

Municipality/Organization: Town of Framingham

EPA NPDES Permit Number: MA R041116

MaDEP Transmittal Number: W-041299

**Annual Report Number
& Reporting Period:** No. 12: March '14 – March '15

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Robert Halpin

Title: Town Manager

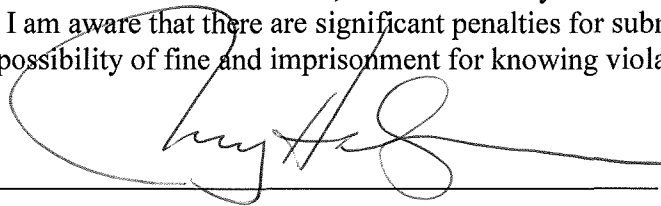
Telephone #: 508-532-5400

Email: rhalpin@Framinghamma.gov

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: Robert Halpin

Title: Town Manager

Date: 4/16/15

Part II. Self-Assessment

The Town of Framingham has completed the required self-assessment for Permit Year Twelve and finds that our municipality is in compliance in general with the permit conditions.

For compliance with the six Minimum Control Measures, the Town completed the following for Year 12:

- The Town undertook several education and participation efforts, including:
 - Hosted annual Household Hazardous Waste Collection Day and Rain Barrel Event for residents
 - Participated at the Town's Earth Day (April 26, 2014) and Riverfest (June 20-22, 2014) celebrations.
 - Provided water resources classes at Potter Elementary School, McAuliffe Charter School, and Framingham State University.
 - Conducted a storm drain marking event on September 13, 2014 with Boston Church of Christ volunteers in Downtown Framingham near high-use facilities like Town Hall, the Police Station, the library, and Framingham Union Hospital.
- The Town reviewed and updated our IDDE Implementation Plan. The Town continued water quality monitoring and sampling at approximately 20% of the Town's outfalls. The Town investigated ten potential illicit discharges and addressed four activities that had potential to impact stormwater runoff.
- The Town's Engineering Division reviewed over 150 construction and post-construction submittals for compliance with the Town's bylaws and the MassDEP stormwater management standards.
- The Town's Department of Public Works completed 113 stormwater system related work orders. Water quality BMPs, over 7,200 catch basins, and over 52,000 feet of drainage lines were inspected and cleaned. Street sweeping was conducted on all roads at least once, twice in high priority areas, and almost daily in the downtown area.

The Town continues to develop and update our Stormwater Master Plan using a prioritized sub-basin approach. The Stormwater Master Plan includes field data collection, GIS data compilation, asset condition assessments, hydrologic/hydraulic modeling, water quality assessment, alternative improvements evaluations, and capital improvement recommendations. The Town has completed the plan for 12 out of our 22 sub-basins. The Town continues to plan for and implement the recommendations from the initial phases of the master plan, namely replacement or rehabilitation of structures at high risk with high consequence of failure.

The Massachusetts Natural Resource Damages Assessment and Restoration Program awarded a grant to the Town of Framingham for a stream restoration project to improve natural resources habitat and water quality in Beaver Dam Brook, a tributary in the Upper Sudbury River watershed. The grant funds are part of the General Motors (GM) trust fund connected to the company's former contaminated industrial site in Framingham.

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13 and beyond
NA	Continue to find uses for SuAsCo postcards. Participate in Earth Day and Riverfest.	SuAsCo/ Framingham DPW	NA (none created for the 12 th permit year)	SuAsCo Postcards were uploaded to the Town's website and continue to be included in notifications regarding illicit discharges. Stormwater education materials were made available at the Town's Earth Day Celebration on April 26, 2014 and at Riverfest on June 20-22, 2014. The Town Engineering Division provided water resources classes at Potter Elementary School, McAuliffe Charter School, and Framingham State University.	Continue public education as part of IDDE management program. Continue participation in environmentally related events. Remainder to be determined for the next 5-year permit based on EPA requirements to be published.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13 and beyond
NA	Continue Drain Marking Program Provide support to local groups.	SuAsCo/ Framingham, DPW	NA (none created for the 12 th permit year)	The Town continued coordination with and encouraging local groups, including: OARS, Lake Cochituate Watershed Council, MassAudubon, and Framingham State University student groups. The Framingham DPW hosted an annual Household Hazardous Waste Collection Day on September 11, 2014 and Rain Barrel Event on July 16, 2014 for residents. The Framingham DPW conducted a storm drain marking event on September 13, 2014 with Boston Church of Christ volunteers in Downtown Framingham near-use facilities like Town Hall, the Police Station, the Main library, and Framingham Union Hospital.	Continue coordination with local groups. Continue annual Household Hazardous Waste Collection Day and Rain Barrel Event To be determined for the next 5-year permit based on EPA requirements to be published.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13 and beyond
NA	Continue implementation of IDDE bylaw and program.	DPW, with participation by Conservation Commission, Board of Health, Dept of Inspectional Services	Implement IDDE outfall monitoring program.	The DPW monitored and performed sampling at approximately 20% of the Town's outfalls, in the Lokerville, Angelica Brook, Sucker Pond, and Cochituate sub-basins. Samples were taken, based on visual inspection, for: - temperature - pH - phosphorus (total) - nitrogen (as ammonia) - detergents - chlorine - bacteria (coliform) - conductivity - dissolved oxygen The Town investigated ten potential illicit discharges and addressed four activities that had potential to impact stormwater runoff. The Town's IDDE tracking matrix and monitoring/sampling results are included with this report.	Monitoring and sampling to be performed at approximately 20% of the Town's outfalls, in the Hop Brook, Dunsdell Brook, 9/90 and Old Town Center sub-basins. Samples will be taken for the parameters listed in the previous column. Follow-up monitoring and sampling will be performed from Year 12 monitoring program to determine whether potential problems are persisting. Other activities to be determined for the next 5-year permit based on EPA requirements to be published.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13 and beyond
NA	Construction site runoff controls	Framingham DPW/Con Comm	Review, implement, inspect and enforce construction site runoff controls.	Plans that come before the Planning Board were reviewed using the Massachusetts DEP Stormwater Management Standards. These plans include all construction that fell under the requirements for the NPDES Phase II permit, whether it was near a wetland (as regulated by Massachusetts DEP) or not. Detailed stormwater impact analysis was required as part of this review. The Town's Engineering Division reviewed over 150 submittals. The Town's Engineering Department updated the Town's Construction Standards which include guidance on erosion & sediment controls during construction activities.	Continue review of construction submittals for compliance with Massachusetts DEP Stormwater Management Standards and Town bylaws. Other activities to be determined for the next 5-year permit based on EPA requirements to be published.

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13 and beyond
NA	Implement Drainage Master Plan.	Framingham DPW/Con Comm	Continue implementation.	The Town continues to plan for and implement the recommendations from the initial phases of the master plan, namely replacement or rehabilitation of structures at high risk with high consequence of failure. The Town's Engineering Department updated the Town's Construction Standards which include guidance on BMPs.	The Town will continue to plan for and implement the recommendations of the master plan. Other activities to be determined for the next 5-year permit based on EPA requirements to be published.

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13 and beyond
NA	Evaluate CB Cleaning	Framingham DPW	Implement the SWMP.	The Framingham DPW completed 113 stormwater system related work orders. Water quality BMPs, over 7,200 catch basins, and over 52,000 feet of drainage lines were inspected and cleaned. Street sweeping was conducted on all roads at least once, twice in high priority areas, and almost daily in downtown area.	Continue stormwater system operations and maintenance in accordance with the Town's Stormwater Management Plan. Other activities to be determined for the next 5-year permit based on EPA requirements to be published.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13 and beyond
NA	NA	NA	NA	DEP has not released a TMDL report and targets for the Sudbury River.	If a TMDL report is released, develop plans to obtain the goals.

7b. WLA Assessment - Not applicable

Part IV. Summary of Information Collected and Analyzed

Results of Year 12 outfall monitoring and sampling are attached to this report. We will further assess the data and target the problem areas for further evaluation in Year 13.

A tracking matrix of IDDE complaints and resolutions is attached.

**Town of Framingham
IDDE Tracking Matrix**

No.	Str. No.	Street	Applicable Authority	Status	Open Date	Problem and Resolution	Close Date	Notes
Permit Year 4 (2006 - 2007)								
1	51	Mellen St	Con Com / DEP	Resolved	2/2/07	Illicit discharge to Town drain, discharging to wetland. Photo processing silver compounds	6/11/07	Reported to DEP, cleaned up under MCP, RTN 3-26580
Permit Year 5 (2007 - 2008)								
2	115	Howe Street	DPW	Resolved	5/18/07	Illicit connection from residence to catch basin. Catch basin is eroding. Area around CB eroded with private property drainage.		Fixed 2007, re-reported January 2008. Hwy investigating
3		Centennial Place	DPW	Resolved	10/3/07	Outlet to wall southwest of dam - 15" clay pipe in stone wall (upstream of Colonna Bridge)	10/4/07	Sewer Overflow. Sealed by DPW, sewer backup in main trunkline repaired.
4	10	Snow Street	DPW	Resolved	10/18/07	Parking lot catch basin was connected to drainage line in the fall of 2007, outfall to Beaver Dam Brook (American Rooters Suburban Athletic Club)		See hand-drawn sketch by B. McCarty. Engineering to follow up following IDDE regulations implementation
5	39	Grant	DPW	Resolved	1/4/08	GW pumping disconnected byowner from sewer at Sewer Dept's order. Potential illicit connection to drainage system	2/20/09	No drain line seen. Likely intermitently used after storm events.
6	683	Water Street	DPW-DEP	Resolved	1/28/08	Fuel tank leak from Frito-Lay panel truck - diesel fuel > 10 gallons	1/28/08	Adequately regulated under DEP RTN3-27465
7	31	Pershing Ave.	DPW	Closed	2/12/08	GW pump disconnected from sewer at Sewer Dept's order, led to discharge to street. DPW approved temporary discharge to CB on Vose. Connection not seen in subsequent visits. Assume handling on property	2/20/09	Needs to request permanent attachment to Town system.
8	30	Vose	DPW	Closed	2/21/08	GW pumping dumping into street	4/15/08	Stopped after DPW went out to investigate (source still unknown)
9	15	Flanagan Rd	DPW	Resolved	2/20/08	GW pumping dumping into CB creating sinkhole		Highway Ops investigating. Engineering to follow up following IDDE regulations implementation
Permit Year 6 (2008 - 2009)								
10	329	Singletary Rd	DPW	Resolved	3/7/08	Addition to structure cut into hillside, creating permanent GW pumping requirement	5/15/08	Town approved tie-in to drainage system
11	330	Concord St	DPW	Resolved	4/18/08	Illicit connection to sewer system. Sewer Dept. removed connection.	8/5/08	Town approved tie-in to drainage system
12	6	Woodward	DPW	Resolved	4/25/08	Drainage to Hastings from pool	7/31/08	Highway Ops removed connection
13	9	Aaron	DPW	Closed	3/19/08	Small black hose draining to street	2/15/09	No drain line seen by Highway on subsequent investigations
14		Burton Road	DPW	Closed	6/4/08	Small hose draining to street	2/15/09	No drain line seen by Highway on subsequent investigations
15	263	Hollis Street	DPW	Resolved	6/5/08	Hose draining washing machine to CB, reported by John DeLuca		Disconnected, sent to sewer
16	12	Charles	BoH	Resolved	6/26/08	Illegal dumping to catch basin in yard at illegal auto body shop	6/28/09	Citations from the BoH
17	3	Foley Dr	DPW	Resolved	7/3/08	Lines filled, probably roadway sediment. However, significant grass clippings and other items in catch basin at cul-de-sca	7/15/08	DPW Ops cleaned out, Notice sent to residents.
18	355	Singletary Rd	DPW	Resolved	7/30/08	Pipe discharging to roadway	1/5/09	Engineering sent notice to resident 1/5/09, Highway Ops will remove connection
19	Many	Bantry/Pitt Rds	DPW	Resolved	11/7/08	CBs filled with bagged pet waste during CB cleaning	11/15/08	Engineering sent notice to residents
20	26	Whittier	BoH	Resolved	11/12/08	Sanitary Sewer backing up, overflowing into Drainage system	11/13/08	From BJ's. BoH had them call in cleaning and jetting company to clean drain lines. Lines cleaned before getting to street.
21	7-11	Oakvale Rd	DPW/ Con Com	Resolved	11/14/08	Dumping leaves and debris into wetland	11/16/08	Notice sent to residents from DPW and Con Com

**Town of Framingham
Illicit Discharges or Connections**

22	38	Fay Rd	DPW	Resolved	12/10/08	Sewer backup uncovered illicit connection to sewer system. Sewer Dept. removed connection.	12/12/08	Engineering sent notice to residents, visited site, made recommendations for dry well
23	73	Indian Head Hgts	DPW	Closed	1/7/09	Pipe discharging to roadway. Although this is an ongoing problem, it is only a safety issue as the discharge is groundwater. Therefore, it is not an illicit discharge issue.	2/25/12	This is an ongoing problem, which the DPW will resolve.
24		Worcester Rd	MHD	Closed	1/21/09	Sewer overflow	1/25/09	Referred to DEP and Mass Highway Dept
25	69	Londonderry Rd	DPW	Closed	12/1/08	Pipe discharging to roadway.	2/15/09	Homeowner told to remove pipe. No drain line seen by Highway on subsequent investigations.
26	9	Aaron St	DPW	Resolved	2/15/009	Pipe discharging to roadway. Owner warned of discharge.	2/20/09	No further discharge observed.
27	99 - 111	Beaver Street	DPW	Resolved	2/25/09	Dumping leaves and debris into drainage swale	2/26/09	DPW notice sent to residents
Permit Year 7 (2009 - 2010)								
28	115	Beaver Street	BOH & Con Com	Closed	4/3/09	Debris and trash near Beaver Dam Brook	4/3/09	Con Com Notice of Violation
29		Waverley St	DPW	Closed	4/16/09	Spill of transmission fluid	4/16/09	Discussed with owner of service station. Preventative measures were taken, education on methods for cleanup of spills.
30		Woodmere Rd	DPW	Closed	4/26/09	Pet Waste in CB near intersection with Belknap Rd	5/1/09	DPW notice sent to residents. Drain marking performed. DEP reported that the followup test results showed improvement in water quality.
31	32	Mary Agnes	DPW	Resolved	9/25/09	Sewer service broken, dumping sewage into drain lines	9/28/09	Sewer notified DEP of SSO, Line to be repaired by Sewer, homeowner
32		Waushakum	DPW	Closed	2/2/10	PVC pipe dumps onto sidewalk. The discharge is groundwater, therefore not an illicit discharge issue.		Intermittent water from sump pump
33	485	Franklin	DPW	Closed	2/10/10	Kathleen Daniel Nursing Home - 508-872-8801 - PVC pipe travels under dumpster and then dumps into roadway	2/12/10	Notice sent to property owner from DPW
34	655	Belknap	DPW	Closed	2/2/10	Discharge from sump pump directly to street	2/8/10	Notice sent to residents from DPW
Permit Year 8 (2010 - 2011)								
35	15	Hillside	DPW	Closed	3/3/10	Washout from gravel driveway to street	3/3/10	Notice sent to residents from DPW
Permit Year 9 (2011 - 2012)								
36	138	Leland	BoH	Closed	3/22/11	BoH observed floor drain that may discharge to surface. Dye test performed that confirmed discharge to ground surface outside the building.	3/23/11	Owner closed drain (no longer in use).
37		Speen	DPW	Resolved	6/16/11	Septage flow into Cochituate Brook (reported by Brownlea Road resident). Sewer Department removed the blockage, and flow was restored.	6/17/11	Blockage in sewer pipe created backup out of manhole.
38	192	Irving Street	BoH	Resolved	5/13/11	Citizen complaint of sheen in discharge pipe behind autobody operations. DPW investigated in May and June 2011. DPW and BoH investigated November 2011. BoH will cite owner for various deficiencies, however, no illicit discharge observed in any of the 3 visits (two during rainfall).		Owner advised to ensure that no oil or other discharge enter the catch basin on the property that drains to the swale behind the garage (the location observed by the complainant).
39	14	Louis W Farley Drive	DPW	Resolved	12/27/11	Discharge from sump pump directly to street. This is only a safety issue as the discharge is groundwater. Therefore, it is not an illicit discharge issue.	6/17/11	The homeowner installed additional dry wells on the property to reduce flow to the street.
40	749	Worcester Rd	DPW	Resolved	5/1/11	Discharge of oil or hazardous material discovered while excavating for deep sewer construction. Excavation was dewatered and soil removed per the URAM plan submitted to DEP.	12/21/11	Adequately regulated under DEP RTN3-26467

**Town of Framingham
IDDE Tracking Matrix**

41	846	Concord St	DPW	Resolved	7/13/11	Discharge of oil or hazardous material discovered while excavating for deep sewer construction. Excavation was dewatered and soil removed per the URAM plan submitted to DEP.		Adequately regulated under DEP RTN3-2100
42	350	Irving Street	DPW	Resolved	1/19/12	Citizen complaint of "spraying some blue liquid all over the parking lot" and not containing roadway salt properly. No action taken.	2/28/12	The business owner sprays a solution of calcium chloride for dust suppression. The salt is stored in large bins with protective walls and roof over 200 feet from the brook, with two earthen berms protecting the brook.
Permit Year 10 (2012 - 2013)								
43	213	Bishop St	DPW	Closed	6/7/12	Citizen complaint of dumping a gallon of paint down a catch basin outside the residence at 213 Bishop Street	6/12/12	Notification sent to the neighborhood describing the incident and educating the residents regarding proper disposal.
44		Vaillencourt Dr.	DPW	Closed	6/18/12	Bagged pet waste at outfall near Hickey Drive	6/20/12	Notices sent to Vaillencourt, Hickey, and Ford Lane residents
45	18-20	Old Wood Rd	DPW	Closed	6/18/12	Debris in channel behind houses - tree limbs	6/20/12	Notices sent to two residences
46	1372	Concord St	DPW	Closed	6/21/12	BoH observed sump pump from unoccupied house that may discharge non-GW liquids to surface.	6/26/12	Observed flow - appears clear, only operates in rain.
47	494	Franklin St	Con Com	Closed	6/28/12	Multiple discharges directly to the Sudbury River	11/14/12	NOI reviewed by Conservation Commission, addressing runoff from two major locations.
48	22	Hollis Street	BoH	Closed	7/3/12	Discharge from washing machine to floor drain to sump to SW drain	7/7/12	BoH cited property owner.
49		East / South Sts	DPW	Closed	9/10/12	Dumping of waste into area surrounding open channel	10/18/12	Notices sent to surrounding residences
50		Cherry Street	DPW	Closed	10/9/12	Dumping of waste into area surrounding open channel	11/8/12	Notices sent to surrounding residences
Permit Year 11(2013 - 2014)								
51	52	Nixon Rd	Con Com	Closed	3/1/13	Sediment spilling into roadway from construction		Cease and desist order sent to Contractor, Area cleaned.
52	69	Lowther Road	Bldg & Wire	Closed	4/16/13	Roof drain to street		Drain relocated to back of lot.
53	749	Edmands Rd	Bldg & Wire	Closed	6/12/13	Sediment spilling into roadway from construction		Cease and desist order sent to Contractor, Area cleaned.
54	23	Kingsbury Rd	DPW	Closed	1/2/14	Roof drain to street		Drain relocated to back of lot.
55	884	Waverly St	DPW	Closed	1/23/14	Roof drain to street		Drain relocated to side lot.
56		Learned Pond	Con Com	Closed	2/7/14	Fertilizer runoff into pond		Notification sent to properties abutting the pond
Permit Year 12 (March 2014 - March 2015)								
57	984	Pleasant St	DPW	Closed	8/20/14	Yard waste in drainage channel	8/24/14	Notification sent to adjacent properties
58	400	Cochituate Rd	DPW	Closed	9/4/14	Anonymous call reported to MassDEP of drugs (pills) dumped into catch basin near HomeGoods.	9/4/14	DPW inspected catch basins. He did not observe evidence of dumping or pills.
59	731	Concord St	DPW	Closed	9/10/14	Roof drain to street	9/30/14	Sent notification to property owner. He followed up with DPW and said he would disconnect & remove roof drains. DPW was installing conduit and replacing sidewalk in the area and confirmed drains were removed.
60	1-2	Roxanna St	BOH	Closed	10/7/14	Mr. Frank DeMarco notified Code Enforcement that he observed oil & water running into the catch basin outside of 1-2 Roxanna St	10/7/14	DPW inspected catch basin on 10/7/14 and did not see evidence of illicit discharge.
61	172	Union	BOH	Closed	10/8/14	The BOH received a complaint of illegal dumping by a service station employee at 172 Union Street. The complaint alleged that the employee dumped anti-freeze into the storm drain.	10/8/14	Stephanie, an inspector from the Health Dept, went out shortly after we received the complaint to inspect. She didn't see any evidence of anti-freeze in the storm drain. There was a bit of green residue on the grate itself which looked like paint or oxidized copper. She took photos. She spoke to the person in charge at the service station and they denied the allegation.

**Town of Framingham
Illicit Discharges or Connections**

62	635	Waverly St	DPW	Closed	10/9/14	DPW reported water flowing into catch basin outside Ron's Tire, noted while driving by and he did not identify the source.	10/9/14	DPW inspected source. Water was allowable non-stormwater discharge of potable water used during concrete coring.
63	N/A	Waverley Lane	BOH	Closed	10/28/14	Health Department was notified by DPW of sanitary sewer along Waverly Lane that had backed up. Health Dept & ConCom conducted site visit on 10/28/14.	10/28/14	Health Dept reported that it did not appear that sewage had entered the stormwater system. They were continuing their investigation.
64	596	Waverly Street	ConCom	Closed	10/28/14	DPW employee (Bruce Kinsman) observed construction personel from San Pau Bakery (under construction) dumping into the catch basin in front of the bakery. Appeared to be wash water from construction activities (i.e. paint). B.K. contacted the Stormwater Engineer (Kerry Reed) who notified ConCom. B.K. told personel to stop.	10/28/14	Con Com may issue a notice of violation (in conjunction with NOV for encroachment of Cedar Swamp)
65	22	Waverly St	DEP	Closed	12/9/14	Oil sheen observed on stormwater runoff from Citgo Gas onto Waverly and into catch basin. Fire Department notified DEP and owner. Owner contracted clean-up. No observed impacts beyond catch basin	12/15/14	
66		Hollis Street	BOH	Ongoing	12/30/14	DPW employee observed white pvc pipe discharging from below porch into roadway. Discharge appeared to have suds and may have be connected to a washing machine.		BOH investigated and discovered it was a sump pump discharge. Owner claims it was "approved by Town". BOH & DPW determining who has jurisdiction to require removal due to safety concerns.

**Town of Framingham
Outfall Monitoring**

Sub-basin	Asset ID	Location- approximate	Date	Time	Flow? (Y/N)	Sample taken? (Y/N)	Notes
Lokerville	2000163	Gleason Pond	8/6/2014	11:00	N	N	
Lokerville	2000164	Gleason Pond	8/6/2014	11:00	N	N	erosion around HDPE pipe
Lokerville	2008527	Gleason Pond	8/6/2014	11:15	N	N	
Lokerville	2000165	Across from Berkshire Road and 34 Prindiville Avenueue	8/6/2014	11:19	N	N	
Lokerville	2000162	Behind 19 Prindiville Avenue	8/6/2014	11:20	N	N	
Lokerville	2000151	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found
Lokerville	2008673	Sherwood Park Apartment Complex	8/6/2014	12:03	N	N	
Lokerville	2008672	Sherwood Park Apartment Complex	8/6/2014	12:03	N	N	
Lokerville	2018458	Grant Street, Butterworth Park North	8/6/2014	12:45	N	Y	
Lokerville	2000166	Grant Street, Butterworth Park Main	8/6/2014	12:45	Y	Y	
Lokerville	2018459	Grant Street, Butterworth Park South	8/6/2014	12:45	N	Y	
Lokerville	2006430	Bishop Street, Butterworth Park East	8/7/2014	10:00	N	N	Culvert almost blocked by log
Lokerville	2000167	Bishop Street, Butterworth Park East	8/7/2014	10:05	Y	N	Stream flow
Lokerville	2000169	Belvidere Way	8/7/2014	10:35	N	N	CB in front of 45 Grant St Ext, needs to be cleaned out

**Town of Framingham
Outfall Monitoring**

Sub-basin	Asset ID	Location- approximate	Date	Time	Flow? (Y/N)	Sample taken? (Y/N)	Notes
Lokerville	2018644 / 2018467	Hartford Street	8/7/2014	11:17	N	N	
Angelica Brook	2018825	End of Lanewood Ave	8/19/2014	10:35	N	N	
Angelica Brook	2000185	End of Angelica Dr	8/19/2014	10:50	N	N	
Angelica Brook	2008561	Framingham/Southbrough town line	8/19/2014	11:00	Y	N	Baseflow from wetland, no indicators
Angelica Brook	2018810	44/46 Angelica Dr.	8/19/2014	11:10	N	N	Pet waste bags near outfall, appeared to be discharged from pipe
Angelica Brook	2009041/42	36/38 Angelica Dr	8/19/2014	11:25	N	N	outfall and culvert inlet at same location
Angelica Brook	2000183/2009034	23/25 Angelica Dr	8/19/2014	11:35	Y	N	culverted stream, no indicators
Angelica Brook	2018827	14/16 Lanewood Ave.	8/19/2014	11:45	N	N	
Angelica Brook	2000180/2000181/2000182	culvert under MWRA aquaduct	8/19/2014	12:05	Y	N	culverted stream
Angelica Brook	2018829	end of John McQuinn Circle	8/19/2014	12:20	-	-	Could not locate, overgrown
Angelica Brook	2109604	off Thomas Dr	8/19/2014	12:30	N	N	Outfall directly to Sudbury River
Angelica Brook	2000090	984 Pleasant St.	8/19/2014	12:50	N	N	yard waste along drainage easement
Sucker Pond	2000036	Arsenal Road, Across from Pearl Harber Road exit	8/6/2014	11:25	N	N	
Sucker Pond	2000019	80 Hastings	8/26/2014	9:30	N	N	sand build-up at drainage ditch

**Town of Framingham
Outfall Monitoring**

Sub-basin	Asset ID	Location- approximate	Date	Time	Flow? (Y/N)	Sample taken? (Y/N)	Notes
Sucker Pond	2000034	40 Cochituate Rd	8/26/2014	9:40	N	N	
Sucker Pond	2006380	463 Worcester Rd	8/26/2014	10:00	N	N	
Sucker Pond	2000033	463 Worcester Rd	8/26/2014	10:05	N	N	Outfall is behind parking lot, not at end of dead-end road
Sucker Pond	2006249	Rte 9 culvert outlet	8/26/2014	-	-	-	Not inspected. Access difficult.
Sucker Pond	2000159	Fraser Rd	8/26/2014	10:43	N	N	Buried outfall. No flow in drainage ditch.
Sucker Pond	2000158	87/113Stonyrbook Road	8/26/2014	11:11	Y	Y	Culvert for piped stream with outfalls into pipe. No physical indicators. Sample taken for baseline water quality.
Sucker Pond	2000156	20 Clovelly Lane	8/26/2014	11:30	-	-	Could not locate
Sucker Pond	2000143	Buckminster St	8/26/2014	11:45	N	N	
Sucker Pond	2000155	End of Walnut St	8/26/2014	12:04	N	N	Submerged end of pipe. Standing water. No flow.
Sucker Pond	2000146	Franklin Street Bridge at Sudbury River	10/28/2014	9:00	N	N	
Sucker Pond	2000142	Franklin Street Bridge at Sudbury River	10/28/2014	9:10	N	N	
Sucker Pond	2018712	Perini Parking Lot	10/28/2014	9:10	N	N	Outfall in shoring along Sudbury River at edge of property. Sluice valve could be manually operated from top of shoring.
Sucker Pond	20008036	Bowditch Field	10/28/2014	9:30	N	N	
Sucker Pond	2018714	Union Street Bridge over Sudbury (SE)	10/28/2014	9:45	N	N	

**Town of Framingham
Outfall Monitoring**

Sub-basin	Asset ID	Location- approximate	Date	Time	Flow? (Y/N)	Sample taken? (Y/N)	Notes
Sucker Pond	2018713	Union Street Bridge over Sudbury (NW)	10/28/2014	9:45	Y	N	Observed from opposite bank. Pipe end located under bridge. Attempted to access to grab sample, but could not due to safety concerns about access. Discharge appeared clear. Looked in upstream catch basin and did not see signs of illicit discharge. Further investigation - discharge is from sump pump & groundwater treatment system at Callahan Senior Center, regulated by RGP.
Sucker Pond	2018777	McCarthy School	10/28/2014	10:00	Y	Y	Outfall to flowing stream in drainage swale along Flagg Drive. Could not tell if it was culverted stream. Grabbed sample.
Sucker Pond	2109615	MassBay Community College Parking Lot	10/28/2014	10:20	N	N	
Sucker Pond	2109611	MassBay Community College Parking Lot	10/28/2014	10:20	N	N	
Cochituate	2518359	Wayland town line on OCP	10/28/2014	11:00	-	-	Could not find outfall. Is it connected to Wayland? Outfall to Lake Cochituate?
Cochituate	2008601	End of Birch Road	10/28/2014	11:10	N	N	Did not find outfall. Appeared to be covered by yard waste. No signs of discharge or illicit.
Cochituate	2000107	Saxonville Beach at Lake Cochituate	10/28/2014	11:30	N	N	Did not find outfall near road, but observed swale to beach and outfalls at beach. No flow, no signs of illicit.

Town of Framingham - DPW/Engineering NPDES Outfall Analytical Sampling Results

			Date	Time	Water Temp. (°F)	Dissolved Oxygen (mg/L)	Conduc-tivity (mS/cm)	pH	Total Chlorine (ppm)	Free Chlorine (ppm)	Total Hardness (ppm)	Total Alkalinity (ppm)	Ammonia (mg/L)	Nitrate (mg/L)	Detergents (ppm)	Toal Phosphorus (mg/L)	Coliform (MPN)	E. Coli (MPN)	Notes
Sub-basin	Asset ID	Location- approximate			YSI Probe	YSI Probe	YSI Probe	strips	strips	strips	strips	strips	strips	DR890	Chemets	Hach DR890	Colilert	Colilert	
		EPA/Mass. Standard (warm water)			>83°F	<5.0 mg/L	>2.0	6.0-8.3	0.0	0.0	>2,000		>0.3	>3.5	>0.25	>0.4		see Note 8	
Lokerville	2018458	Grant Street, Butterworth Park North	8/6/2014	12:45	61.7	4.22	---	7.8	0	0	120	120	0	1.7	0.1	0.3	>2420	52.9	Do not suspect illicit discharge. First sampling event by KR - need to recalibrate YSI
Lokerville	2000166	Grant Street, Butterworth Park Main	8/6/2014	12:45	64	3.92	---	8.4	0	0	120	160	0	1.5	0.2	0.33	>2420	291	Do not suspect illicit discharge. First sampling event by KR - need to recalibrate YSI
Lokerville	2018459	Grant Street, Butterworth Park South	8/6/2014	12:45	62.5	4.86	---	8.4	0	0	120	120	0	1.5	1.2	0.39	>2420	69.7	Do not suspect illicit discharge. First sampling event by KR - need to recalibrate YSI
Sucker Pond	2000158	87/113Stonyrbook Road	8/26/2014	11:11	63.3	7.9	---	7.8	0	0	425	100	0.2	1.6	0.25	0.53	>2420	488	Do not suspect illicit discharge. Phosphorus loading could be from residential lawn runoff. Recommend comparing to wet weather sampling.
Sucker Pond	2018777	McCarthy School	10/28/2014	10:00	59.7	8.93	0	7.5	0	0	120	180	0	0.6	0	0.44	0	0	Do not suspect illicit discharge.

Notes

- 1 All samples are dry weather samples. Samples taken instream are for informational purposes only and do no reflect condition of water in the outfall itself.
- 2 Values in bold do not meet the IDDE or water quality standard (above or below as appropriate to the test).
- 3 From 314 CMR 4.06: All Waters in Framingham are Class B & warm water fisheries except Reservoir #3 (Foss) = Class A
- 4 --- Water quality meter not calibrated for conductivity.
- 5 Standards for temperature, dissolved oxygen, and pH are found in 314 CMR 4.00 "Massachusetts Surface Water Quality Standards".
- 6 From Table 45 & Table 51 in EPA's IDDE manual (October 2004):

Ammonia Benchmark

>0.3 mg/L

Ammonia Instream potential problem level (Table 51):

0.3 mg/L

Conductivity Benchmark

>2.0 mS/cm

Hardness Benchmark

>2,000 mg/L as CaCO3

Total Nitrogen

>3.5 mg/L
- 7 From Table 48 in EPA's IDDE manual for detergents: Indicator of sanitary or wash water: > 0.25 ppm
- 8 From Table 50 in EPA's IDDE Manual: E.Coli typical standards:

Designated beach areas

235 MPN/100mL

Lightly used full body contact rec area

406 MPN/100mL

Moderately used full body contact rec. area

298 MPN/100mL

Infrequently used full body contact rec area

576 MPN/100mL

Standards from MassDEP standards - not from 310 CMR 4.00: Single sample limit 235 colonies/100 ml (freshwater only); geometric mean 126 colonies/100 ml (freshwater only)
- 9 From Table 51 in EPA's IDDE Manual: In-stream nutrient potential problem levels: Total Phosphorus 0.4 mg/L
- 10 NA = Not analyzed: Prior to 8/21/2013, samples not analyzed for DO, Conductivity, Nitrate, Total Phosphorus, or bacteria, due to lack of analytical equipment
- 11 NS = Not sampled