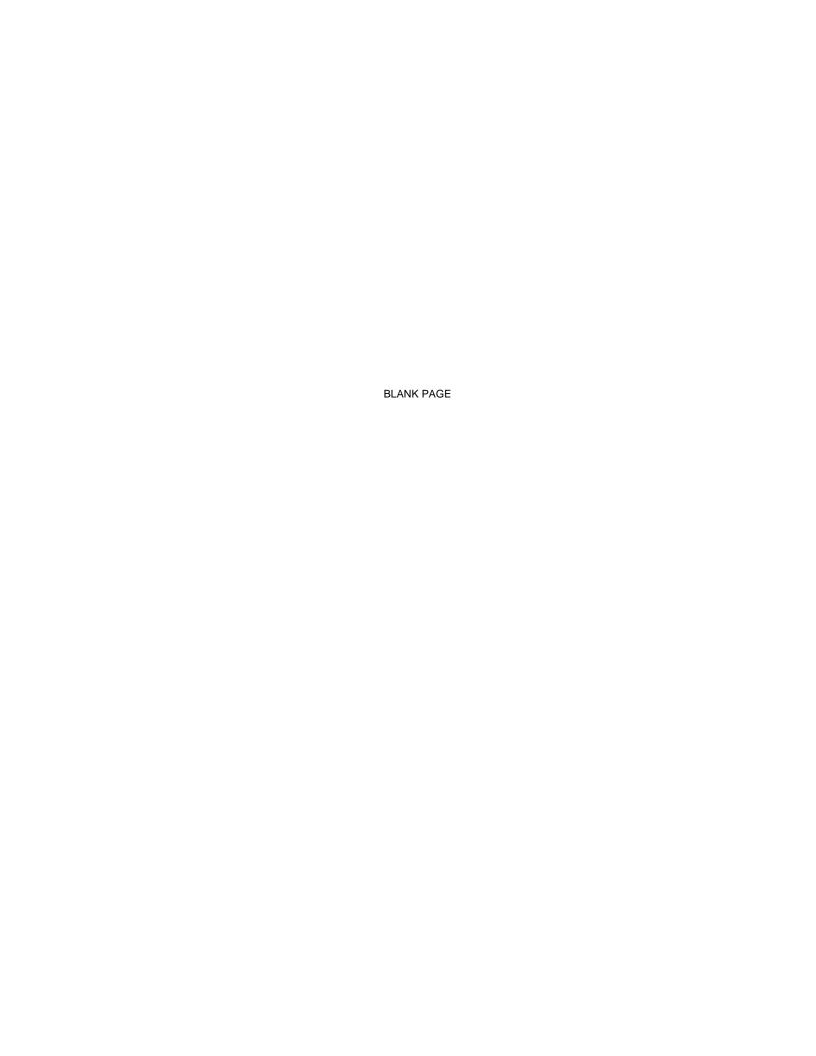
SPILL REPORT FORM

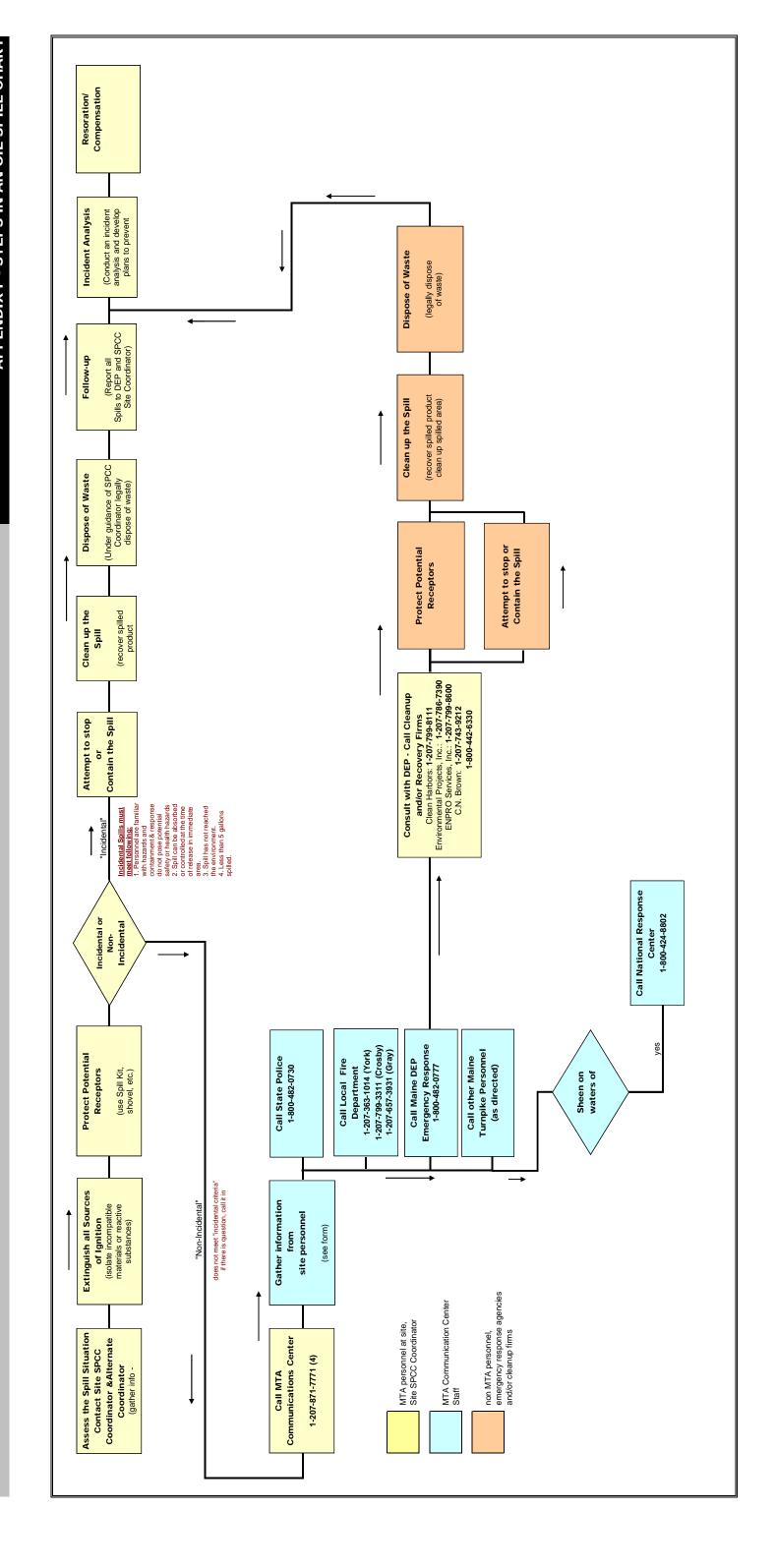
NOTIFICATIONS (To be made by MTA Communications Center if spill is reportable)

Maine Turnpike Authority - Crosby Highway Maintenance Facility Mile 45.8 Southbound South Portland, Maine 04106

AGENCY	PHONE NUMBER	CONTACT NAME	DATE/ TIME	REPORTING CRITERIA
South Portland Fire Department	911 or 799-3314			If aid is needed to evacuate area
Maine State Police/State Emergency Response Commission (SERC)	1-800-482-0730			If aid is needed to evacuate or respond to spill
Maine Department of I	Environmental Protection			If spill is >5 gal.
SPILL HOTLINE Central Office	1-800-482-0777 287-7688			or visible sheen is presen on surface water
Local Municipal Agency				If aid is needed to assess an illicit discharge (see IDDE SOP)
Maine Emergency Management Agency (MEMA)	287-4080			If aid is needed to evacuate or respond to spill
National Response Center (NRC)	1-800-424-8802			If visible sheen is present on surface water
ОТНІ	ER EMERGENCY TELEPI	HONE NUMBERS (for r	eference, if 1	needed):
Environmental Prot	tection Agency, Region 1		1-617-565	-3590
Clean Harbors E	nvironmental Services		1-207-799	-8111
Environmental	l Projects, Inc. (EPI)		1-207-786	-7390
ENPRO	Services, Inc.		1-207-799	-8600
	Center, Portland, ME		1-207-871	
	Control Center STRUCTIONS GIVEN BY	EACH ACENCY NORTH	1-800-562	
REVIEW AND APP		EACH AGENCT NOTE	E ED. (anaci	n sneets us necessary)
	REPORT (MTA Site Supervi	isor/Foreman):		
(printed name)	3)	signature)		(date)
CONTRACTOR SITE S	SUPERVISOR (if cleanup con	ntractor involved):		
	(8	signature)		(date)
(printed name)	`			
*	CAL SERVICES COORDINA	ATOR:		

NOTE: In the event of a spill, Table 4 of this Plan should be updated; a copy of this *Spill Report* **must** be retained in Appendix D. A *BMP Incident and Corrective Actions Report* (see Appendix F-2) may also need to be completed and retained as part of this Plan.







When a spill strikes.....



1. Contact Site Emergency Coordinator

If not present when the spill is initially observed the Emergency Coordinator or Alternate Coordinator should be immediately contacted. The Coordinator shall then direct actions at the site relative to the spill.

2. Assess the risk:



From the moment a spill occurs and throughout the response, determine the risks that may affect human health, the environment, and property. Always put safety FIRST. If possible, identify the spilled material, its source, and determine how much was spilled. Identify potential receptors (drains, etc). Determine if spill is minor, "Incidental" or "Non-incidental" report immediately to MTA Communication Center. Com Center will contact emergency response agencies. Consider need to evacuate area where spill has occurred.



3. Extinguish all sources of ignition

Assess potential fire hazards. Extinguish or remove sources of flame or spark.



4. Select personal protective equipment (PPE):

If spill is "Incidental" and will be cleaned up by site personnel, choose the appropriate PPE to safely respond to the spill. Consult Material Safety Data Sheets (MSDS) and literature from chemical and PPE manufacturers for the best recommendations. If you are uncertain of the danger and the material is unknown, allow outside response agencies to respond to the incident.



5. Confine the spill / protect receptors:

SPEED COUNTS! Limit the spill area by blocking, diverting, or confining the spill. Use contained absorbents including the Socks, Booms and Mats found in spill kits. Stop the flow of the liquid before it has a chance to contaminate a water source. Spill kits are designed to facilitate a quick, effective response.



6. Stop the source:

After the spill is confined, stop the source of the spill. This may simply involve turning a container upright, or plugging a leak from a damaged drum or container. Transfer liquids from the damaged container to an appropriate new one.



7. Evaluate the incident and implement cleanup:

Once the spill is confined and the leak has been stopped, it is time to reassess the incident and develop a plan of action for implementing the spill cleanup. Spills are commonly absorbed. Pillows, mat pads, and absorbent can be used to absorb the remainder of the spill. Simply place the pillows and pads throughout the spill area. Once the absorbents are saturated with solvent, etc., they may be considered hazardous waste and should be disposed of as such. Oil soaked absorbents should be double bagged and shipped to an incinerator. Contact ME DEP or ME Dept of Public Safety to report the spill (if hasn't already been reported by the Communication Center).



8. Decontaminate:

Decontaminate the site, personnel, and equipment by removing or neutralizing the hazardous materials that have accumulated during the spill. This may involve removing and disposing of contaminated media, such as soil, that was exposed during spill incident.



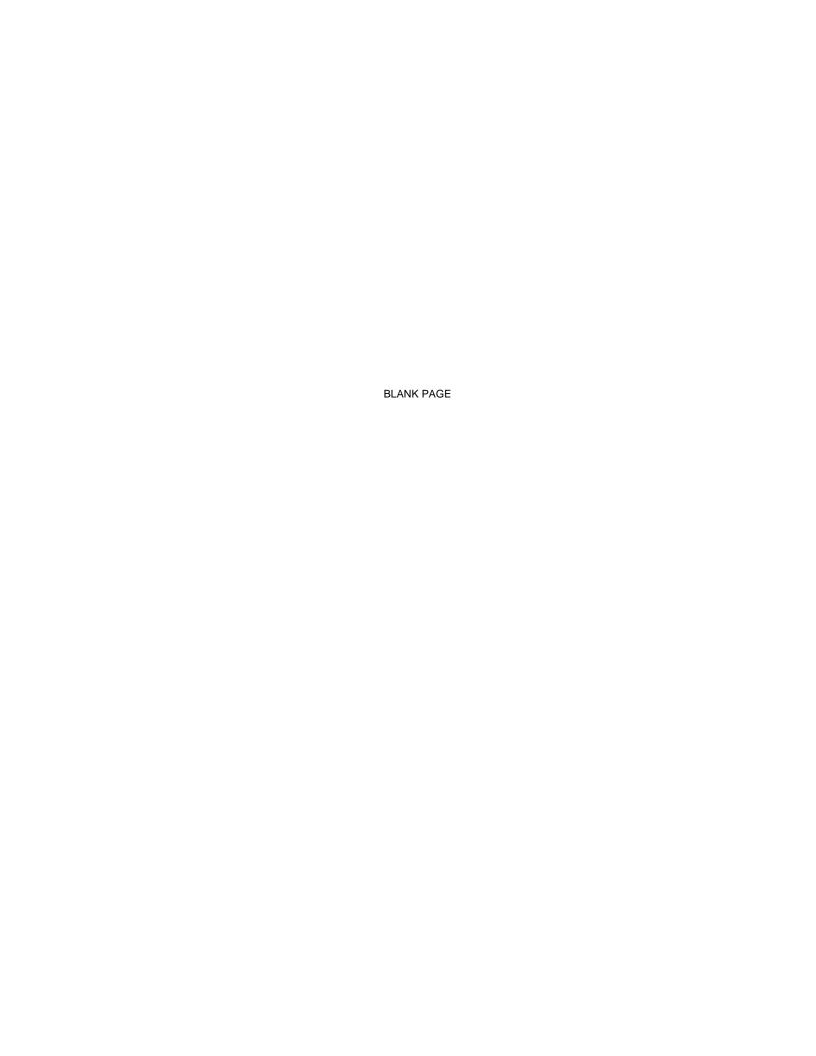
9. Complete required reports

Complete all notifications and paperwork required by local, state, and federal guidelines for reporting spill incidents. Failure to do so can result in penalties. Coordinate with the MTA's Environmental Services Coordinator.



10. Conduct incident analysis

The Environmental Services Coordinator will conduct an incident analysis and develop plans to prevent recurrence.



APPENDIX H ROUTINE FACILITY INSPECTION REPORTS

INSTRUCTIONS FOR MTA'S HIGHWAY MAINTENANCE FACILITY'S SPCC INSPECTION PROGRAM:

MONTHLY

1. Complete inspection items #1 through #5 on **Appendix H - Inspection Checklist**

(If any issues present during inspection, complete Appendix H-2 - BMP/PM Incident and Corrective Action Report).

- 2. Inventory Spill Equipment using pages 5 through 7 of Inspection Checklist.
 - 3. Submit completed **Inspection Checklist** (and any **Corrective Action Reports**, if necessary) to the Environmental Services Coordinator for review and certification.
 - 4. Maintain copies of the completed **Inspection Checklists** in the facility's environmental file located in the Foreman's office.

QUARTERLY

1. In addition to the Monthly procedures listed above, complete inspection items #6 through #15 on

Appendix H - SPCC/SWPPP Inspection Checklist

(If any issues present during inspection, complete Appendix H-2 - BMP/PM Incident and Corrective Action Report).

- 2. Inventory Spill Equipment using pages 5 through 7 of **Inspection Checklist.**
 - 3. Submit completed **Inspection Checklist**(and any **Corrective Action Reports**, if necessary)
 to the Environmental Services Coordinator for review and certification.
 - 4. Maintain copies of the completed **Inspection Checklists** in the facility's environmental file located in the Foreman's office.

Revised: August 2005

APPENDIX H-2 BMP/PM INCIDENT AND CORRECTIVE ACTION REPORT

Instructions:		ce of pollutants entering the storm water system or ineffective report should be attached to the activity record that initiated this
Report Initiate	d by: Monthly SPCC Inspection Quarterly	ly Stormwater Inspection Other
Date:	Time:	Potential Pollutant Source Number (if applicable):
Report Complet	ed by:	
1. Observation	ons:	
	onal BMPs/Pms appropriate? If any changes are completed below:	necessary including repair or maintenance, describe change needed
	Change/Activity	Date Completed
	ty of law that this document and all attachments were prepared under	• .
properly gathered as persons who manag	sion in accordance with a system designed to assure that qualified pend evaluated the information submitted. Based on my inquiry of the ethe system, or those persons directly responsible for gathering the	person or Authorized Signature
and complete. I am	ormation submitted is, to the best of my knowledge and belief, true, a aware that there are significant penalties for submitting false inform ility of fine and imprisonment for knowing violations.	

 $p:\operatorname{mta}\ 25500.32\ spcc\ compliance\ assistance\ task\ 3-crosby\ mf\ spcc\ plan\ -april\ 2010\ appendix\ h\ (bmpincident form). doc$

APPENDIX F SPCC/SWPPP INSPECTION CHECKLIST			
Date: Inspection Completed By:	Wet or Dry Weather:		
POLLUTANTS ENTERING DRAINAGE SYSTEMS			
Is there any evidence of pollutants entering the storm water conveyance systems from the following areas?			
SOURCE # / AREA INSPECTED / INSPECTION ITEMS – REGULATORY PROGRAM	INSPECTION FREQUENCY	YES (Check	
1. Unleaded Fuel / Aboveground storage tank (AST) Eastern side of Building #8 - SWPPP SPCC			
- Inspections of the AST fill port area, piping, and surrounding ground surfaces confirm the absence of spills or leaks.	Monthly	Yes	No
- Signs are posted at the fill port that warns the driver to disconnect the filling hose and inspect the vehicle for leakage before departure.	Quarterly	Yes	No
- Spill response equipment is located proximate to petroleum storage areas and is available for use during an accidental release.	Monthly	Yes	No
- Work areas are maintained in clean and orderly condition.	Quarterly	Yes	No
2. Diesel Fuel / AST Eastern side of Building #8 - SWPPP SPCC		" <u></u>	_
- Inspections of the AST fill port area, piping, and surrounding ground surfaces confirm the absence of spills or leaks.	Monthly	Yes	No
- Signs are posted at the fill port that warns the driver to disconnect the filling hose and inspect the vehicle for leakage before departure.	Quarterly	Yes	No
- Spill response equipment is located proximate to petroleum storage areas and is available for use during an accidental release.	Monthly	Yes	No
- Work areas are maintained in clean and orderly condition.	Quarterly	Yes	No
3. No. 2 Fuel Oil / ASTs Basement of Building #9 (Office) - SWPPP SPCC			_
- Inspections of the AST fill port area and surrounding ground surfaces confirm the absence of spills or leaks.	Monthly	Yes	No
- Post a sign at the fill port that warns the driver to disconnect the filling hose and inspect the vehicle for leakage before departure.	Monthly	Yes	No
- Spill response equipment (see Table 3) is located inside Building #3 (5 Bay Garage) and is available for use during an accidental release.	Monthly	Yes	No
- Work areas are maintained in clean and orderly condition.	Monthly	Yes	No
4. Virgin Petroleum Products / Motor oil, Hydraulic fluid, Spent absorbent 55-gallon drums and other misc. containers located in Bldgs #2, #3, #4, and #5 - SWPPP SPCC			_
 All containers are maintained in good condition, compatible with its contents and stored indoors within appropriate secondary containment. 	Monthly	Yes	No

Date: Inspection Completed By: Wet or Dry Weather: POLLUTANTS ENTERING DRAINAGE SYSTEMS Is there any evidence of pollutants entering the storm water conveyance systems from the following areas? SOURCE #/ AREA INSPECTED / INSPECTION ITEMS – REGULATORY PROGRAM INSPECTION YES / NO (Check Box) ¹ 4. Virgin Petroleum Products / Motor oil, Hydraulic fluid, Spent absorbent 55-gallon drums and other misc. containers located in Bldgs #2, #3, #4, and #5 - SWPPP SPCC - All containers are properly and plainly labeled. Monthly Yes No part of the facility's inspection program.	
Is there any evidence of pollutants entering the storm water conveyance systems from the following areas? SOURCE # / AREA INSPECTED / INSPECTION ITEMS – REGULATORY PROGRAM INSPECTION FREQUENCY YES / NO (Check Box) ¹ 4. Virgin Petroleum Products / Motor oil, Hydraulic fluid, Spent absorbent 55-gallon drums and other misc. containers located in Bldgs #2, #3, #4, and #5 - SWPPP SPCC - All containers are properly and plainly labeled. Monthly Yes No Part of the facility's inspection program.	
SOURCE # / AREA INSPECTED / INSPECTION ITEMS – REGULATORY PROGRAM INSPECTION FREQUENCY (Check Box) 4. Virgin Petroleum Products / Motor oil, Hydraulic fluid, Spent absorbent 55-gallon drums and other misc. containers located in Bldgs #2, #3, #4, and #5 - SWPPP SPCC - All containers are properly and plainly labeled. Monthly Yes No part of the facility's inspection program.	
FREQUENCY 4. Virgin Petroleum Products / Motor oil, Hydraulic fluid, Spent absorbent 55-gallon drums and other misc. containers located in Bldgs #2, #3, #4, and #5 - SWPPP SPCC - All containers are properly and plainly labeled. - Areas where petroleum products are stored are inspected for evidence of spill or other pollutants discharged or contacting storm water as part of the facility's inspection program. Monthly Yes No No No No No No No N	
55-gallon drums and other misc. containers located in Bldgs #2, #3, #4, and #5 - SWPPP SPCC - All containers are properly and plainly labeled. - Areas where petroleum products are stored are inspected for evidence of spill or other pollutants discharged or contacting storm water as part of the facility's inspection program. Monthly Yes No No	1
- Areas where petroleum products are stored are inspected for evidence of spill or other pollutants discharged or contacting storm water as Monthly Yes No part of the facility's inspection program.	
part of the facility's inspection program.	
- Spill response equipment (see Table 3) is located proximate to petroleum storage areas and is available for use during an accidental Monthly Yes No release.	
- Work areas are maintained in clean and orderly condition. Monthly Yes No	
5. Oil Water Separators/ Wastewater Holding Tanks / Oil Water Separators and Holding Tanks for Buildings #2, #3, and #5 - SPCC	
- Absorbent socks are placed in the floor drains to minimize the volume of oil sent to the oil water separator. The socks are checked weekly and replaced as needed.	
- Absorbent sump socks are placed into the oil water separator to absorb any residual oil. The sump socks are inspected at least monthly and replaced if needed.	
- All personnel that work in this area are trained annually regarding oil handling/management procedures and general good housekeeping procedures established at CHMF.	
- The area is inspected for evidence of spills or other pollutants discharged or contacting storm water as part of the facility's routine No No No No No No No No No N	
- The area is maintained in clean and orderly condition. Monthly Yes No	
6. Magnesium Chloride / 5,000 Gallon AST/ East of Building #2 -	
- All containers are properly and plainly labeled. Monthly Yes No	
- Signs are posted at the fill port that warns the driver to disconnect the filling hose and inspect the vehicle for leakage before departure. Monthly Yes No	$\overline{}$
- Spill response equipment is located proximate to bulk storage areas and is available for use during an accidental release. Monthly Yes No	
- Work areas are maintained in a clean and orderly condition. Monthly Yes No	J

APPENDIX SPCC/SWPPP INSPECTIO			
Date: Inspection Completed By:	Wet or Dry Weather:		
POLLUTANTS ENTERING DRAINAGE SYSTEMS			
Is there any evidence of pollutants entering the storm water conveyance systems from the follows:	owing areas?		
SOURCE #/ AREA INSPECTED / INSPECTION ITEMS – REGULATORY PROG	RAM INSPECTION FREQUENCY	YES / NO (Check Box)	
7. Loading and Unloading Areas / Diesel, Gasoline, and other petroleum products loaded/unloading Areas / Diesel, Gasoline, and other petroleum products loaded/unloading Areas / Diesel, Gasoline, and other petroleum products loaded/unloading Areas / Diesel, Gasoline, and other petroleum products loaded/unloading Areas / Diesel, Gasoline, and other petroleum products loaded/unloading Areas / Diesel, Gasoline, and other petroleum products loaded/unloading Areas / Diesel, Gasoline, and other petroleum products loaded/unloading Areas / Diesel, Gasoline, and other petroleum products loaded/unloading Areas / Diesel, Gasoline, and Other petroleum products loaded/unloading Areas / Diesel, Gasoline, Gasolin	aded by delivery trucks -		
 Loading/unloading areas are inspected for evidence of spills or other pollutants discharged of contacting sto facility's routine inspection program (and also prior to delivery truck departure). 	rm water as part of the Monthly	Yes No	o
- Loading/unloading areas are maintained in a clean and orderly condition.	Monthly	Yes No	o
8. Sandpiles (Indoor Storage) / Sand Stockpiled within Bldg #8 (Sand/Salt Storage) - SWPPP		_	
- Absorbents are available in the Sand/Salt Storage Builing in the even that there is a leak or spill.	Monthly	Yes No	Э
 The area surrounding indoor sand stockpiles is inspected for evidence of spills or other pollutants contacting facility's quarterly storm water inspection program. 	g storm water as part of the Quarterly	Yes No)
- Work areas are maintained in clean and orderly condition.	Quarterly	Yes No	э
9. Outside Material Storage / Gravel Fill Stockpiles, Metal Guardrails, etc. Northwestern corner of the facility, west of Bldg #5 (10-bay garage) - SWPPP		_	
 Areas of outdoor material sorage and equipment storage are inspected for evidence of spills or other pollutar well as erosion, as part of the facility's quarterly storm water inspection program. 	nts contacting stormwater, as Quarterly	Yes No)
- Garbage and waste materials are picked up and disposed of on a routine basis.	Quarterly	Yes No	э
- Work areas are maintained in clean and orderly condition.	Quarterly	Yes No)
10. Salt Piles (Indoor Storage) / Salt Stockpiled within Bldg #1 (Salt Shed) - SWPPP			
- Absorbents are located inside the Salt Storage Building in the event that there is a leak or spill.	Quarterly	Yes No	Э
 Salt piles are inspected for evidence of spills or pollutants, such as salt potentially contacting storm water as storm water inspection program. 	part of the facility's quarterly Quarterly	Yes No)
 Salt piles are inspected for evidence of spills or pollutants, such as salt, that may potentially contact storm w quarterly storm water inpection program. 	rater as part of the facility's Quarterly	Yes No)
- Work areas are maintained in clean and orderly condition.	Quarterly	Yes No)

APPENDIX F SPCC/SWPPP INSPECTION CHECKLIST			
Date: Inspection Completed By: We	et or Dry Weather:		
POLLUTANTS ENTERING DRAINAGE SYSTEMS			
Is there any evidence of pollutants entering the storm water conveyance systems from the following areas?			
SOURCE #/ AREA INSPECTED / INSPECTION ITEMS – REGULATORY PROGRAM	INSPECTION FREQUENCY	YES /	
11. Outdoor Materials and Equipment Storage / Signs, guardrails, arrow and message board trailers, plows, salt racks, tires, around yard - SWPPP	, etc. stored outdoors		
- Areas of outdoor material and equipment storage are inspected for evidence of spills or pollutants contacting storm water as part of the facility's quarterly storm water inspection program.	Quarterly	Yes	No
- Garbage and waste materials are picked up and disposed of on a routine basis.	Quarterly	Yes	No
- Outdoor storage areas are maintained in clean and orderly condition.	Quarterly	Yes	No
12. Outdoor Storage of Scrap Materials/Waste Debris / Rubber, wood, metal and concrete debris Stockpiled outdoors in the northwestern portion of CHMF beside Building #5 (10 Bay Garage) - SWPPP		<u>—</u>	
 Areas where outdoor storage of scrap materials and waste debris is accumulated and/or stored are inspected for evidence of spills or other pollutants discharged or contacting storm water as part of the facility's routine inspection program 	Quarterly	Yes	No
- Outdoor storage areas are maintained in clean and orderly condition.	Quarterly	Yes	No
13. Municipal Solid Waste (MSW) / Municipal solid waste dumpster Located beside Bldg #5 (10-bay garage) - SWPPP			_
 MSW containers are inspected for evidence of spills or other pollutants discharged or contacting storm water as part of the facility's regular inspection program. 	Quarterly	Yes	No
- The MSW container and the surrounding area are maintained in clean and orderly condition.	Quarterly	Yes	No
14. Vehicle Parking Awaiting Maintenance / Vehicles (e.g., trucks) and equipment (e.g., tractor) parked around yard outside	e - SWPPP	_	
- Areas where vehicle/equipment parking occurs are maintained in clean and orderly condition.	Quarterly	Yes	No
- Drip pans are inspected for leaks and potential overflow and all liquids are properly disposed of.	Quarterly	Yes	No
- Drip pans are placed under leaking stationary equipmetn until the leak is repaired.	Quarterly	Yes	No
- Exterior vehicle parking areas at CHMFare inspected for evidence of spills, leaks, etc. as part of the facility's regular inspection program.	Quarterly	Yes	No
15. Vehicle and Equipment Washing Areas / Rinsing performed at designated points outside of Building #2 (8-bay garage) -	SWPPP		
- Designated vehicle wash and rinse areas are inspected on a regular basis for evidence of spills, leaks or pollutants that may have the potential to contact storm water.	Quarterly	Yes	No

APPENDIX F SPCC/SWPPP INSPECTION CHECKLIST		
Date: Inspection Completed By: We	t or Dry Weather:	
POLLUTANTS ENTERING DRAINAGE SYSTEMS		
Is there any evidence of pollutants entering the storm water conveyance systems from the following areas?		
SOURCE #/ AREA INSPECTED / INSPECTION ITEMS – REGULATORY PROGRAM	INSPECTION FREQUENCY	YES / NO (Check Box) ¹
15. Vehicle and Equipment Washing Areas / Rinsing performed at designated points outside of Building #2 (8-bay garage) - S	SWPPP	
- Excessive sediments, sand and gravel are swept and removed from the area on a regular basis.	Quarterly	Yes No
- Work areas are maintained in clean and orderly condition.	Quarterly	Yes No
16. Significant Dust or Particulate / Sand and Gravel piles/unpaved areas - SWPPP		
 Areas susceptible to erosion are inspected as part of the facility's regular inspection program. Inspection in this area includes identifying any evidence of erosion or evidence of spills or pollutants discharged or contacting storm water. 	Quarterly	Yes No No
- Sweeping of impervious areas at CHMF is conducted on a regular basis.	Quarterly	Yes No
17. Authorized Non-Storm Water Discharge / Air condition condensate Window-mount AC units in office area of Bldg #9 - SWPPP		
- Areas where air conditioning condensate may be discharged are inspected as part of the facility's routine inspection program.	Quarterly	Yes No

⁽¹⁾ If the answer is "No" to any of the inspection items, identify the specific conditions observed for each source on the reverse side of this page, and initiate corrective actions. Document corrective actions using the "BMP INCIDENT AND CORRECTIVE ACTION REPORT."

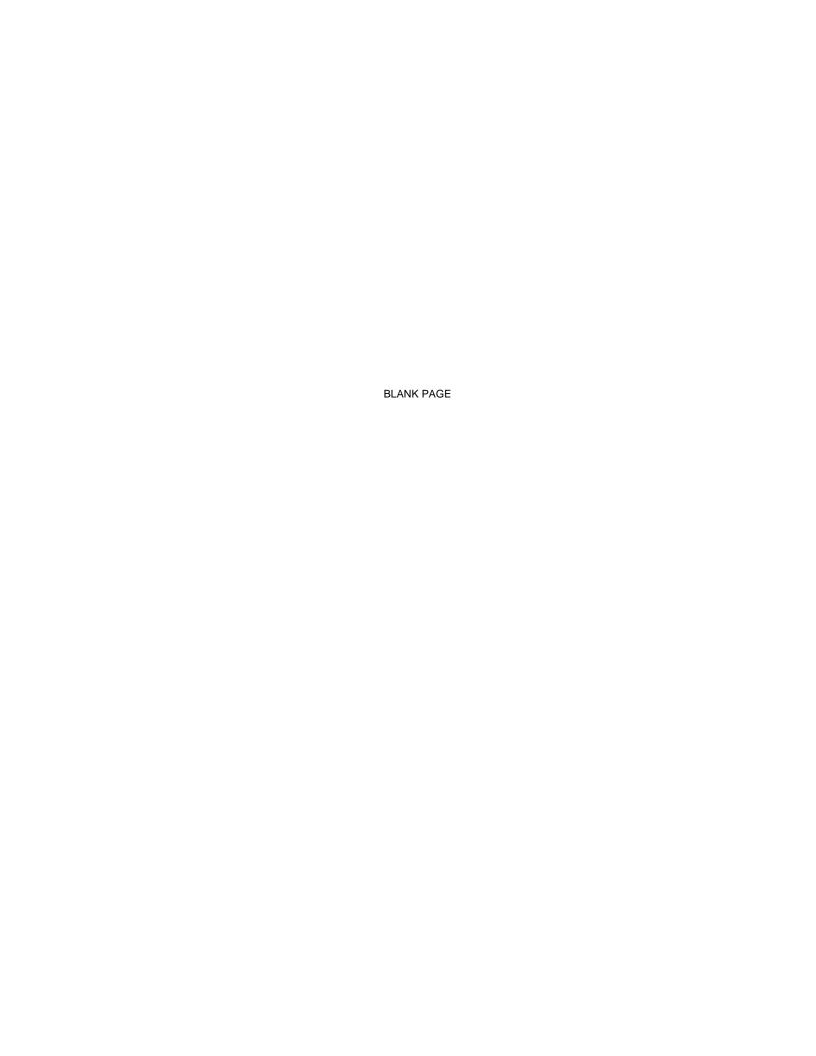
APPENDIX F SPCC/SWPPP INSPECTION CHECKLIST						
Date:	Inspection Completed	Ву:		Wet or Dry Weath	er:	
POLLUTANTS	ENTERING DRAINAGE SYSTEM	IS				
Is there any evide	nce of pollutants entering the storm wa	ater conveyance syster	ns from the following areas?			
SOURCE #/ Al	REA INSPECTED / INSPECTION	ITEMS – REGULA	ATORY PROGRAM		CTION UENCY	YES / NO (Check Box) ¹
	ENT USED AT THIS FACILITY: esent, no further inspection is required)	Spill Kit-02		Spill Kit-03		
Location: Building #3 addition to t gal overpack two boxes o in Building: mounted "SJ ABSORBE this area wit materials: 1-	he contents of the 65-c drum listed, there are f sorbent pads stored #3 and also a wall-bill Magic NT" spill kit station in h the following gal plastic jug; 1 roll gs; and one hand dustpan. Present? Y N N Y N N Y N N N N N N N N N N N N	Location: Building #3 Contents: Acid Spill Kit	Present? Y N N	Location: Building #2 general, the absorbent p mounted "S	re are two boxes ads and also a water in the present? The present in the present	of all- his

	APPENDIX F SPCC/SWPPP INSPECTION CHECKLIST	г
Date: Inspection Co	ompleted By:	Wet or Dry Weather:
POLLUTANTS ENTERING DRAINAGE S	SYSTEMS	
Is there any evidence of pollutants entering the	storm water conveyance systems from the following areas?	
SOURCE #/ AREA INSPECTED / INSPE	INSPECTION YES / NO FREQUENCY (Check Box) ¹	
Spill Kit-04 Location: Building #2 (8 Bay Garage) Contents: Present? Acid Spill Kit Y N N	Spill Kit-05 Location: Building #5 (10 Bay Garage) - In general, there are two boxes of absorbent pads and also a wall-mounted "Spill Magic ABSORBENT" Spill Kit in this area. Contents: Present? Spill Magic Absorbent Y N (1-gallon) Plastic bags (1 roll) Y N Hand-broom and dustpan Box of sorbent pads (2) Y N N	Spill Kit-06 Location: Builing #5 (10 Bay Garage) Contents: Present? Acid Spill Kit Y N N

	APPENDIX F SPCC/SWPPP INSPECTION CHECKLIST		
Date:	Inspection Completed By:	Wet or Dry Weather:	
POLLUTANTS	ENTERING DRAINAGE SYSTEMS		
Is there any evide	ence of pollutants entering the storm water conveyance systems from the following areas?		
SOURCE # / A	REA INSPECTED / INSPECTION ITEMS – REGULATORY PROGRAM	INSPECTION FREQUENCY	YES / NO (Check Box) ¹
Spill Kit-07 Location: Fuel Pump 1	Island (in shed) - This		
spill kit is re at fuel pump	p island and also at uel delivery area.		
Contents:	Present?		
Splash-guard Safety Goggles (1 pair)	Y N		
PIG Mat Pads (white)			
PIG Mat Pads (Gray)			
Non-Hazardous Wast Label (1)			
Nitrile gloves (4 pair)) Y N		
MEDEP Guide to "Responding to Oil & Haz. Mat'ls Spills"	Y N		
Hazardous Waste Label (1)	Y N		
Disposal bag and ties (6)	S Y N N		
48" Blue Socks (4)	Y N		
2000 Emergency Response Guide	Y N N		

MTA Crosby Highway Maintenance Facility South Portland, Maine

APPENDIX F SPCC/SWPPP INSPECTION CHECKLIST				
Date: Inspection Completed By: W		Wet o	or Dry Weather:	
POLLUTANTS ENTERING DRAINAGE SYSTEMS				
1 SUURCE#/ AREA INSPECTED/INSPECTION HEMIS – REGULATURT PROGRAM			YES / NO (Check Box) ¹	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.				
Reviewed by (John Branscom, Environmental Services Coordinator):		Date	e:	



Maine Turnpike Authority MS4 Stormwater Awareness Plan

Developing and implementing a Stormwater Awareness Plan is a requirement of the Maine Department of Environmental Protection's (DEP's) General Permit for the Discharge of Stormwater from Maine Department of Transportation (MaineDOT) and Maine Turnpike Authority (MTA) Municipal Separate Storm Sewer Systems (MS4s). Since MTA is subject to this MS4 permit and its six Minimum Control Measures (MCMs), Part IV(H)(1)(a)(i) requires MTA to conduct Public Education and Outreach (MCM #1) efforts that "continue raising awareness of stormwater issues amongst employees and contractors."

1.0 PERMIT LANGUAGE

Part IV(H)(1) of the MS4 Permit establishes three goals for MCM #1 - Public Education and Outreach on Stormwater Impacts. These include the following:

- 1. To raise awareness that polluted stormwater runoff is one of the most significant sources of water quality problems for Maine's waters;
- 2. To motivate staff and contractors to use Best Management Practices (BMPs) which reduce polluted stormwater runoff; and
- 3. To reduce polluted stormwater runoff as a result of increased awareness and utilization of BMPs.

In addition to continuing outreach efforts from the previous MS4 Permit (e.g., 5-year cycle)¹, MTA must satisfy these three goals by also continuing to raise awareness of stormwater among MTA employees and contractors. The progress and effectiveness of the Plan and associated efforts must then be evaluated and included in each annual report submitted to Maine DEP in accordance with $Part\ IV(J)$ of the MS4 Permit. As part of this evaluation, MTA must include an assessment of process indicators and impact indicators to evaluate efforts in meeting these goals. In the fifth annual report, the BMP Adoption Plan shall be reviewed fully and include analysis of the process and impact indicators.

2.0 COVERAGE AREA

This plan has been developed for implementation by MTA to meet MS4 Permit requirements for Urbanized Areas (UAs) within MTA's right-of-way (ROW).

Process indicators are related to the execution of the program, such as (1) percent or number of employees who attend a training session; or (2) completion of a particular action item (e.g., distributing posters to employee work place and/or contractor job site).

Impact indicators are related to the achievement of the goals and objectives of the program, such as (1) observable/measurable effects on behavior; or (2) percent or number of employees to describe sources of storm water pollution, proper spill response, or maintenance of a BMP.

¹ Public education and outreach efforts continued from the previous MS4 permit cycle include (but are not limited to) conducting annual stormwater pollution prevention/spill prevention control and countermeasures (SPCC) training to MTA maintenance and engineering employees, as well as other Measurable Goals that can be found in MTA's Stormwater Program Management Plan (SPMP) dated December 2008.

3.0 OBJECTIVE

The objective of this Stormwater Awareness Plan is to raise awareness among MTA employees and contractors regarding stormwater issues. For example, stormwater runoff is one of the most significant sources of water quality problems for Maine's waters.

The goal of the Stormwater Awareness Plan is to provide information relative to stormwater impacts in an effort to raise awareness of MTA employees. For example, 100% of Highway Maintenance employees and Engineering Inspectors will attend training sessions at which stormwater issues and impacts will be addressed. Additionally, MTA will also work to raise awareness among MTA employees in other departments, such as Fare Collections by providing abbreviated Stormwater/Spill Prevention and Response training to supervisors and managers who will in turn inform additional employees regarding stormwater issues relative to MTA operations.

The goal of this Plan is to also raise awareness of contractors by providing this Plan, as well as the Targeted BMP Adoption Plan (which is designed to motivate employees and contractors to use BMPs to reduce polluted stormwater runoff), prior to starting work on MTA projects.

4.0 MESSAGE

The message MTA will strive to impart on employees and contractors will relate to the potential impacts their activities may have on stormwater runoff and water quality in Maine. The message statement is:

"The effect stormwater runoff has on the water quality of Maine waters is impacted by the level of effort put into the construction, operation, and maintenance of MTA's stormwater infrastructure. Polluted water entering the storm drain system and discharged untreated directly to waterbodies is used for drinking, fishing, and swimming, which impacts everyone in Maine."

In addition to the Stormwater Awareness Plan message, the target audience will be informed of authorized non-stormwater discharges allowed by the permit provided they do not contribute to a violation of water quality standards, as determined by the DEP. These include the following:

- Landscape irrigation
- Diverted stream flows
- · Rising ground waters
- Uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20))
- Uncontaminated pumped ground water
- Uncontaminated flows from foundation drains
- Air conditioning and compressor condensate
- Irrigation water
- Flows from uncontaminated springs
- Uncontaminated water from crawl space pumps
- Uncontaminated flows from footing drains
- Lawn watering runoff
- · Flows from riparian habitats and wetlands
- Residual street wash water (where spills/leaks of toxic or hazardous materials have not occurred, unless all spilled material has been removed and detergents are not used)
- Hydrant flushing and fire fighting activity runoff
- Water line flushing and discharges from potable water sources

4.1 OUTREACH TOOL(S) AND DISTRIBUTION

This Stormwater Awareness Plan and message will be provided to each MTA employee at annual training sessions and also to each contractor before commencement of work, in addition to the Targeted BMP Adoption Plan.

MTA has established or will rely on a number of outreach tools including the following:

- Existing stormwater training programs
 - For MTA employees, the internal training program will be evaluated annually (and updated, as needed) to include storm water topics in order to assess process and impact indicators; and
 - o For contractors, MTA continues to require an On-Site Responsible Party (OSRP) certified by DEP's NPS Training Program to be knowledgeable of stormwater, specifically erosion prevention, sedimentation control and other potential impacts to water quality in Maine.
- Stormwater information packages to raise awareness and encourage utilization of targeted BMPs
 - o For MTA employees, information will be provided during annual and supplemental training sessions. Informational packages may also be provided via MTA's newsletters and memos posted to employee bulletin boards, as well as through employee meetings, including quarterly Environmental Health & Safety Committee meetings.
 - o For contractors, MTA will continue to include contractual requirements provided in the standard contract language that establishes the anticipated expectations for performance and payment. Stormwater information will be discussed or provided to contractors prior to starting work (e.g., at Pre-Construction meetings).

4.2 TIMELINE AND IMPLEMENTATION SCHEDULE

The timeline and implementation schedule is determined by:

- The training schedule established each year for MTA employees; and
- The solicitation and project award notices each year.

MTA has established a representative training schedule for each year and is similar to the table below:

Date	Training Type	
April	Erosion and Sediment Control (ESC) and Stormwater Pollution Prevention for highway	
	maintenance Supervisors and Foremen	
May - June	Spill Prevention Control and Countermeasures Plan (SPCC), Stormwater and Erosion	
	and Sediment Control (ESC) for MTA maintenance and engineering employees.	
October	Spill Prevention Control and Countermeasures Plan (SPCC) and Stormwater for Fare	
	Collections	

The training sessions are designed to meet the goal of increasing awareness, as well as encouraging utilization of targeted BMPs to reduce stormwater runoff and potential impacts. In addition to these training sessions, there may be supplemental training sessions as needed and/or new information posters about stormwater BMPs posted at MTA facilities. Newsletters including stormwater information may also be sent each year to employees.

For contractors, MTA's requirement to have an OSRP certified by DEP's NPS Program ensures that the contractor is aware of stormwater related issues. However, in Permit Year 2, MTA will begin distributing this Stormwater Awareness Plan to contractors.

4.3 RESPONSIBLE PARTY

The primary responsible party at MTA is the Environmental Services Coordinator, John Branscom. The Environmental Services Coordinator may also rely on the following:

- MTA Supervisors, Foremen, Inspectors and/or other personnel to inform MTA employees and contractors of the targeted BMPs to be utilized;
- An environmental consulting firm, such as GZA GeoEnvironmental, Inc, to ensure MTA's employees are trained as defined by the Plan; and
- A design engineering firm, such as HNTB, who administer construction contracts, to ensure the Plan is properly implemented by the contractors.

4.4 EVALUATION PROTOCOL

MTA training is documented with attendance sign-in sheets, exam scores, in-class workshops and evaluation forms. A training database is maintained with information gathered from employees during each training session.

<u>Process Indicators:</u> Assessment of the program execution will be included in the annual report. The following topics will be reported for MTA employees:

- 1. Number of employees that attended training; and
- 2. Average exam scores for attendees.

<u>Impact Indicators:</u> Gauging the achievement of goals and objectives of the program will be included in the annual report. These will be addressed by the following behavioral change questions:

- 1. Number or percentage of employees to identify the goals of MCM #1 correctly;
- 2. Number or percentage of employees to identify source(s) of storm water pollution;
- 3. Number or percentage of employees to identify and differentiate between structural and non-structural BMPs; and
- 4. Number or percentage of employees to demonstrate an applied knowledge of BMP-specific information.

Process and impact indicators for contractors will be tracked by documenting the pre-construction meetings when this Plan and the Targeted BMP Adoption Plan are provided to each contractor and the contractor, in turn, provides MTA with the certification for their OSRP for the project.

4.5 PLAN MODIFICATION

This Stormwater Awareness Plan may require modification if evaluation data shows that efforts are not effective. Should modifications be needed, the plan will be revised or a new plan will be developed.

Maine Turnpike Authority MS4 Targeted BMP Adoption Plan

Developing and implementing a Best Management Plan (BMP) Adoption Plan is a requirement of the Maine Department of Environmental Protection's (DEP's) General Permit for the Discharge of Stormwater from Maine Department of Transportation (MaineDOT) and Maine Turnpike Authority (MTA) Municipal Separate Storm Sewer Systems (MS4s). Since MTA is subject to this MS4 permit and its six Minimum Control Measures (MCMs), Part IV(H)(1)(a)(ii) requires MTA to conduct Public Education and Outreach (MCM #1) efforts that encourage "employees and contractors to utilize BMPs that minimize stormwater pollution."

1.0 PERMIT LANGUAGE

 $Part\ IV(H)(1)$ of the MS4 Permit establishes three goals for $MCM\ #1$ - $Public\ Education\ and\ Outreach\ on\ Stormwater\ Impacts$. These include the following:

- 1. To raise awareness that polluted stormwater runoff is one of the most significant sources of water quality problems for Maine's waters;
- 2. To motivate staff and contractors to use Best Management Practices (BMPs) which reduce polluted stormwater runoff; and
- 3. To reduce polluted stormwater runoff as a result of increased awareness and utilization of BMPs.

In addition to continuing outreach efforts from the previous MS4 Permit (e.g., 5-year cycle)¹, MTA must satisfy these three goals by encouraging employees and contractors to use BMPs that minimize stormwater pollution as part of this Targeted BMP Adoption Plan. The progress and effectiveness of the Plan and associated efforts must then be evaluated and included in each annual report submitted to Maine DEP in accordance with $Part\ IV(J)$ of the MS4 Permit. As part of this evaluation, MTA must include an assessment of process indicators and impact indicators to evaluate efforts in meeting these goals. In the fifth annual report, the BMP Adoption Plan shall be reviewed fully and include analysis of the process and impact indicators.

2.0 COVERAGE AREA

This plan has been developed for implementation by MTA to meet MS4 Permit requirements for Urbanized Areas (UAs) within MTA's right-of-way (ROW).

Process indicators are related to the execution of the program, such as (1) percent or number of employees who attend a training session; or (2) completion of a particular action item (e.g., distributing posters to employee work place and/or contractor job site).

Impact indicators are related to the achievement of the goals and objectives of the program, such as (1) observable/measurable effects on behavior; or (2) percent or number of employees to describe sources of storm water pollution, proper spill response, or maintenance of a BMP.

¹ Public education and outreach efforts continued from the previous MS4 permit cycle include (but are not limited to) conducting annual stormwater pollution prevention/spill prevention control and countermeasures (SPCC) training to MTA maintenance and engineering employees, as well as other Measurable Goals that can be found in MTA's Stormwater Program Management Plan (SPMP) dated December 2008.

3.0 OBJECTIVE

The objective of this Targeted BMP Adoption Plan is to educate MTA's employees and contractors to use BMPs which reduce polluted stormwater runoff within UA.

The goal of the BMP Adoption Plan is to target BMPs in the MaineDOT BMP Manual to be utilized by employees and contractors that minimize stormwater pollution during construction activities, such as:

- (1) Installing silt fence prior to land disturbance; and
- (2) Ensuring that hay mulch is applied to soil at the end of each work day.

For MTA employees, focus will also be given to targeting BMPs relevant to transportation-related maintenance and good housekeeping activities, such as:

- (1) Regular sweeping of the mainline and peripheral facilities;
- (2) Annual catch basin clean-outs and sediment removal;
- (3) As needed ditch cleaning and repair;
- (4) On-going culvert maintenance and litter removal.

Contractors are also encouraged to utilize BMPs in accordance with standard construction contract language (e.g., Special Provision 656), as well as the MaineDOT BMP Manual.

4.0 MESSAGE

The message MTA will strive to impart on employees and contractors will relate to the impacts their activities have on stormwater runoff and the importance of BMPs. The message statement is:

"Implementing appropriate BMPs, as described in MaineDOT's Stormwater BMPs Manual, to all MTA related activities will help to minimize stormwater pollutants introduced to Maine's waterbodies."

4.1 OUTREACH TOOL(S) AND DISTRIBUTION

Targeted BMPs are included in the MaineDOT BMP Manual that is available at each MTA maintenance facility and referenced in standard contract language for contractors.

MTA has established or will rely on a number of outreach tools including the following:

- Existing stormwater training programs
 - For MTA employees, the internal training program will be evaluated annually (and updated, as needed) to include storm water topics in order to assess process and impact indicators; and
 - o For contractors, MTA continues to require an On-Site Responsible Party (OSRP) certified by DEP's NPS Training Program to be knowledgeable in erosion prevention and sedimentation control.
- Existing standard contract language
 - o Requires contractors to maintain a certified OSRP on-site who has authority to implement BMPs appropriately; and
 - O Specifies that contractors must utilize MaineDOT's BMP Manual, as well as other BMPs, to ensure construction site runoff is minimized.
- Stormwater information packages to raise awareness and encourage utilization of targeted BMPs
 - For MTA employees, information will be provided during annual and supplemental training sessions. Informational packages may also be provided via MTA's newsletters

- and memos posted to employee bulletin boards, as well as through employee meetings, including quarterly Environmental Health & Safety Committee meetings.
- o For contractors, MTA will continue to include contractual requirements provided in the standard contract language that establishes the anticipated expectations for performance and payment. This Target BMP Adoption Plan will also be provided to contractors prior to starting work (e.g., at Pre-Construction meetings).

4.2 TIMELINE AND IMPLEMENTATION SCHEDULE

The timeline and implementation schedule is determined by:

- The training schedule established each year for MTA employees; and
- The solicitation and project award notices each year.

MTA has established a representative training schedule for each year and is similar to the table below.

Date	Training Type
April	Erosion and Sediment Control (ESC) and Stormwater Pollution Prevention for Highway
	Maintenance Supervisors and Foremen
May - June	Spill Prevention Control and Countermeasures Plan (SPCC), Stormwater and Erosion
	and Sediment Control (ESC) for MTA maintenance and engineering employees.

In addition to the training sessions above, there may be supplemental training sessions as needed and/or new information posters about stormwater BMPs posted at MTA facilities. Newsletters including stormwater information may also be sent each year to employees.

For contractors, targeted BMPs are already being implemented in accordance with contract language and the MaineDOT BMP Manual. However, in Permit Year 2, MTA will begin distributing this Targeted BMP Adoption Plan to contractors.

4.3 RESPONSIBLE PARTY

The primary responsible party at MTA is the Environmental Services Coordinator, John Branscom. The Environmental Services Coordinator may also rely on the following:

- MTA Supervisors, Foremen, Inspectors and/or other personnel to inform MTA employees and contractors of the targeted BMPs to be utilized;
- An environmental consulting firm, such as GZA GeoEnvironmental, Inc, to ensure MTA's employees are trained as defined by the Plan; and
- A design engineering firm, such as HNTB, who administer construction contracts, to ensure the Plan is properly implemented by the contractors.

5.0 EVALUATION PROTOCOL

MTA training is documented with attendance sign-in sheets, exam scores, in-class workshops and evaluation forms. A training database is maintained with information gathered from employees during each training session.

<u>Process Indicators:</u> Assessment of the program execution will be included in the annual report. The following topics will be reported for MTA employees:

- 1. Number of employees that attended training; and
- 2. Average exam scores for attendees.

<u>Impact Indicators:</u> Gauging the achievement of goals and objectives of the program will be included in the annual report. These will be addressed by the following behavioral change questions:

1. Number or percentage of employees to identify the goals of MCM #1 correctly;

- 2. Number or percentage of employees to identify source(s) of storm water pollution;
- 3. Number or percentage of employees to identify and differentiate between structural and non-structural BMPs; and
- 4. Number or percentage of employees to demonstrate an applied knowledge of BMP-specific information.

Process and impact indicators for contractors will be tracked and evaluated based on daily and/or weekly inspections conducted on-site.

6.0 PLAN MODIFICATION

This Targeted BMP Adoption Plan may require modification if evaluation data shows that efforts are not effective. Should modifications be needed, the plan will be revised or a new plan will be developed.

Memorandum

Date: March 31, 2011

To: Highway Maintenance Foremen and Supervisors/ Sweeper Operators

From: Bill Wells

RE: Sweeping

As you know, it is time to begin the sweeping operations for 2011. The preparation of the machines for a season of sweeping should begin (March) or well in advance so when the weather conditions have improved allowing the sweeping operations to begin it will be without unnecessary delays due to needed maintenance or repairs. All repairs shall be under the direct supervision of the Equipment Maintenance Supervisor or his designee. The goal of this memo is to provide guidance in identifying location priorities for environmental and operational concerns. Let's keep in mind that the goal is to stay ahead of the line striping operations. The order in which your scheduling is outlined below should be followed closely. To be efficient at what we do it is the expectation of the Director of Highway Maintenance that all of the coordination for the sweeping operation shall be under the direct supervision of the Highway Supervisor or their Designee.

I. Impaired Stream Crossings/Service Areas

- A. The designated highway (Schwarze) sweeper will be evaluated for its readiness by sweeping the Kennebunk NB & SB Service Areas including Exit 25. Next to the water shed areas at **Goosefare Brook** (MM 35.0 to MM36.6) and then up to **Long Creek/Red Brook** (MM44 to MM 46.4) area. The scope is to sweep all paved areas and left shoulders along the median then the outside shoulders within the outlined areas.
- B. The designated vacuum/sweeper is not typically assigned to sweep the mainline but the focus should be on evaluating its performance first sweeping a Service Plaza near the home base of the equipment then extend out to the **Hart Brook w**ater shed area (MM 78.9 to MM 83.6) all paved areas and left shoulders along the median and the outside shoulders once this is completed the sweeper should be directed to move to the remaining plaza locations from Mile 58.6 working to the north.

II. Mainline and Interchanges

A. Upon the completion of the stream locations and the Kennebunk Service Plaza areas, the focus of the mechanical sweeper should be directed to the Spruce Creek in Kittery working north on the mainline of our highway working north section by section under the direction of the Highway Maintenance Supervisor or his designee until the sweeping is completed to MM 109 in Augusta.

B. Upon completion of the Hart Brook Water shed area and the Northerly Service Plaza Locations the sweeper/vac machine should focus on all interchange ramps beginning at Exit 7 York working north until all locations are completed.

III. Overhead Bridges

A. When the mainline and interchanges are done, the sweeping of all MTA owned overhead brides should be started. Any bridges with a large amount of pedestrian traffic, especially schoolchildren, can be worked in as time allows while doing the mainline and interchanges.

IV. Parking Lots

A. Parking lots are to be done next or when circumstances may prevent sweeping in other areas. It may be necessary to do some of the busier commuter lots on the weekend, such assignments need to be coordinated and discussed with the Director of Highway Maintenance in advance of setting such schedule.

Other Notes:

- I. Water Trucks should be set up as soon as possible using spare vehicles.
- II. Tractors with broom attachments should be hooked up and begin working as soon as possible.
- III. Any areas that require hand work should either be done prior to the arrival of the sweeper or at a later date. The sweepers should never be held up waiting for hand work to be done.
- IV. Again to be efficient in our operations it is of utmost importance that the supervisors and foremen work together coordinating the sweeping efforts between sections.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) NOTIFICATION FORM

Maine Turnpike Authority

This form shall be completed in the event that an <u>illicit discharge</u> is detected within the MTA right-of-way (ROW). This form is also applicable for identifying any <u>authorized non-stormwater discharges</u> identified within MTA ROW.

(Underlined terms are defined on Page 2 of this form)

INCIDENT DESCRIPTION					
Was an Illicit Discharge Observed?		Yes	N	Ю	
Was an Authorized Non-Stormwater Discharge Observed? (See list of authorized discharges on Page 2)		Yes		No	
If Yes, What Type of Authorized Non-Stormwater Discharge Was Observed?					
Location Where Observed (Mile Marker, Town):					
Outfall or Catch Basin ID:					
Date Inspected:					
Time Inspected:	am [] pm			
Weather conditions:					
Observations? (check all that apply)					
☐ Flow ☐ Floatables			Outfall or Cat Basin Damage		Atmosphere
Odor Deposits, Staini Algae/Baterial Growth	ing,		Turbidity		Storm Sewer
Color Abnormal Vege	etation		Other (specify	v):	
Detailed description of Observations:					
Possible Source:					
Corrective Action(s) Taken (Water Quality Te. Visual/Video Inspections, Smoke/Dye Testing):	esting,				

25426.30 January 2009

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) NOTIFICATION FORM

Maine Turnpike Authority

This form shall be completed in the event that an <u>illicit discharge</u> is detected within the MTA right-of-way (ROW). This form is also applicable for identifying any <u>authorized non-stormwater discharges</u> identified within MTA ROW.

(Underlined terms are defined on Page 2 of this form)

NOTIFICATIONS												
AGENCY	PHONE NUMBER	CONTACT NAME	DATE/ TIME									
Maine Department of Environmental Protection	1-800-452-1942 (207) 287-5404	David Ladd										
DOCUMENT INSTRUCTIONS GIVEN BY EACH AGENCY NOTIFIED: (attach sheets as necessary)												
REVIEW AND APPRO	VAL											
PREPARER OF IDDE NOT	FICATION REPORT:											
(printed name) (signature) (date)												
ENVIRONMENTAL SERVI	ENVIRONMENTAL SERVICES COORDINATOR:											
(printed name)	(si	gnature)	(date)									

An illicit discharge is defined as "any non-permitted discharge to a regulated MS4 or the waters of the State that does not consist entirely of stormwater or authorized non-stormwater discharges (see definition below).

An authorized non-stormwater discharge includes the one or more of following:

- Landscape irrigation
- Lawn watering runoff
- Diverted stream flows
- Rising ground waters
- Uncontaminated groundwater infiltration and/or pumped groundwater
- Uncontaminated flows from foundation drains, footing drains and/or crawl space pumps
- Air conditioning and air compressor condensate
- Irrigation water
- Flows from uncontaminated springs
- Flows from riparian habitats and wetlands
- Residual street wash water (where spills/leaks of toxic or hazardous materials have not occurred, unless all spill material has been removed and detergents are not used)
- Hydrant flushing and fire fighting activity runoff
- Water line flushing and discharges of potable water sources

25426.30 January 2009

QUARTERLY MOA REPORT FOR MTA MAINTEANCE FACILITIES

PREPARED BY:							PREPARED FOR:							Maintenance Facility				
QUARTER:	January to March					April to June July to September						October to December						
			OI	PERATIO	ON AND	MAINT	ENANC	E BMPs	ACCOM	PLISHE	D							
PROJECT DESCRIPTION	DATE	LOCATION	Repair/Redo Ditching	Culvert Repair/ Maintenance	Downspout Repair/ Maintenance	Catch Basin Repair/ Maintenance	Slope and/or ROW Repair/Mulching	Inspect Catchments	Catchments cleaned out (specify if pond, swale, etc.)	Sweeping on Mainline	Sweeping on Overheads	Sweeping Parking Lots, Interchanges, etc.	Litter Picking on Mainline	Litter Picking Parkling Lots, Interchanges, etc.	Other Misc. O&M	COMMENTS		
	(MM/DD/YY)	(Station or Mile Marker)	(Length x Width)	(Qty #)	(Qty #)	(Qty #)	(Length x Width)	(Qty. #)	(Qty. #)	(MM to MM)	(Qty. #)	(Specify)	(MM to MM)	(Specify)	(Describe)			
				-		-												
			N	EW CO	NSTRUC	CTION: 1	PERMA	NENT BN	MPS INS	TALLEI)		1					
PROJECT DESCRIPTION	DATE	LOCATION	Sediment Traps	Catch basins	Rip Rap Down spout	Culvert Inlet Protection (stone)	Culvert Outlet Protection (stone)	Slope Stabilization	Vegetated Buffer	Permanent Check Dam	Stone Ditch Protection	Outer Permeter Barkgrindings Barrier (#I.F.)	Other Misc. Structural BMP	COMME	NTS			
	(MM/DD/YY)	(Station or Mile Marker)	(Qty. #)	(Qty. #)	(Qty. #)	(Qty. #)	(Qty. #)	(Length x width)	(Length x width)	(Qty. #)	(Qty. #)	(Linear Feet)	(Describe)					

QUARTERLY MOA REPORT FOR MTA MAINTEANCE FACILITIES

PREPARED BY:			J. Sotir						PREPARED FOR:		John Br	anscom		Maintenance Facility	K	Kennebunk Maint.		
QUARTER:	X	January to March				April to June	•			July to September				October to December				
					OPERA	TION A	ND MA	INTENA	NCE BMP		MPLISH	ED						
PROJECT DESCRIPTION	DATE	LOCATION	Repair/Redo Ditching	Culvert Repair/ Maintenance	Downspout Repair/ Maintenance	Catch Basin Repair/ Maintenance	Slope and/or ROW Repair/Mulching	Inspect Catchments	Catchments cleaned out (specify if pond, swale, etc.)	Sweeping on Mainline	Sweeping on Overheads	Sweeping Parking Lots, Interchanges, etc.	Litter Picking on Mainline	Litter Picking Parkling Lots, Interchanges, etc.	Other Misc. O&M	COMMENTS		
	(MM/DD/YY)	(Station or Mile Marker)	(Length x Width)	(Qty#)	(Qty #)	(Qty#)	(Length x Width)	(Qty. #)	(Qty. #)	(MM to MM)	(Qty. #)	(Specify)	(MM to MM)	(Specify)	(Describe)			
Picking	02/18/2010 3/8,	Saco Spur Median & Shoulders												6 Miles on Spur				
Sink Hole	2/18/2010	MM 32NB	4' x 4'												Wash out	1/2 Yd of bank run gravel and 1/4 bale of hay		
Pick Median	3/11/2010	MM 20 to MM 37											20 to 37			Picked Median		
Pick Service Plaza's	3/8, 9/2010	Service Plaza's & Ramps at Exit 25												25.5		Pick Both Plaza's		
Biddeford Toll Plaza	3/10/2010	Exit 32												Bidd. Park n Ride & all the Ramps		Picking Litter		
Saco Toll	3/12/2010	Exit 36												Picked al the Ramps				
Picked Mainline	3/16/2010	Biddeford											MM32 to MM33					
Sweep Paved Median	03/18/2010 3/19/2010	MM37 to MM35.5 MM35.5 to MM34.6								10 yds Sand								
Sweep Paved Median	3/22/2010	MM34.6 to MM34								5yds Sand								
Cleaned out Bins	3/24/2010	Maint Yard											25.3			Empty Wood & Steel Bins		
Swept Sevice Plaza's	3/23/2010	Exit 25										3yd						
	ı		ı				T	T T		Г	T	ı						
PROJECT DESCRIPTION	DATE	LOCATION	Sediment Traps	Catch basins	Rip Rap Down spout	Culvert Inlet Protection (stone)	Culvert Outlet Protection (stone)	Slope Stabilization	Vegetated Buffer	Permanent Check Dam	Stone Ditch Protection	Outer Perimeter Barkgrindings Barrier (#f.F)	Other Misc. Structural BMP		COMMENTS			
	(MM/DD/YY)	(Station or Mile Marker)	(Qty. #)	(Qty. #)	(Qty. #)	(Qty. #)	(Qty. #)	(Length x width)	(Length x width)	(Qty. #)	(Qty. #)	(Linear Feet)	(Describe)					
					_													

Inspection Checklist for Construction Sites to satisfy requirements of Chapter 500 Stormwater Management Rules, Maine Construction General Permit (CGP) and Municipal Separate Storm Sewer System (MS4) Permit as they apply to Maine Turnpike Authority

Project Name:			=				
Project Location:			_				Complete this
Name of OSRP*: "OSRP" means on-site responsible part training program.	y that is knowledgable of erosion prevention and sedimentation control practices a	and has been certi	fied by the DEP's	NonPoint Source	(NPS) Training Ce	enter or a similar	Complete this column only if weekend work is conducted
DAILY INSPECTION LOG	DAY		Tuesday	Wednesday	Thursday	Friday	Sat/Sun
FOR THE WEEK OF:	DATE						
	INITIALS	'L					
A. GENERAL SECTION							
(1) Amount of On-site Pred	cipitation						
SOURCE OF INFORMATIO	•		•				
	rain gauge						
IMPORTANT:	If there was rain, were the following areas inspected by		1	1		T 37 N	V N
	disturbed and impervious areas?erosion control measures?	Y or N Y or N	Y or N Y or N	Y or N Y or N	Y or N Y or N	Y or N Y or N	Y or N Y or N
	material storage areas exposed to precipitation?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
	locations where vehicles enter and exit the site?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
	all deficiencies and corrective actions are noted below?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
(2) Air Temperature					l		
SOURCE OF INFORMATIO	N (circle one) on-site weather station website: thermometer					l	
B. EROSION CONTROL MI	EASURES						
(1) Are erosion prevention	and sedimentation controls						
.,	in place prior to land disturbance?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
	in place prior to embankment/excavation operations?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
If no please describe	working effectively? e failure and corrective actions in comments section below	Y or N Note #	Y or N Note #	Y or N Note #	Y or N Note #	Y or N Note #	Y or N Note #
ii iio, picase describe	c failure and corrective actions in comments section below	11010 #	Note #	14016 #	Note #	140te #	14016 #
	stalled downhill of disturbed slopes?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
If no, please describe	e failure and corrective actions in comments section below	Note #	Note #	Note #	Note #	Note #	Note #
(3) All newly disturbed ear	th is stabilized by applying mulch daily?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
(0,1 , ,	If yes, is mulch maintained on-site on a daily basis?		Y or N	Y or N	Y or N	Y or N	Y or N
If	no, what other daily method of stabilization is being used?						
(4) All disturbed ditabas as	re stabilized by the end of the workday?	Y or N or NA	Y or N or NA	Y or N or NA	Y or N or NA	Y or N or NA	Y or N or NA
	of stabilization is being used and maintained on-site daily?	T OF N OF NA	1 OI N OI NA	TOTNOTNA	TOTNOTNA	TOTNOTNA	T OF IN OF INA
			•	•		•	
(5) Permanent slope stabil	ization measures are applied	V N NA	Tv. 11 114	IV N NA	I.v. a. a.a.	I.v. N. NA	N/ N/ N/A
	within one week of last soil disturbance? If yes, identify area and date of last disturbance?	Y or N or NA Note #	Y or N or NA Note #	Y or N or NA Note #	Note #	Y or N or NA Note #	Y or N or NA Note #
	in yes, raching area and date of last distansarios:	11010 11	11010 11	11010 11	14010 #	14010 #	14010 11
	ntly under an approved period of suspended work?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
If yes, then has the da	ily inspection log been maintained current and up-to-date?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
C. HOUSEKEEPING							
(1) Are inspections conduc	cted on a weekly basis to ensure that sedimentation an			1	1	1	
	materials storage areas exposed to precipitation?	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
	locations where vehicle enter and exit the site?	Y or N Note #	Y or N Note #	Y or N Note #	Y or N Note #	Y or N	Y or N
	If no, explain reason in comments section below	NOIE #	NOIE #	NOIE #	NOIE #	Note #	Note #
(2) Are inspections condu	cted daily to ensure that discharges do not impact rec	eiving water	s?				
	-	Y or N	Y or N	Y or N	Y or N	Y or N	Y or N
COMMENTS.							
COMMENTS:							
NOTE #1							
NOTE #2							
NOTE #3 NOTE #4							
NO1E #4							

APPENDICES -- BASIC PERFORMANCE STANDARDS

Appendix A.	Erosion and sedimentation control	30
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APPENDIX A. Erosion and sedimentation control

This appendix applies to all projects.

A person who conducts, or causes to be conducted, an activity that involves filling, displacing or exposing soil or other earthen materials shall take measures to prevent unreasonable erosion of soil or sediment beyond the project site or into a protected natural resource as defined in 38 M.R.S.A. § 480-B. Sediment control measures must be in place before the activity begins. Measures must remain in place and functional until the site is permanently stabilized. Adequate and timely temporary and permanent stabilization measures must be taken.

NOTE: The site must be maintained to prevent unreasonable erosion and sedimentation. See 38 M.R.S.A § 420-C (in part). Other or additional standards than those provided in Appendix A may apply, under the Natural Resources Protection Act, to a project located in or adjacent to a protected natural resource.

NOTE: For guidance on erosion and sedimentation controls, consult "Maine Erosion and Sediment Control BMPs", Maine Department of Environmental Protection.

1. Pollution prevention. Minimize disturbed areas and protect natural downgradient buffer areas to the extent practicable.

The discharge may not result in erosion of any open drainage channels, swales, upland, or coastal or freshwater wetlands.

NOTE: Buffers improve water quality by helping to filter pollutants in run-off both during and after construction. Minimizing disturbed areas through phasing limits the amount of exposed soil on the site through retention of natural cover and by retiring areas as permanently stabilized. Less exposed soil results in fewer erosion controls to install and maintain. If work within an area is not anticipated to begin within two weeks time, consider leaving the area in its naturally existing cover.

- **2. Sediment barriers.** Prior to construction, properly install sediment barriers at the edge of any downgradient disturbed area and adjacent to any drainage channels within the disturbed area. Maintain the sediment barriers until the disturbed area is permanently stabilized.
- **3. Temporary stabilization.** Stabilize with mulch or other non-erodable cover any exposed soils that will not be worked for more than 7 days. Stabilize areas within 75 feet of a wetland or waterbody within 48 hours of the initial disturbance of the soil or prior to any storm event, whichever comes first.
- **4. Removal of temporary sediment control measures.** Remove any temporary sediment control measures, such as silt fence, within 30 days after permanent stabilization is attained. Remove any accumulated sediments and stabilize.

NOTE: It is recommended that silt fence be removed by cutting the fence materials at ground level to avoid additional soil disturbance.

- 5. Permanent stabilization. If the area will not be worked for more than one year or has been brought to final grade, then permanently stabilize the area within 7 days by planting vegetation, seeding, sod, or through the use of permanent mulch, or riprap, or road sub-base. If using vegetation for stabilization, select the proper vegetation for the light, soil and moisture conditions; amend areas of disturbed subsoils with topsoil, compost, or fertilizers; protect seeded areas with mulch or, if necessary, erosion control blankets; and schedule sodding, planting, and seeding to avoid die-off from summer drought and fall frosts. Newly seeded or sodded areas must be protected from vehicle traffic, excessive pedestrian traffic, and concentrated runoff until the vegetation is well-established. If necessary, areas must be seeded and mulched again if germination is sparse, plant coverage is spotty, or topsoil erosion is evident. One or more of the following may apply to a particular site.
 - (a) Seeded areas. For seeded areas, permanent stabilization means a 90% cover of healthy plants with no evidence of washing or rilling of the topsoil.
 - (b) Sodded areas. For sodded areas, permanent stabilization means the complete binding of the sod roots into the underlying soil with no slumping of the sod or die-off.
 - (c) Permanent Mulch. For mulched areas, permanent mulching means total coverage of the exposed area with an approved mulch material. Erosion control mix may be used as mulch for permanent stabilization according to the approved application rates and limitations.
 - (d) Riprap. For areas stabilized with riprap, permanent stabilization means that slopes stabilized with riprap have an appropriate backing of a well-graded gravel or approved geotextile to prevent soil movement from behind the riprap. Stone must be sized appropriately. It is recommended that angular stone be used.
 - (e) Agricultural use. For construction projects on land used for agricultural purposes (e.g., pipelines across crop land), permanent stabilization may be accomplished by returning the disturbed land to agricultural use.
 - (f) Paved areas. For paved areas, permanent stabilization means the placement of the compacted gravel subbase is completed.
 - (g) Ditches, channels, and swales. For open channels, permanent stabilization means the channel is stabilized with a 90% cover of healthy vegetation, with a well-graded riprap lining, or with another non-erosive lining such as concrete or asphalt pavement. There must be no evidence of slumping of the channel lining, undercutting of the channel banks, or down-cutting of the channel.
- **6. Winter construction.** "Winter construction" is construction activity performed during the period from November 1 through April 15. If disturbed areas are not stabilized with permanent measures by November 1 or new soil disturbance occurs after November 1, but before April 15, then these areas must be protected and runoff from them must be controlled by additional measures and restrictions.

NOTE: For guidance on winter construction standards, see the "Maine Erosion and Sediment Control BMPs", Maine Department of Environmental Protection.

7. Stormwater channels. Ditches, swales, and other open stormwater channels must be designed, constructed, and stabilized using measures that achieve long-term erosion control. Ditches, swales, and other open stormwater channels must be designed to handle, at a minimum, the expected volume

of run-off. Each channel should be constructed in sections so that the section's grading, shaping, and installation of the permanent lining can be completed the same day. If a channel's final grading or lining installation must be delayed, then diversion berms must be used to divert stormwater away from the channel, properly-spaced check dams must be installed in the channel to slow the water velocity, and a temporary lining installed along the channel to prevent scouring. Permanent stabilization of channels is addressed under Appendix A(5)(g) above.

- **8. Roads.** Gravel and paved roads must be designed and constructed with crowns or other measures, such as water bars, to ensure that stormwater is delivered immediately to adjacent stable ditches, vegetated buffer areas, catch basin inlets, or street gutters.
- **9.** Culverts. Culverts must be sized to avoid unintended flooding of upstream areas or frequent overtopping of roadways. Culvert inlets must be protected with appropriate materials for the expected entrance velocity, and protection must extend at least as high as the expected maximum elevation of storage behind the culvert. Culvert outlet design must incorporate measures, such as aprons or plunge pools, to prevent scour of the stream channel. The design must take account of tailwater depth.
- **10. Parking areas**. Parking areas must be constructed to ensure runoff is delivered to adjacent swales, catch basins, curb gutters, or buffer areas without eroding areas downslope. The parking area's subbase compaction and grading must be done to ensure runoff is evenly distributed to adjacent buffers or side slopes. Catch basins must be located and set to provide enough storage depth at the inlet to allow inflow of peak runoff rates without by-pass of runoff to other areas.
- 11. Additional requirements. Additional requirements may be applied on a site-specific basis.

APPENDIX B. Inspection and maintenance

This appendix applies to all projects. A project that is only required to meet basic standards (stormwater PBR) must meet the standards in Section 1. All other projects must meet standards in Sections 1 through 5.

See Appendix D(5) for additional maintenance requirements related to infiltration of stormwater.

1. **During construction.** The following standards must be met during construction.

- (a) Inspection and corrective action. Inspect disturbed and impervious areas, erosion control measures, materials storage areas that are exposed to precipitation, and locations where vehicles enter or exit the site. Inspect these areas at least once a week as well as before and after a storm event, and prior to completing permanent stabilization measures. A person with knowledge of erosion and stormwater control, including the standards and conditions in the permit, shall conduct the inspections.
- (b) Maintenance. Maintain all measures in effective operating condition until areas are permanently stabilized. If best management practices (BMPs) need to be maintained or modified, additional BMPs are necessary, or other corrective action is needed, implementation must be completed within 7 calendar days and prior to any storm event (rainfall).
- (c) Documentation. Keep a log (report) summarizing the inspections and any corrective action taken. The log must include the name(s) and qualifications of the person making the inspections, the date(s) of the inspections, and major observations about the operation and maintenance of erosion and sedimentation controls, materials storage areas, and vehicles access points to the parcel. Major observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and location(s) where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken.

The log must be made accessible to department staff and a copy must be provided upon request. The permittee shall retain a copy of the log for a period of at least three years from the completion of permanent stabilization.

2. Post-construction. The following standards must be met after construction.

- (a) Plan. Carry out an approved inspection and maintenance plan that is consistent with the minimum requirements of this section. The plan must address inspection and maintenance of the project's permanent erosion control measures and stormwater management system. This plan may be combined with the plan listed in Section 2(a) of this appendix. See Section 8(C)(2) for submission requirements.
- (b) Inspection and corrective action. All measures must be maintained in effective operating condition. A person with knowledge of erosion and stormwater control, including the standards and conditions in the permit, shall conduct the inspections. The following areas, facilities, and measures must be inspected and identified deficiencies must be corrected. Areas, facilities, and measures other than those listed below may also require inspection on a specific site. Inspection

or maintenance tasks other than those discussed below must be included in the maintenance plan developed for a specific site.

NOTE: Expanded and more-detailed descriptions for specific maintenance tasks may be found in the Maine DEP's "Stormwater Management for Maine: Best Management Practices."

- (i) Inspect vegetated areas, particularly slopes and embankments, early in the growing season or after heavy rains to identify active or potential erosion problems. Replant bare areas or areas with sparse growth. Where rill erosion is evident, armor the area with an appropriate lining or divert the erosive flows to on-site areas able to withstand the concentrated flows. See permanent stabilization standards in Appendix A(5).
- (ii) Inspect ditches, swales and other open stormwater channels in the spring, in late fall, and after heavy rains to remove any obstructions to flow, remove accumulated sediments and debris, to control vegetated growth that could obstruct flow, and to repair any erosion of the ditch lining. Vegetated ditches must be mowed at least annually or otherwise maintained to control the growth of woody vegetation and maintain flow capacity. Any woody vegetation growing through riprap linings must also be removed. Repair any slumping side slopes as soon as practicable. If the ditch has a riprap lining, replace riprap on areas where any underlying filter fabric or underdrain gravel is showing through the stone or where stones have dislodged. The channel must receive adequate routine maintenance to maintain capacity and prevent or correct any erosion of the channel's bottom or sideslopes.
- (iii) Inspect culverts in the spring, in late fall, and after heavy rains to remove any obstructions to flow; remove accumulated sediments and debris at the inlet, at the outlet, and within the conduit; and to repair any erosion damage at the culvert's inlet and outlet.
- (iv) Inspect and, if required, clean-out catch basins at least once a year, preferably in early spring. Clean-out must include the removal and legal disposal of any accumulated sediments and debris at the bottom of the basin, at inlet any grates, at any inflow channels to the basin, and at any pipes between basins. If the basin outlet is designed to trap floatable materials, then remove the floating debris and any floating oils (using oil-absorptive pads).
- (v) Inspect resource and treatment buffers at least once a year for evidence of erosion, concentrating flow, and encroachment by development. If flows are concentrating within a buffer, site grading, level spreaders, or ditch turn-outs must be used to ensure a more even distribution of flow into a buffer. Check down slope of all spreaders and turn-outs for erosion. If erosion is present, adjust or modify the spreader's or turnout's lip to ensure a better distribution of flow into a buffer. Clean-out any accumulation of sediment within the spreader bays or turn-out pools.

(c) Regular maintenance

(i) Clear accumulations of winter sand in parking lots and along roadways at least once a year, preferably in the spring. Accumulations on pavement may be removed by pavement sweeping. Accumulations of sand along road shoulders may be removed by grading excess sand to the pavement edge and removing it manually or by a front-end loader. Grading of gravel roads, or grading of the gravel shoulders of gravel or paved roads, must be routinely performed to ensure that stormwater drains immediately off the road surface to adjacent buffer areas or stable ditches, and is not impeded by accumulations of graded material on the

road shoulder or by excavation of false ditches in the shoulder. If water bars or open-top culverts are used to divert runoff from road surfaces, clean-out any sediments within or at the outlet of these structures to restore their function.

(ii) Manage each buffer's vegetation consistently with the requirements in any deed restrictions for the buffer. Wooded buffers must remain fully wooded and have no disturbance to the duff layer. Vegetation in non-wooded buffers may not be cut more than three times per year, and may not be cut shorter than six inches.

NOTE: Contact the department's Division of Watershed Management (Maine DEP) for assistance developing inspection and maintenance requirements for other drainage control and runoff treatment measures installed on the site. The maintenance needs for most measures may be found in the Maine DEP's "Stormwater Management for Maine: Best Management Practices."

(d) Documentation. Keep a log (report) summarizing inspections, maintenance, and any corrective actions taken. The log must include the date on which each inspection or maintenance task was performed, a description of the inspection findings or maintenance completed, and the name of the inspector or maintenance personnel performing the task. If a maintenance task requires the clean-out of any sediments or debris, indicate where the sediment and debris was disposed after removal.

The log must be made accessible to department staff and a copy provided to the department upon request. The permittee shall retain a copy of the log for a period of at least three years from the completion of permanent stabilization.

- **3. Maintenance contract.** Contract with a third-party or other qualified professional, as approved by the department, for the removal of accumulated sediments, oils, and debris within any proprietary devices and the replacement of any absorptive filters. The frequency of sediment clean-out and filter replacements must be consistent with the unit's storage capacity and the estimated pollutant load from the contributing drainage area. This clean-out frequency is usually established by the manufacturer of the proprietary system when sizing the device for the project.
- **4. Re-certification.** Submit a certification of the following to the department within three months of the expiration of each five-year interval from the date of issuance of the permit.
 - (a) Identification and repair of erosion problems. All areas of the project site have been inspected for areas of erosion, and appropriate steps have been taken to permanently stabilize these areas.
 - (b) Inspection and repair of stormwater control system. All aspects of the stormwater control system have been inspected for damage, wear, and malfunction, and appropriate steps have been taken to repair or replace the system, or portions of the system.
 - (c) Maintenance. The erosion and stormwater maintenance plan for the site is being implemented as written, or modifications to the plan have been submitted to and approved by the department, and the maintenance log is being maintained.

Municipalities with separate storm sewer systems regulated under the Maine Pollutant Discharge Elimination System (MPDES) Program may report on all regulated systems under their control as part of their required annual reporting in lieu of separate certification of each system. Municipalities not regulated by MPDES, but that are responsible for maintenance of permitted stormwater systems, may report on multiple stormwater systems in one report.

- 5. Duration of maintenance. Perform maintenance as described and required in the permit unless and until the system is formally accepted by the municipality or quasi-municipal district, or is placed under the jurisdiction of a legally created association that will be responsible for the maintenance of the system. If a municipality or quasi-municipal district chooses to accept a stormwater management system, or a component of a stormwater system, it must provide a letter to the department stating that it assumes responsibility for the system. The letter must specify the components of the system for which the municipality or district will assume responsibility, and that the municipality or district agrees to maintain those components of the system in compliance with department standards. Upon such assumption of responsibility, and approval by the department, the municipality, quasi-municipal district, or association becomes a co-permittee for this purpose only and must comply with all terms and conditions of the permit.
- **6.** Additional requirements. Additional requirements may be applied on a site-specific basis.

APPENDIX C. Housekeeping

These performance standards apply to all projects.

- 1. **Spill prevention.** Controls must be used to prevent pollutants from being discharged from materials on site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.
- 2. Groundwater protection. During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater may not be stored or handled in areas of the site draining to an infiltration area. An "infiltration area" is any area of the site that by design or as a result of soils, topography and other relevant factors accumulates runoff that infiltrates into the soil. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials.

See Appendix D for license by rule standards for infiltration.

NOTE: Lack of appropriate pollutant removal best management practices (BMPs) may result in violations of the groundwater quality standard established by 38 M.R.S.A. §465-C(1).

3. Fugitive sediment and dust. Actions must be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil may not be used for dust control.

NOTE: An example of the use of BMPs to control fugitive sediment and dust is as follows. Operations during wet months that experience tracking of mud off the site onto public roads should provide for sweeping of road areas at least once a week and prior to significant storm events. Where chronic mud tracking occurs, a stabilized construction entrance should be provided. Operations during dry months, that experience fugitive dust problems, should wet down the access roads once a week or more frequently as needed.

NOTE: Dewatering a stream without a permit from the department violates state water quality standards and the Natural Resources Protection Act.

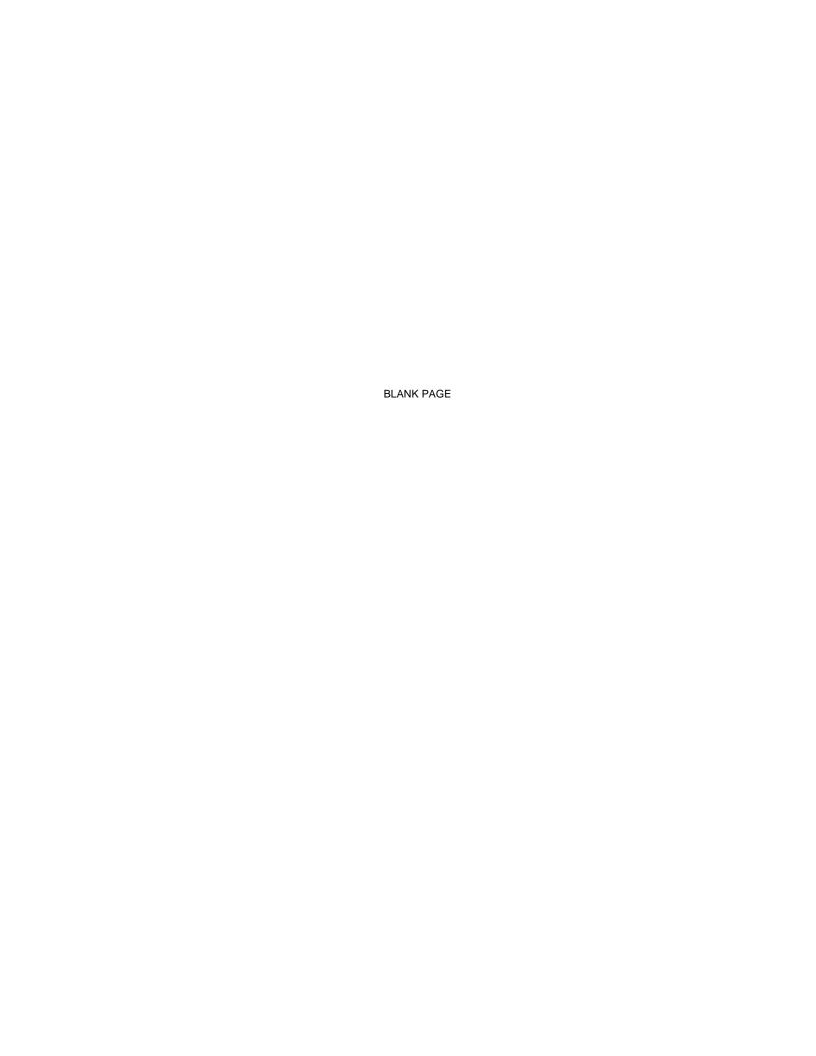
- **4. Debris and other materials.** Litter, construction debris, and chemicals exposed to stormwater must be prevented from becoming a pollutant source.
 - NOTE: To prevent these materials from becoming a source of pollutants, construction and post-construction activities related to a project may be required to comply with applicable provision of rules related to solid, universal, and hazardous waste, including, but not limited to, the Maine solid waste and hazardous waste management rules; Maine hazardous waste management rules; Maine oil conveyance and storage rules; and Maine pesticide requirements.
- **5. Trench or foundation de-watering.** Trench de-watering is the removal of water from trenches, foundations, coffer dams, ponds, and other areas within the construction area that retain water after excavation. In most cases the collected water is heavily silted and hinders correct and safe

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construction practices. The collected water must be removed from the ponded area, either through gravity or pumping, and must be spread through natural wooded buffers or removed to areas that are specifically designed to collect the maximum amount of sediment possible, like a cofferdam sedimentation basin. Avoid allowing the water to flow over disturbed areas of the site. Equivalent measures may be taken if approved by the department.

NOTE: For guidance on de-watering controls, consult the Maine Erosion and Sediment Control BMPs", Maine Department of Environmental Protection."

- **6. Non-stormwater discharges.** Identify and prevent contamination by non-stormwater discharges.
- 7. Additional requirements. Additional requirements may be applied on a site-specific basis.



POST-CONSTRUCTION PERMIT REQUIREMENTS AND INSPECTION/MAINTENANCE SCHEDULE FOR NEWLY INSTALLED BMPs Maine Tumpike Authority Kittery to Augusta, Maine

	INSPECTIONS F	OR CALENDAR YEAR:	2010					- s				>	>	₹ 5
						fion n	Inspector's Initials	mwate ement / ning a	00.	w up nance	of this tion? No)	ite aintenance ampleted th spector's itials	Ilow-up intenance inducted by nom & nen? itials/Date)	was work rded to onment es?
PROJECT DESCRIPTION/ APPLICABLE PERMIT NUM	TOWN/ IBER MILE MARKI	PERMANENT STORMWATER ER MANAGEMENT FACILITIES	MAINTENANCE REQUIREMENTS	FREQUENCY	FOLLOW UP ACTIONS FOR MAINTENANCE REQUIREMENTS	Date of Inspection	lnsp In	Is Stormwate Management Facility functioning a	Yes or	s follo mainte require	result of this inspection? (Yes or No)	Date Mainte Compl vith Inspec Initials	Follow Mainte Condu whom When?	When was paperwork forwarded to MTA's Environmental Services? (MM/DD/YYYY)
												1======		
Kennebunk Service I	Plazae Kennebunk	Ctormunter Filters	(1) Inspect and clean filters and forbays	Annually	Underdrain Soil Filter (USF) >>> Remove and properly dispose of sand, sediment, debris and floatable materials.	>>>>>>>>	>>>>>	В	В	NB	SB	1		
(Northbound & South	nbound) Exit 25	Stormwater Filters (Underdrained Soil		,	After annual cleaning of filter, USF must drain within 24 hours following a rain event.							Sump Socks Changed		
On April 5, 2010 we replace from the parking lot to the Se		filters = USF)	(2) Inspect entire feature for debris or	Following significant rain	Remove and properly dispose of sand, sediment, debris and floatable materials.	January February	D. M. D. M.		Yes Yes	No No	No No	1/29/2010 DM 2/5/2010 DM		
on the So. Bound side Service			clogging	event	If water ponds for more than 72 hours, rework or replace top several inches of filter to	March	D. M.		Yes	No	No No	03/03/2010 DM		3/29/2010
					reestablish filtration quality of soil to meet original construction specs.	April	D. M.		Yes	No	No	04/14/2010 DM		4/16/2010
						May	D. M.		Yes	No	No	5/27/2010		1/24/2011
						June July	D. M. D. M		Yes Yes	No No	No No	6/8/2010 7/6/2010		1/24/2011
						August	D. M.		Yes	No	No	8/10/2010		1/24/2011
						September	D. M.		Yes	No	No	9/2/2010		1/24/2011
						October	D. M.		Yes	No	No	10/7/2010		1/24/2011
						November December	D. M. D. M.		Yes	No	No	11/10/2010		1/24/2011
			(3) Mow grass vegetation, including	Semi-annually	Wetland grass in filter bed should be mowed no more than 2x/season to maintain height		D. W.	Yes	Yes	No	No	12/6/2010		1/24/2011
			wetland grasses, in filter bed and along	(maximum)	less than 12 inches.	First date:								
			detention area side slopes		Harvesting and pruning excessive growth, including weeding to control unwanted or invasive plant species, will be performed on a periodic basis, if required	Second date:								
		Pavement areas	(4) Inspect paved areas for debris and	As part of		January	D. M.	Yes	Yes	No	No	1/29/2010 DM		
		r avement areas	sediments	routine maintenance	other areas subject to rainfall/runoff.	February	D. M.	Yes	Yes	No	No	2/5/2010 DM		
				(MONTHLY)		March	D. M.		Yes	No	No	03/03/2010 DM		3/29/2010
						April May	D. M. D. M.		Yes Yes	No No	No No	04/14/2010 DM 5/27/2010	MTA JS	4/16/2010 1/24/2011
						June	D. M.		Yes	No	No	6/8/2010		1/24/2011
						July	D. M.		Yes	No	No	7/6/2010		1/24/2011
						August	D. M.		Yes	No	No	8/10/2010		1/24/2011
						September October	D. M. D. M.		Yes	No No	No No	9/2/2010		1/24/2011
						November	D. M.		Yes Yes	No No	No No	10/7/2010 11/10/2010		1/24/2011 1/24/2011
						December	D. M.		Yes	No	No	12/6/2010		1/24/2011
		Catch Basins	(5) Inspect and clean catch basins	Annually	Remove and properly dispose of sand, sediment, debris and floatable materials.			Yes	Yes	No	No	1/29/2010 DM		
		Open pipes and	(6) Inspect drainage structures and other		Remove and properly dispose of sand, sediment, debris, etc.	January			ow Cov.	No	No	1/29/2010 DM		
		ditches	BMPs, including closed drainage systems and open channels/ditches for debris.	maintenance	NOTE: Accumulated sediment and debris shall be removed and disposed well before	February March	D. M. D. M.		Yes Yes	No No	No No	2/5/2010 DM 03/03/2010 DM		3/29/2010
		(e.g., stormwater	erosion and accumulated sediments	(MONTHLY)	accumulation adversely impacts the performance of the drainage system and stormwater filters. Immediately repair any element(s) of the drainage system or stormwater feature that has been damaged, eroded or otherwise not functioning as intended.	April	D. M.		Yes	No	No	04/14/2010 DM		4/16/2010
		convevance)	design and accumulated scurrents			May	D. M.		Yes	No	No	5/27/2010		1/24/2011
						June	D. M.		Yes	No	No	6/8/2010		1/24/2011
						July	D. M. D. M		Yes Yes	No No	No No	7/6/2010		1/24/2011 1/24/2011
						August September	D. M.		Yes	No	No	8/10/2010 9/2/2010		1/24/2011
						October	D. M.		Yes	No	No	10/7/2010		1/24/2011
						November	D. M.		Yes	No	No	11/10/2010		1/24/2011
		Oleman and	(7) Inspect slopes and embankments for	As part of	Immediately repair any element(s) of the drainage system or stormwater feature that has	December January	D. M.		Yes ow Cov.	No No	No No	12/6/2010 1/29/2010 DM		1/24/2011
		Slopes and	erosion and accumulated sediments	routine	been damaged, eroded or otherwise not functioning as intended.	February	D. M.		Yes	No	No No	1/29/2010 DM 2/5/2010 DM		
		embankments	and documented counterto	maintenance (MONTHLY)	Sediment removal, earth repair and/or reseeding shall be performed immediately upon	March	D. M.		Yes	No	No	03/03/2010 DM		3/29/2010
				(WONTHLY)	identification of issue and the site restored to a stable condition.	April	D. M.	Yes	Yes	No	No	04/14/2010 DM		4/16/2010
						May	D. M. D. M.		Yes	No	No	5/27/2010		1/24/2011
						June July	D. M.		Yes	No No	No No	6/8/2010 7/6/2010		1/24/2011
						August	D. M.		Yes	No	No	8/10/2010		1/24/2011
						September	D. M.		Yes	No	No	9/2/2010		1/24/2011
						October	D. M.		Yes	No	No	10/7/2010		1/24/2011
						November December	D. M. D. M.		Yes Yes	No No	No No	11/10/2010 12/6/2010		1/24/2011 1/24/2011
		All areas	(8) Inspect site conditions and monitor fo	r As part of	Take appropriate corrective actions to maintain the system in good working condition,	January			ow Cov.	No	No	1/29/2010		WE-9/2011
		, arous	erosion and accumulated sediments	routine maintenance	where/when a problem is noted.	February	D. M.	Yes	Yes	No	No	2/5/2010 DM		
				(MONTHLY)	Any areas or systems that are identified as having more frequent maintenance	March	D. M.		Yes	No	No	03/03/2010 DM		3/29/2010
					requirements than normal shall be monitored and inspected more frequently	April Mav	D. M. D. M.		Yes	No No	No No	04/14/2010 DM 5/27/2010	 	4/16/2010 1/24/2011
						June	D. M.		Yes	No	No No	6/8/2010		1/24/2011
						July	D. M.		Yes	No	No	7/6/2010	İ	1/24/2011
						August	D. M.		Yes	No	No	8/10/2010		1/24/2011
						September October	D. M. D. M.		Yes	No No	No No	9/2/2010 10/7/2010		1/24/2011 1/24/2011
						November	D. M.		Yes	No No	No No	11/10/2010		1/24/2011
							D. M.							