6/13/07

Municipality/Organization: Town of Monson

EPA NPDES Permit Number: MA041015

MaDEP Transmittal Number: W- 040562

Annual Report Number & Reporting Period: **No. 4: March 06-March 07**

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Gretchen Neggers Title: Town Administrator

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Certification:

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 gather and evaluate 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.

Signature:

Printed Name: EDWARD S. HARRISON

Title: Board of Selectmen - Chairman

Date: June 11, 2007

Part II. Self-Assessment

See enclosed report entitled "National Pollutant Discharge Elimination System (NPDES) Phase II Stormwater Management Plan 2007 Status Report, Monson, Massachusetts" dated May 2007.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
1	Create a Stormwater Program	Department of Public Works Planning Board Conservation Commission Board of Health Board of Selectmen	Monson will present to the public at a public meeting Monson's Comprehensive Stormwater Management Program.	The Board of Selectmen has publicly reviewed efforts that contribute to water resource protection, including announcing hazardous waste collection days, reviewing draft Open Space Plan, authorizing funding for Monson High School Environmental Service Team, and recognizing volunteers and their efforts in protecting Monson's water resources. Selectboard meetings are televised on local access cable and minutes of these meetings can be viewed at www.monson-ma.gov The Planning Board held hearings on the stormwater bylaws on 2/21/06, 3/21/06, 5/16/06, and 7/18/06. Monson's NPDES Phase II Stormwater Program was presented to the Town Administrator on March 8, 2007.	Monson will continue to publicly review the ongoing implementation of Monson's Comprehensive Stormwater Management Program and local activities that support protection of water quality.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
2	Create a Stormwater Program	Board of Selectmen Department of Public Works	Monson will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of Monson's Comprehensive Stormwater Management Program, including public education and outreach.	Monson continued to identify funding opportunities to support its protection of local bodies of water.	The Town of Monson will continue to monitor funding sources for applicability.
3	Address specific groups	Board of Selectmen Department of Public Works	Distribute EPA and other relevant educational brochures to targeted audiences. Distribution points include Town Hall, Library, and Transfer Station.	The Town is in receipt of EPA educational materials on disc for easy printing and distribution. Stormwater materials are made available at town buildings. The Town has developed a Soure Water Protection Plan and is posted on the Town's website.	The Town will continue to identify opportunities to educate resident and students on water quality protection.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
4	Target groups likely to impact storm water	Board of Selectmen Department of Public Works Board of Health	Brochures targeting specific audiences and activities will be available. These target groups include homeowner and lawn maintenance activities, disposal of household waste, and pet maintenance.	Monson Water Department's 2006 Consumer Confidence Report was mailed to all water users and is available on Monson's website www.monson-ma.gov Links to Household Hazardous Waste is available on Monson's website www.monson-ma.gov The Town's trash/recycling schedule is available at town buildings.	The Town will continue to identify opportunities to educate resident and students on water quality protection.
5	Identify alternative information sources	Board of Selectmen MIS Department	Monson will post links to stormwater BMPs and other water quality education resources, including EPA and DEP on its website: http://www.monson-ma.gov/	The Town of Monson has posted the following links on its website: the EPA non-point source pollution website, http://www.epa.gov/owow/nps/ , BFI Trash/Recycling Schedule, "Bulky Day" press release, and regulations for floor drains.	The Town of Monson will continue to seek appropriate links for stormwater education.
6	Identify alternative information sources	Board of Selectmen MIS Department	Monson will also post links on its website to the Chicopee River Watershed Association @ www.chicopeeriver.org, and the Connecticut River Watershed Council @ www.ctriver.org.	The Town of Monson has posted these links on its website. Also posted on website: EPA – Nonpoint Source Pollution, and 2006 Consumer Confidence Report.	The Town of Monson will continue to seek appropriate links for stormwater information and education.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
7	Utilize local public access channel	Board of Selectmen	Public meeting notice and the meeting reviewing Monson's Comprehensive Stormwater Management Program will be posted on Monson's local access channel.	The Planning Board held hearings on the stormwater bylaws on 2/21/06, 3/21/06, 5/16/06, and 7/18/06. Bylaw was approved at 11/27/06 town meeting. Hazardous waste collection day and Bulky Day information was announced on local cable access. The Board of Selectmen has publicly reviewed efforts that contribute to water resource protection, including announcing hazardous waste collection days, reviewing draft Open Space Plan, authorizing funding for Monson High School Environmental Service Team, and recognizing volunteers and their efforts in protecting Monson's water resources. Selectboard meetings are televised on local access cable. Monson's Source Water Protection Plan PowerPoint presentation has been televised on the local public access channel several times.	Monson will review opportunities to present their stormwater management program on public access.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
8	Develop, conduct and document educational programs	Department of Public Works Liaison	The Town of Monson will appoint a liaison to the Connecticut River Watershed Association and the Chicopee River Watershed Council to disseminate information to the Town on programs and activities.	Monson has posted links on its website to the Chicopee River Watershed Association @ www.chicopeeriver.org, and the Connecticut River Watershed Council @ www.ctriver.org. Monson High School students have organized an Environmental Service Team and participates in Envirothon competitions. Teams compete within their state on knowledge of forestry, water, soils, and wildlife. Winners compete against other teams from throughout North America.	The Town of Monson will continue to identify and schedule forums that promote resource protection.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
9	Promote Household Waste Recycling	Department of Public Works Board of Health	The Town of Monson will work with the Town's contracted waste hauler and the Board of Health to continue to sponsor Hazardous Waste Collection Days.	Waste hauler (BFI) collects hazardous waste twice annually. The Board of Health distributes event brochures, schedules are posted on the Town's website, and the Selectboard publicly announces on local access cable. The Town of Monson has brochures available detailing trash and recycling guidelines. Bulky Waste Day is scheduled two times per year. One was held on May 6, 2006 and the other held on October 7, 2006. A Town-wide clean-up was held in April 2006, which resulted in two, 40 yard dumpsters being filled. Hazardous Waste Collection Day was held in June 2006.	The Hazardous Waste Collection Day and Bulk Item Disposal Day events are expected to continue.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
10	Storm drain stenciling	Department of Public Works	Monson will work with local Scout groups to develop a stenciling program. Stenciling will target Monson's subwatersheds.	Monson has reconsidered the effectiveness of storm drain stenciling. The inability of the stenciling to stand up through winter maintenance has caused the Town to focus on other activities targeted towards local youth.	The Town of Monson will to identify opportunities to assist local youth groups.
11	Community clean-ups	Department of Public Works Monson Conservation Commission	Town of Monson will encourage local stream team cleanups with local residents and area Scout groups. The Paradise Lake, Stagecoach Lake, and Pulpit Rock Associations perform cleanups around their respective waterbodies. Town will provide solicitation of sponsors and notice of events on local access channel and website.	The Monson Tourism Association continues to hold its annual community wide cleanup on April 28, 2006. As a result of the clean-up, two, 40 yard dumpsters were filled. Bags and gloves are provided to volunteers by the Town. T shirts are also available.	A community-wide cleanup sponsored by the Monson Tourism Association is scheduled annually.
12	Community clean-ups	Department of Public Works	Town will provide trucks and other material to support cleanup efforts and disposal of materials.	Monson DPW provided trash pick-up for Annual Cleanup. DPW performs roadside clean-ups on a regular basis.	The DPW will pick-up roadside bags from the clean up event. The DPW supports all organized cleanup and waste pickup efforts. The DPW will continue to perform clean-ups on a regular basis.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
13	Inventory and mapping of storm drain system	Board of Selectmen Department of Public Works	Monson will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of Monson's Comprehensive Stormwater Management Program, including public education and outreach.	The Town of Monson is relying on local budgets to fund Monson's IDDE program.	The Town of Monson will continue to monitor funding sources for applicability.
14	Mapping and identification of outfalls and receiving waters	Department of Public Works Board of Assessors	Monson will develop and implement a plan to map all outfalls and receiving bodies of water, contingent on Town Meeting approval of funding.	The Town of Monson contracted with a consultant to GPS locate outfalls in the regulated area. Monson also contracted dry weather inspections to be performed at regulated outfalls. The following problems were identified: 9 outfalls were found to have dry weather flow, 9 outfalls had sediments, 4 outfalls had stains, 1 outfall was found with sheen, and 12 outfalls were identified to need follow-up inspection or repair.	The Town of Monson will contract with follow-up on problem outfalls to identify sources of illicit discharges.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
15	Identification/ description of problem areas	Department of Public Works	Monson will develop and implement an Illicit Discharge Detection and Elimination (IDDE) plan, contingent on Town Meeting approval of funding.	Through work performed by the consultant, problem outfalls were identified. Of these problem outfalls there exists the possibility of there may be illicit discharges in the storm sewer system.	The Town will follow-up and re-inspect the problem outfalls to determine the severity of the problems. Monson will work with the consultant to develop and implement a plan to identify and remove confirmed illicit discharges.
16	Enforcement procedures addressing illicit discharges	Planning Board Town Counsel Board of Health	Monson will review whether local authority is appropriate and able to respond to potential illicit discharges. New by-laws, if necessary, will be proposed to Town Meeting.	The Monson Board of Health has approved the use of "Model Floor Drain Regulation." This regulation is posted on Monson website www.monson-ma.gov The Town of Monson passed an Illicit Discharge bylaw at the 11/27/2006 town meeting.	The Town of Monson will continue to review existing bylaws for necessary changes.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
17	Public information program regarding hazardous wastes and dumping	Department of Public Works Board of Health	Monson will provide educational brochures to residents promoting proper disposal of household hazardous wastes and conditions for regional collections.	The Board of Health office has brochures for homeowners regarding credit for repairing or replacing a failed cesspool or septic system. Waste hauler (BFI) collects hazardous waste twice annually. The Board of Health distributes event brochures, schedules are posted on the Town's website, and the Selectboard publicly announces on local access cable. Hazardous Waste Collection Day was held in June 2006. The Town of Monson has brochures available detailing trash and recycling guidelines. Bulky Waste Day is scheduled two times per year. One was held on May 6, 2006 and the other held on October 7, 2006. A Town-wide clean-up was held in April 2006, which resulted in two, 40 yard dumpsters being filled.	Brochures will continue to be made available and information posted on the Town's website.
18	Initiation of recycling programs	Department of Public Works Board of Health	Monson will apply for funding assistance from DEP's Recycling Grant Program for assistance in public education and the purchase of recycling materials.	The Town of Monson did not receive funding from this year DEP's Recycling Grant Program.	The Town of Monson will apply for funding from DEP's Recycling Grant Program if needed.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
19	Watershed assessments and studies	Department of Public Works Conservation Commission Board of Health	Monson will identify opportunities for funding assistance from DEP's 604(b) and 319 grant programs and the Department of environmental Management's Lakes and Ponds Grant Program to support watershed assessment and implementation activities. Tasks can include design and installation of stormwater BMPs and public outreach including storm drain stenciling.	The Town of Monson has not identified any appropriate funding sources.	The Town of Monson will monitor funding sources for applicability.
20	Watershed assessments and studies	Department of Public Works	The Town of Monson will apply for funding assistance from DEP's Source Water Protection Program for grant assistance to develop wellhead protection plans and stormwater management plans within Zones II in Monson.	The Monson Sewer and Water Department worked with Massachusetts Rural Water Association to develop Monson's Source Water Protection Plan. The Plan was publicly reviewed and can be accessed on Monson's website. The Town of Monson took action to further protect Monson's Zone I. The Monson Sewer and Water Department secured 2007 MassDEP DWSRF funding for public water supply improvements, including a new storage tank to increase capacity, upgrades to the Bethany Road Well, and a water main replacement on Fern Hill Road.	The Town of Monson will continue to identify opportunities to protect local drinking water supplies.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
21	Bylaw: Storm water management regulations for construction sites 1 acre or larger	Planning Board Conservation Commission Town Counsel Board of Health Zoning Board of Appeals	Monson will review model by-law developed by DEP in consultation with the Attorney General's Office.	The Planning Board has drafted language and publicly presented Monson's stormwater by-law. Proposed by-law is posted on Monson's website www.monson-ma.gov The bylaw was adopted at the 11/27/2006 town meeting.	The Planning Board will continue to review bylaws for revisions as needed and new bylaw language will be developed if warranted.

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
22	Bylaw: Require post-construction runoff controls	Planning Board Conservation Commission Town Counsel Board of Health Zoning Board of Appeals	Monson will review model by-law developed by DEP in consultation with the Attorney General's Office.	The Planning Board has drafted language and publicly presented Monson's stormwater by-law. Proposed by-law is posted on Monson's website www.monson-ma.gov The bylaw was adopted at the 11/27/2006 town meeting.	The Planning Board will continue to review bylaws for revisions as needed and new bylaw language will be developed if warranted.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
23	Develop a municipal Operations and Maintenance Plan	Department of Public Works	Using regulations and recommendations from DEP and EPA, Monson will develop and update an operations and maintenance plan to include proper disposal of street sweepings, catchbasin cleanout, snow disposal, roadway de-icing procedures, vehicle washing, and outside storage of materials.	The program of cleaning catchbasins within the Town has been impacted as the result of budget limitations. Monson Highway Department employees continue to manually cleaning catchbasins. During cleanout they are noting condition and suspected problems for additional assessment. Street sweeping is performed yearly, with emphasis within the urbanized area.	The Town of Monson refers to the Berkshire Regional Planning Council (BRPC) dirt road manual for maintenance of the 10 miles of dirt roads in Town. The Town will develop a budget proposal to fund catch basin clean-outs. The Town of Monson will continue the street sweeping program and manual cleanout of catchbasins.
24	Develop a municipal Operations and Maintenance Plan	Department of Public Works	Monson will implement a formal inspection program, including maintenance logs and scheduling, for catchbasin cleaning, repairs, and new installation.	The DPW keeps a daily log of all operations.	Monson's daily log will provide additional information in support of investigating problem outfalls identified during dry weather inspections.
25	Develop and implement training programs for municipal employees	Department of Public Works	Monson will send a minimum of 3 public works employees annually to training seminars sponsored by MassHighway, BayState Roads, and other relevant agencies or vendors.	In-house education is provided to all employees regarding yard maintenance. Specifically targeted are maintenance activities regarding unloading, loading, and storage of winter salt and sand.	The Town of Monson expects to continue to support the training of public employees on stormwater protection.
26	Review storm drainage infrastructure needs	Department of Public Works	Monson will incorporate storm drain infrastructure review in Monson's Chapter 90 project utilizations.	The reconstruction of Hospital Road includes stormwater and drainage improvements.	DPW will continue to review stormwater management opportunities within proposed road improvements projects.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)- *NOT APPLICABLE*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	**Progress on Goal(s) – Permit Year 4** (Reliance on non-municipal partners indicated, if any)	**Planned Activities – Permit Year 5**
				No TMDLs in the Town of Monson	

7a. Additions

7b. WLA Assessment

STATUS REPORT

A. PURPOSE

In accordance with our stormwater services agreement, Earth Tech is pleased to submit to the Town of Monson a status report for the Town's work to date in complying with their NPDES Phase II Stormwater permit.

Monson's NPDES general permit for stormwater discharges expires in March 2008. At that time, Monson must have addressed the measurable goals identified in the Notice of Intent (NOI), including the development of an Illicit Discharge Detection and Elimination (IDDE) Program. The Environmental Protection Agency requires that an IDDE program contain the following:

1. Develop a storm sewer map showing the location of all outfalls, and the names and locations of all waters of the U.S. that receive discharges from those outfalls;
2. Prohibit through ordinance, or other regulatory mechanism, illicit discharges into the separate storm sewer system and implement appropriate enforcement procedures;
3. Develop and implement a plan to detect and address illicit discharges, including illegal dumping, into the storm sewer system; and
4. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

Based on the FY07 scope of work which assists the Town of Monson in addressing elements of their NOI, the following items are included as part of this status report:

- Map noting the location of all dry weather inspected outfalls and receiving bodies of water within Monson's storm sewer system along Route 32 within the Urbanized Area (Task 1 and 2);
- Map noting the location of outfalls which may potentially be a source of illicit discharge (Tasks 1 and 2);
- Recommended program for identifying and removing current or future sources of illicit or illegal discharges to the storm sewer system (Task 3);
- NPDES Phase II Annual Report for March '06 to March '07 (Task 4); and
- Stormwater Final Report (Task 4).

B. STORM SEWER SYSTEM INVENTORY

In the fall of 2006, Earth Tech began mapping the Town's storm sewer outfalls within Monson's storm sewer system within the Urbanized Area along Route 32 using sub-meter grade GPS data collection equipment. Outfalls were located, GPS coordinates gathered, photographed, and visually inspected with the following information (attribute data) collected for each outfall:

- Pipe size,
- Pipe material,
- Presence of sediments,
- Presence of stains,
- Presence of sheens,

- Presence of vegetative growth, and
- Structural condition.

This mapping effort was conducted during dry weather; hence allowing concurrent mapping and dry weather inspections. Dry weather is typically considered to be at least 48 hours after a rainfall event. During dry weather inspections, the presence of the following additional data was noted for each outfall found to have dry weather flow:

- Odor,
- Turbidity,
- Color, and
- Floatable Matter.

Within Monson's Urbanized Area along Route 32, **69** outfalls and **12** culverts were located, inspected and mapped. A summary of inspection findings for outfalls and culverts is listed below:

Outfalls

- Nine (9) outfalls were found to have dry weather flow,
- Nine (9) outfalls were found to have sediment,
- Four (4) outfalls were found to have stains,
- One (1) outfall was found to have sheen,
- No (0) outfalls were found to have floatables,
- No (0) outfalls were found to have vegetated growth, and
- Twelve (12) outfalls need follow-up due to structural damage, heavy flow, standing water or sediment that is preventing the outfall from functioning as designed or prevented a full inspection of the outfall.

Culverts

- One (1) culvert was found to have sediment,
- No (0) culverts were found to have stains,
- No (0) culverts were found to have sheen,
- No (0) culverts were found to have floatables,
- No (0) culverts were found to have vegetated growth, and
- Two (2) culverts need follow-up due to heavy flow or standing water that prevented a full inspection of the culvert.

Appendix A provides an inventory of the attribute data collected and inspection summary for the Town's storm sewer system along Route 32. Maps showing all the storm sewer system outfalls and culverts mapped within Monson's Urbanized Area along Route 32 are provided in Appendix B. The data collected for each storm sewer system structure and photographs have been provided in a separate report entitled "National Pollutant Discharge Elimination System (NPDES) Phase II Stormwater Management Plan, Dry Weather Inspection Photograph, Attribute Data and Location Maps, Outfalls and Culverts", dated February 2007.

All of the data gathered and mapping developed as part of this scope of work is provided in electronic form (refer to Appendix C for the CD).

C. LOCATION OF INSPECTED OUTFALLS, RECEIVING WATER BODIES AND FLOWING OUTFALLS

As part of the Town's NPDES Phase II Stormwater Management Program, a Town-wide map was created showing the following environmentally significant areas within the Town of Monson:

- Approved Zone II Wellhead Protection Area,
- 100-year Flood Plain
- Interim Wellhead Protection Area,
- Natural Heritage and Endangered Species Program (NHESP) Certified Vernal Pool,
- NHESP Priority Habitats of Rare Species,
- NHESP Estimated Habitats of Rare Wildlife, and
- Outstanding Resources Waters (ORW) Watershed.

Mapping the above information enables the Town to readily identify those outfalls whose discharges have the potential to impact drinking water protection areas, locations of critical habitat, etc. The Areas of Concern map is provided in Appendix B of this Status Report.

Based on a review of the Areas of Concern map, the following outfalls are important to note as they are located within these environmentally significant areas, within drinking water protection areas, etc.:

Outfalls Located Within the Approved Zone II Wellhead Protection Area:

- Nos. 01, 02, 03, 04, 05, 06, 07, 09, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 22, 23, 25, 26, 27, 29, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 54, 55, 57, 59, 60, 61, 62, 63, 64, 65, 67, 76, 77, 78, 79, 80 and 81.

Outfalls Located Within the 100 Year Floodplain

- Nos. 06, 13, 15, 20, 22, 29, 55, 60, 64 and 67.

Outfalls Located Within the Interim Wellhead Protection Area

- None

Outfalls Located Within 100 feet of the NHESP Certified Vernal Pool (2006 data)

- None

Outfalls Located Within the NHESP Priority Habitats of Rare Species (2006 data)

- Nos. 01, 02, 04, 09, 17, 18, 20, 47, 57, 59, 60, 61, 62, 63, 64, 65, 66, 77 and 78.

Outfalls Located Within the NHESP Estimated Habitats of Rare Wildlife (2006 data)

- Nos. 01, 02, 04, 09, 17, 18, 20, 47, 57, 59, 60, 61, 62, 63, 64, 65, 66, 77 and 78.

Outfalls Located Within the Outstanding Resource Waters Watershed

- None

In addition, the location of dry weather flowing outfalls is important to note. No stormwater outfalls should be flowing during a dry weather inspection, which is defined as 48 or more hours following a rainfall event. The presence of flow during dry weather

inspections indicates that there is a potential illicit discharge to the stormwater outfall or to the storm sewer system components connected to the outfall. Therefore, the location of the dry weather flowing outfalls in relation to the environmentally significant areas, within drinking water protection areas, etc. is an important consideration in setting priorities for identifying and removing potential sources of illicit discharges:

Outfalls Located Within the Approved Zone II Wellhead Protection Area:
- Nos. 04, 07, 27, 50, 64 and 80.

Outfalls Located Within the 100 Year Floodplain
- No. 64.

Outfalls Located Within the Interim Wellhead Protection Area
- None

Outfalls Located Within 100 feet of the NHESP Certified Vernal Pool (2006 data)
- None

Outfalls Located Within the NHESP Priority Habitats of Rare Species (2006 data)
- Nos. 04 and 64.

Outfalls Located Within the NHESP Estimated Habitats of Rare Wildlife (2006 data)
- Nos. 04 and 64.

Outfalls Located Within the Outstanding Resource Waters Watershed
- None.

D. RECOMMENDED PROGRAM FOR IDENTIFYING AND REMOVING CONFIRMED SOURCES OF ILLICIT DISCHARGES

The Earth Tech Project Team, in coordination with the Town of Monson, will determine protocols to investigate and identify and remove the sources of suspected illicit or illegal discharges identified during outfall inspections. The team will review appropriate techniques to identify the source of illicit discharges. These techniques include manhole observation, video inspection, smoke testing, dye testing, or other appropriate means. The Project Team will also recommend means to remove identified illicit discharges from the storm sewer system. This may include adoption and enforcement of stormwater regulations, storm sewer improvements to eliminate cross connections or infiltration by groundwater, or removal of illegal connections.

The number of confirmed illicit discharges and appropriate methods to follow-up, identify, and remove the sources are unknown at this time. The Town of Monson will begin investigations by performing a follow-up inspection of each outfall with dry weather flow on a periodic basis to determine if flow quantity and/or content changes depending on the time of day/or elapsed time following a rain event. These follow-up inspections will assist the Town in identifying what type of source may be contributing to the dry weather flow, or whether the flow is a result of delayed inflow and provide the Team with guidance to move forward with identification and removal of illicit discharges.

E. MARCH '06 TO MARCH '07 ANNUAL REPORT

On behalf of the Town of Monson, Earth Tech prepared and submitted to the Town its Permit Year 4 (March 2006 to March 2007) NPDES Phase II Annual Report.

F. STORMWATER WORKSHOP AND FINAL REPORT

As part of Earth Tech's agreement with the Town of Monson, Earth Tech provided assistance to the Town in attaining particular Stormwater Management goals. Earth Tech assisted the Town of Monson with the following tasks as part of our FY07 contract:

- Provided an inventory of Monson's storm sewer system (outfalls, culverts, catch basins, drop inlets and manholes), including Global Positioning System (GPS) location, attribute data, photographs and indication of dry weather flow all within the Route 32 Urbanized Area;
- Developed a map noting the location of all inspected storm sewer system attributes and issues identified during the dry weather inspection (dry weather flow, sheen, sediments, or needs follow-up);
- Developed a map indicating areas of concern identified based on a review of drinking water protection areas, locations of critical habitats, areas of repeated flooding, and suspected problem areas identified by the Town;
- Recommended program for identifying and removing current or future sources of illicit or illegal discharges to the storm sewer system;
- Continued to monitor the Town's stormwater IDDE Program to ensure compliance with their NPDES Phase II Permit.

The results of the Town's FY07 Stormwater Management Program and the next steps for the Town were presented to the Town in the spring of 2007. A stormwater program status update meeting was held with the Town on March 8, 2007. Based on the update meeting discussions and progress made to date during FY07, some of the items the Town will need to implement prior to March 2008 are as follows:

- Continue Storm Sewer System Inspections of problem outfalls identified during the dry weather inspection (Spring and Fall 2007);
- Submit Annual Status/Progress Report (May 2007);
- Adopt Bylaw prohibiting illicit and illegal discharges to the storm sewer system (2007 ATM) (Refer to Appendix D);
- Adopt Bylaw for stormwater management during and post construction (2007 STM); and
- Continue to implement NOI items (ongoing through March 2008);

G. COMPACT DISC CONTENTS

A compact disc (CD) is provided that contains all of the files for the individual outfalls including the storm sewer system maps, photographs, and the attribute data associated with each storm sewer system inspection. This CD is available in Appendix C of this status report. A list of all the files included on the CD is provided below.

AreasOfConcern.pdf: Map showing all mapped outfalls and culverts with respect to areas of environmental concern including 100-year floodplain, critical habitats, Zone II delineations, and other areas.

Dry_Weather_Inspection_#.pdf: Individual dry weather inspection data, photo and map location for each outfall and culvert inspected.

Structure_#.pdf: Individual GPS and dry weather inspection data, photo and map location for each stormwater structure inspected.

MonsonOutfall.dwg: AutoCAD drawing file of the stormwater structures.

Shapefiles: ArcGIS shapefile of outfall locations for use in GIS or Pictometry software.