

2012 Annual Report
National Pollutant Discharge Elimination System

FOR THE

CITY OF CAMBRIDGE, MASSACHUSETTS
COMBINED SEWER OVERFLOW PERMIT
#MA0101974

April 2013

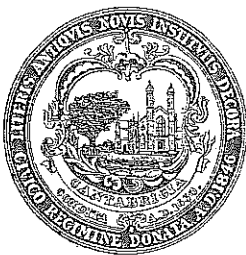
Submitted to:

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Water Technical Unit

MA Department of Environmental Protection
Bureau of Resource Protection

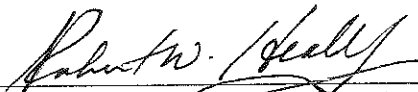
Submitted by:

City of Cambridge
Department of Public Works

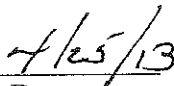


CAMBRIDGE
DEPARTMENT
OF PUBLIC
WORKS

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 of Authorized Official: Robert W. Healy
City Manager, City of Cambridge



Date

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1.0 Purpose of Report

This report has been prepared in accordance with Part I, Section D of Permit No. MA0101974, issued to the City of Cambridge Department of Public Works on September 30, 2009. The permit authorizes the City of Cambridge to discharge flow from twelve (12) Combined Sewer Overflows (CSO) located in 11 regulator structures to the receiving water bodies named in the permit.

2.0 Combined Sewer Overflow Monitoring Plan

As part of the Year 1 Annual Report the City revised weir equations for use in estimating combined sewer overflow quantities at the various regulators. During Year 2 (2010) the City, further refined these results using model simulations, metering, and weir equations where CSO activations are impacted by the river systems. The City continues to refine and update this current practice with input from the MWRA and several consulting firms.

Section 2.1 describes the existing methodology by which the City estimates effluent volumes and characterizes CSO events. Section 2.2 presents data from calendar year 2010 based on this approach, and Section 2.3 describes recommended enhancements and reporting methodology to be utilized by the City going forward.

2.1 Existing CSO Monitoring Methodology

As part of the City's current NPDES Permit, the Department of Public Works (DPW) monitors flow weirs within combined sewer overflow regulator structures to estimate CSO discharge to the Charles River and Alewife Brook. Currently there are 12 permitted CSO locations associated with 11 CSO regulator structures. CAM 002A and CAM 002B are associated with a single regulator structure at CAM 002. Of these 11 regulator structures, three have been temporarily plugged (CAM 002B, CAM 009, and CAM 011) and one was permanently closed on March 31 2012 (CAM 400) resulting in eight active CSO outfalls currently being metered: CAM 001 (Alewife Brook Parkway), CAM 002A (Massachusetts Ave. at Alewife Brook Parkway), CAM 004 (Fresh Pond Rotary), CAM 401A (Bellis Circle/Sherman Street), CAM 401B (Massachusetts Ave. at Alewife Brook Parkway) discharging to Alewife Brook; and CAM 005 (Mount Auburn Hospital), CAM 007 (Memorial Drive at Hawthorne Street), and CAM 017 (Binney Street at First Street) discharging to the Charles River.

Metering is typically performed by measuring the depth of flow in the structure and computing discharge using a weir equation. In addition CAM 005 has a secondary area and velocity flow measuring devices in place at the CSO outfall pipe to more accurately determine the CSO overflow discharge.

Weir Equation: Currently the City uses the following rectangular contracted weir equation as provided by the flow meter manufacturer to compute flow over a standard weir:

$$Q = K(l - 0.2h)h^{1.5}$$

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Where:

Q is flow measured in cubic feet per second (CFS)

l is the weir crest length in feet

K is the weir coefficient equal to 3.330, when $1 \leq l \leq 10$ feet

h is the head on the weir in feet, the limits of which vary according to l as follows:

<u>Weir Length l (ft.)</u>	<u>h minimum (ft.)</u>	<u>h maximum (ft.)</u>
1	0.2	0.5
1.5	0.2	0.75
2	0.2	1.0
2.5	0.2	1.25
3	0.2	1.5
4	0.2	2.0
5	0.2	2.5
6	0.2	3.0
8	0.2	4.0
10	0.2	4.5

The CSO regulator weir crest lengths as reported under existing conditions are:

<u>Location</u>	<u>Weir Length (ft.)</u>
CAM 001 (Alewife Brook Pkwy)	1.46
CAM 002A (Massachusetts Ave at Alewife Brook Pkwy)	5.00
CAM 004 (Fresh Pond Rotary)	7.50
CAM 400 (Harrison Ave at Alewife Brook Pkwy)	7.48
CAM 401A (Bellis Circle at Sherman Street)	19.96
CAM 401B (Massachusetts Ave at Alewife Brook Pkwy)	6.00
CAM 005 (Mount Auburn Hospital)	3.94
CAM 007 (Memorial Drive at Hawthorne Street)	6.29
CAM 017 (Binney Street at First Street)	8.00

The summary of CSO activations for 2012 which follows is based on activation and quantification results based on weir equations, flow measuring devices and modeling software (Infoworks) in use during 2012.

2.2 Summary of 2012 CSO Activations

Activation Frequency and Discharge Volumes

Based on the monitoring procedures described above, one (1) total activation occurred at Charles River CSO regulators during one (1) separate storm event. Fifty-six (56) total activations occurred at Alewife Brook CSO regulators during 17 (seventeen) separate

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storm events. A summary of 2012 activations are provided in Table 2.1 and 2.2 for the Charles River and Alewife brook, respectively.

Precipitation data for each day of the 2012 reporting period is provided in monthly tables in **Appendix I**. In conformance with permit requirements under Part 1, Section D, Paragraph 2, data is provided for each day, including total rainfall, peak intensity, and average intensity. The monthly CSO volume data sheets are provided in **Appendix II**.

**Table 2.1
Summary of 2012 Activations
Charles River CSOs**

Receiving Water	Outfall No.	Discharge Location	2012 Activation Frequency	2012 Activation Volume (million gallons)
Charles River	CAM005	Lowell St. @ Mt. Auburn St.	0	0
	CAM007	Memorial Dr. @ Hawthorne Street	1	0.18
	CAM009	Memorial Dr. @ Old Murray Rd.	0	0
	CAM011	Plympton St.	0	0
	CAM017	Edwin Land Blvd. @ Binney St.	0	0
	TOTAL			
* CAM009 and CAM011 are temporarily blocked				

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Table 2.2
Summary of 2012 Activations
Alewife Brook CSOs

Receiving Water	Outfall No.	Discharge Location	2012 Activation Frequency	2012 Activation Volume (million gallons)
Alewife Brook	CAM001	Foch St. @ Alewife Brook Pkwy.	3	0.17
	CAM002A CAM002B*	Mass Ave @ Alewife Brook Pkwy	14	1.21
	CAM004	Concord Ave Rotary @ Fresh Pond Pkwy	15	13.71
	CAM401A	Sherman St. @ B&M Railroad	10	5.05
	CAM401B	Mass Ave/Columbus Ave @ Alewife Brook Pkwy	14	4.71
	TOTAL			
*CAM002B is temporarily closed.				

2.3 Modifications to CSO Monitoring Plan

The purpose of this analysis is to evaluate the current monitoring plan and to improve upon it, if possible, by modifying the present metering approach, and thus improve CSO activation reporting under the current NPDES permit.

CSO Regulator Structures

The methodology used to calculate overflows at each regulator structure has been reviewed and evaluated as described below. Where appropriate, revisions to existing calculation methodology are proposed. In addition, calculations will continue to be updated based on field investigations in order to reflect current field conditions.

CAM 001

The final configuration for CAM 001 consists of a 10" PVC pipe outlet with a 15" PVC elbow for floatable controls. There is also a brick weir set as elevation 15.22 Feet (NGVD).

The permitted configuration for CAM 001 consisted of an 18" overflow pipe with a steel plate at the end. The plate covered the bottom portion of the 18" pipe. The top of the steel plate was 5-3/4 inches below the crown of the 18" pipe. This created a restricted 70.6 square inch opening with an overflow elevation of 15.22 Feet (NGVD).

The final configuration for CAM 001 consists of a 10" PVC pipe outlet with a 15" PVC elbow for floatable controls. There is also a brick weir set as elevation 15.22 Feet (NGVD).

Hydraulic backwater computations on both the permitted configuration based on the 18" pipe and on the modified configuration using the brick weir with the 10" pipe were performed. The analysis indicates that for flows up to 4 CFS, the performances of the two configurations are almost identical. For flows through the outfall pipe slightly greater than 4 CFS, the hydraulic grade line will be greater than the rim elevation of the manholes and combined sewage will escape the sewer system and flow overland to the Brook.

CAM 002A

A standard weir equation was used to calculate the CSO activation volume for each storm.

$$Q = 3.33 * (L - 0.2 * h) * (h)^{1.5}$$

The above formula will be used to calculate overflow volumes for all flows below 2.5-feet above the weir elevation of 17.3-ft (CCB). Beyond that, Infoworks will be used to calculate all flows.

CAM 004

This CSO is located within a drainage confluence structure called Drain Vault 5 within the Alewife Brook Rotary at the junction of Concord Avenue and The Alewife Brook Parkway. The weir structure within this CSO is a complex weir with the lowest weir having a length of 7.5 ft and being perpendicular to the direction of flow, the two higher weirs are aligned parallel to the direction of flow and are 8 inches higher with a total weir length of an additional 17 feet.

After reviewing the data from the storms that occurred this year the current multi-step weir equation was considered no longer valid. Instead, an Infoworks calibrated model was used to calculate the total amount of CSO's that occurred at this structure. River elevations for the year were taken from a meter that was located inside of CAM 401B and translated to the outfall of CAM 004. The weir structure was modified to be two separate weirs as described above. The heights or "h" values that were calculated by Infoworks were consistent with "h" values that the flow meter was reading.

Another factor to consider is that under future conditions, the downstream Wheeler Street drain is scheduled to be further modified and additional infrastructure put in place as part of the City's CAM004 sewer separation contract (Contract 12) refer to Appendix III. The results of these improvements will again impact the predicted model values and a revised curve will be developed at that time to more accurately represent these future conditions.

CAM 400 (Closed April 7th 2012)

The downstream combined sewer system for CAM 400 was under construction as part of common manhole separation project (Contract 13) for part of the year. This construction consisted of laying new storm sewer and sanitary sewer mains and separating common manholes. The work was completed in March 2011 and the CAM 400 CSO regulator was closed.

CAM 401A

Due to the complicated nature of this structure and the existing floatables control brush screen at the existing weir, an alternative weir equation was used for comparison to the standard equation. This configuration requires a weir coefficient of $K = 2.4$ (based on

information from the brush screen manufacturer) to replace the standard weir equation coefficient of 3.33. Consequently the equation used for this CSO structure overflow was:

$$Q = 2.4(l - 0.2h)h^{1.5}$$

The City will use this revised weir equation for future flow estimates. It should be noted that similar to other CSOs, this system will experience a backwater effect above the weir elevation for the 25-year storm event and above and will be subject to additional analysis when submitting annual reports.

CAM 401B

Due to the size of the outlet a rectangular weir will be used up to an elevation of 1.4 feet above the bottom of the invert and an orifice equation will be used for all flows above 1.4 feet.

Rectangular Weir

$$Q = 3.33*(L-0.2*h)*(h)^{1.5}$$

Orifice Equation

$$Q = A * C_v * \sqrt{2 * g * h_o}$$

The Infoworks modeling software will also be used to better understand the flows from the CSO regulator structure.

CAM 005

An area / velocity meter has been installed in the downstream overflow pipe, and it will continue to authenticate CSO overflows from the CAM 005 regulator instead of relying solely on the weir equations or model output. To determine flow values for CAM 005 the velocity meter and flow meter data was reviewed. When the velocities were positive a standard rectangular weir equation was used.

CAM 007

The standard weir equation is accurate in this scenario, and the City will continue to use this existing equation for flow approximation purposes.

CAM 007 has experienced significant inflow from the Charles River. The inflow typically does not affect the CSO outfall however during a storm event this past year a CSO event occurred while the Charles River was flowing into the system. Further studies of the inflow needs to be completed during the next several years to gain a better understanding of how this inflow affects the conveyance of CSO activities.

CAM 017

The standard weir equation is accurate in this scenario, and the City will continue to use this existing equation for flow approximation purposes.

Significant modifications have begun on CAM 017. The construction started in the beginning of 2012 and will continue through 2013. The construction will replace the existing fixed weir with three large bending weirs to control flow. Refer to **Appendix IV**.

3.0 Status of CSO Abatement Projects

3.1 Project Updates

The City of Cambridge continues to implement abatement projects in accordance with the Massachusetts Water Resources Authority (MWRA) Final CSO Facilities Plan, the Federal Court Order (US v. MDC., et al., No. 85-0489 (D. Mass)), as amended by the Second Stipulation of the United States and the Massachusetts Water Resources Authority on Responsibility and Legal Liability for Combined Sewer Overflow Control. The information provided in this Annual Report conforms to information and data submitted to the MWRA for inclusion in their court-ordered annual report on CSO abatement project progress.

As described in more detail in the MWRA 2012 CSO Annual Progress Report (available at <http://www.mwra.com/cso/csoannualreports.htm>), the CSO Control Plan for Alewife Brook includes four project components for which the City of Cambridge is responsible, including:

- CAM004 Stormwater Outfall and Wetland Basin (Contract 12)
- CAM004 Sewer Separation (Contracts 8A, 8B, and 9)
- CAM 017 Bending Weirs
- Common Manhole Contract 7

Contract 12

Contract 12 (CambridgePark Drive Area Drainage Improvements and Stormwater Wetland Project) will convey stormwater flows removed from the combined sewer system to an innovative stormwater wetland. The constructed wetland basin will attenuate the stormwater flows and provide an additional level of water quality treatment prior to draining the stormwater to the Little River and Alewife Brook. The wetland will also contribute to the ecological and recreational goals of the Department of Conservation and Recreation's (DCR) Master Plan for the Alewife Reservation. Cambridge commenced construction in spring 2011. Although Cambridge will complete the stormwater conduit and the wetland basin by the end of April 2013, in compliance with MWRA's Federal Court Order, construction of other project-related improvements to the Alewife Reservation will continue through September 2013.

Contracts 8A, 8B and 9

Contracts 8A, 8B and 9 (Alewife Sewer Separation Project: Huron A, Huron B and Concord Avenue) will install new storm drains in neighborhoods along Huron and Concord avenues to remove stormwater from the overburdened combined sewer system, protect Fresh Pond Reservoir, allow Cambridge to eliminate CSO discharges at CSO Outfall CAM004, and reduce CSO discharges at the other outfalls, thereby improving water quality in the Little River and Alewife Brook. Cambridge completed early work along Fresh Pond Parkway in 2000-02 and is now designing and constructing the remaining elements of the project. Cambridge commenced construction of the first of three planned construction contracts (Huron A) in September 2012. Cambridge plans to commence the last two construction contracts (Huron B and Concord Avenue) in 2013 and 2014, respectively, and complete all of the CSO related sewer separation work by December 2015, in compliance with MWRA's Federal Court Order. Street and sidewalk restoration will continue into 2016 in these areas.

CAM 017 Bending Weirs

The bid documents were released in early 2012 and the project was awarded in February of 2012. Work began in March 2013. The project needed to relocate many existing utilities to construct the bending weirs and other structures. Many existing service connections for the Esplanade were relocated as well. The contractor continued work and rehabilitated the 84"x84" flap gate. The contractor also constructed the bypass connection on the 8 foot diameter drain line for the new bending weir structures.

Common Manhole 7

The City will begin construction removing 32 common manholes located in various locations throughout the City in the spring of 2013. The common manholes are currently located in separated areas. This is the last common manhole contract that the City of Cambridge are required to complete. The contractor will be required to remove all common manholes in the contract by the end of 2013.

Common Manhole 7

The contractor began construction on Western Ave in Cambridge in early October 2012. From that time through the end of the calendar year their crews dug test pits between Memorial Drive and Green Street. They removed and replaced the existing water main along Western Ave from Memorial Drive to Putnam Street and installed residential water services along the way. The only sewer work that was done during this time was at Riverside Place where the existing 8" VCP was removed and replaced with 10" PVC. And lastly, construction and installation of storm drains was not yet underway.

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3.2 Project Schedule

Design and construction milestones for the Alewife Brook projects were added to Schedule Seven in 2006 when EPA and DEP approved the regional long-term CSO control plan. However, the wetland appeals process continued through 2007 and into 2008. As a result of the delays associated with the wetlands appeals, the City has developed new project schedules and time estimates to complete major design, permitting and construction tasks.

Project	Benefit	Implementation Status	Scheduled Completion
Contract 4: Interceptor Connection Relief and Floatables Control	Upgrades connections between Cambridge and MWRA systems to provide greater capacity; provides floatables control.	Project completed in October 2010.	2010
Contract 13: CAM400 Manhole Separation	Removes stormwater from the sewer system; eliminate CSO at Outfall CAM400.	Project completed in March 2012.	2012
Contract 12: CAM004 Stormwater Outfall and Wetland Basin	Conveys separated stormwater flows to wetland system for treatment and flow attenuation.	Commence construction in Spring 2012.	2013
Contracts 8A, 8B and 9: CAM004 Sewer Separation	Removes stormwater from the sewer system; eliminate CSO at Outfall CAM004.	Early work along Fresh Pond Parkway was completed in 2000-02. Sewer Separation design has begun in Contract 8A.	2015
Common Manhole 7	Eliminate common manholes in separated areas	Early 2013	2013

MWRA is seeking approval on the federal court case to amend the Schedule Seven milestones in accordance with the proposed project schedules. The projects are anticipated to meet existing and proposed milestone deadlines established in Schedule Seven of the Order.

MWRA plans to resume discussions with EPA and DEP on the proposed schedules for the Alewife Brook projects and related proposed changes to respective milestones in Schedule Seven once the NTP is issued for construction of Contract 12.

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**Table 3.1 – City of Cambridge CSO Abatement Projects and Status,
December 2012**

CSO Outfall	Required Project Type Under 2 nd Stipulation	Receiving Water	Contract / Project Name	Completion Date or Proposed Completion Date	Notes
CAM001	Floatables Control	Alewife	Contract 4 - Floatables	October 2010	Baffles installed.
CAM002	Floatables control; interceptor relief	Alewife	Contract 4 - Floatables	October 2010	Baffles installed 2010 and underflow enlarged.
CAM004	Sewer Separation	Alewife	2A/2B Fresh Pond Parkway	2001	CSO is now controlled by Drain Vault 5
CAM004	Sewer Separation	Alewife	Contract 8A/8B/9	December 2015	At completion, CSO at CAM004 will be eliminated
CAM004	Sewer Separation	Alewife	Contract 12- Stormwater Outfall	July 2012	Stormwater outfall and treatment wetland
CAM400	Sewer Separation / common manholes	Alewife	Contract 13	March 2012	CSO regulator to be eliminated; convert to stormwater outfall. 65% of sewer separation completed.
CAM401A	Floatables Control	Alewife	Bellis Circle	2005	Installed brush screen
CAM401B	Floatables control; interceptor relief	Alewife	Contract 4- Floatables	October 2010	Baffles installed in 2010 and underflow enlarged.
CAM005	Hydraulic Relief	Charles	MWRA CAM005 Hydraulic Relief	2000	For full project description see: http://www.mwra.com/annual/csuar/2009/csuar2009.pdf
CAM007	Floatables Control	Charles	Contract 5	2009	Baffle installed
CAM009	Floatables Control	Charles	Contract 5	2009	Outfall temporarily plugged
CAM011	Floatables Control	Charles	Contract 5	2009	Outfall temporarily plugged
CAM017	Floatables Control	Charles	Contract 5	2009	Baffles were installed in 2009.
CAM017	Bending Weirs	Charles	CAM 017	2013	Bending Weirs will be constructed.

4.0 Modifications to Nine Minimum Controls Plan

The Nine Minimum Controls Plan (NMCP) was updated in its entirety and submitted together with the first annual report (April 2009). The Plan provides a summary of the evaluations undertaken to address each control measure since the original plan was developed in 1997. Enhancements were made to the NMCP to meet the minimum implementation levels stipulated in the permit.

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APPENDIX I

CAMBRIDGE DPW RAIN GAUGE

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
1/1/2012	0.00	0.00	0.00
1/2/2012	0.01	0.01	0.06
1/3/2012	0.00	0.00	0.00
1/4/2012	0.00	0.00	0.00
1/5/2012	0.00	0.00	0.00
1/6/2012	0.00	0.00	0.00
1/7/2012	0.00	0.00	0.00
1/8/2012	0.00	0.00	0.00
1/9/2012	0.00	0.00	0.00
1/10/2012	0.00	0.00	0.00
1/11/2012	0.00	0.00	0.00
1/12/2012	1.40	0.25	0.14
1/13/2012	0.04	0.03	0.06
1/14/2012	0.00	0.00	0.00
1/15/2012	0.00	0.00	0.00
1/16/2012	0.00	0.00	0.00
1/17/2012	0.20	0.04	0.06
1/18/2012	0.00	0.00	0.00
1/19/2012	0.00	0.00	0.00
1/20/2012	0.00	0.00	0.00
1/21/2012	0.00	0.00	0.00
1/22/2012	0.00	0.00	0.00
1/23/2012	0.13	0.06	0.07
1/24/2012	0.01	0.01	0.06
1/25/2012	0.00	0.00	0.00
1/26/2012	0.18	0.07	0.07
1/27/2012	1.07	0.18	0.11
1/28/2012	0.00	0.00	0.00
1/29/2012	0.00	0.00	0.00
1/30/2012	0.00	0.00	0.00
1/31/2012	0.00	0.00	0.00
TOTAL	3.04		

Notes:

Rainfall was measured in ten minute intervals
 Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
2/1/2012	0.00	0.00	0.00
2/2/2012	0.00	0.00	0.00
2/3/2012	0.00	0.00	0.00
2/4/2012	0.00	0.00	0.00
2/5/2012	0.00	0.00	0.00
2/6/2012	0.00	0.00	0.00
2/7/2012	0.00	0.00	0.00
2/8/2012	0.00	0.00	0.00
2/9/2012	0.00	0.00	0.00
2/10/2012	0.00	0.00	0.00
2/11/2012	0.00	0.00	0.00
2/12/2012	0.00	0.00	0.00
2/13/2012	0.00	0.00	0.00
2/14/2012	0.00	0.00	0.00
2/15/2012	0.00	0.00	0.00
2/16/2012	0.04	0.02	0.06
2/17/2012	0.01	0.01	0.06
2/18/2012	0.00	0.00	0.00
2/19/2012	0.00	0.00	0.00
2/20/2012	0.00	0.00	0.00
2/21/2012	0.00	0.00	0.00
2/22/2012	0.00	0.00	0.00
2/23/2012	0.02	0.02	0.06
2/24/2012	0.59	0.13	0.10
2/25/2012	0.00	0.01	0.00
2/26/2012	0.00	0.00	0.00
2/27/2012	0.00	0.00	0.00
2/28/2012	0.00	0.00	0.00
2/29/2012	0.40	0.09	0.12
TOTAL	1.06		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
3/1/2012	0.90	0.12	0.08
3/2/2012	0.01	0.01	0.06
3/3/2012	0.51	0.08	0.08
3/4/2012	0.00	0.00	0.00
3/5/2012	0.00	0.00	0.00
3/6/2012	0.00	0.00	0.00
3/7/2012	0.00	0.00	0.00
3/8/2012	0.00	0.00	0.00
3/9/2012	0.02	0.02	0.06
3/10/2012	0.00	0.00	0.00
3/11/2012	0.00	0.00	0.00
3/12/2012	0.00	0.00	0.00
3/13/2012	0.00	0.00	0.00
3/14/2012	0.00	0.00	0.00
3/15/2012	0.00	0.00	0.00
3/16/2012	0.07	0.02	0.06
3/17/2012	0.00	0.00	0.00
3/18/2012	0.00	0.00	0.00
3/19/2012	0.00	0.00	0.00
3/20/2012	0.00	0.00	0.00
3/21/2012	0.00	0.00	0.00
3/22/2012	0.00	0.00	0.00
3/23/2012	0.00	0.00	0.00
3/24/2012	0.00	0.00	0.00
3/25/2012	0.00	0.00	0.00
3/26/2012	0.01	0.01	0.06
3/27/2012	0.00	0.00	0.00
3/28/2012	0.05	0.04	0.10
3/29/2012	0.01	0.01	0.06
3/30/2012	0.00	0.00	0.00
3/31/2012	0.02	0.01	0.06
TOTAL	1.60		

Notes:

Rainfall was measured in ten minute intervals
 Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
2012 DAILY RAINFALL DATA
CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
4/1/2012	0.22	0.04	0.06
4/2/2012	0.01	0.03	0.06
4/3/2012	0.00	0.00	0.00
4/4/2012	0.00	0.00	0.00
4/5/2012	0.00	0.00	0.00
4/6/2012	0.00	0.00	0.00
4/7/2012	0.00	0.00	0.00
4/8/2012	0.00	0.00	0.00
4/9/2012	0.00	0.00	0.00
4/10/2012	0.00	0.00	0.00
4/11/2012	0.00	0.00	0.00
4/12/2012	0.28	0.10	0.11
4/13/2012	0.00	0.00	0.00
4/14/2012	0.00	0.00	0.00
4/15/2012	0.00	0.00	0.00
4/16/2012	0.00	0.00	0.00
4/17/2012	0.00	0.00	0.00
4/18/2012	0.00	0.00	0.00
4/19/2012	0.00	0.00	0.00
4/20/2012	0.00	0.00	0.00
4/21/2012	0.00	0.00	0.00
4/22/2012	1.59	0.16	0.11
4/23/2012	1.48	0.37	0.24
4/24/2012	0.00	0.00	0.00
4/25/2012	0.00	0.00	0.00
4/26/2012	0.00	0.00	0.00
4/27/2012	0.01	0.01	0.06
4/28/2012	0.00	0.00	0.00
4/29/2012	0.00	0.00	0.00
4/30/2012	0.00	0.00	0.00
TOTAL	3.59		

Notes:

Rainfall was measured in ten minute intervals.
Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
5/1/2012	0.69	0.12	0.10
5/2/2012	0.00	0.00	0.00
5/3/2012	0.04	0.02	0.06
5/4/2012	0.01	0.01	0.06
5/5/2012	0.16	0.12	0.12
5/6/2012	0.00	0.00	0.00
5/7/2012	0.00	0.00	0.00
5/8/2012	0.20	0.04	0.06
5/9/2012	0.49	0.09	0.09
5/10/2012	0.82	0.16	0.15
5/11/2012	0.00	0.00	0.00
5/12/2012	0.00	0.00	0.00
5/13/2012	0.00	0.00	0.00
5/14/2012	0.26	0.21	0.22
5/15/2012	0.41	0.13	0.11
5/16/2012	0.07	0.06	0.09
5/17/2012	0.00	0.00	0.00
5/18/2012	0.00	0.00	0.00
5/19/2012	0.00	0.00	0.00
5/20/2012	0.00	0.00	0.00
5/21/2012	0.00	0.00	0.00
5/22/2012	0.62	0.13	0.09
5/23/2012	0.01	0.01	0.06
5/24/2012	0.00	0.00	0.00
5/25/2012	0.00	0.00	0.00
5/26/2012	0.00	0.00	0.00
5/27/2012	0.00	0.00	0.00
5/28/2012	0.00	0.00	0.00
5/29/2012	0.00	0.00	0.00
5/30/2012	0.00	0.00	0.00
5/31/2012	0.00	0.00	0.00
TOTAL	3.78		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
6/1/2012	0.00	0.00	0.00
6/2/2012	1.48	0.32	0.16
6/3/2012	0.02	0.01	0.06
6/4/2012	0.24	0.02	0.06
6/5/2012	0.01	0.05	0.08
6/6/2012	0.02	0.02	0.06
6/7/2012	0.05	0.03	0.08
6/8/2012	0.61	0.56	1.20
6/9/2012	0.00	0.01	0.06
6/10/2012	0.00	0.00	0.00
6/11/2012	0.00	0.00	0.00
6/12/2012	0.09	0.01	0.06
6/13/2012	0.60	0.07	0.07
6/14/2012	0.00	0.00	0.00
6/15/2012	0.00	0.00	0.00
6/16/2012	0.00	0.00	0.00
6/17/2012	0.00	0.00	0.00
6/18/2012	0.00	0.00	0.00
6/19/2012	0.00	0.00	0.00
6/20/2012	0.00	0.00	0.00
6/21/2012	0.00	0.00	0.00
6/22/2012	0.04	0.03	0.06
6/23/2012	1.12	0.51	0.40
6/24/2012	0.00	0.00	0.00
6/25/2012	1.10	0.32	0.25
6/26/2012	0.10	0.09	0.17
6/27/2012	0.00	0.00	0.00
6/28/2012	0.00	0.00	0.00
6/29/2012	0.07	0.06	0.08
6/30/2012	0.00	0.00	0.00
TOTAL	5.55		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
7/1/2012	0.00	0.00	0.00
7/2/2012	0.00	0.00	0.00
7/3/2012	0.00	0.00	0.00
7/4/2012	0.22	0.08	0.08
7/5/2012	0.00	0.00	0.00
7/6/2012	0.00	0.00	0.00
7/7/2012	0.00	0.00	0.00
7/8/2012	0.00	0.00	0.00
7/9/2012	0.00	0.00	0.00
7/10/2012	0.00	0.00	0.00
7/11/2012	0.00	0.00	0.00
7/12/2012	0.00	0.00	0.00
7/13/2012	0.00	0.00	0.00
7/14/2012	0.00	0.00	0.00
7/15/2012	0.00	0.00	0.00
7/16/2012	0.00	0.00	0.00
7/17/2012	0.00	0.00	0.00
7/18/2012	1.26	0.81	0.54
7/19/2012	0.01	0.01	0.06
7/20/2012	0.00	0.00	0.00
7/21/2012	0.00	0.00	0.00
7/22/2012	0.00	0.00	0.00
7/23/2012	0.01	0.01	0.06
7/24/2012	0.17	0.07	0.15
7/25/2012	0.00	0.00	0.00
7/26/2012	0.00	0.00	0.00
7/27/2012	0.06	0.03	0.07
7/28/2012	0.73	0.18	0.14
7/29/2012	0.00	0.00	0.00
7/30/2012	0.00	0.00	0.00
7/31/2012	0.46	0.14	0.13
TOTAL	2.92		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
8/1/2012	0.44	0.29	0.21
8/2/2012	0.00	0.00	0.00
8/3/2012	0.00	0.00	0.00
8/4/2012	0.00	0.00	0.00
8/5/2012	0.18	0.13	0.15
8/6/2012	0.00	0.01	0.00
8/7/2012	0.00	0.00	0.00
8/8/2012	0.00	0.00	0.00
8/9/2012	0.00	0.00	0.00
8/10/2012	0.55	0.32	0.22
8/11/2012	0.00	0.01	0.06
8/12/2012	0.00	0.00	0.00
8/13/2012	0.00	0.00	0.00
8/14/2012	0.00	0.00	0.00
8/15/2012	0.71	0.51	0.34
8/16/2012	0.03	0.09	0.10
8/17/2012	0.02	0.00	0.00
8/18/2012	0.05	0.03	0.08
8/19/2012	0.00	0.00	0.00
8/20/2012	0.00	0.00	0.00
8/21/2012	0.00	0.00	0.00
8/22/2012	0.00	0.00	0.00
8/23/2012	0.00	0.00	0.00
8/24/2012	0.00	0.00	0.00
8/25/2012	0.00	0.00	0.00
8/26/2012	0.00	0.00	0.00
8/27/2012	0.00	0.00	0.00
8/28/2012	0.14	0.08	0.08
8/29/2012	0.00	0.00	0.00
8/30/2012	0.00	0.00	0.00
8/31/2012	0.00	0.00	0.00
TOTAL	2.12		

Notes:

Rainfall was measured in ten minute intervals
 Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
9/1/2012	0.00	0.00	0.00
9/2/2012	0.00	0.00	0.00
9/3/2012	0.00	0.00	0.00
9/4/2012	N/A	N/A	N/A
9/5/2012	N/A	N/A	N/A
9/6/2012	0.00	0.00	0.00
9/7/2012	0.55	0.52	0.55
9/8/2012	0.28	0.17	0.28
9/9/2012	0.02	0.02	0.06
9/10/2012	0.00	0.00	0.00
9/11/2012	0.00	0.00	0.00
9/12/2012	0.00	0.00	0.00
9/13/2012	0.00	0.00	0.00
9/14/2012	0.00	0.00	0.00
9/15/2012	0.10	0.10	0.20
9/16/2012	0.00	0.00	0.00
9/17/2012	0.00	0.00	0.00
9/18/2012	0.00	0.00	0.00
9/19/2012	1.39	0.96	0.40
9/20/2012	0.00	0.00	0.00
9/21/2012	0.00	0.00	0.00
9/22/2012	0.02	0.01	0.06
9/23/2012	0.04	0.03	0.08
9/24/2012	0.00	0.00	0.00
9/25/2012	0.00	0.00	0.00
9/26/2012	0.00	0.00	0.00
9/27/2012	0.00	0.00	0.00
9/28/2012	0.90	0.16	0.11
9/29/2012	0.12	0.08	0.09
9/30/2012	0.18	0.06	0.07
TOTAL	3.60		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

Gauge malfunctioned September 4-5

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
10/1/2012	0.00	0.00	0.00
10/2/2012	0.06	0.02	0.06
10/3/2012	0.07	0.01	0.06
10/4/2012	0.02	0.04	0.09
10/5/2012	0.01	0.01	0.06
10/6/2012	0.10	0.10	0.30
10/7/2012	0.11	0.04	0.06
10/8/2012	0.00	0.04	0.06
10/9/2012	0.01	0.01	0.06
10/10/2012	0.24	0.06	0.08
10/11/2012	0.00	0.00	0.00
10/12/2012	0.03	0.02	0.06
10/13/2012	0.00	0.00	0.00
10/14/2012	0.21	0.06	0.08
10/15/2012	0.07	0.00	0.00
10/16/2012	0.01	0.06	0.12
10/17/2012	0.00	0.00	0.00
10/18/2012	0.00	0.00	0.00
10/19/2012	0.18	0.03	0.06
10/20/2012	0.65	0.55	0.35
10/21/2012	0.00	0.00	0.00
10/22/2012	0.00	0.00	0.00
10/23/2012	0.00	0.00	0.00
10/24/2012	0.00	0.00	0.00
10/25/2012	0.00	0.00	0.00
10/26/2012	0.00	0.00	0.00
10/27/2012	0.00	0.00	0.00
10/28/2012	0.13	0.02	0.06
10/29/2012	1.93	0.55	0.22
10/30/2012	0.49	0.41	0.33
10/31/2012	0.01	0.00	0.00
TOTAL	4.33		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
11/1/2012	0.00	0.00	0.00
11/2/2012	0.03	0.02	0.06
11/3/2012	0.00	0.00	0.00
11/4/2012	0.00	0.00	0.00
11/5/2012	0.00	0.00	0.00
11/6/2012	0.00	0.00	0.00
11/7/2012	0.05	0.04	0.06
11/8/2012	0.52	0.25	0.16
11/9/2012	0.00	0.00	0.00
11/10/2012	0.00	0.00	0.00
11/11/2012	0.00	0.00	0.00
11/12/2012	0.00	0.00	0.00
11/13/2012	0.35	0.07	0.08
11/14/2012	0.00	0.00	0.00
11/15/2012	0.00	0.00	0.00
11/16/2012	0.00	0.00	0.00
11/17/2012	0.00	0.00	0.00
11/18/2012	0.00	0.00	0.00
11/19/2012	0.00	0.00	0.00
11/20/2012	0.00	0.00	0.00
11/21/2012	0.00	0.00	0.00
11/22/2012	0.00	0.00	0.00
11/23/2012	0.00	0.00	0.00
11/24/2012	0.00	0.00	0.00
11/25/2012	0.00	0.00	0.00
11/26/2012	0.00	0.00	0.00
11/27/2012	0.00	0.03	0.06
11/28/2012	N/A	N/A	N/A
11/29/2012	N/A	N/A	N/A
11/30/2012	N/A	N/A	N/A
TOTAL	0.95		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

Gauge removed for winter on November 27

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE DPW, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
12/1/2012	N/A	N/A	N/A
12/2/2012	N/A	N/A	N/A
12/3/2012	N/A	N/A	N/A
12/4/2012	N/A	N/A	N/A
12/5/2012	N/A	N/A	N/A
12/6/2012	N/A	N/A	N/A
12/7/2012	N/A	N/A	N/A
12/8/2012	N/A	N/A	N/A
12/9/2012	N/A	N/A	N/A
12/10/2012	N/A	N/A	N/A
12/11/2012	N/A	N/A	N/A
12/12/2012	N/A	N/A	N/A
12/13/2012	N/A	N/A	N/A
12/14/2012	N/A	N/A	N/A
12/15/2012	N/A	N/A	N/A
12/16/2012	N/A	N/A	N/A
12/17/2012	N/A	N/A	N/A
12/18/2012	N/A	N/A	N/A
12/19/2012	N/A	N/A	N/A
12/20/2012	N/A	N/A	N/A
12/21/2012	N/A	N/A	N/A
12/22/2012	N/A	N/A	N/A
12/23/2012	N/A	N/A	N/A
12/24/2012	N/A	N/A	N/A
12/25/2012	N/A	N/A	N/A
12/26/2012	N/A	N/A	N/A
12/27/2012	N/A	N/A	N/A
12/28/2012	N/A	N/A	N/A
12/29/2012	N/A	N/A	N/A
12/30/2012	N/A	N/A	N/A
12/31/2012	N/A	N/A	N/A
TOTAL	0.00		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

Gauge removed for winter

**USGS RAIN GAUGE
AT
FRESH POND**

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
2012 DAILY RAINFALL DATA
USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
1/1/2012	0.03	0.02	0.04
1/2/2012	0.24	0.02	0.04
1/3/2012	0.00	0.01	0.00
1/4/2012	0.00	0.00	0.00
1/5/2012	0.00	0.00	0.00
1/6/2012	0.00	0.00	0.00
1/7/2012	0.00	0.00	0.00
1/8/2012	0.00	0.00	0.00
1/9/2012	0.00	0.00	0.00
1/10/2012	0.00	0.00	0.00
1/11/2012	0.00	0.00	0.00
1/12/2012	1.19	0.34	0.12
1/13/2012	0.03	0.02	0.06
1/14/2012	0.00	0.00	0.00
1/15/2012	0.00	0.00	0.00
1/16/2012	0.00	0.00	0.00
1/17/2012	0.22	0.04	0.04
1/18/2012	0.01	0.01	0.04
1/19/2012	0.00	0.00	0.00
1/20/2012	0.00	0.00	0.00
1/21/2012	0.00	0.00	0.00
1/22/2012	0.04	0.02	0.04
1/23/2012	0.19	0.05	0.05
1/24/2012	0.01	0.04	0.04
1/25/2012	0.00	0.00	0.00
1/26/2012	0.15	0.07	0.05
1/27/2012	1.01	0.17	0.09
1/28/2012	0.00	0.00	0.00
1/29/2012	0.00	0.00	0.00
1/30/2012	0.00	0.00	0.00
1/31/2012	0.00	0.00	0.00
TOTAL	3.12		

Notes:

Rainfall was measured in fifteen minute intervals
Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
2/1/2012	0.00	0.00	0.00
2/2/2012	0.00	0.00	0.00
2/3/2012	0.00	0.00	0.00
2/4/2012	0.00	0.00	0.00
2/5/2012	0.00	0.00	0.00
2/6/2012	0.00	0.00	0.00
2/7/2012	0.00	0.00	0.00
2/8/2012	0.00	0.00	0.00
2/9/2012	0.00	0.00	0.00
2/10/2012	0.00	0.00	0.00
2/11/2012	0.08	0.03	0.04
2/12/2012	0.00	0.00	0.00
2/13/2012	0.00	0.00	0.00
2/14/2012	0.00	0.00	0.00
2/15/2012	0.00	0.00	0.00
2/16/2012	0.05	0.02	0.04
2/17/2012	0.02	0.01	0.04
2/18/2012	0.00	0.00	0.00
2/19/2012	0.00	0.00	0.00
2/20/2012	0.00	0.00	0.00
2/21/2012	0.00	0.00	0.00
2/22/2012	0.00	0.00	0.00
2/23/2012	0.02	0.02	0.04
2/24/2012	0.59	0.17	0.09
2/25/2012	0.00	0.01	0.00
2/26/2012	0.00	0.00	0.00
2/27/2012	0.00	0.00	0.00
2/28/2012	0.00	0.00	0.00
2/29/2012	0.27	0.06	0.04
TOTAL	1.03		

Notes:

Rainfall was measured in fifteen minute intervals

Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
2012 DAILY RAINFALL DATA
USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
3/1/2012	0.64	0.10	0.06
3/2/2012	0.02	0.01	0.04
3/3/2012	0.37	0.07	0.05
3/4/2012	0.00	0.00	0.00
3/5/2012	0.00	0.00	0.00
3/6/2012	0.00	0.00	0.00
3/7/2012	0.00	0.00	0.00
3/8/2012	0.00	0.00	0.00
3/9/2012	0.03	0.02	0.04
3/10/2012	0.00	0.00	0.00
3/11/2012	0.00	0.00	0.00
3/12/2012	0.00	0.00	0.00
3/13/2012	0.08	0.05	0.05
3/14/2012	0.00	0.00	0.00
3/15/2012	0.00	0.00	0.00
3/16/2012	0.08	0.03	0.05
3/17/2012	0.00	0.00	0.00
3/18/2012	0.00	0.00	0.00
3/19/2012	0.00	0.00	0.00
3/20/2012	0.00	0.00	0.00
3/21/2012	0.00	0.00	0.00
3/22/2012	0.00	0.00	0.00
3/23/2012	0.00	0.00	0.00
3/24/2012	0.00	0.00	0.00
3/25/2012	0.02	0.01	0.04
3/26/2012	0.00	0.00	0.00
3/27/2012	0.00	0.00	0.00
3/28/2012	0.06	0.05	0.12
3/29/2012	0.01	0.01	0.04
3/30/2012	0.00	0.00	0.00
3/31/2012	0.02	0.01	0.04
TOTAL	1.33		

Notes:

Rainfall was measured in fifteen minute intervals
Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
4/1/2012	0.16	0.05	0.05
4/2/2012	0.07	0.04	0.04
4/3/2012	0.00	0.00	0.00
4/4/2012	0.00	0.00	0.00
4/5/2012	0.00	0.00	0.00
4/6/2012	0.00	0.00	0.00
4/7/2012	0.00	0.00	0.00
4/8/2012	0.00	0.00	0.00
4/9/2012	0.00	0.00	0.00
4/10/2012	0.00	0.00	0.00
4/11/2012	0.00	0.00	0.00
4/12/2012	0.10	0.03	0.05
4/13/2012	0.00	0.00	0.00
4/14/2012	0.00	0.00	0.00
4/15/2012	0.00	0.00	0.00
4/16/2012	0.00	0.00	0.00
4/17/2012	0.00	0.00	0.00
4/18/2012	0.00	0.00	0.00
4/19/2012	0.00	0.00	0.00
4/20/2012	0.00	0.00	0.00
4/21/2012	0.00	0.00	0.00
4/22/2012	0.97	0.16	0.09
4/23/2012	1.78	0.42	0.19
4/24/2012	0.00	0.00	0.00
4/25/2012	0.00	0.00	0.00
4/26/2012	0.00	0.00	0.00
4/27/2012	0.01	0.01	0.04
4/28/2012	0.00	0.00	0.00
4/29/2012	0	0	0
4/30/2012	0	0	0
TOTAL	3.09		

Notes:

Rainfall was measured in fifteen minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
5/1/2012	0.61	0.17	0.09
5/2/2012	0.00	0.00	0.00
5/3/2012	0.05	0.02	0.04
5/4/2012	0.02	0.01	0.04
5/5/2012	0.22	0.20	0.15
5/6/2012	0.00	0.00	0.00
5/7/2012	0.00	0.00	0.00
5/8/2012	0.16	0.06	0.05
5/9/2012	0.31	0.20	0.08
5/10/2012	1.11	0.40	0.14
5/11/2012	0.00	0.00	0.00
5/12/2012	0.00	0.00	0.00
5/13/2012	0.00	0.00	0.00
5/14/2012	0.58	0.52	0.33
5/15/2012	0.32	0.15	0.09
5/16/2012	0.03	0.02	0.06
5/17/2012	0.00	0.00	0.00
5/18/2012	0.00	0.00	0.00
5/19/2012	0.00	0.00	0.00
5/20/2012	0.00	0.00	0.00
5/21/2012	0.00	0.00	0.00
5/22/2012	0.55	0.13	0.07
5/23/2012	0.01	0.01	0.04
5/24/2012	0.00	0.00	0.00
5/25/2012	0.00	0.00	0.00
5/26/2012	0.00	0.00	0.00
5/27/2012	0.00	0.00	0.00
5/28/2012	0.00	0.00	0.00
5/29/2012	0.19	0.19	0.38
5/30/2012	0.00	0.00	0.00
5/31/2012	0.00	0.00	0.00
TOTAL	4.16		

Notes:

Rainfall was measured in fifteen minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
6/1/2012	0.00	0.00	0.00
6/2/2012	1.43	0.39	0.14
6/3/2012	0.04	0.03	0.05
6/4/2012	0.14	0.03	0.04
6/5/2012	0.02	0.02	0.04
6/6/2012	0.03	0.03	0.12
6/7/2012	0.04	0.04	0.08
6/8/2012	0.33	0.19	0.33
6/9/2012	0.01	0.01	0.04
6/10/2012	0.00	0.00	0.00
6/11/2012	0.00	0.00	0.00
6/12/2012	0.00	0.00	0.00
6/13/2012	0.61	0.09	0.06
6/14/2012	0.01	0.01	0.04
6/15/2012	0.00	0.00	0.00
6/16/2012	0.00	0.00	0.00
6/17/2012	0.00	0.00	0.00
6/18/2012	0.00	0.00	0.00
6/19/2012	0.00	0.00	0.00
6/20/2012	0.00	0.00	0.00
6/21/2012	0.00	0.00	0.00
6/22/2012	0.04	0.04	0.05
6/23/2012	0.69	0.42	0.23
6/24/2012	0.00	0.00	0.00
6/25/2012	0.63	0.29	0.14
6/26/2012	0.01	0.01	0.04
6/27/2012	0.00	0.00	0.00
6/28/2012	0.00	0.00	0.00
6/29/2012	0.10	0.07	0.07
6/30/2012	0.00	0.00	0.00
TOTAL	4.13		

Notes:

Rainfall was measured in fifteen minute intervals
 Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
7/1/2012	0.00	0.00	0.00
7/2/2012	0.00	0.00	0.00
7/3/2012	0.00	0.00	0.00
7/4/2012	0.28	0.14	0.08
7/5/2012	0.01	0.01	0.04
7/6/2012	0.00	0.00	0.00
7/7/2012	0.03	0.03	0.06
7/8/2012	0.00	0.00	0.00
7/9/2012	0.00	0.00	0.00
7/10/2012	0.00	0.00	0.00
7/11/2012	0.02	0.02	0.04
7/12/2012	0.00	0.00	0.00
7/13/2012	0.00	0.00	0.00
7/14/2012	0.00	0.00	0.00
7/15/2012	0.00	0.00	0.00
7/16/2012	0.08	0.08	0.16
7/17/2012	0.00	0.00	0.00
7/18/2012	1.01	0.77	0.45
7/19/2012	0.03	0.03	0.12
7/20/2012	0.00	0.00	0.00
7/21/2012	0.02	0.02	0.04
7/22/2012	0.00	0.00	0.00
7/23/2012	0.02	0.01	0.04
7/24/2012	0.19	0.10	0.15
7/25/2012	0.03	0.03	0.04
7/26/2012	0.00	0.01	0.00
7/27/2012	0.20	0.13	0.09
7/28/2012	1.48	0.99	0.27
7/29/2012	0.02	0.01	0.04
7/30/2012	0.02	0.02	0.04
7/31/2012	0.46	0.20	0.12
TOTAL	3.90		

Notes:

Rainfall was measured in fifteen minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
8/1/2012	0.56	0.42	0.20
8/2/2012	0.00	0.01	0.00
8/3/2012	0.02	0.02	0.04
8/4/2012	0.00	0.01	0.00
8/5/2012	0.21	0.14	0.08
8/6/2012	0.02	0.02	0.04
8/7/2012	0.00	0.01	0.00
8/8/2012	0.01	0.01	0.04
8/9/2012	0.00	0.01	0.00
8/10/2012	0.82	0.31	0.20
8/11/2012	0.01	0.22	0.04
8/12/2012	0.02	0.02	0.04
8/13/2012	0.02	0.02	0.04
8/14/2012	0.00	0.00	0.00
8/15/2012	0.43	0.25	0.13
8/16/2012	0.20	0.24	0.11
8/17/2012	0.01	0.01	0.04
8/18/2012	0.10	0.04	0.06
8/19/2012	0.00	0.00	0.00
8/20/2012	0.00	0.00	0.00
8/21/2012	0.00	0.00	0.00
8/22/2012	0.01	0.01	0.04
8/23/2012	0.00	0.00	0.00
8/24/2012	0.01	0.01	0.04
8/25/2012	0.00	0.00	0.00
8/26/2012	0.02	0.02	0.04
8/27/2012	0.02	0.02	0.04
8/28/2012	0.14	0.10	0.08
8/29/2012	0.00	0.00	0.00
8/30/2012	0.00	0.00	0.00
8/31/2012	0.01	0.01	0.04
TOTAL	2.64		

Notes:

Rainfall was measured in fifteen minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
2012 DAILY RAINFALL DATA
USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
9/1/2012	0.00	0.00	0.00
9/2/2012	0.01	0.01	0.04
9/3/2012	0.01	0.01	0.04
9/4/2012	0.32	0.09	0.07
9/5/2012	0.97	0.60	0.24
9/6/2012	0.00	0.00	0.00
9/7/2012	0.67	0.65	0.45
9/8/2012	0.20	0.14	0.11
9/9/2012	0.02	0.01	0.04
9/10/2012	0.01	0.01	0.04
9/11/2012	0.00	0.00	0.00
9/12/2012	0.01	0.01	0.04
9/13/2012	0.00	0.00	0.00
9/14/2012	0.01	0.01	0.04
9/15/2012	0.12	0.12	0.24
9/16/2012	0.01	0.01	0.04
9/17/2012	0.01	0.01	0.04
9/18/2012	0.02	0.02	0.04
9/19/2012	1.19	0.93	0.34
9/20/2012	0.00	0.00	0.00
9/21/2012	0.00	0.00	0.00
9/22/2012	0.01	0.01	0.04
9/23/2012	0.08	0.07	0.08
9/24/2012	0.00	0.00	0.00
9/25/2012	0.00	0.00	0.00
9/26/2012	0.02	0.01	0.04
9/27/2012	0.00	0.00	0.00
9/28/2012	0.84	0.22	0.07
9/29/2012	0.10	0.08	0.08
9/30/2012	0.14	0.07	0.05
TOTAL	4.77		

Notes:

Rainfall was measured in fifteen minute intervals
Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
2012 DAILY RAINFALL DATA
USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
10/1/2012	0.00	0.00	0.00
10/2/2012	0.07	0.03	0.04
10/3/2012	0.04	0.02	0.05
10/4/2012	0.05	0.03	0.04
10/5/2012	0.00	0.00	0.00
10/6/2012	0.04	0.04	0.08
10/7/2012	0.11	0.06	0.06
10/8/2012	0.02	0.05	0.08
10/9/2012	0.00	0.00	0.00
10/10/2012	0.16	0.04	0.04
10/11/2012	0.00	0.00	0.00
10/12/2012	0.03	0.03	0.04
10/13/2012	0.00	0.00	0.00
10/14/2012	0.21	0.08	0.06
10/15/2012	0.00	0.00	0.00
10/16/2012	0.02	0.01	0.04
10/17/2012	0.00	0.00	0.00
10/18/2012	0.00	0.00	0.00
10/19/2012	0.09	0.03	0.04
10/20/2012	1.79	1.64	0.65
10/21/2012	0.00	0.00	0.00
10/22/2012	0.00	0.00	0.00
10/23/2012	0.00	0.00	0.00
10/24/2012	0.00	0.00	0.00
10/25/2012	0.00	0.00	0.00
10/26/2012	0.00	0.00	0.00
10/27/2012	0.00	0.00	0.00
10/28/2012	0.07	0.02	0.04
10/29/2012	1.49	0.55	0.17
10/30/2012	0.71	0.57	0.26
10/31/2012	0.01	0.01	0.04
TOTAL	4.91		

Notes:

Rainfall was measured in fifteen minute intervals
Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
11/1/2012	0.00	0.00	0.00
11/2/2012	0.02	0.02	0.04
11/3/2012	0.00	0.00	0.00
11/4/2012	0.00	0.00	0.00
11/5/2012	0.00	0.00	0.00
11/6/2012	0.00	0.00	0.00
11/7/2012	0.07	0.02	0.04
11/8/2012	0.24	0.13	0.07
11/9/2012	0.00	0.00	0.00
11/10/2012	0.00	0.00	0.00
11/11/2012	0.00	0.00	0.00
11/12/2012	0.00	0.00	0.00
11/13/2012	0.31	0.10	0.07
11/14/2012	0.00	0.00	0.00
11/15/2012	0.00	0.00	0.00
11/16/2012	0.00	0.00	0.00
11/17/2012	0.00	0.00	0.00
11/18/2012	0.00	0.00	0.00
11/19/2012	0.00	0.00	0.00
11/20/2012	0.00	0.00	0.00
11/21/2012	0.00	0.00	0.00
11/22/2012	0.00	0.00	0.00
11/23/2012	0.00	0.00	0.00
11/24/2012	0.00	0.00	0.00
11/25/2012	0.00	0.00	0.00
11/26/2012	0.00	0.00	0.00
11/27/2012	0.18	0.05	0.04
11/28/2012	0.00	0.00	0.00
11/29/2012	0.00	0.00	0.00
11/30/2012	0.00	0.00	0.00
TOTAL	0.82		

Notes:

Rainfall was measured in fifteen minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

USGS METER AT FRESH POND, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
12/1/2012	0.00	0.00	0.00
12/2/2012	0.01	0.01	0.04
12/3/2012	0.00	0.00	0.00
12/4/2012	0.01	0.01	0.04
12/5/2012	0.01	0.01	0.04
12/6/2012	0.00	0.00	0.00
12/7/2012	0.02	0.01	0.04
12/8/2012	0.30	0.08	0.06
12/9/2012	0.09	0.05	0.05
12/10/2012	0.46	0.15	0.07
12/11/2012	0.00	0.00	0.00
12/12/2012	0.00	0.00	0.00
12/13/2012	0.00	0.00	0.00
12/14/2012	0.00	0.00	0.00
12/15/2012	0.00	0.00	0.00
12/16/2012	0.24	0.08	0.05
12/17/2012	0.63	0.06	0.04
12/18/2012	0.81	0.26	0.10
12/19/2012	0.00	0.00	0.00
12/20/2012	0.00	0.00	0.00
12/21/2012	0.67	0.16	0.10
12/22/2012	0.00	0.00	0.00
12/23/2012	0.00	0.00	0.00
12/24/2012	0.00	0.00	0.00
12/25/2012	0.01	0.01	0.04
12/26/2012	0.23	0.13	0.09
12/27/2012	2.01	0.44	0.17
12/28/2012	0.00	0.00	0.00
12/29/2012	0.00	0.00	0.00
12/30/2012	0.00	0.00	0.00
12/31/2012	0.01	0.01	0.04
TOTAL	5.51		

Notes:

Rainfall was measured in fifteen minute intervals

Shaded Data denotes CSO discharge.

USGS RAIN GAUGE
AT
CITY OF CAMBRIDGE WATER
DEPARTMENT

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
 2012 DAILY RAINFALL DATA
 CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
1/1/2012	0.00	0.00	0.00
1/2/2012	0.01	0.01	0.06
1/3/2012	0.00	0.00	0.00
1/4/2012	0.00	0.00	0.00
1/5/2012	0.00	0.00	0.00
1/6/2012	0.00	0.00	0.00
1/7/2012	0.00	0.00	0.00
1/8/2012	0.00	0.00	0.00
1/9/2012	0.00	0.00	0.00
1/10/2012	0.00	0.00	0.00
1/11/2012	0.00	0.00	0.00
1/12/2012	1.59	0.32	0.16
1/13/2012	0.03	0.02	0.06
1/14/2012	0.00	0.00	0.00
1/15/2012	0.00	0.00	0.00
1/16/2012	0.00	0.00	0.00
1/17/2012	0.00	0.00	0.00
1/18/2012	0.00	0.00	0.00
1/19/2012	0.00	0.00	0.00
1/20/2012	0.00	0.00	0.00
1/21/2012	0.00	0.00	0.00
1/22/2012	0.00	0.00	0.00
1/23/2012	0.12	0.04	0.07
1/24/2012	0.00	0.02	0.00
1/25/2012	0.00	0.00	0.00
1/26/2012	0.20	0.08	0.08
1/27/2012	1.17	0.14	0.11
1/28/2012	0.00	0.00	0.00
1/29/2012	0.00	0.00	0.00
1/30/2012	0.00	0.00	0.00
1/31/2012	0.00	0.00	0.00
TOTAL	3.12		

Notes:

Rainfall was measured in ten minute intervals
 Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
 2012 DAILY RAINFALL DATA
 CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
2/1/2012	0.00	0.00	0.00
2/2/2012	0.00	0.00	0.00
2/3/2012	0.00	0.00	0.00
2/4/2012	0.00	0.00	0.00
2/5/2012	0.00	0.00	0.00
2/6/2012	0.00	0.00	0.00
2/7/2012	0.00	0.00	0.00
2/8/2012	0.00	0.00	0.00
2/9/2012	0.00	0.00	0.00
2/10/2012	0.00	0.00	0.00
2/11/2012	0.00	0.00	0.00
2/12/2012	0.00	0.00	0.00
2/13/2012	0.00	0.00	0.00
2/14/2012	0.00	0.00	0.00
2/15/2012	0.00	0.00	0.00
2/16/2012	0.05	0.02	0.06
2/17/2012	0.03	0.01	0.06
2/18/2012	0.00	0.00	0.00
2/19/2012	0.00	0.00	0.00
2/20/2012	0.00	0.00	0.00
2/21/2012	0.00	0.00	0.00
2/22/2012	0.00	0.00	0.00
2/23/2012	0.00	0.00	0.00
2/24/2012	0.67	0.14	0.12
2/25/2012	0.00	0.01	0.00
2/26/2012	0.00	0.00	0.00
2/27/2012	0.00	0.00	0.00
2/28/2012	0.00	0.00	0.00
2/29/2012	0.35	0.11	0.14
TOTAL	1.10		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

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CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
 2012 DAILY RAINFALL DATA
 CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
3/1/2012	0.97	0.11	0.09
3/2/2012	0.04	0.02	0.08
3/3/2012	0.47	0.08	0.08
3/4/2012	0.00	0.00	0.00
3/5/2012	0.00	0.00	0.00
3/6/2012	0.00	0.00	0.00
3/7/2012	0.00	0.00	0.00
3/8/2012	0.00	0.00	0.00
3/9/2012	0.03	0.02	0.06
3/10/2012	0.00	0.00	0.00
3/11/2012	0.00	0.00	0.00
3/12/2012	0.00	0.00	0.00
3/13/2012	0.09	0.04	0.07
3/14/2012	0.00	0.00	0.00
3/15/2012	0.00	0.00	0.00
3/16/2012	0.00	0.00	0.00
3/17/2012	0.00	0.00	0.00
3/18/2012	0.00	0.00	0.00
3/19/2012	0.00	0.00	0.00
3/20/2012	0.00	0.00	0.00
3/21/2012	0.00	0.00	0.00
3/22/2012	0.00	0.00	0.00
3/23/2012	0.00	0.00	0.00
3/24/2012	0.00	0.00	0.00
3/25/2012	0.00	0.00	0.00
3/26/2012	0.00	0.00	0.00
3/27/2012	0.00	0.00	0.00
3/28/2012	0.00	0.00	0.00
3/29/2012	0.00	0.00	0.00
3/30/2012	0.00	0.00	0.00
3/31/2012	0.02	0.02	0.06
TOTAL	1.62		

Notes:

Rainfall was measured in ten minute intervals
 Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
2012 DAILY RAINFALL DATA
CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
4/1/2012	0.19	0.04	0.06
4/2/2012	0.09	0.04	0.06
4/3/2012	0.00	0.00	0.00
4/4/2012	0.00	0.00	0.00
4/5/2012	0.00	0.00	0.00
4/6/2012	0.00	0.00	0.00
4/7/2012	0.00	0.00	0.00
4/8/2012	0.00	0.00	0.00
4/9/2012	0.00	0.00	0.00
4/10/2012	0.00	0.00	0.00
4/11/2012	0.01	0.01	0.06
4/12/2012	0.10	0.04	0.07
4/13/2012	0.00	0.00	0.00
4/14/2012	0.00	0.00	0.00
4/15/2012	0.00	0.00	0.00
4/16/2012	0.00	0.00	0.00
4/17/2012	0.00	0.00	0.00
4/18/2012	0.00	0.00	0.00
4/19/2012	0.00	0.00	0.00
4/20/2012	0.00	0.00	0.00
4/21/2012	0.00	0.00	0.00
4/22/2012	1.17	0.16	0.12
4/23/2012	2.24	0.35	0.24
4/24/2012	0.00	0.00	0.00
4/25/2012	0.00	0.00	0.00
4/26/2012	0.00	0.00	0.00
4/27/2012	0.01	0.01	0.06
4/28/2012	0.00	0.00	0.00
4/29/2012	0.00	0.00	0.00
4/30/2012	0.00	0.00	0.00
TOTAL	3.81		

Notes:

Rainfall was measured in ten minute intervals
Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
2012 DAILY RAINFALL DATA
CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
5/1/2012	0.72	0.14	0.11
5/2/2012	0.00	0.00	0.00
5/3/2012	0.06	0.01	0.06
5/4/2012	0.01	0.01	0.06
5/5/2012	0.27	0.21	0.18
5/6/2012	0.00	0.00	0.00
5/7/2012	0.00	0.00	0.00
5/8/2012	0.17	0.05	0.06
5/9/2012	0.36	0.21	0.11
5/10/2012	1.40	0.34	0.18
5/11/2012	0.00	0.00	0.00
5/12/2012	0.00	0.00	0.00
5/13/2012	0.00	0.00	0.00
5/14/2012	0.66	0.46	0.50
5/15/2012	0.39	0.14	0.12
5/16/2012	0.03	0.02	0.06
5/17/2012	0.00	0.00	0.00
5/18/2012	0.00	0.00	0.00
5/19/2012	0.00	0.00	0.00
5/20/2012	0.00	0.00	0.00
5/21/2012	0.00	0.00	0.00
5/22/2012	0.68	0.16	0.10
5/23/2012	0.02	0.01	0.06
5/24/2012	0.00	0.00	0.00
5/25/2012	0.00	0.00	0.00
5/26/2012	0.00	0.00	0.00
5/27/2012	0.00	0.00	0.00
5/28/2012	0.00	0.00	0.00
5/29/2012	0.22	0.22	0.44
5/30/2012	0.00	0.00	0.00
5/31/2012	0.00	0.00	0.00
TOTAL	4.99		

Notes:

Rainfall was measured in ten minute intervals
Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
6/1/2012	0.00	0.00	0.00
6/2/2012	1.71	0.40	0.19
6/3/2012	0.05	0.03	0.08
6/4/2012	0.19	0.03	0.06
6/5/2012	0.05	0.02	0.06
6/6/2012	0.03	0.03	0.18
6/7/2012	0.05	0.05	0.10
6/8/2012	0.41	0.25	0.49
6/9/2012	0.00	0.00	0.00
6/10/2012	0.00	0.00	0.00
6/11/2012	0.00	0.00	0.00
6/12/2012	0.00	0.00	0.00
6/13/2012	0.74	0.07	0.08
6/14/2012	0.00	0.00	0.00
6/15/2012	0.00	0.00	0.00
6/16/2012	0.00	0.00	0.00
6/17/2012	0.00	0.00	0.00
6/18/2012	0.00	0.00	0.00
6/19/2012	0.00	0.00	0.00
6/20/2012	0.00	0.00	0.00
6/21/2012	0.00	0.00	0.00
6/22/2012	0.05	0.03	0.08
6/23/2012	0.86	0.42	0.34
6/24/2012	0.00	0.00	0.00
6/25/2012	0.73	0.23	0.19
6/26/2012	0.01	0.01	0.06
6/27/2012	0.00	0.00	0.00
6/28/2012	0.00	0.00	0.00
6/29/2012	0.06	0.06	0.18
6/30/2012	0.00	0.00	0.00
TOTAL	4.94		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
 2012 DAILY RAINFALL DATA
 CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
7/1/2012	0.00	0.00	0.00
7/2/2012	0.00	0.00	0.00
7/3/2012	0.00	0.00	0.00
7/4/2012	0.33	0.14	0.11
7/5/2012	0.00	0.00	0.00
7/6/2012	0.00	0.00	0.00
7/7/2012	0.00	0.00	0.00
7/8/2012	0.00	0.00	0.00
7/9/2012	0.00	0.00	0.00
7/10/2012	0.00	0.00	0.00
7/11/2012	0.00	0.00	0.00
7/12/2012	0.00	0.00	0.00
7/13/2012	0.00	0.00	0.00
7/14/2012	0.00	0.00	0.00
7/15/2012	0.00	0.00	0.00
7/16/2012	0.09	0.09	0.18
7/17/2012	0.00	0.00	0.00
7/18/2012	1.29	0.65	0.70
7/19/2012	0.05	0.05	0.15
7/20/2012	0.00	0.00	0.00
7/21/2012	0.00	0.00	0.00
7/22/2012	0.00	0.00	0.00
7/23/2012	0.00	0.00	0.00
7/24/2012	0.21	0.11	0.18
7/25/2012	0.01	0.01	0.06
7/26/2012	0.00	0.00	0.00
7/27/2012	0.19	0.14	0.14
7/28/2012	1.73	0.87	0.30
7/29/2012	0.01	0.01	0.06
7/30/2012	0.01	0.01	0.06
7/31/2012	0.58	0.18	0.17
TOTAL	4.50		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
2012 DAILY RAINFALL DATA
CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
8/1/2012	0.68	0.49	0.27
8/2/2012	0.00	0.00	0.00
8/3/2012	0.00	0.00	0.00
8/4/2012	0.00	0.00	0.00
8/5/2012	0.21	0.13	0.13
8/6/2012	0.01	0.03	0.06
8/7/2012	0.00	0.00	0.00
8/8/2012	0.00	0.00	0.00
8/9/2012	0.00	0.00	0.00
8/10/2012	0.96	0.31	0.27
8/11/2012	0.01	0.05	0.06
8/12/2012	0.00	0.00	0.00
8/13/2012	0.00	0.00	0.00
8/14/2012	0.00	0.00	0.00
8/15/2012	0.46	0.22	0.20
8/16/2012	0.25	0.20	0.15
8/17/2012	0.01	0.01	0.06
8/18/2012	0.11	0.05	0.08
8/19/2012	0.00	0.00	0.00
8/20/2012	0.00	0.00	0.00
8/21/2012	0.00	0.00	0.00
8/22/2012	0.00	0.00	0.00
8/23/2012	0.00	0.00	0.00
8/24/2012	0.00	0.00	0.00
8/25/2012	0.00	0.00	0.00
8/26/2012	0.00	0.00	0.00
8/27/2012	0.00	0.00	0.00
8/28/2012	0.17	0.10	0.10
8/29/2012	0.00	0.00	0.00
8/30/2012	0.00	0.00	0.00
8/31/2012	0.00	0.00	0.00
TOTAL	2.87		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
 2012 DAILY RAINFALL DATA
 CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
9/1/2012	0.00	0.00	0.00
9/2/2012	0.00	0.00	0.00
9/3/2012	0.00	0.00	0.00
9/4/2012	0.37	0.09	0.09
9/5/2012	1.15	0.68	0.36
9/6/2012	0.00	0.00	0.00
9/7/2012	0.82	0.80	0.82
9/8/2012	0.24	0.16	0.24
9/9/2012	0.02	0.01	0.06
9/10/2012	0.00	0.00	0.00
9/11/2012	0.00	0.00	0.00
9/12/2012	0.00	0.00	0.00
9/13/2012	0.00	0.00	0.00
9/14/2012	0.00	0.00	0.00
9/15/2012	0.15	0.15	0.23
9/16/2012	0.00	0.00	0.00
9/17/2012	0.00	0.00	0.00
9/18/2012	0.02	0.02	0.12
9/19/2012	1.44	0.95	0.43
9/20/2012	0.00	0.00	0.00
9/21/2012	0.00	0.00	0.00
9/22/2012	0.03	0.01	0.06
9/23/2012	0.07	0.07	0.14
9/24/2012	0.00	0.00	0.00
9/25/2012	0.00	0.00	0.00
9/26/2012	0.00	0.00	0.00
9/27/2012	0.00	0.00	0.00
9/28/2012	1.00	0.21	0.11
9/29/2012	0.14	0.09	0.09
9/30/2012	0.19	0.07	0.08
TOTAL	5.64		

Notes:

Rainfall was measured in ten minute intervals
 Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
 2012 DAILY RAINFALL DATA
 CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
10/1/2012	0.00	0.01	0.00
10/2/2012	0.07	0.02	0.06
10/3/2012	0.05	0.02	0.06
10/4/2012	0.06	0.03	0.06
10/5/2012	0.00	0.00	0.00
10/6/2012	0.06	0.06	0.12
10/7/2012	0.12	0.07	0.09
10/8/2012	0.03	0.05	0.06
10/9/2012	0.01	0.01	0.06
10/10/2012	0.19	0.03	0.07
10/11/2012	0.00	0.00	0.00
10/12/2012	0.04	0.03	0.06
10/13/2012	0.00	0.00	0.00
10/14/2012	0.23	0.07	0.08
10/15/2012	0.00	0.00	0.00
10/16/2012	0.07	0.05	0.11
10/17/2012	0.00	0.00	0.00
10/18/2012	0.00	0.00	0.00
10/19/2012	0.14	0.04	0.06
10/20/2012	2.12	1.83	1.06
10/21/2012	0.00	0.00	0.00
10/22/2012	0.00	0.00	0.00
10/23/2012	0.00	0.00	0.00
10/24/2012	0.00	0.00	0.00
10/25/2012	0.00	0.00	0.00
10/26/2012	0.00	0.00	0.00
10/27/2012	0.00	0.00	0.00
10/28/2012	0.14	0.03	0.06
10/29/2012	2.26	0.61	0.22
10/30/2012	0.80	0.64	0.37
10/31/2012	0.01	0.01	0.06
TOTAL	6.40		

Notes:

Rainfall was measured in ten minute intervals
 Shaded Data denotes CSO discharge.

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
 2012 DAILY RAINFALL DATA
 CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
11/1/2012	0.00	0.00	0.00
11/2/2012	0.03	0.02	0.06
11/3/2012	0.00	0.00	0.00
11/4/2012	0.00	0.00	0.00
11/5/2012	0.00	0.00	0.00
11/6/2012	0.00	0.00	0.00
11/7/2012	0.00	0.00	0.00
11/8/2012	0.44	0.15	0.11
11/9/2012	0.00	0.00	0.00
11/10/2012	0.00	0.00	0.00
11/11/2012	0.00	0.00	0.00
11/12/2012	0.00	0.00	0.00
11/13/2012	0.38	0.11	0.10
11/14/2012	0.00	0.00	0.00
11/15/2012	0.00	0.00	0.00
11/16/2012	0.00	0.00	0.00
11/17/2012	0.00	0.00	0.00
11/18/2012	0.00	0.00	0.00
11/19/2012	0.00	0.00	0.00
11/20/2012	0.01	0.01	0.06
11/21/2012	0.00	0.00	0.00
11/22/2012	0.00	0.00	0.00
11/23/2012	0.01	0.01	0.06
11/24/2012	0.00	0.00	0.00
11/25/2012	0.00	0.00	0.00
11/26/2012	0.00	0.00	0.00
11/27/2012	0.04	0.02	0.06
11/28/2012	N/A	N/A	N/A
11/29/2012	N/A	N/A	N/A
11/30/2012	N/A	N/A	N/A
TOTAL	0.91		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

Gauge removed for winter on November 27

CSO NPDES Annual Report 2012

CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

2012 DAILY RAINFALL DATA

CITY OF CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE, MA

Date	Daily Rainfall (in.)	Maximum Intensity (in./hr)	Average Intensity (in./hr)
12/1/2012	N/A	N/A	N/A
12/2/2012	N/A	N/A	N/A
12/3/2012	N/A	N/A	N/A
12/4/2012	N/A	N/A	N/A
12/5/2012	N/A	N/A	N/A
12/6/2012	N/A	N/A	N/A
12/7/2012	N/A	N/A	N/A
12/8/2012	N/A	N/A	N/A
12/9/2012	N/A	N/A	N/A
12/10/2012	N/A	N/A	N/A
12/11/2012	N/A	N/A	N/A
12/12/2012	N/A	N/A	N/A
12/13/2012	N/A	N/A	N/A
12/14/2012	N/A	N/A	N/A
12/15/2012	N/A	N/A	N/A
12/16/2012	N/A	N/A	N/A
12/17/2012	N/A	N/A	N/A
12/18/2012	N/A	N/A	N/A
12/19/2012	N/A	N/A	N/A
12/20/2012	N/A	N/A	N/A
12/21/2012	N/A	N/A	N/A
12/22/2012	N/A	N/A	N/A
12/23/2012	N/A	N/A	N/A
12/24/2012	N/A	N/A	N/A
12/25/2012	N/A	N/A	N/A
12/26/2012	N/A	N/A	N/A
12/27/2012	N/A	N/A	N/A
12/28/2012	N/A	N/A	N/A
12/29/2012	N/A	N/A	N/A
12/30/2012	N/A	N/A	N/A
12/31/2012	N/A	N/A	N/A
TOTAL	0.00		

Notes:

Rainfall was measured in ten minute intervals

Shaded Data denotes CSO discharge.

Gauge removed for winter.

APPENDIX II

January 2012 Daily Rainfall and Combined Sewer Overflows

January	Rain Gauges			Alewife Brook					Charles River			Total	
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001 Foch St. @ Alewife Alewife Brook	CAM 002 Mass Ave. @ Alewife Alewife Brook	CAM 401B Columbus @ Mass Ave. Alewife Brook	CAM 004 Concord Ave @ Rotary Alewife Brook	401A Sherman St. Alewife Brook	CAM 005 Lowell St. @ Mt. Auburn St Charles River	CAM 007 Hawthorne St. @ Memorial Dr. Charles River	CAM 017 Edwin Land Blvd. @ Binney St. . Charles River		
	(in)	(in)	(in)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)		(GPD)
1	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.01	0.01	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	1.59	1.40	1.19	0.00	0.00	1,595.00	0.00	0.00	0.00	0.00	0.00	0.00	1,595.00
13	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.20	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.12	0.13	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.20	0.18	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	1.17	1.07	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.12	3.04	3.12	0.00	0.00	1,595.00	0.00	0.00	0.00	0.00	0.00	0.00	1,595.00

Alewife Brook outfall CAM002B is temporarily plugged
Charles River outfalls CAM009 and CAM011 are temporarily plugged

February 2012 Daily Rainfall and Combined Sewer Overflows

February	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001 Foch St. @ Alewife Brook	CAM 002 Mass Ave. @ Alewife Brook	CAM 401B Columbus @ Mass Ave. Alewife Brook	CAM 004 Concord Ave @ Rotary Alewife Brook	401A Sherman St. Alewife Brook	CAM 005 Lowell St. @ Mt. Auburn St Charles River	CAM 007 Hawthorne St. @ Memorial Dr. Charles River	CAM 017 Edwin Land Blvd. @ Binney St. Charles River	
	(in)	(in)	(in)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.05	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.03	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.67	0.59	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.35	0.40	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
												0.00
												0.00
Total	1.10	1.06	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Alewife Brook outfall CAM002B is temporarily plugged
 Charles River outfalls CAM009 and CAM011 are temporarily plugged

March 2012 Daily Rainfall and Combined Sewer Overflows

March	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001 Foch St. @ Alewife Alewife Brook	CAM 002 Mass Ave. @ Alewife Alewife Brook	CAM 401B Columbus @ Mass Ave. Alewife Brook	CAM 004 Concord Ave @ Rotary Alewife Brook	401A Sherman St. Alewife Brook	CAM 005 Lowell St. @ Mt. Auburn St Charles River	CAM 007 Hawthorne St. @ Memorial Dr. Charles River	CAM 017 Edwin Land Blvd. @ Binney St. Charles River	
	(in)	(in)	(in)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	
1	0.97	0.90	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.04	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.47	0.51	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.03	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14.00	0.00	0.00
13	0.09	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.07	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-2,428.00	0.00	0.00
Total	1.62	1.60	1.33	0.00	0.00	0.00	0.00	0.00	0.00	-2,442.00	0.00	0.00

Alewife Brook outfall CAM002B is temporarily plugged
Charles River outfalls CAM009 and CAM011 are temporarily plugged

April 2012 Daily Rainfall and Combined Sewer Overflows

April	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001 Foch St. @ Alewife Alewife Brook	CAM 002 Mass Ave. @ Alewife Alewife Brook	CAM 401B Columbus @ Mass Ave. Alewife Brook	CAM 004 Concord Ave @ Rotary Alewife Brook	401A Sherman St. Alewife Brook	CAM 005 Lowell St. @ Mt. Auburn St Charles River	CAM 007 Hawthorne St. @ Memorial Dr. Charles River	CAM 017 Edwin Land Blvd. @ Binney St. Charles River	
	(in)	(in)	(in)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	
1	0.19	0.22	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.09	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	-5,834.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-16,557.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4,880.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-221.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1,742.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-11,338.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3,682.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-16,970.00	0.00	0.00
11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.10	0.28	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9,971.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-67,147.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-28,170.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-64,784.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-28,655.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-27,711.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-11,360.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14.00	0.00	0.00
22	1.17	1.59	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	2.24	1.48	1.84	0.00	16,280.00	493,864.00	937,350.00	214,360.00	0.00	-47,218.00	0.00	1,661,854.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5,206.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7,799.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-25,773.00	0.00	0.00
27	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-3,185.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-6,607.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-165,052.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-183,807.00	0.00	0.00
Total	3.81	3.59	3.09	0.00	16,280.00	493,864.00	937,350.00	214,360.00	0.00	-743,683.00	0.00	1,661,854.00

Alewife Brook outfall CAM002B is temporarily plugged
 Charles River outfalls CAM009 and CAM011 are temporarily plugged
 CAM 400 Permanently closed on March 31, 2011

May 2012 Daily Rainfall and Combined Sewer Overflows

May	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001	CAM 002	CAM 401B	CAM 004	401A	CAM 005	CAM 007	CAM 017	
	(in)	(in)	(in)	Foch St. @ Alewife Brook	Mass Ave. @ Alewife Brook	Columbus @ Mass Ave. Alewife Brook	Concord Ave @ Rotary Alewife Brook	Sherman St. Alewife Brook	Lowell St. @ Mt. Auburn St Charles River	Hawthorne St. @ Memorial Dr. Charles River	Edwin Land Blvd. @ Binney St. Charles River	
1	0.72	0.69	0.61	0.00	0.00	0.00	0.00	0.00	0.00	-96,467.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-77,626.00	0.00	0.00
3	0.06	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	-436.00	0.00	0.00
4	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.27	0.16	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-301.24	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-38,894.00	0.00	0.00
8	0.17	0.20	0.16	0.00	0.00	0.00	0.00	0.00	0.00	-124,137.00	0.00	0.00
9	0.36	0.49	0.30	0.00	0.00	0.00	0.00	0.00	0.00	-46,775.00	0.00	0.00
10	1.40	0.82	1.12	0.00	0.00	0.00	17,850.00	0.00	0.00	-1,048.00	0.00	17,850.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.66	0.26	0.58	0.00	2,267.00	0.00	294,160.00	103,960.00	0.00	0.00	0.00	400,387.00
15	0.39	0.41	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.03	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-214,221.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-211,243.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-152,776.00	0.00	0.00
21	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	-1,537.00	0.00	0.00
22	0.68	0.62	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53,512.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-26,986.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.22	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10,512.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.99	3.78	4.16	0.00	2,267.00	0.00	312,010.00	103,960.00	0.00	-1,056,471.24	0.00	418,237.00

Alewife Brook outfall CAM002B is temporarily plugged
Charles River outfalls CAM009 and CAM011 are temporarily plugged
CAM 400 Permanently closed on March 31, 2011

June 2012 Daily Rainfall and Combined Sewer Overflows

June	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001 Foch St. @ Alewife Alewife Brook	CAM 002 Mass Ave. @ Alewife Alewife Brook	CAM 401B Columbus @ Mass Ave. Alewife Brook	CAM 004 Concord Ave @ Rotary Alewife Brook	401A Sherman St. Alewife Brook	CAM 005 Lowell St. @ Mt. Auburn St Charles River	CAM 007 Hawthorne St. @ Memorial Dr. Charles River	CAM 017 Edwin Land Blvd. @ Binney St. Charles River	
	(in)	(in)	(in)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.71	1.48	1.44	0.00	46,615.00	113,232.00	162,080.00	0.00	0.00	0.00	0.00	321,927.00
3	0.05	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.19	0.24	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.03	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.05	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.41	0.61	0.34	0.00	73,925.00	0.00	0.00	0.00	0.00	-26,372.00	0.00	73,925.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58,649.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-61,919.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-73,189.00	0.00	0.00
12	0.00	0.09	0.15	0.00	0.00	0.00	0.00	0.00	0.00	-42,398.00	0.00	0.00
13	0.74	0.60	0.46	0.00	0.00	0.00	0.00	0.00	0.00	-6,964.00	0.00	0.00
14	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-44,382.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-24,750.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-75,155.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-34,466.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-34,221.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21,916.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20,981.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-15,750.00	0.00	0.00
22	0.05	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	-52,795.00	0.00	0.00
23	0.86	1.12	0.69	0.00	15,567.00	48,670.00	183,040.00	0.00	0.00	-4,746.00	0.00	247,277.00
24	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-47,981.00	0.00	0.00
25	0.73	1.10	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	-26,241.00	0.00	0.00
29	0.06	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-25,077.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-45,225.00	0.00	0.00
Total	4.94	5.55	4.13	0.00	136,107.00	161,902.00	345,120.00	0.00	0.00	-743,177.00	0.00	643,129.00

Alewife Brook outfall CAM002B is temporarily plugged
 Charles River outfalls CAM009 and CAM011 are temporarily plugged
 CAM 400 Permanently closed on March 31, 2011

July 2012 Daily Rainfall and Combined Sewer Overflows

July	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001	CAM 002	CAM 401B	CAM 004	401A	CAM 005	CAM 007	CAM 017	
	(in)	(in)	(in)	Foch St. @ Alewife Brook	Mass Ave. @ Alewife Brook	Columbus @ Mass Ave. Alewife Brook	Concord Ave @ Rotary Alewife Brook	Sherman St. Alewife Brook	Lowell St. @ Mt. Auburn St Charles River	Hawthorne St. @ Memorial Dr. Charles River	Edwin Land Blvd. @ Binney St. Charles River	
	(in)	(in)	(in)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21,008.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20,211.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-6,897.00	0.00	0.00
4	0.33	0.22	0.28	0.00	0.00	0.00	0.00	0.00	0.00	-68,507.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-99,882.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-83,503.00	0.00	0.00
7	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	-84,677.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-57,560.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-52,658.00	0.00	0.00
10	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-56,314.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-33,523.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-17,093.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22,121.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-35,873.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21,183.00	0.00	0.00
16	0.09	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10,842.00	0.00	0.00
18	1.29	1.26	1.04	0.00	189,293.00	426,500.00	1,464,780.00	455,650.00	0.00	-25,808.00	0.00	2,536,223.00
19	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-222,501.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-167,323.00	0.00	0.00
21	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-71,073.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-95,301.03	0.00	0.00
23	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-52,967.00	0.00	0.00
24	0.21	0.17	0.19	0.00	0.00	0.00	0.00	0.00	0.00	-34,066.00	0.00	0.00
25	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	-6,346.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5,491.00	0.00	0.00
27	0.19	0.06	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	1.73	0.73	1.49	16,010.00	135,431.00	699,090.00	1,872,810.00	788,550.00	0.00	-7,186.00	0.00	3,511,891.00
29	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-40,748.00	0.00	0.00
30	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-39,042.00	0.00	0.00
31	0.58	0.46	0.52	0.00	0.00	0.00	0.00	0.00	0.00	-47,592.00	0.00	0.00
Total	4.50	2.92	3.96	16,010.00	324,724.00	1,125,590.00	3,337,590.00	1,244,200.00	0.00	-1,507,296.03	0.00	6,048,114.00

Alewife Brook outfall CAM002B is temporarily plugged

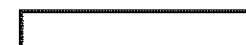
Charles River outfalls CAM009 and CAM011 are temporarily plugged

CAM 400 Permanently closed on March 31, 2011

August 2012 Daily Rainfall and Combined Sewer Overflows

August	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001	CAM 002	CAM 401B	CAM 004	401A	CAM 005	CAM 007	CAM 017	
	(in)	(in)	(in)	Foch St. @ Alewife Brook (GPD)	Mass Ave. @ Alewife Brook (GPD)	Columbus @ Mass Ave. Alewife Brook (GPD)	Concord Ave @ Rotary Alewife Brook (GPD)	Sherman St. Alewife Brook (GPD)	Lowell St. @ Mt. Auburn St Charles River (GPD)	Hawthorne St. @ Memorial Dr. Charles River (GPD)	Edwin Land Blvd. @ Binney St. Charles River (GPD)	
1	0.68	0.44	0.50	0.00	26384.00	29780.00	78860.00	0.00	0.00	88240.00	0.00	135,024.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-85371.00	0.00	0.00
3	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-80314.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-36628.00	0.00	0.00
5	0.21	0.18	0.21	0.00	0.00	0.00	0.00	0.00	0.00	-58149.00	0.00	0.00
6	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-4388.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58620.00	0.00	0.00
8	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-120392.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-113082.00	0.00	0.00
10	0.96	0.55	0.82	0.00	8807.00	59700.00	0.00	0.00	0.00	-77550.00	0.00	68,507.00
11	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	-1072.00	0.00	0.00
12	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-40.00	0.00	0.00
14	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-52564.00	0.00	0.00
15	0.46	0.71	0.58	0.00	0.00	0.00	0.00	0.00	0.00	-62679.00	0.00	0.00
16	0.25	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	-10253.00	0.00	0.00
17	0.01	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	-26393.00	0.00	0.00
18	0.11	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18503.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-104989.00	0.00	0.00
21	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-89852.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-72525.00	0.00	0.00
23	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-99487.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-106926.00	0.00	0.00
25	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-37763.00	0.00	0.00
26	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-95309.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-85749.00	0.00	0.00
28	0.17	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	-46434.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-97846.00	0.00	0.00
30	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-110174.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-138343.00	0.00	0.00
Total	2.87	2.12	2.58	0.00	35191.00	89480.00	78860.00	0.00	0.00	-1979635.00	0.00	203,531.00

Alewife Brook outfall CAM002B is temporarily plugged
 Charles River outfalls CAM009 and CAM011 are temporarily plugged
 CAM 400 Permanently closed on March 31, 2011



September 2012 Daily Rainfall and Combined Sewer Overflows

September	Rain Gauges			Alewife Brook					Charles River			Total (GPD)
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001 Foch St. @ Alewife Brook	CAM 002 Mass Ave. @ Alewife Brook	CAM 401B Columbus @ Mass Ave. Alewife Brook	CAM 004 Concord Ave @ Rotary Alewife Brook	401A Sherman St. Alewife Brook	CAM 005 Lowell St. @ Mt. Auburn St Charles River	CAM 007 Hawthorne St. @ Memorial Dr. Charles River	CAM 017 Edwin Land Blvd. @ Binney St. Charles River	
	(in)	(in)	(in)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-126,709.00	0.00	0.00
2	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-114,786.00	0.00	0.00
3	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-100,588.00	0.00	0.00
4	0.37	N/A	0.32	0.00	0.00	0.00	0.00	0.00	0.00	-14,537.00	0.00	0.00
5	1.15	N/A	0.97	0.00	56,704.00	320,350.00	877,520.00	316,800.00	0.00	0.00	0.00	1,571,374.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-45,847.00	0.00	0.00
7	0.82	0.55	0.67	0.00	0.00	0.00	0.00	0.00	0.00	-94,969.00	0.00	0.00
8	0.24	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.00	-79,905.00	0.00	0.00
9	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-70,361.00	0.00	0.00
12	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-135,738.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-112,031.00	0.00	0.00
14	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-131,289.00	0.00	0.00
15	0.15	0.10	0.12	0.00	0.00	0.00	0.00	0.00	0.00	-130,982.00	0.00	0.00
16	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-146,378.00	0.00	0.00
17	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-75,279.00	0.00	0.00
18	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-33,050.00	0.00	0.00
19	1.44	1.39	1.19	6,830.00	157,133.00	491,320.00	1,897,420.00	908,370.00	0.00	0.00	0.00	3,461,073.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5,645.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-25,626.00	0.00	0.00
22	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-18,705.00	0.00	0.00
23	0.07	0.04	0.08	0.00	0.00	0.00	0.00	0.00	0.00	-1,055.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9,693.00	0.00	0.00
26	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-28,152.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-77,959.00	0.00	0.00
28	1.00	0.90	0.84	0.00	0.00	0.00	0.00	0.00	0.00	-19,532.00	0.00	0.00
29	0.14	0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00	-30,164.00	0.00	0.00
30	0.19	0.18	0.14	0.00	0.00	0.00	0.00	0.00	0.00	-3,328.00	0.00	0.00
Total	5.64	3.60	4.77	6,830.00	213,837.00	811,670.00	2,774,940.00	1,225,170.00	0.00	-1,632,308.00	0.00	5,032,447.00

Alewife Brook outfall CAM002B is temporarily plugged
 Charles River outfalls CAM009 and CAM011 are temporarily plugged
 CAM 400 Permanently closed on March 31, 2011

October 2012 Daily Rainfall and Combined Sewer Overflows

October	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001	CAM 002	CAM 401B	CAM 004	401A	CAM 005	CAM 007	CAM 017	
	(in)	(in)	(in)	Foch St. @ Alewife Brook	Mass Ave. @ Alewife Brook	Columbus @ Mass Ave. Alewife Brook	Concord Ave @ Rotary Alewife Brook	Sherman St. Alewife Brook	Lowell St. @ Mt. Auburn St Charles River	Hawthorne St. @ Memorial Dr. Charles River	Edwin Land Blvd. @ Binney St. Charles River	
	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8,058.00	0.00	0.00
2	0.07	0.06	0.07	0.00	0.00	0.00	0.00	0.00	0.00	-178.00	0.00	0.00
3	0.05	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	-6,032.00	0.00	0.00
4	0.06	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	-13,990.00	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-801.00	0.00	0.00
6	0.06	0.10	0.04	0.00	0.00	0.00	0.00	0.00	0.00	-30,086.00	0.00	0.00
7	0.12	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	-319.00	0.00	0.00
8	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1,602.00	0.00	0.00
10	0.19	0.24	0.16	0.00	0.00	0.00	0.00	0.00	0.00	-28,664.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9,329.00	0.00	0.00
12	0.04	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	-5,657.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23,284.00	0.00	0.00
14	0.23	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	-65,580.00	0.00	0.00
15	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12,608.00	0.00	0.00
16	0.07	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-27,181.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-31,394.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-80,287.00	0.00	0.00
19	0.14	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	-50,078.00	0.00	0.00
20	2.12	0.65	1.79	142,650.00	254,829.00	912,650.00	3,362,210.00	1,942,370.00	0.00	181,456.00	0.00	6,796,165.00
										-71,154.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-90,019.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-105,017.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-117,410.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-125,749.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-130,026.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-39,437.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-364.00	0.00	0.00
28	0.14	0.13	0.07	0.00	0.00	0.00	0.00	0.00	0.00	-40,746.00	0.00	0.00
29	2.26	1.93	1.49	0.00	63,763.00	374,830.00	868,110.00	179,050.00	0.00	-27,272.00	0.00	1,485,753.00
30	0.80	0.49	0.71	0.00	35,064.00	170,050.00	475,430.00	111,340.00	0.00	-11,942.00	0.00	791,884.00
31	0.01	0.01	0.01		0.00				0.00	-59,393.00	0.00	0.00
Total	6.40	4.33	4.91	142,650.00	353,656.00	1,457,530.00	4,705,750.00	2,232,760.00	0.00	0.00	0.00	9,073,802.00

Alewife Brook outfall CAM002B is temporarily plugged
Charles River outfalls CAM009 and CAM011 are temporarily plugged
CAM 400 Permanently closed on March 31, 2011

November 2012 Daily Rainfall and Combined Sewer Overflows

November	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001	CAM 002	CAM 401B	CAM 004	401A	CAM 005	CAM 007	CAM 017	
	(in)	(in)	(in)	Foch St. @ Alewife Brook (GPD)	Mass Ave. @ Alewife Brook (GPD)	Columbus @ Mass Ave. Alewife Brook (GPD)	Concord Ave @ Rotary Alewife Brook (GPD)	Sherman St. Alewife Brook (GPD)	Lowell St. @ Mt. Auburn St Charles River (GPD)	Hawthorne St. @ Memorial Dr. Charles River (GPD)	Edwin Land Blvd. @ Binney St. Charles River (GPD)	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-36,668.00	0.00	0.00
2	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-5,129.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-41,945.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-40,654.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-178.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-395.00	0.00	0.00
7	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	-9,320.00	0.00	0.00
8	0.44	0.52	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.38	0.35	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.04	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.91	0.95	0.82	0.00	0.00	0.00	0.00	0.00	0.00	-134,289.00	0.00	0.00

Alewife Brook outfall CAM002B is temporarily plugged
 Charles River outfalls CAM009 and CAM011 are temporarily plugged
 CAM 400 Permanently closed on March 31, 2011

December 2012 Daily Rainfall and Combined Sewer Overflows

December	Rain Gauges			Alewife Brook					Charles River			Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001	CAM 002	CAM 401B	CAM 004	401A	CAM 005	CAM 007	CAM 017	
	(in)	(in)	(in)	Foch St. @ Alewife Brook	Mass Ave. @ Alewife Brook	Columbus @ Mass Ave. Alewife Brook	Concord Ave @ Rotary Alewife Brook	Sherman St. Alewife Brook	Lowell St. @ Mt. Auburn St Charles River	Hawthorne St. @ Memorial Dr. Charles River	Edwin Land Blvd. @ Binney St. Charles River	
			(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)
1	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	N/A	N/A	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	N/A	N/A	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	N/A	N/A	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	N/A	N/A	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	N/A	N/A	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	N/A	N/A	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	N/A	N/A	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	N/A	N/A	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	N/A	N/A	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	N/A	N/A	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	N/A	N/A	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	N/A	N/A	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	N/A	N/A	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	N/A	N/A	2.01	0.00	122,970.00	572,294.00	1,221,380.00	26,047.00	0.00	-6,537.00	0.00	1,942,691.00
28	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-128,499.00	0.00	0.00
29	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-694.00	0.00	0.00
30	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7,466.00	0.00	0.00
31	N/A	N/A	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	5.51	0.00	122,970.00	572,294.00	1,221,380.00	26,047.00	0.00	-143,196.00	0.00	1,942,691.00

Alewife Brook outfall CAM002B is temporarily plugged
 Charles River outfalls CAM009 and CAM011 are temporarily plugged
 CAM 400 Permanently closed on March 31, 2012

Month	Rain Gauges			Alewife Brook					Charles River				Total
	DPW 147 Hampshire Street	Water Dept. Fresh Pond	USGS Fresh Pond	CAM 001	CAM 002	CAM 401B	CAM 004	401A	CAM 005	CAM 007		CAM 017	
	(in)	(in)	(in)	Foch St. @ Alewife Alewife Brook	Mass Ave. @ Alewife Alewife Brook	Columbus @ Mass Ave. Alewife Brook	Concord Ave @ Rotary Alewife Brook	Sherman St. Alewife Brook	Lowell St. @ Mt. Auburn St Charles River	Hawthorne St. @ Memorial Dr. Charles River		Edwin Land Blvd. @ Binney St. Charles River	
	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	
January	3.12	3.04	3.12	0.00	0.00	1,595.00	0.00	0.00	0.00	0.00	0.00	0.00	1,595.00
February	1.10	1.06	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
March	1.62	1.60	1.33	0.00	0.00	0.00	0.00	0.00	0.00	-2,442.00	0.00	0.00	0.00
April	3.81	3.59	3.09	0.00	16,280.00	493,864.00	937,350.00	214,360.00	0.00	-743,683.00	0.00	0.00	1,661,854.00
May	4.99	3.78	4.16	0.00	2,267.00	0.00	312,010.00	103,960.00	0.00	-1,056,471.24	0.00	0.00	418,237.00
June	4.94	5.55	4.13	0.00	136,107.00	161,902.00	345,120.00	0.00	0.00	-743,177.00	0.00	0.00	643,129.00
July	4.50	2.92	3.96	16,010.00	324,724.00	1,125,590.00	3,337,590.00	1,244,200.00	0.00	-1,507,296.03	0.00	0.00	6,048,114.00
August	2.87	2.12	2.58	0.00	35,191.00	89,480.00	78,860.00	0.00	0.00	-1,979,635.00	0.00	0.00	203,531.00
September	5.64	3.60	4.77	6,830.00	213,837.00	811,670.00	2,774,940.00	1,225,170.00	0.00	-1,632,308.00	0.00	0.00	5,032,447.00
October	6.40	4.33	4.91	142,650.00	353,656.00	1,457,530.00	4,705,750.00	2,232,760.00	0.00	-1,034,503.00	181,456.00	0.00	9,073,802.00
November	0.91	0.95	0.82	0.00	0.00	0.00	0.00	0.00	0.00	-134,289.00	0.00	0.00	0.00
December	0.00	0.00	5.51	0.00	122,970.00	572,294.00	1,221,380.00	26,047.00	0.00	-143,196.00	0.00	0.00	1,942,691.00
Total	39.90	32.54	39.41	165,490.00	1,205,032.00	4,713,925.00	13,713,000.00	5,046,497.00	0.00	-8,977,000.27	181,456.00	0.00	25,025,400.00

APPENDIX III

City of Cambridge Monthly Combined Sewer Overflow Inspection Form

	CAM 001	CAM 002A/B	CAM 401B	CAM 400	CAM 004	CAM 401A	CAM 005	CAM 007*	CAM 009	CAM 011	CAM 017
Event Year 2012 January	FOCH ST. @ ALEWIFE ALEWIFE BROOK	MASS AVE. @ ALEWIFE ALEWIFE BROOK	COLUMBUS @ MASS AVE. ALEWIFE BROOK	HARRISON ST. @ ALEWIFE ALEWIFE BROOK	CONCORD AVE. @ ROTARY ALEWIFE BROOK	SHERMAN ST. ALEWIFE BROOK	LOWELL ST. & MT AUBURN ST. CHARLES RIVER	HAWTHORNE ST. @ MEMORIAL DR. CHARLES RIVER	OLD MURRAY ST. @ MEMORIAL DR. CHARLES RIVER	PLYMPTON ST. @ MEMORIAL DR. CHARLES RIVER	EDWIN LAND BLVD. @ BINNEY ST. CHARLES RIVER
Date of Inspection	1/30/2012	1/30/2012	1/30/2012		1/30/2012	1/30/2012	1/30/2012	1/30/2012			1/30/2012
Is CSO Operating Satisfactorily (Yes or No)	Yes	Yes	Yes	Closed	Yes	Yes	Yes	Yes	Closed	Closed	Yes
If No, What was the problem							Outfall pipe needs to be cleaned of sediment				
Date of maintenance to fix problem											
Was problem corrected (Yes or No)											
Is Weir Wall present (Yes or No)	Yes	Yes	Yes	NO	Yes	Yes	Yes	Yes			Yes
Condition of Weir Wall (Good, Fair, or Poor)	Good	Good	Good		Good	Good	Good	Good			Good
Material of Weir Wall (Wood, Concrete, or Metal)	Brick	Stainless Steel	Concrete		Wood	Stainless Steel	Wood	Concrete			Concrete and Plywood
Is CSO sign present (Yes or No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes
Is CSO meter present (Yes or No)	No	Yes	Yes		Yes	Yes	Yes	Yes			Yes
Is meter operating Properly (Yes or No)	See note below	Yes	Yes		Yes	Yes	Yes	Yes			Yes
Does meter need maintenance (Yes or No)		No	No		No	No	No	No			No
If Yes, what type of maintenance is needed											
Date of maintenance to fix problem											

CAM001 Meter has been temporarily removed due to construction at the regulator

