



**Greater New Haven Water Pollution Control Authority**

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June 28, 2013

Mr. George V. Hicks  
Sanitary Engineer  
Municipal Facilities Section, Water Management Bureau  
Department of Environmental Protection  
79 Elm Street  
Hartford, CT 06106-5127

Subject: GNHWPCA Annual Progress Report  
Consent Order WC5509

Dear Mr. Hicks:

Per Section B6 of the Consent Order WC5509, the Authority has assembled this letter and informational attachments to fulfill the requirement of an annual "progress report" which describes the actions the Authority has taken to comply with the Consent Order.

New to this year's Annual Progress Report is the GNHWPCA's first Annual CSO Flow Monitoring Program Data included as **Attachment "E"**.

Please find the following attachments as summary of our progress:

**Attachment "A"** is an updated version of the CSO LTCP Table to be used in both the "Annual Progress Report" and "5-yr Update to the LTCP." The general format of this table was approved by DEEP on 9/14/11. We have updated the "2013 Status" column to reflect all relevant project information and notes.

**Attachment "B"** is a listing of Approval / Denial letters the Authority has received from the DEEP between July 1, 2012 and the date of this letter. In summary the following CWF projects obtained approval:

1. Yale/Trumbull Phase 2 Study
2. Yale/Trumbull Phase 2 Preliminary Design
3. Yale/Trumbull Phase 2 Environmental Justice PP
4. Wet Weather / Nitrogen Phase 1 – Design Amendment No. 1
5. Wet Weather / Nitrogen Phase 1 – Approval to Advertise
6. Yale/Trumbull Phase 2 Preliminary Design
7. I/I Hamden and East Haven – Approval to Advertise

**Attachment "C"** is a listing of emails between DEEP and the Authority from July 1, 2012 to the time of this letter. The emails are limited to those which include a transmission of

documents or critical information relevant to the consent order and/or moving projects to construction through the CWF program.

**Attachment "D"** is a listing of GNHWPCA letter transmissions to the DEEP between July 1, 2012 and the date of this letter.

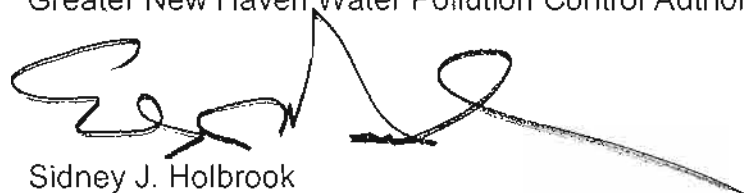
Attachments C and D are not intended to be comprehensive listings of all correspondence between GNHWPCA and DEEP. Rather they are those communications that contain material and substantive information on the relative subjects.

**Attachment "E"** includes calibrated flow monitoring results obtained from all Permitted CSO outfalls between June 8, 2012 and April 30, 2013. Monitoring was installed throughout the course of the entire year; therefore, some outfalls have more "meter months" than others. An updated CSO Map has also been included as part of this attachment.

I have personally examined and am familiar with the information submitted in these documents and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachment may be punishable as a criminal offense.

Sincerely,

Greater New Haven Water Pollution Control Authority

A handwritten signature in black ink, appearing to read 'Sidney J. Holbrook', with a long horizontal flourish extending to the right.

Sidney J. Holbrook

Executive Director

cc: Gabe Varca, Director of Finance and Administration  
Gary Zrelak, Director of Operations  
Thomas V. Sgroi, P.E., Director of Engineering

Enc.

# **ATTACHMENT A**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO LONG TERM CONTROL PLAN ANNUAL STATUS REPORT  
 June 30, 2013

1997 EXISTING CONDITIONS MODEL

2007 MODEL UPDATE

2013 STATUS

FACILITIES PLAN &  
 LONG TERM CONTROL PLAN GOAL

NPDES PERMIT CSO REFERENCE NO.	NO. OF CSO OUTFALLS	NO. OF CSO REGULATOR LOCATIONS	CSO REGULATOR LOCATION	CSO RECEIVING WATER	1997 CSO REGULATOR STATUS	1997 EXISTING CONDITIONS MODEL 2-YEAR DESIGN STORM CSO VOLUME (MG)
CSO 001	1	1	East Shore WPAF	New Haven Harbor	Active	
CSO 002	2	2	E.T.G. Boulevard @ Lambertson Street	West River	Active	1.1
CSO 003	3	3	E.T.G. Boulevard @ Orange Avenue	West River	Active	4.3
CSO 004	4	4	E.T.G. Boulevard @ Legion Avenue	West River	Active	6.1
CSO 005	5	5	E.T.G. Boulevard @ Derby Avenue	West River	Active	5.0
CSO 005 (A)	5	6	University Place		Active	Discharges to CSO 005 outfall
CSO 005 (B)	5	7	Elm / University Place		Active	Discharges to CSO 005 outfall
CSO 006	6	8	Whalley Avenue @ Fitch Street	West River	Active	4.6
CSO 007	7	9	Munson Street @ Canal Street	Mill River	Closed	0.0
CSO 008	8	10	Munson Street @ Orchard Street	Beaver Ponds	Active	0.2
CSO 009	9	11	Grand Avenue @ James Street	Mill River	Active	2.8
CSO 010	10	12	East Street @ I-91	Mill River	Active	0.7
CSO 010 (A)	10	13	East Street @ I-91	Mill River	Active	0.7
CSO 011	11	14	Humphrey Street @ I-91	Mill River	Active	9.9
CSO 012	12	15	Mitchell Drive east of Nicoll Street	Mill River	Active	2.7
CSO 013	13	16	Everitt Street @ East Rock Road	Mill River	Active	0.8
CSO 013 (A)	13	17	East Rock Road @ Everitt Street		Active	Discharges to CSO 013 outfall
CSO 014	14	18	Trumbull Street @ Orange Street	Mill River	Active	0.9
CSO 015	15	19	James Street Siphon	Quinnipiac River	Active	4.6
CSO 016	16	20	Poplar Street @ River Street	Quinnipiac River	Active	1.7
CSO 017	17	21	Grand Avenue @ Front Street	Quinnipiac River	Closed	0.0
CSO 018	18	22	Lombard Street @ North Front Street	Quinnipiac River	Active	1.7
CSO 019	19	23	Pine Street @ North Front Street	Quinnipiac River	Active	1.5
CSO 020	20	24	Quinnipiac Avenue @ Clifton Street	Quinnipiac River	Active	0.2
CSO 021	21	25	East Street Pump Station	New Haven Harbor	Active	5.4
CSO 021 (A)	21	26	Chapel / Hamilton	New Haven Harbor	Active	Discharges to CSO 021 outfall
CSO 022	22	27	Allen Place	New Haven Harbor	Active	No model data
CSO 023	23	28	Chestnut Street @ Water Street	New Haven Harbor	Closed	0.0
CSO 024	24	29	Boulevard Pump Station	New Haven Harbor	Active	3.5
CSO 025	25	30	Union Pump Station	New Haven Harbor	Active	4.2
CSO 025 (A)	25	31	Elm / University Place	New Haven Harbor	Active	Discharges to CSO 025 outfall
CSO 025 (B)	25	32	Grove / Whitney	New Haven Harbor	Active	Discharges to CSO 025 outfall
CSO 026	26	33	Humphrey Pump Station	Mill River	Active	0.1
CSO 027	27	34	East / Ives	Mill River	Active	0.7
CSO 028	28	35	Mitchell Pump Station	Mill River	Active	0.0
CSO 029	29	36	Barnes Pump Station	Quinnipiac River	Active	0.3
CSO 030	30	37	Quinnipiac Pump Station	Quinnipiac River	Active	No model data
CSO 031	31	38	South Frontage / Davenport	New Haven Harbor	Active	No model data
CSO 032	32	39	Port Sea / Liberty	New Haven Harbor	Active	No model data
CSO 033	33	40	Carlisle / Liberty	New Haven Harbor	Active	No model data
CSO 034	34	41	George / Temple	New Haven Harbor	Active	1.0
CSO 035	35	42	Woodward Pump Station	New Haven Harbor	Active	0.1
(not assigned)	36	43	Greene Street	New Haven Harbor	Active	No model data
N/A	37	44	Middletown / Front	Quinnipiac River	Closed	0.0
N/A	38	45	State / James	Mill River	Closed	0.0
CSO VOLUME (MG)						64.8
CSO VOLUME REDUCTION (%)						0%
NUMBER OF ACTIVE CSO REGULATORS					40	
NUMBER OF INACTIVE / CLOSED CSO REGULATORS					5	
NUMBER OF ACTIVE CSO OUTFALLS					33	
NUMBER OF INACTIVE / CLOSED CSO OUTFALLS					5	

CSO LTCP CAPITAL IMPROVEMENTS 1997-2007	2007 CSO REGULATOR STATUS	2007 EXISTING CONDITIONS MODEL 2-YEAR DESIGN STORM CSO VOLUME (MG)	REDUCTION 1997-2007 CSO VOLUME (MG)
	Active		
Truman Tank	Closed	0.0	1.1
Truman Tank	Active	3.1	1.2
	Active	6.1	0.0
	Active	4.8	0.2
	Active	Discharges to CSO 005 outfall	
	Active	Discharges to CSO 005 outfall	
	Active	5.1	-0.5
	Closed	0.0	0.0
	Active	0.2	0.0
	Active	2.5	0.3
Sewer Separation	Active	0.3	0.4
	Active	0.6	0.1
Sewer Separation	Active	7.4	2.5
Sewer Separation	Active	1.5	1.2
Sewer Separation	Active	0.1	0.7
	Active	Discharges to CSO 013 outfall	
	Active	1.0	-0.1
	Active	1.7	2.9
	Active	3.8	-2.1
	Closed	0.0	0.0
Sewer Separation	Closed	0.0	1.7
Sewer Separation	Active	1.3	0.2
	Active	0.6	-0.4
Sewer Separation	Active	5.0	0.4
Sewer Separation	Closed	0.0	0.0
Sewer Separation	Closed	0.0	0.0
Truman Tank	Active	0.6	2.9
Sewer Separation	Active	2.5	1.7
	Active	Discharges to CSO 025 outfall	
Sewer Separation	Closed	0.0	0.0
Sewer Separation	Active	0.0	0.1
	Active	0.5	0.2
	Active	0.0	0.0
Pump Station Upgrade	Closed	0.0	0.3
Pump Station Upgrade	Closed	0.0	0.0
Sewer Separation	Active	0.9	No model data
	Active	0.0	No model data
	Active	0.0	No model data
	Active	0.0	No model data
	Active	0.9	0.1
	Active	0.1	0.0
	Active	0.0	No model data
	Closed	0.0	0.0
	Closed	0.0	0.0

NPDES PERMIT CSO REFERENCE NO.	PROPOSED NPDES PERMIT CSO REF. NO.	CSO LTCP CAPITAL IMPROVEMENTS & NOTES 2007-2013	2013 CSO REGULATOR STATUS
CSO 001	CSO 001		Active
CSO 002			Closed
CSO 003	CSO 003		Active
CSO 004	CSO 004		Active
CSO 005	CSO 005		Active
CSO 005 (A)			Closed
CSO 005 (B)			Closed
CSO 006	CSO 006		Active
CSO 007			Closed
CSO 008		Scheduled for Closure	Close (2013)
CSO 009	CSO 009	2013 Project in Progress Included in Closure Sewer Separation Program	Active
CSO 010			Close (2013)
CSO 010 (A)	R 010 (A)	Sewer Separation in Progress Discharges to CSO 011	Active
CSO 011	CSO 011	Sewer Separation in Progress	Active
CSO 012	CSO 012		Active
CSO 013	CSO 013		Active
CSO 013 (A)			Closed
CSO 014	R 014	Scheduled for Closure Sewer Separation in Progress Discharges to CSO 015	Close (2013)
CSO 015	CSO 015	2013 Project in Progress Tide Gate 2013	Active
CSO 016	CSO 016	Tide Gate 2010	Active
CSO 017			Closed
CSO 018			Closed
CSO 019	CSO 019		Active
CSO 020	CSO 020		Active
CSO 021	CSO 021	Sewer Separation in Progress, Tide Gate 2013	Active
CSO 021 (A)			Closed
CSO 022			Closed
CSO 023			Closed
CSO 024	CSO 024	Tide Gate 2010	Active
CSO 025	CSO 025		Active
CSO 025 (A)			Closed
CSO 025 (B)			Closed
CSO 026	R 026	Discharges to CSO 011	Active
CSO 027		Closed CSO	Closed
CSO 028	R 028	Discharge to CSO 012	Active
CSO 029			Closed
CSO 030			Closed
CSO 031		Closed CSO	Closed
CSO 032	R 032	Scheduled for Closure	Close (2013)
CSO 033		Closed CSO	Closed
CSO 034	R 034	Discharge to CSO 025	Active
CSO 035		Closed CSO	Closed
(not assigned)	CSO GREENE		Active
N/A			Closed
N/A			Closed

2011 CSO LTCP PROPOSED CAPITAL IMPROVEMENTS	2011 CSO LTCP FINAL CSO STATUS	2011 CSO LTCP FUTURE CONDITIONS MODEL 2-YEAR DESIGN STORM CSO VOLUME (MG)
Wet Weather Improvements	Active w/ Treatment	
	Closed	0.0
CSO Storage Tank	Inactive	0.0
CSO Storage Tank	Inactive	0.0
CSO Storage Tank	Inactive	0.0
Discharges to CSO 005 Storage Tank	Inactive	0.0
Discharges to CSO 005 Storage Tank	Inactive	0.0
CSO Storage Tank	Inactive	0.0
CSO Storage Tank	Closed	0.0
Monitoring Program	Active	0.1
Sewer Separation and Roof Leader Disconnection	Inactive	0.0
Monitoring Program	Active	0.3
Monitoring Program		
CSO Storage Tank	Active	0.5
CSO Storage Tank	Inactive	0.0
CSO Storage Tank	Inactive	0.0
Monitoring Program	Inactive	0.0
Discharges to CSO 013 outfall	Inactive	0.0
Sewer Separation / Monitoring Program		
	Inactive	0.0
Sewer Separation and Roof Leader Disconnection	Inactive	0.0
Sewer Separation and Roof Leader Disconnection	Inactive	0.0
	Closed	0.0
	Closed	0.0
Sewer Separation and Roof Leader Disconnection	Inactive	0.0
Monitoring Program	Closed	0.0
Major Pump Station Upgrade / Monitoring Program	Active	0.2
	Closed	0.0
	Closed	0.0
	Closed	0.0
Major Pump Station Upgrade	Inactive	0.0
Major Pump Station Upgrade / Monitoring Program	Inactive	0.2
Monitoring Program	Inactive	0.0
Monitoring Program	Closed	0.0
Close CSO	Closed	0.0
Close CSO	Closed	0.0
Monitoring Program	Active	0.8
Close CSO	Closed	0.0
Monitoring Program	Closed	0.0
	Closed	0.0
	Closed	0.0

**LEGEND/NOTES**

1 DENOTES CSO OUTFALL CURRENTLY INACTIVE/CLOSED

2 DATA OBTAINED FROM 2001 LTCP

3 DATA OBTAINED FROM 2011 FACILITIES PLAN

IT IS PROPOSED THAT THE REMAINING 2.1MG OF CSO VOLUME WOULD EITHER BE CAPTURED BY A TANK(S) OR ELIMINATED THROUGH SEPARATION TYPE PROJECT WITHIN EACH RESPECTIVE SEWERSHED. THE FACILITIES PLAN ASSUMES THAT THERE WILL BE BETTER INFORMATION AT THE TIME WE VISIT EACH SEWERSHED AND THAT A COST BENEFIT DETERMINATION WITH THEN BE MADE TO REACH THE GOAL OF ZERO OVERFLOWS DURING A 2-YEAR EVENT. FURTHER CLARIFICATION OF THIS APPROACH CAN BE FOUND IN THE THE LETTER FROM THE AUTHORITY TO DEEP'S GEORGE V. HICKS DATED JUNE 21, 2011 REGARDING THE GHNWPCA LONG TERM CONTROL PLAN UPDATE.

**DEFINITIONS**

ACTIVE	ACTIVE CSO DURING A 2-YEAR STORM FREQUENCY, SEE NOTE NO. 3
INACTIVE	INACTIVE CSO DURING STORM FREQUENCIES BELOW 2-YEARS
CLOSED	CLOSED - BULKHEADED CSO, CLOSED FOR ALL STORMS

# ATTACHMENT B



# ATTACHMENT C





# ATTACHMENT D



FY 2013 GNHWPCA LETTER CORRESPONDENCE					
DATE	DOCUMENT TYPE	CWF #	PROJECT	TO	FROM
05/30/12	Letter	CWF 441-D	WW Nitrogen Phase 1 - Env Justice Program Plan Submittal	Edith Pestana	T.Sgroi, PE
06/26/12	Transmittal	CWF 581C2	James Street Tide Gate NTP	I.Hall, PE	M.Ricozzi, PE
08/20/12	Transmittal	CWF 581C2	Yale/Trumbull Phase 1A - Change Order No. 1	I.Hall, PE	M.Ricozzi, PE
09/17/12	Transmittal	CWF 629 & 211	I/I Phase 1 Study Woodbridge and Design State St and Area 10	I.Hall, PE	M.Ricozzi, PE
12/28/12	Transmittal	CO WC5509	GNHWPCA Two Year Bid Schedule	G.Hicks, PE	S.Holbrook
01/07/13	Letter	CWF 441D	WW Nitrogen Phase 1 - Proprietary Equipment Request	S.Muollo	Sgroi & Zrelak
01/10/13	Letter	USEPA RFI	CSO Flow Monitoring Plan Status Report	Neil Handler	S.Holbrook
02/08/13	Letter	USEPA RFI	Follow-up Letter from EPA Meeting	Neil Handler	S.Holbrook
02/14/13	Transmittal	CWF 441D	WW Nitrogen Phase 1 - VE Study #2	S.Muollo	M.Ricozzi, PE
03/13/13	Letter Trans	USEPA RFI	CSO Flow Monitoring Reports	Handler/Hicks	S.Holbrook
04/15/13	Transmittal	CWF-TBD	I/I State St Hamden & Area 10 East Haven Authorization to Bid	I.Hall, PE	M.Ricozzi, PE
04/16/13	Transmittal	CWF-441D	WW Nitrogen Phase 1 - Various Bid Documents	S.Muollo	M.Ricozzi, PE
05/03/13	Transmittal	CWF-441C	WW Nitrogen Phase 1 - Volumes 1 through 5 of Plans and Specs	S.Muollo	M.Ricozzi, PE
05/13/13	Transmittal	CWF-581C2	Replacement of Tide Gate at East St - Change Order No. 2	I.Hall, PE	M.Ricozzi, PE
05/16/13	Transmittal	CWF-TBD	I/I State St Hamden & Area 10 East Haven Rev. Plans and Specs	I.Hall, PE	M.Ricozzi, PE
05/24/13	Transmittal	CWF-441C	WW Nitrogen Phase 1 - Addendum No. 1	S.Muollo	M.Ricozzi, PE
06/17/13	Transmittal	CWF-441C	WW Nitrogen Phase 1 - Addendum No. 2 and 3	S.Muollo	M.Ricozzi, PE

# **ATTACHMENT E**

**GREATER NEW HAVEN  
WATER POLLUTION CONTROL AUTHORITY**



**JUNE 2013  
ANNUAL CSO FLOW MONITORING  
PROGRAM DATA**

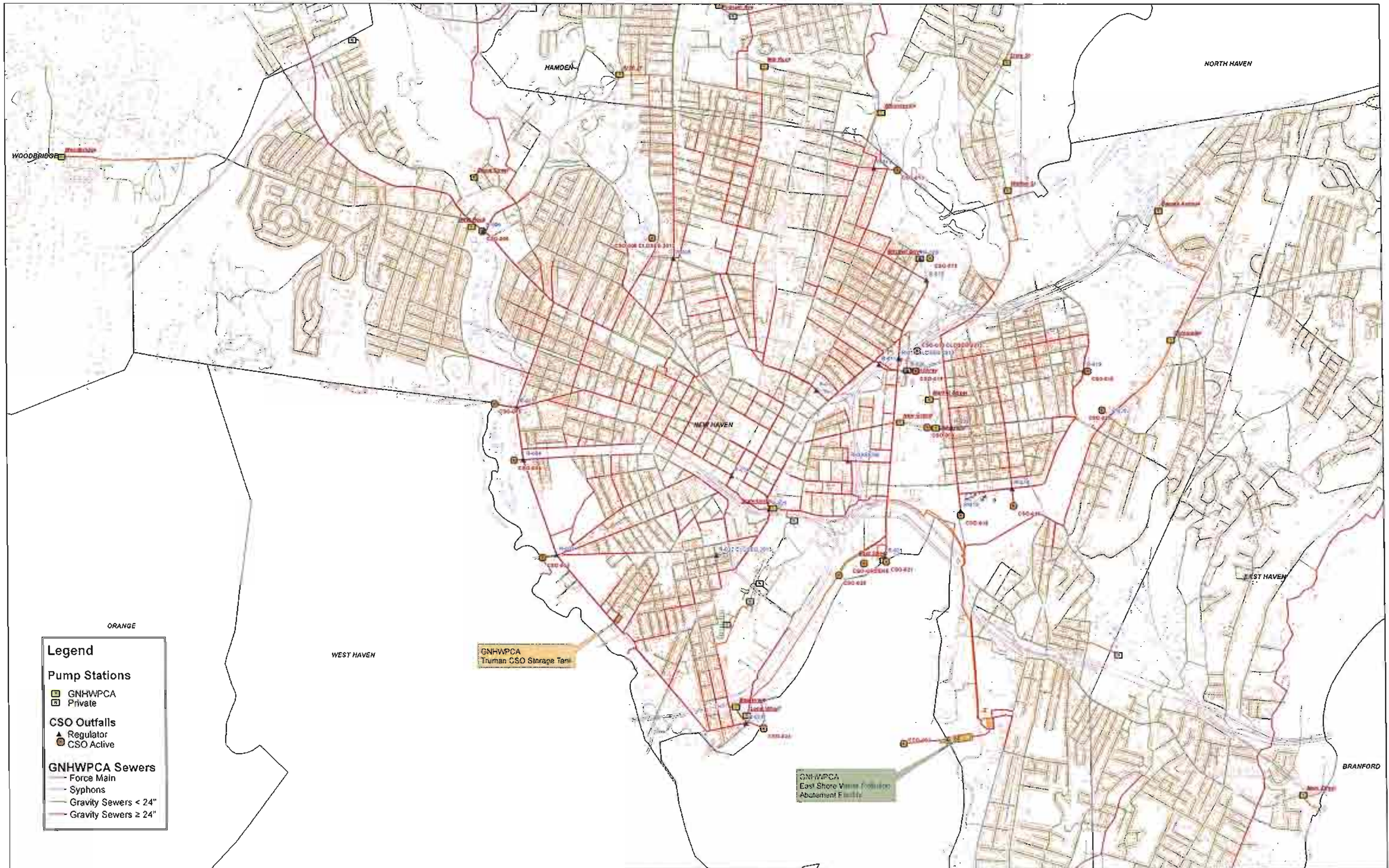
ATTACHMENT "E"

JUNE 2013  
ANNUAL CSO FLOW MONITORING PROGRAM DATA

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**GNHWPCA  
COMBINED SEWER OVERFLOW (CSO) AND REGULATOR (R) LOCATIONS**



**MONITORING  
STATUS REPORT  
JUNE 2013**

GREATER NEW HAVEN WPCA  
CSO FLOW MONITORING PLAN  
STATUS REPORT  
6/12/2013

CSO NUMBER	REGULATOR NUMBERS	CS/SCADA METER DESIGNATION	CS/SCADA METER LOCATION	CS/SCADA METER DATA	DATE INSTALLED	CALIBRATION PERIOD COMPLETED
<b>BOULEVARD PUMP STATION TRIBUTARY AREA</b>						
CSO 008	REG 008	NHRG	Boulevard PS	Total rainfall in 5 min increments.	Jun-12	Aug-12
CSO 006	REG 006	OF-006 Overflow AA	In one of two 24 inch overflow pipes	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
	REG 006	OF-006 Overflow BB OF-006 Sewer	In one of two 24 inch overflow pipes In 36 inch sewer upstream of twin 24 inch overflow pipes	depth and velocity in 5 min increments during overflows depth and velocity in 5 min increments	Aug-12 Jun-12	Oct-12 Aug-12
CSO 005	REG 005	OF-005 Overflow OF-005 Sewer	In 48 inch overflow pipe In 60 inch wide by 57 inch high sewer at REG 005	depth and velocity in 5 min increments during overflows depth and velocity in 5 min increments	Jun-12 Jun-12	Oct-12 Oct-12
	REG 004	OF-004 Overflow OF-004 Sewer	In 3 foot high by 5 foot wide overflow box culvert In 72 inch wide by 64 inch high sewer downstream of REG 004	depth and velocity in 5 min increments during overflows depth and velocity in 5 min increments	Jun-12 Jun-12	Aug-12 Aug-12
CSO 003	REG 003	OF-003 Overflow OF-003 Sewer	In 54 inch overflow pipe In 72 inch wide by 64 inch high sewer downstream of REG 003	depth and velocity in 5 min increments during overflows depth and velocity in 5 min increments	Jun-12 Jun-12	Aug-12 Aug-12
		GINH 1 Truman Tank SCADA Data	In 72 inch wide by 64 inch high sewer downstream of Truman Tank diversion chamber In cell 1 and cell 2 of Truman Tank.	depth and velocity in 5 min increments Depth in cell 1 and cell 2 of Truman Tank in 5 min increments	Jun-12 Jun-12	Aug-12 Jun-12
CSO 024	REG 024	OF-024 US OF-024 OS OF-024 weir BPS SCADA Data BPS SCADA Data	In 84 inch wide by 69 inch high sewer upstream of REG 024 In 48 inch sewer downstream of REG 024 In REG 024 In wetwell 1 and wetwell 2 of Boulevard PS Magmeters on each of four pump discharges (uncalibrated)	depth and velocity in 5 min increments depth and velocity in 5 min increments depth at the overflow weir in 5 min increments depth in wetwell 1 and wetwell 2 of BPS in 5 min increments sum of flow from four magmeters in 5 min increments	Aug-12 Aug-12 Dec-12 Jun-12 Jun-12	Jan-13 Jan-13 Dec-12 Jun-12 Jun-12
5 CSOs	5 Regulators	12 Meters				
<b>UNION PUMP STATION TRIBUTARY AREA</b>						
CSO 025	REG 024	Regulator 034 Sewer	In 48 inch sewer at REG 024	depth and velocity in 5 min increments	Mar-13	Apr-13
	REG 034	Regulator 034 Sewer	In REG 034	depth and velocity in 5 min increments during overflows	Mar-13	Apr-13
	REG 025 REG 032	OF-025	In REG 025	depth and velocity in 5 min increments during overflows	Dec-12	Jan-13
1 CSO	2 Regulators	2 Meters				
<b>EAST STREET PUMP STATION TRIBUTARY AREA, INCLUDES UNION PUMP STATION TRIBUTARY AREA</b>						
CSO 013	REG 013	OF-013 Sewer	In 37 inch wide by 25 inch high sewer at REG 013	depth and velocity in 5 min increments	Mar-13	Apr-13
	REG 013	OF-013 weir	In REG 013	depth and velocity in 5 min increments during overflows	Mar-13	Apr-13
CSO 012	REG 012	OF-012 A	In one of two 18 inch overflow pipes	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
	REG 012	OF-012 B	In one of two 18 inch overflow pipes	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
	REG 028	MPS SCADA Data	In wetwell of Mitchell Drive PS	depth in wetwell of MPS in 5 min increments	Aug-12	Aug-12
CSO 010	REG 010	OF-010	In 54 inch sewer at REG 010 and REG 010 A	depth and velocity in 5 min increments	Dec-12	Jan-13
CSO 011	REG 010 A	OF-010 A	In 54 inch sewer at REG 010 and REG 010 A	depth and velocity in 5 min increments	Dec-12	Jan-13
	REG 014 REG 014	OF-014 Sewer OF-014 Overflow	In 66 inch sewer at REG 014 In REG 014	depth and velocity in 5 min increments depth at the overflow weir in 5 min increments	Dec-12 Dec-12	Jan-13 Jan-13



GREATER NEW HAVEN WPCA  
CSO FLOW MONITORING PLAN  
STATUS REPORT  
6/12/2013

CSO NUMBER	REGULATOR NUMBERS	CSU/SCADA METER DESIGNATION	CSU/SCADA METER LOCATION	CSU/SCADA METER DATA	DATE INSTALLED	CALIBRATION PERIOD COMPLETED
	REG 011	OF-011-997 OF-011-009 OF-011-631 OF-011-819 HPS SCADA Data	In 30 inch sewer on State Street upstream of REG 011 In 37 inch wide by 25 inch high sewer on Humphrey Street upstream of REG 011 In 66 inch sewer on State Street upstream of REG 011 In 42 inch sewer on Humphrey Street downstream of REG 011 In westwell of Humphrey Street PS	depth and velocity in 5 min increments depth and velocity in 5 min increments depth and velocity in 5 min increments depth and velocity in 5 min increments depth in westwell of HPS in 5 min increments	Dec-12 Dec-12 Dec-12 Dec-12 Jun-12	Jan-13 Jan-13 Jan-13 Jan-13 Jun-12
CSO GREENE	REG GREENE	OF-Greene	In 54 inch overflow pipe	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
CSO 021	REG 021	E St PS Sewer OF-021	In 62 inch wide by 67 inch high sewer upstream of REG 021 In REG 021	depth and velocity in 5 min increments depth at the overflow weir in 5 min increments	Nov-12 Sep-12	Dec-12 Oct-12
6 CSOs	10 Regulators	12 Meters				
			<b>JAMES STREET SIPHON TRIBUTARY AREA</b>			
CSO 009	REG 009	OF-009	In 30 inch wide by 45 inch high overflow pipe	depth and velocity in 5 min increments during overflows	Oct-12	Jan-13
CSO 019	REG 019	OF-019	In 24 inch overflow pipe	depth and velocity in 5 min increments during overflows	Aug-12	Nov-12
CSO 016	REG 016	OF-016	In 60 inch wide by 48 inch high overflow pipe	depth and velocity in 5 min increments during overflows	Sep-12	Nov-12
CSO 015	REG 015	OF-015 US OF-015 DS	In 45 inch sewer upstream of REG 015 In 48 inch sewer downstream of REG 015	depth and velocity in 5 min increments depth and velocity in 5 min increments	Oct-12 Oct-12	Jan-13 Jan-13
4 CSOs	4 Regulators	5 Meters				
			<b>ESWPAE TRIBUTARY AREA</b>			
CSO 020	REG 020 REG 020	OF-020 OF-020	In 24 inch sewer at REG 020 In REG 020	depth and velocity in 5 min increments depth at the overflow pipe in 5 min increments	Mar-13 Mar-13	Apr-13 Apr-13
1 CSO	1 Regulator	1 Meter				
		TOTALS				
17 CSOs	22 Regulators	32 Meters				

# **METER DATA SUMMARY**

**JUNE 2012 – APRIL 2013**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - THROUGH APRIL 2013

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>	<u>RAINFALL (IN)</u>	<u>METER MONTHS</u>
CSO 006	REGS 006 A, 006 B	12	5.194	34.87	11
CSO 005	REG 005	31	4.449	34.87	11
CSO 004	REG 004	38	20.606	34.87	11
CSO 003	REG 003	25	13.657	34.87	11
CSO 024	REG 024	9	14.165	29.27	9
CSO 009	REG 009	9	0.683	17.53	7
CSO 019	REG 019	4	0.199	29.27	9
CSO 016	REG 016	17	11.778	23.60	8
CSO 015	REG 015	6	1.224	17.53	7
CSO 010	REG 010	7	0.728	23.60	8
CSO 011	REGS 010A, 011, 014, 026	2	0.555	13.16	5
CSO 012	REGS 012A, 012B, 028	21	10.056	29.27	9
CSO GREENE	REG GREENE	3	0.111	29.27	9
CSO 025	REGS 025, 034	5	4.042	13.16	5
CSO 021	REG 021	8	8.742	14.16	6
CSO 013	REG 013	0	0.000	3.94	2
CSO 020	REG 020	0	0.000	3.94	2
TOTAL		197	96.189	34.87	11

**APRIL 2013**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - APRIL 2013

MONTHLY RAINFALL SUMMARY

1.26 inches of rain (3.44 inches of rain in a typical month)  
 no snow  
 5 rain events (10 rain events in a typical month)  
 All storms less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	0	0.000
CSO 005	REG 005	3	0.167
CSO 004	REG 004	2	0.269
CSO 003	REG 003	1	0.259
CSO 024	REG 024	0	0.000
CSO 009	REG 009	1	0.119
CSO 019	REG 019	0	0.000
CSO 016	REG 016	1	0.028
CSO 015	REG 015	1	0.003
CSO 010	REG 010	0	0.000
CSO 011	REGS 010A, 011, 014, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	1	0.016
CSO GREENE	REG GREENE	0	0.000
CSO 025	REGS 025, 034	1	1.496
CSO 021	REG 021	1	0.149
CSO 013	REG 013	0	0.000
CSO 020	REG 020	0	0.000
TOTAL		12	2.506

(22 CSO events in a typical month)      (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 003  
 NPDES Permit Outfall #: April YEAR: 2013  
 MONTH: April YEAR: 2013  
 Average Low Temp: 41  
 Average High Temp: 59  
 Measured Rainfall: 1.26  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/2013	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***	4/12/2013	11:05	16:35	5.50	1.132	0.259
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/2013	23:55	6:40	6.75	0.29	***						
TOTAL MONTH												
FLOW VOLUME =											0.259	

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***	4/10/2013	20:15	21:20	1.08	1.080	0.049
5	4/10/2013 - 4/11/2013	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***	4/12/2013	10:55	17:05	6.17	0.857	0.220
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/2013	23:55	6:40	6.75	0.29	***						

TOTAL MONTH FLOW VOLUME = 0.269

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Q. avg (MGD)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***	4/10/2013	3:40	4:10	0.50	0.236	0.005
5	4/10/2013 - 4/11/2013	19:40	2:05	6.42	0.20	***	4/10/2013	19:50	21:05	1.25	0.282	0.015
6	4/12/2013	9:40	16:30	6.83	0.62	***	4/12/2013	9:55	16:55	7.00	0.441	0.129
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/2013	23:55	6:40	6.75	0.29	***	4/20/2013	2:05	7:05	5.00	0.087	0.018
										TOTAL MONTH		
										FLOW VOLUME =	0.167	

Note: Overflow occurs when Interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      Whalley Ave. 30 yds from Fitch Street  
 LOCATION:                              006  
 NPDES Permit Outfall #:              April YEAR:                      2013  
 MONTH:                                      41  
 Average Low Temp:                      59  
 Average High Temp:                      1.26  
 Measured Rainfall:                      0  
 Measured Snowfall:

EVENT NO.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***					
2	4/1/2013	15:10	15:30	0.33	0.04	***					
3	4/9/2013	7:30	7:35	0.08	0.01	***					
4	4/10/2013	3:30	4:05	0.58	0.06	***					
5	4/10/2013 - 4/11/2013	19:40	2:05	6.42	0.20	***					
6	4/12/2013	9:40	16:30	6.83	0.62	***					
7	4/13/2013	1:50	2:10	0.33	0.03	***					
8	4/19/2013 - 4/20/2013	23:55	6:40	6.75	0.29	***					

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Grand Avenue & James Street  
 009

NPDES Permit Outfall #: April YEAR: 2013  
 MONTH: 41  
 Average Low Temp: 59  
 Average High Temp: 1.26  
 Measured Rainfall: 0  
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***	4/12/2013	10:45	16:45	6.00	0.474	0.119
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***						

TOTAL MONTH FLOW VOLUME = 0.119

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street

LOCATION: 010

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***					
2	4/1/2013	15:10	15:30	0.33	0.04	***					
3	4/9/2013	7:30	7:35	0.08	0.01	***					
4	4/10/2013	3:30	4:05	0.58	0.06	***					
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***					
6	4/12/2013	9:40	16:30	6.83	0.62	***					
7	4/13/2013	1:50	2:10	0.33	0.03	***					
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***					

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when sewer level reaches S7"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                    547 East Street  
 LOCATION:                            010A  
 NPDES Permit Outfall #:  
 MONTH:                                April YEAR:                    2013  
 Average Low Temp:                    41  
 Average High Temp:                    59  
 Measured Rainfall:                    1.26  
 Measured Snowfall:                    0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***					
2	4/1/2013	15:10	15:30	0.33	0.04	***					
3	4/9/2013	7:30	7:35	0.08	0.01	***					
4	4/10/2013	3:30	4:05	0.58	0.06	***					
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***					
6	4/12/2013	9:40	16:30	6.83	0.62	***					
7	4/13/2013	1:50	2:10	0.33	0.03	***					
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***					
TOTAL MONTH											0
FLOW VOLUME =											0

Note:                    Overflow occurs when sewer level reaches 52"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #: April YEAR: 2013

MONTH: 41

Average Low Temp: 59

Average High Temp: 1.26

Measured Rainfall: 0

Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***						
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***						

TOTAL MONTH FLOW VOLUME = 0

Note: Sum of 10A, 11, and 14

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)		
1	4/1/2013	0:05	1:30	1.42	0.01	***								
2	4/1/2013	15:10	15:30	0.33	0.04	***								
3	4/9/2013	7:30	7:35	0.08	0.01	***								
4	4/10/2013	3:30	4:05	0.58	0.06	***								
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***								
6	4/12/2013	9:40	16:30	6.83	0.62	***			4/12/2013	10:55	16:35	5.67	0.069	0.016
7	4/13/2013	1:50	2:10	0.33	0.03	***								
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***								

TOTAL MONTH FLOW VOLUME = 0.016

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG East Rock & Everit

LOCATION: 013

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***						
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***						

TOTAL MONTH FLOW VOLUME =

0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 30 Trumbull Street

LOCATION: 014

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		
1	4/1/2013	0:05	1:30	1.42	0.01	***					
2	4/1/2013	15:10	15:30	0.33	0.04	***					
3	4/9/2013	7:30	7:35	0.08	0.01	***					
4	4/10/2013	3:30	4:05	0.58	0.06	***					
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***					
6	4/12/2013	9:40	16:30	6.83	0.62	***					
7	4/13/2013	1:50	2:10	0.33	0.03	***					
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***					
TOTAL MONTH										FLOW VOLUME =	0

Note: Overflow occurs when interceptor depth reaches 54"



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street  
 LOCATION: 015

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***	4/12/2013	10:05	11:25	1.33	0.062	0.003
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***						

TOTAL MONTH FLOW VOLUME = 0.003

Note: Overflow can occur with DS sewer depth reaches 40.5"  
 Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. River & Poplar  
 016

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT								CSO EVENT			
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***	4/12/2013	10:45	11:00	0.25	2.728	0.028
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***						
TOTAL MONTH											FLOW VOLUME =	0.028

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street

LOCATION: 019

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***					
2	4/1/2013	15:10	15:30	0.33	0.04	***					
3	4/9/2013	7:30	7:35	0.08	0.01	***					
4	4/10/2013	3:30	4:05	0.58	0.06	***					
5	4/10/2013 - 4/11/2013	19:40	2:05	6.42	0.20	***					
6	4/12/2013	9:40	16:30	6.83	0.62	***					
7	4/13/2013	1:50	2:10	0.33	0.03	***					
8	4/19/2013 - 4/20/2013	23:55	6:40	6.75	0.29	***					
TOTAL MONTH										FLOW VOLUME =	0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quininiac

LOCATION: 020

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***					
2	4/1/2013	15:10	15:30	0.33	0.04	***					
3	4/9/2013	7:30	7:35	0.08	0.01	***					
4	4/10/2013	3:30	4:05	0.58	0.06	***					
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***					
6	4/12/2013	9:40	16:30	6.83	0.62	***					
7	4/13/2013	1:50	2:10	0.33	0.03	***					
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***					
TOTAL MONTH FLOW VOLUME =											0

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      638 Long Wharf Drive  
 LOCATION:                              021  
 NPDES Permit Outfall #:            April YEAR:                      2013  
 MONTH:                                      41  
 Average Low Temp:                      59  
 Average High Temp:                    1.26  
 Measured Rainfall:                      0  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/2013	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***	4/12/2013	11:10	12:00	0.83	4.286	0.149
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/2013	23:55	6:40	6.75	0.29	***						

TOTAL MONTH FLOW VOLUME = 0.149

Note: Meter Installed 11/15/2012

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      Sea Street @ South Water Street  
 LOCATION:                              024  
 NPDES Permit Outfall #:                      April YEAR:                      2013  
 MONTH:    41  
 Average Low Temp:                              59  
 Average High Temp:                              1.26  
 Measured Rainfall:                              0  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***						
6	4/12/2013	9:40	16:30	6.83	0.62	***						
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***						

TOTAL MONTH FLOW VOLUME = 0

Note:                      Overflow occurs when upstream depth reaches approx. 60" or when downstream reaches approx. 76".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street  
 LOCATION: 025  
 NPDES Permit Outfall #: April YEAR: 2013  
 MONTH: 41  
 Average Low Temp: 59  
 Average High Temp: 1.26  
 Measured Rainfall: 0  
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL volume (MG)	
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START			STOP
1	4/1/2013	0:05	1:30	1.42	0.01	***					
2	4/1/2013	15:10	15:30	0.33	0.04	***					
3	4/9/2013	7:30	7:35	0.08	0.01	***					
4	4/10/2013	3:30	4:05	0.58	0.06	***					
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***	4/12/2013	10:50	15:20	4.50	7.977
6	4/12/2013	9:40	16:30	6.83	0.62	***					1.496
7	4/13/2013	1:50	2:10	0.33	0.03	***					
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***					

TOTAL MONTH FLOW VOLUME = 1.496

Note: Overflow occurs when level exceeds 21"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. of Greene Street & Sr. John Connector  
 LOCATION: Greene  
 NPDES Permit Outfall #: April YEAR: 2013  
 MONTH: 41  
 Average Low Temp: 59  
 Average High Temp: 1.26  
 Measured Rainfall: 0  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	4/1/2013	0:05	1:30	1.42	0.01	***					
2	4/1/2013	15:10	15:30	0.33	0.04	***					
3	4/9/2013	7:30	7:35	0.08	0.01	***					
4	4/10/2013	3:30	4:05	0.58	0.06	***					
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***					
6	4/12/2013	9:40	16:30	6.83	0.62	***					
7	4/13/2013	1:50	2:10	0.33	0.03	***					
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***					
TOTAL MONTH											0
FLOW VOLUME =											0

Note: Overflow occurs when Interceptor level reaches pipe height, 72"



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple  
 LOCATION: Regulator 34

NPDES Permit Outfall #:

MONTH: April YEAR: 2013

Average Low Temp: 41

Average High Temp: 59

Measured Rainfall: 1.26

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/1/2013	0:05	1:30	1.42	0.01	***						
2	4/1/2013	15:10	15:30	0.33	0.04	***						
3	4/9/2013	7:30	7:35	0.08	0.01	***						
4	4/10/2013	3:30	4:05	0.58	0.06	***						
5	4/10/2013 - 4/11/20	19:40	2:05	6.42	0.20	***	4/12/2013	9:55	10:10	0.25	0.154	0.002
6	4/12/2013	9:40	16:30	6.83	0.62	***						
7	4/13/2013	1:50	2:10	0.33	0.03	***						
8	4/19/2013 - 4/20/20	23:55	6:40	6.75	0.29	***						
TOTAL MONTH											0.002	
FLOW VOLUME =											0.002	

Note: Overflow occurs when influent level reaches ~15".

**MARCH 2013**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - MARCH 2013

MONTHLY RAINFALL SUMMARY

2.68 inches of rain (3.44 inches of rain in a typical month)

7.5 inches of snow

6 rain events (10 rain events in a typical month)

One 1 month 4 hour storm. All other storms less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	1	0.572
CSO 005	REG 005	1	0.299
CSO 004	REG 004	4	1.221
CSO 003	REG 003	1	1.018
CSO 024	REG 024	0	0.000
CSO 009	REG 009	2	0.138
CSO 019	REG 019	0	0.000
CSO 016	REG 016	1	0.516
CSO 015	REG 015	1	0.174
CSO 010	REG 010	0	0.000
CSO 011	REGS 010A, 011, 014, 026	1	0.143
CSO 012	REGS 012A, 012B, 028	5	6.313
CSO GREENE	REG GREENE	0	0.000
CSO 025	REGS 025, 034	1	0.091
CSO 021	REG 021	2	1.091
CSO 013	REG 013	0	0.000
CSO 020	REG 020	0	0.000
TOTAL		20	11.576

(22 CSO events in a typical month) (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 NPDES Permit Outfall #: 003  
 MONTH: Mar YEAR: 2013  
 Average Low Temp: 33  
 Average High Temp: 46  
 Measured Rainfall: 2.68"  
 Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5:75	0.11	***						
	3/8/2013	14:25	18:40	4:25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13:92	0.82	***	3/12/2013	15:00	19:15	4:25	5.747	1.018
	3/19/2013	5:30	13:55	8:42	0.76	***						
	3/31/2013	21:35	23:40	2:08	0.19	***						
TOTAL MONTH											FLOW VOLUME =	1.018

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 Ella T. Grasso Blvd. - 23 yds North of Legion Ave.  
 LOCATION: 004  
 NPDES Permit Outfall #: Mar YEAR: 2013  
 MONTH: 33  
 Average Low Temp: 33  
 Average High Temp: 46  
 Measured Rainfall: 2.68"  
 Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5:75	0.11	***						
	3/8/2013	14:25	18:40	4:25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13:92	0.82	***						0.131
	3/19/2013	5:30	13:55	8:42	0.76	***						0.944
	3/31/2013	21:35	23:40	2:08	0.19	***						0.120
											TOTAL MONTH	1.221
											FLOW VOLUME =	1.221

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.  
 LOCATION: 005  
 NPDES Permit Outfall #: Mar YEAR: 2013  
 MONTH: 33  
 Average Low Temp: 46  
 Average High Temp:  
 Measured Rainfall: 2.68"  
 Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0.08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***	3/12/2013	8:55	18:35	9.67	0.744	0.299
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
TOTAL MONTH												
FLOW VOLUME =											0.299	

Note: Overflow occurs when Interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yds from Fitch Street  
 LOCATION: 006  
 NPDES Permit Outfall #: Mar YEAR: 2013  
 MONTH: 33  
 Average Low Temp: 46  
 Average High Temp:  
 Measured Rainfall: 2.68"  
 Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5:75	0.11	***						
	3/8/2013	14:25	18:40	4:25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13:92	0.82	***	3/12/13 - 3/14/13	15:25	0:50	33.42	0.411	0.572
	3/19/2013	5:30	13:55	8:42	0.76	***						
	3/31/2013	21:35	23:40	2:08	0.19	***						
											TOTAL MONTH	0.572
											FLOW VOLUME =	0.572

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: Mar YEAR: 2013

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 2.68"

Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***	3/12/2013	14:20	18:50	4.50	0.651	0.122
	3/19/2013	5:30	13:55	8.42	0.76	***	3/19/2013	13:05	14:35	1.50	0.249	0.016
	3/31/2013	21:35	23:40	2.08	0.19	***						

TOTAL MONTH FLOW VOLUME = 0.138

Note:



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      547 East Street  
 LOCATION:                              010  
 NPDES Permit Outfall #:             
 MONTH:                                  Mar YEAR:                      2013  
 Average Low Temp:                    33  
 Average High Temp:                   46  
 Measured Rainfall:                    2.68"  
 Measured Snowfall:                   7.5"                      (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***						
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
											TOTAL MONTH FLOW VOLUME =	0

Note:                      Overflow occurs when sewer level reaches 57"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: 547 East Street  
 010A  
 NPDES Permit Outfall #: Mar YEAR: 2013  
 MONTH: 33  
 Average Low Temp: 46  
 Average High Temp:  
 Measured Rainfall: 2.68"  
 Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***						
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note: Overflow occurs when sewer level reaches 52"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011  
 NPDES Permit Outfall #: Mar YEAR: 2013  
 MONTH: 33  
 Average Low Temp: 46  
 Average High Temp: 2.68"  
 Measured Rainfall: 7.5"  
 Measured Snowfall: (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***	3/12/2013	17:35	18:35	1.00	3.171	0.143
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
											TOTAL MONTH FLOW VOLUME =	0.143

Note: Sum of 10A, 11, and 14

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

MONTH: Mar YEAR: 2013

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 2.68"

Measured Snowfall: 7.5" (3/7 - 3/8: 5.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	2/26-27/13	21:05	12:50	15.75	1.66	3 MONTH	3/1-7/13	0:00	0:00	123.75		2.079
	3/7/13 - 3/8/13	1:35	1:40	0.08	0.01	***	3/7-8/13	0:00	0:00	12.00		0.033
	3/8/2013	18:35	0:20	5.75	0.11	***	3/8-12/13	0:00	3:00	53.00		0.233
	3/12/2013	14:25	18:40	4.25	0.79	1 MONTH	3/12-19/13	3:00	3:00	140.83		3.713
	3/19/2013	8:15	22:10	13.92	0.82	***	3/19-24/13	3:00	18:00	48.42		0.255
	3/31/2013	5:30	13:55	8.42	0.76	***						
		21:35	23:40	2.08	0.19	***						
TOTAL MONTH											6.313	
FLOW VOLUME =												

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG East Rock & Everit  
 LOCATION: 013  
 NPDES Permit Outfall #: Mar YEAR: 2013  
 MONTH: 33  
 Average Low Temp: 46  
 Average High Temp: 2.68"  
 Measured Rainfall: 7.5"  
 Measured Snowfall: (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0.08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***						
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note: The meter was installed on 3/28/13.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 30 Trumbull Street

LOCATION: 014

NPOES Permit Outfall #:

MONTH: Mar YEAR: 2013

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 2.68"

Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***						
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note: Overflow occurs when interceptor depth reaches 54"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street  
 LOCATION: 015

NPDES Permit Outfall #: Mar YEAR: 2013

MONTH: 33

Average Low Temp: 46

Average High Temp:

Measured Rainfall: 2.68"

Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***	3/12/2013	14:30	17:20	2.83	1.472	0.174
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
TOTAL MONTH											FLOW VOLUME =	0.174

Note: Overflow can occur with DS sewer depth reaches 40.5"  
 Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: Mar YEAR: 2013

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 2.68"

Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***	3/12/2013	16:50	19:50	3.00	4.126	0.516
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
TOTAL MONTH											0.516	
FLOW VOLUME =											0.516	

Note:



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      279 Front Street  
 LOCATION:                              019  
 NPDES Permit Outfall #:                      Mar YEAR:                      2013  
 MONTH:                                      33  
 Average Low Temp:                              46  
 Average High Temp:                              2.68"  
 Measured Rainfall:                              7.5"                      (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***						
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
											TOTAL MONTH	0
											FLOW VOLUME =	0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton Street & Quinnpiac Avenue

LOCATION: 020

NPDES Permit Outfall #:

MONTH: Mar YEAR: 2013

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 2.68"

Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***						
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note: The meter was installed on 3/28/13.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      638 Long Wharf Drive  
 LOCATION:                              021  
 NPDES Permit Outfall #:                      Mar YEAR:                      2013  
 MONTH:                                      33  
 Average Low Temp:                              46  
 Average High Temp:  
 Measured Rainfall:                              2.68"  
 Measured Snowfall:                              7.5"                      (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5:75	0.11	***						
	3/8/2013	14:25	18:40	4:25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13:92	0.82	***	3/12/2013	11:30	19:05	7.58	3.475	1.086
	3/19/2013	5:30	13:55	8:42	0.76	***	3/19/2013	13:35	14:25	0.83	0.153	0.005
	3/31/2013	21:35	23:40	2:08	0.19	***						
TOTAL MONTH												
FLOW VOLUME =												1.091

Note:                      Meter Installed 11/15/2012

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Sea Street @ South Water Street  
 024  
 NPDES Permit Outfall #: 2013  
 MONTH: Mar YEAR: 2013  
 Average Low Temp: 33  
 Average High Temp: 46  
 Measured Rainfall: 2.68"  
 Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5:75	0.11	***						
	3/8/2013	14:25	18:40	4:25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13:92	0.82	***						
	3/19/2013	5:30	13:55	8:42	0.76	***						
	3/31/2013	21:35	23:40	2:08	0.19	***						
											TOTAL MONTH	0
											FLOW VOLUME =	0

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street  
 LOCATION: 02S  
 NPDES Permit Outfall #: Mar YEAR: 2013  
 MONTH: 33  
 Average Low Temp: 46  
 Average High Temp: 2.68"  
 Measured Rainfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5.75	0.11	***						
	3/8/2013	14:25	18:40	4.25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13.92	0.82	***	3/12/2013	12:20	17:10	4.83	0.452	0.091
	3/19/2013	5:30	13:55	8.42	0.76	***						
	3/31/2013	21:35	23:40	2.08	0.19	***						
TOTAL MONTH											0.091	
FLOW VOLUME =											0.091	

Note: Overflow occurs when interceptor depth reaches 21"



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of George & Temple Streets  
 LOCATION: Regulator 34

NPDES Permit Outfall #:

MONTH: Mar YEAR: 2013

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 2.68"

Measured Snowfall: 7.5" (3/7 - 3/8: 6.6", 3/18: 0.8", 3/21: 0.1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
	3/7/2013	1:35	1:40	0:08	0.01	***						
	3/7/13 - 3/8/13	18:35	0:20	5:75	0.11	***						
	3/8/2013	14:25	18:40	4:25	0.79	1 MONTH						
	3/12/2013	8:15	22:10	13:92	0.82	***						
	3/19/2013	5:30	13:55	8:42	0.76	***						
	3/31/2013	21:35	23:40	2:08	0.19	***						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when level exceeds 34.25"  
 Meter installed 3/27/13

**FEBRUARY 2013**



GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - FEBRUARY 2013

MONTHLY RAINFALL SUMMARY

3.41 inches of rain (3.44 inches of rain in a typical month)

27 inches of snow

12 rain events (10 rain events in a typical month)

One 3 month 12 hour storm. All other storms less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	2	0.850
CSO 005	REG 005	2	0.216
CSO 004	REG 004	2	1.232
CSO 003	REG 003	1	0.845
CSO 024	REG 024	1	1.095
CSO 009	REG 009	1	0.306
CSO 019	REG 019	0	0.000
CSO 016	REG 016	1	0.862
CSO 015	REG 015	1	0.091
CSO 010	REG 010	0	0.000
CSO 011	REGS 010A, 011, 014, 026	1	0.412
CSO 012	REGS 012A, 012B	1	3.353
CSO GREENE	REG GREENE	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	1	6.680
TOTAL		14	15.942

(22 CSO events in a typical month) (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 003  
 NPDES Permit Outfall #: Feb YEAR: 2013  
 MONTH: 23  
 Average Low Temp: 43  
 Average High Temp: 3.41  
 Measured Rainfall: 27" (2/8- 23.7", 2.9- 3.3")  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	2/6/2013	8:50	8:55	0:08	0.01	***							
2	2/10/2013	12:35	15:40	3:08	0.23	***							
3	2/11/2013	7:45	12:55	5:17	0.58	***							
4	2/11/2013	15:35	15:40	0:08	0.01	***							
5	2/11/2013	19:50	19:55	0:08	0.01	***							
6	2/12/2013	4:00	4:05	0:08	0.01	***							
7	2/16/2013	4:35	5:20	0:75	0.02	***							
8	2/19/2013	14:20	21:45	7:42	0.29	***							
9	2/22/2013	8:20	8:25	0:08	0.25	***							
10	2/23/2013	12:20	23:55	11:58	0.27	***							
11	2/24/2013	4:35	4:40	0:08	0.01	***							
12	2/26/2013 - 2/27/2013	21:05	12:50	15:75	1.66	3 MONTH	2/27/2013	1:50	13:50	12:00	1.690	0.845	
13	2/27/2013	17:50	20:45	2:92	0.04	***							
14	2/28/2013	5:40	8:10	2:50	0.02	***							

TOTAL MONTH FLOW VOLUME = 0.845

Note: Overflow occurs when interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

Feb YEAR: 2013

MONTH: 23

Average Low Temp:

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8-23.7", 2.9-3.3")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	2/6/2013	8:50	8:55	0:08	0.01	***						
2	2/10/2013	12:35	15:40	3:08	0.23	***						
3	2/11/2013	7:45	12:55	5:17	0.58	***						
4	2/11/2013	15:35	15:40	0:08	0.01	***						
5	2/11/2013	19:50	19:55	0:08	0.01	***						
6	2/12/2013	4:00	4:05	0:08	0.01	***						
7	2/16/2013	4:35	5:20	0:75	0.02	***						
8	2/19/2013	14:20	21:45	7:42	0.29	***	2/19/2013	18:25	19:35	1.17	0.596	0.029
9	2/22/2013	8:20	8:25	0:08	0.25	***						
10	2/23/2013	12:20	23:55	11:58	0.27	***						
11	2/24/2013	4:35	4:40	0:08	0.01	***						
12	2/26/2013 - 2/27/2013	21:05	12:50	15:75	1.66	3 MONTH	27/2013 - 2/28/2013	0:30	10:55	34.42	0.839	1.203
13	2/27/2013	17:50	20:45	2:92	0.04	***						
14	2/28/2013	5:40	8:10	2:50	0.02	***						

TOTAL MONTH FLOW VOLUME = 1.232

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8-23.7", 2.9-3.3")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q <sub>v</sub> volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Q <sub>avg</sub> (MGD)
1	2/6/2013	8:50	8:55	0.08	0.01	***						
2	2/10/2013	12:35	15:40	3.08	0.23	***						
3	2/11/2013	7:45	12:55	5.17	0.58	***						
4	2/11/2013	15:35	15:40	0.08	0.01	***						
5	2/11/2013	19:50	19:55	0.08	0.01	***						
6	2/12/2013	4:00	4:05	0.08	0.01	***						
7	2/16/2013	4:35	5:20	0.75	0.02	***						
8	2/19/2013	14:20	21:45	7.42	0.29	***	2/19/2013	15:50	21:00	5.17	0.122	0.026
9	2/22/2013	8:20	8:25	0.08	0.25	***						
10	2/23/2013	12:20	23:55	11.58	0.27	***						
11	2/24/2013	4:35	4:40	0.08	0.01	***						
12	2/26/2013 - 2/27/2013	21:05	12:50	15.75	1.66	3 MONTH	2/27/2013	1:05	13:05	12.00	0.379	0.190
13	2/27/2013	17:50	20:45	2.92	0.04	***						
14	2/28/2013	5:40	8:10	2.50	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.216

Note: Overflow occurs when interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      Whalley Ave. 30 yds from Fitch Street  
 LOCATION:                              006  
 NPDES Permit Outfall #:                      Feb YEAR:                      2013  
 MONTH:                                      23  
 Average Low Temp:                              43  
 Average High Temp:                              3.41  
 Measured Rainfall:                              (2/8- 23.7", 2.9- 3.3")  
 Measured Snowfall:                              27"

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/6/2013	8:50	8:55	0.08	0.01	***						
2	2/10/2013	12:35	15:40	3.08	0.23	***						
3	2/11/2013	7:45	12:55	5.17	0.58	***						
4	2/11/2013	15:35	15:40	0.08	0.01	***						
5	2/11/2013	19:50	19:55	0.08	0.01	***						
6	2/12/2013	4:00	4:05	0.08	0.01	***						
7	2/16/2013	4:35	5:20	0.75	0.02	***						
8	2/19/2013	14:20	21:45	7.42	0.29	***						
9	2/22/2013	8:20	8:25	0.08	0.25	***						
10	2/23/2013	12:20	23:55	11.58	0.27	***						
11	2/24/2013	4:35	4:40	0.08	0.01	***						
12	2/26/2013 - 2/27/2013	21:05	12:50	15.75	1.66	3 MONTH	2/27/2013 - 2/28/2013	8:35	1:30	16.92	0.046	0.777
13	2/27/2013	17:50	20:45	2.92	0.04	***						
14	2/28/2013	5:40	8:10	2.50	0.02	***						
TOTAL MONTH											0.85	
FLOW VOLUME =											0.016	

Note:                      Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8- 23.7", 2.9- 3.3")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q.volum (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	2/6/2013	8:50	8:55	0.08	0.01	***						
2	2/10/2013	12:35	15:40	3.08	0.23	***						
3	2/11/2013	7:45	12:55	5.17	0.58	***						
4	2/11/2013	15:35	15:40	0.08	0.01	***						
5	2/11/2013	19:50	19:55	0.08	0.01	***						
6	2/12/2013	4:00	4:05	0.08	0.01	***						
7	2/16/2013	4:35	5:20	0.75	0.02	***						
8	2/19/2013	14:20	21:45	7.42	0.29	***						
9	2/22/2013	8:20	8:25	0.08	0.25	***						
10	2/23/2013	12:20	23:55	11.58	0.27	***						
11	2/24/2013	4:35	4:40	0.08	0.01	***						
12	2/26/2013 - 2/27/20	21:05	12:50	15.75	1.66	3 MONTH	2/27/2013	2:10	10:55	8.75	0.838	0.306
13	2/27/2013	17:50	20:45	2.92	0.04	***						
14	2/28/2013	5:40	8:10	2.50	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.306

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street

LOCATION: 010

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8-23.7", 2.9-3.3")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	2/6/2013	8:50	8:55	0:08	0.01	***						
2	2/10/2013	12:35	15:40	3:08	0.23	***						
3	2/11/2013	7:45	12:55	5:17	0.58	***						
4	2/11/2013	15:35	15:40	0:08	0.01	***						
5	2/11/2013	19:50	19:55	0:08	0.01	***						
6	2/12/2013	4:00	4:05	0:08	0.01	***						
7	2/16/2013	4:35	5:20	0:75	0.02	***						
8	2/19/2013	14:20	21:45	7:42	0.29	***						
9	2/22/2013	8:20	8:25	0:08	0.25	***						
10	2/23/2013	12:20	23:55	11:58	0.27	***						
11	2/24/2013	4:35	4:40	0:08	0.01	***						
12	2/26/2013 - 2/27/20	21:05	12:50	15.75	1.66	3 MONTH						
13	2/27/2013	17:50	20:45	2:92	0.04	***						
14	2/28/2013	5:40	8:10	2:50	0.02	***						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note: Overflow occurs when sewer level reaches 57"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street  
 LOCATION: 010A

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8-23.7", 2.9-3.3")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/6/2013	8:50	8:55	0:08	0.01	***						
2	2/10/2013	12:35	15:40	3:08	0.23	***						
3	2/11/2013	7:45	12:55	5:17	0.58	***						
4	2/11/2013	15:35	15:40	0:08	0.01	***						
5	2/11/2013	19:50	19:55	0:08	0.01	***						
6	2/12/2013	4:00	4:05	0:08	0.01	***						
7	2/16/2013	4:35	5:20	0:75	0.02	***						
8	2/19/2013	14:20	21:45	7:42	0.29	***						
9	2/22/2013	8:20	8:25	0:08	0.25	***						
10	2/23/2013	12:20	23:55	11:58	0.27	***						
11	2/24/2013	4:35	4:40	0:08	0.01	***						
12	2/26/2013 - 2/27/20	21:05	12:50	15:75	1.66	3 MONTH						
13	2/27/2013	17:50	20:45	2:92	0.04	***						
14	2/28/2013	5:40	8:10	2:50	0.02	***						
TOTAL MONTH												
FLOW VOLUME =											0	

Note: Overflow occurs when sewer level reaches 52"



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #: Feb YEAR: 2013

MONTH: 23

Average Low Temp: 43

Average High Temp: 3.41

Measured Rainfall: 27" (2/8-23.7", 2.9-3.3")

Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	START	STOP	DURATION (hours)		OUTFALL Q. avg (MGD)
1	2/6/2013	8:50	8:55	0:08	0.01	***					
2	2/10/2013	12:35	15:40	3:08	0.23	***					
3	2/11/2013	7:45	12:55	5:17	0.58	***					
4	2/11/2013	15:35	15:40	0:08	0.01	***					
5	2/11/2013	19:50	19:55	0:08	0.01	***					
6	2/12/2013	4:00	4:05	0:08	0.01	***					
7	2/16/2013	4:35	5:20	0:75	0.02	***					
8	2/19/2013	14:20	21:45	7:42	0.29	***					
9	2/22/2013	8:20	8:25	0:08	0.25	***					
10	2/23/2013	12:20	23:55	11:58	0.27	***					
11	2/24/2013	4:35	4:40	0:08	0.01	***					
12	2/26/2013 - 2/27/2013	21:05	12:50	15:75	1.66	3 MONTH	2/27/2013	9:05	13:05	4.00	2.210
13	2/27/2013	17:50	20:45	2:92	0.04	***					
14	2/28/2013	5:40	8:10	2:50	0.02	***					

TOTAL MONTH FLOW VOLUME = 0.412

Note: Sum of 10A, 11, and 14

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8-23.7", 2.9-3.3")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	2/6/2013	8:50	8:55	0:08	0.01	***							
2	2/10/2013	12:35	15:40	3:08	0.23	***							
3	2/11/2013	7:45	12:55	5:17	0.58	***							
4	2/11/2013	15:35	15:40	0:08	0.01	***							
5	2/11/2013	19:50	19:55	0:08	0.01	***							
6	2/12/2013	4:00	4:05	0:08	0.01	***							
7	2/16/2013	4:35	5:20	0:75	0.02	***							
8	2/19/2013	14:20	21:45	7:42	0.29	***							
9	2/22/2013	8:20	8:25	0:08	0.25	***							
10	2/23/2013	12:20	23:55	11:58	0.27	***							
11	2/24/2013	4:35	4:40	0:08	0.01	***							
12	2/26/2013 - 2/27/2013	21:05	12:50	15:75	1.66	3 MONTH	2/27/2013	1:40	4:40	46.33	0.208	3.353	
13	2/27/2013	17:50	20:45	2:92	0.04	***							
14	2/28/2013	5:40	8:10	2:50	0.02	***							

TOTAL MONTH FLOW VOLUME = 3.353

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 30 Trumbull Street  
 LOCATION: 014

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 2.7" (2/8-23.7", 2.9- 3.3")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	2/6/2013	8:50	8:55	0:08	0.01	***					
2	2/10/2013	12:35	15:40	3:08	0.23	***					
3	2/11/2013	7:45	12:55	5:17	0.58	***					
4	2/11/2013	15:35	15:40	0:08	0.01	***					
5	2/11/2013	19:50	19:55	0:08	0.01	***					
6	2/12/2013	4:00	4:05	0:08	0.01	***					
7	2/16/2013	4:35	5:20	0:75	0.02	***					
8	2/19/2013	14:20	21:45	7:42	0.29	***					
9	2/22/2013	8:20	8:25	0:08	0.25	***					
10	2/23/2013	12:20	23:55	11:58	0.27	***					
11	2/24/2013	4:35	4:40	0:08	0.01	***					
12	2/26/2013 - 2/27/20	21:05	12:50	15:75	1.66	3 MONTH					
13	2/27/2013	17:50	20:45	2:92	0.04	***					
14	2/28/2013	5:40	8:10	2:50	0.02	***					

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when interceptor depth reaches 54"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: 15 James Street  
 015  
 NPDES Permit Outfall #: 2013  
 MONTH: Feb YEAR: 2013  
 Average Low Temp: 23  
 Average High Temp: 43  
 Measured Rainfall: 3.41  
 Measured Snowfall: 27" (2/8- 23.7", 2.9- 3.3")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/6/2013	8:50	8:55	0:08	0.01	***						
2	2/10/2013	12:35	15:40	3:08	0.23	***						
3	2/11/2013	7:45	12:55	5:17	0.58	***						
4	2/11/2013	15:35	15:40	0:08	0.01	***						
5	2/11/2013	19:50	19:55	0:08	0.01	***						
6	2/12/2013	4:00	4:05	0:08	0.01	***						
7	2/16/2013	4:35	5:20	0:75	0.02	***						
8	2/19/2013	14:20	21:45	7:42	0.29	***						
9	2/22/2013	8:20	8:25	0:08	0.25	***						
10	2/23/2013	12:20	23:55	11:58	0.27	***						
11	2/24/2013	4:35	4:40	0:08	0.01	***						
12	2/26/2013 - 2/27/2013	21:05	12:50	15:75	1.66	3 MONTH	2/27/2013	8:40	12:00	3.33	0.658	0.091
13	2/27/2013	17:50	20:45	2:92	0.04	***						
14	2/28/2013	5:40	8:10	2:50	0.02	***						
TOTAL MONTH											FLOW VOLUME =	0.091

Note: Overflow can occur with DS sewer depth reaches 40.5"  
 Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. River & Poplar  
 016

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8-23.7", 2.9-3.3")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	2/6/2013	8:50	8:55	0:08	0.01	***							
2	2/10/2013	12:35	15:40	3:08	0.23	***							
3	2/11/2013	7:45	12:55	5:17	0.58	***							
4	2/11/2013	15:35	15:40	0:08	0.01	***							
5	2/11/2013	19:50	19:55	0:08	0.01	***							
6	2/12/2013	4:00	4:05	0:08	0.01	***							
7	2/16/2013	4:35	5:20	0:75	0.02	***							
8	2/19/2013	14:20	21:45	7:42	0.29	***							
9	2/22/2013	8:20	8:25	0:08	0.25	***							
10	2/23/2013	12:20	23:55	11:58	0.27	***							
11	2/24/2013	4:35	4:40	0:08	0.01	***							
12	2/26/2013 - 2/27/2013	21:05	12:50	15:75	1.66	3 MONTH	2/27/2013	3:05	9:00	5.92	3.498	0.862	
13	2/27/2013	17:50	20:45	2:92	0.04	***							
14	2/28/2013	5:40	8:10	2:50	0.02	***							

TOTAL MONTH FLOW VOLUME = 0.862

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      279 Front Street  
 LOCATION:                              019

NPDES Permit Outfall #:

MONTH:                                      Feb YEAR:                              2013

Average Low Temp:                      23

Average High Temp:                      43

Measured Rainfall:                      3.41

Measured Snowfall:                      27"                      (2/8- 23.7", 2.9- 3.3")

EVENT NO.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/6/2013	8:50	8:55	0:08	0.01	***						
2	2/10/2013	12:35	15:40	3:08	0.23	***						
3	2/11/2013	7:45	12:55	5:17	0.58	***						
4	2/11/2013	15:35	15:40	0:08	0.01	***						
5	2/11/2013	19:50	19:55	0:08	0.01	***						
6	2/12/2013	4:00	4:05	0:08	0.01	***						
7	2/16/2013	4:35	5:20	0:75	0.02	***						
8	2/19/2013	14:20	21:45	7:42	0.29	***						
9	2/22/2013	8:20	8:25	0:08	0.25	***						
10	2/23/2013	12:20	23:55	11:58	0.27	***						
11	2/24/2013	4:35	4:40	0:08	0.01	***						
12	2/26/2013 - 2/27/2013	21:05	12:50	15.75	1.66	3 MONTH						
13	2/27/2013	17:50	20:45	2:92	0.04	***						
14	2/28/2013	5:40	8:10	2:50	0.02	***						

TOTAL MONTH FLOW VOLUME = 0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8- 23.7", 2.9- 3.3")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	2/6/2013	8:50	8:55	0:08	0.01	***						
2	2/10/2013	12:35	15:40	3:08	0.23	***						
3	2/11/2013	7:45	12:55	5:17	0.58	***						
4	2/11/2013	15:35	15:40	0:08	0.01	***						
5	2/11/2013	19:50	19:55	0:08	0.01	***						
6	2/12/2013	4:00	4:05	0:08	0.01	***						
7	2/16/2013	4:35	5:20	0:75	0.02	***						
8	2/19/2013	14:20	21:45	7:42	0.29	***						
9	2/22/2013	8:20	8:25	0:08	0.25	***						
10	2/23/2013	12:20	23:55	11:58	0.27	***						
11	2/24/2013	4:35	4:40	0:08	0.01	***						
12	2/26/2013 - 2/27/2013	21:05	12:50	15:75	1.66	3 MONTH	2/27/2013	2:55	14:25	11.50	16.032	6.680
13	2/27/2013	17:50	20:45	2:92	0.04	***						
14	2/28/2013	5:40	8:10	2:50	0.02	***						

TOTAL MONTH FLOW VOLUME = 6.68

Note: Meter Installed 11/15/2012

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street

LOCATION: 024

NPDES Permit Outfall #:

MONTH: Feb YEAR: 2013

Average Low Temp: 23

Average High Temp: 43

Measured Rainfall: 3.41

Measured Snowfall: 27" (2/8- 23.7", 2.9- 3.3")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/6/2013	8:50	8:55	0:08	0.01	***						
2	2/10/2013	12:35	15:40	3:08	0.23	***						
3	2/11/2013	7:45	12:55	5:17	0.58	***						
4	2/11/2013	15:35	15:40	0:08	0.01	***						
5	2/11/2013	19:50	19:55	0:08	0.01	***						
6	2/12/2013	4:00	4:05	0:08	0.01	***						
7	2/16/2013	4:35	5:20	0:75	0.02	***						
8	2/19/2013	14:20	21:45	7:42	0.29	***						
9	2/22/2013	8:20	8:25	0:08	0.25	***						
10	2/23/2013	12:20	23:55	11:58	0.27	***						
11	2/24/2013	4:35	4:40	0:08	0.01	***						
12	2/26/2013 - 2/27/2013	21:05	12:50	15:75	1.66	3 MONTH	2/27/2013	9:20	14:45	5.42	4.854	1.095
13	2/27/2013	17:50	20:45	2:92	0.04	***						
14	2/28/2013	5:40	8:10	2:50	0.02	***						

TOTAL MONTH FLOW VOLUME = 1.095

Note: Overflow occurs when upstream depth reaches approx. 60" or when downstream reaches approx. 76".



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street  
 LOCATION: 025  
 NPDES Permit Outfall #: Feb YEAR: 2013  
 MONTH: 23  
 Average Low Temp: 43  
 Average High Temp: 3.41  
 Measured Rainfall: 27" (2/8-23.7", 2.9-3.3")  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	2/6/2013	8:50	8:55	0.08	0.01	***							
2	2/10/2013	12:35	15:40	3.08	0.23	***							
3	2/11/2013	7:45	12:55	5.17	0.58	***							
4	2/11/2013	15:35	15:40	0.08	0.01	***							
5	2/11/2013	19:50	19:55	0.08	0.01	***							
6	2/12/2013	4:00	4:05	0.08	0.01	***							
7	2/16/2013	4:35	5:20	0.75	0.02	***							
8	2/19/2013	14:20	21:45	7.42	0.29	***							
9	2/22/2013	8:20	8:25	0.08	0.25	***							
10	2/23/2013	12:20	23:55	11.58	0.27	***							
11	2/24/2013	4:35	4:40	0.08	0.01	***							
12	2/26/2013 - 2/27/20	21:05	12:50	15.75	1.66	3 MONTH							
13	2/27/2013	17:50	20:45	2.92	0.04	***							
14	2/28/2013	5:40	8:10	2.50	0.02	***							
											TOTAL MONTH	0	
											FLOW VOLUME =	0	

Note: Overflow occurs when interceptor depth reaches 21"  
 Meter malfunction 2/19 - 2/28

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. of Greene Street & St. John Connector  
 NPDES Permit Outfall #: Greene  
 MONTH: Feb YEAR: 2013  
 Average Low Temp: 23  
 Average High Temp: 43  
 Measured Rainfall: 3.41  
 Measured Snowfall: 27" (2/8- 23.7", 2.9- 3.3")

				RAINFALL EVENT				CSO EVENT				
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/6/2013	8:50	8:55	0.08	0.01	***						
2	2/10/2013	12:35	15:40	3.08	0.23	***						
3	2/11/2013	7:45	12:55	5.17	0.58	***						
4	2/11/2013	15:35	15:40	0.08	0.01	***						
5	2/11/2013	19:50	19:55	0.08	0.01	***						
6	2/12/2013	4:00	4:05	0.08	0.01	***						
7	2/16/2013	4:35	5:20	0.75	0.02	***						
8	2/19/2013	14:20	21:45	7.42	0.29	***						
9	2/22/2013	8:20	8:25	0.08	0.25	***						
10	2/23/2013	12:20	23:55	11.58	0.27	***						
11	2/24/2013	4:35	4:40	0.08	0.01	***						
12	2/26/2013 - 2/27/20	21:05	12:50	15.75	1.66	3 MONTH						
13	2/27/2013	17:50	20:45	2.92	0.04	***						
14	2/28/2013	5:40	8:10	2.50	0.02	***						
TOTAL MONTH												
FLOW VOLUME =											0	

Note:

**JANUARY 2013**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - JANUARY 2013

MONTHLY RAINFALL SUMMARY

1.87 inches of rain (3.44 inches of rain in a typical month)

4.60 inches of snow

10 rain events (10 rain events in a typical month)  
 all less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	0	0.000
CSO 005	REG 005	1	0.089
CSO 004	REG 004	2	0.290
CSO 003	REG 003	1	0.369
CSO 024	REG 024	0	0.000
CSO 009	REG 009	1	0.019
CSO 019	REG 019	0	0.000
CSO 016	REG 016	0	0.000
CSO 015	REG 015	0	0.000
CSO 010	REG 010	0	0.000
CSO 011	REGS 010A, 011, 014, 026	0	0.000
CSO 012	REGS 012A, 012B	1	0.006
CSO GREENE	REG GREENE	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	1	0.101
TOTAL		7	0.874

(22 CSO events in a typical month)      (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 NPDES Permit Outfall #: 003  
 MONTH: Jan YEAR: 2013  
 Average Low Temp: 22  
 Average High Temp: 38  
 Measured Rainfall: 1.87  
 Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT NO.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month	1/31/2013	4:55	6:35	1.67	5.308	0.369
TOTAL MONTH												
FLOW VOLUME =											0.369	

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***	1/11/2013	20:45	22:10	1.42	0.780	0.046
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month	1/31/2013	4:50	7:10	2.33	2.505	0.244

TOTAL MONTH FLOW VOLUME = 0.290

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month	1/31/2013	4:10	6:20	2.17	0.988	0.089

TOTAL MONTH FLOW VOLUME = 0.089

Note: Overflow occurs when interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Whalley Ave. 30 yds from Fitch Street  
 006

NPDES Permit Outfall #:

Jan YEAR: 2013

MONTH:

22

Average Low Temp:

38

Average High Temp:

1.87

Measured Rainfall:

4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when Interceptor level reaches 27"



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Grand Avenue & James Street  
 009

NPDES Permit Outfall #:  
 MONTH: Jan YEAR: 2013  
 Average Low Temp: 22  
 Average High Temp: 38  
 Measured Rainfall: 1.87  
 Measured Snowfall: 4.6 in.

{1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1"}  
 RAINFALL EVENT

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9.50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15.42	0.40	***						
3	1/14/2013	4:40	6:50	2.17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5.58	0.23	***						
5	1/16/2013	15:55	22:10	6.25	0.25	***						
6	1/17/2013	5:15	10:55	5.67	0.21	***						
7	1/17/2013	19:45	19:50	0.08	0.01	***						
8	1/28/2013	17:55	23:25	5.50	0.15	***						
9	1/29/2013	18:50	18:55	0.08	0.01	***						
10	1/31/2013	0:30	7:25	6.92	0.47	1 Month	1/31/2013	4:40	5:45	1.08	0.423	0.019
TOTAL MONTH											FLOW VOLUME =	0.019

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street

LOCATION: 010

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when sewer level reaches 57"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	OATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month						

TOTAL MONTH FLOW VOLUME = 0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive  
 LOCATION: 012

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9.50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15.42	0.40	***						
3	1/14/2013	4:40	6:50	2.17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5.58	0.23	***						
5	1/16/2013	15:55	22:10	6.25	0.25	***						
6	1/17/2013	5:15	10:55	5.67	0.21	***						
7	1/17/2013	19:45	19:50	0.08	0.01	***						
8	1/28/2013	17:55	23:25	5.50	0.15	***						
9	1/29/2013	18:50	18:55	0.08	0.01	***						
10	1/31/2013	0:30	7:25	6.92	0.47	1 Month	1/31/2013	5:00	5:40	0.67	0.224	0.006

TOTAL MONTH FLOW VOLUME = 0.006

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street  
 LOCATION: 015

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow can occur with DS sewer depth reaches 40.5"  
 Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9.50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15.42	0.40	***						
3	1/14/2013	4:40	6:50	2.17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5.58	0.23	***						
5	1/16/2013	15:55	22:10	6.25	0.25	***						
6	1/17/2013	5:15	10:55	5.67	0.21	***						
7	1/17/2013	19:45	19:50	0.08	0.01	***						
8	1/28/2013	17:55	23:25	5.50	0.15	***						
9	1/29/2013	18:50	18:55	0.08	0.01	***						
10	1/31/2013	0:30	7:25	6.92	0.47	1 Month						

TOTAL MONTH FLOW VOLUME = 0.000

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street

LOCATION: 019

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9.50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15.42	0.40	***						
3	1/14/2013	4:40	6:50	2.17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5.58	0.23	***						
5	1/16/2013	15:55	22:10	6.25	0.25	***						
6	1/17/2013	5:15	10:55	5.67	0.21	***						
7	1/17/2013	19:45	19:50	0.08	0.01	***						
8	1/28/2013	17:55	23:25	5.50	0.15	***						
9	1/29/2013	18:50	18:55	0.08	0.01	***						
10	1/31/2013	0:30	7:25	6.92	0.47	1 Month						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      638 Long Wharf Drive  
 LOCATION:                              021  
 NPDES Permit Outfall #:                      Jan YEAR:                      2013  
 MONTH:                                      22  
 Average Low Temp:                              38  
 Average High Temp:                              1.87  
 Measured Rainfall:                              4.6 in.                      (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month	1/31/2013	5:35	6:45	1.17	2.074	0.101

TOTAL MONTH FLOW VOLUME = 0.101

Note: Meter Installed 11/15/2012



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street

LOCATION: 024

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	1/1/2013	0:55	10:25	9:50	0.12	***					
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***					
3	1/14/2013	4:40	6:50	2:17	0.02	***					
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***					
5	1/16/2013	15:55	22:10	6:25	0.25	***					
6	1/17/2013	5:15	10:55	5:67	0.21	***					
7	1/17/2013	19:45	19:50	0:08	0.01	***					
8	1/28/2013	17:55	23:25	5:50	0.15	***					
9	1/29/2013	18:50	18:55	0:08	0.01	***					
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month					

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when upstream depth reaches approx. 60" or when downstream reaches approx. 76".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street  
 LOCATION: 025  
 NPDES Permit Outfall #: 2013  
 MONTH: Jan YEAR: 2013  
 Average Low Temp: 22  
 Average High Temp: 38  
 Measured Rainfall: 1.87  
 Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9.50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15.42	0.40	***						
3	1/14/2013	4:40	6:50	2.17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5.58	0.23	***						
5	1/16/2013	15:55	22:10	6.25	0.25	***						
6	1/17/2013	5:15	10:55	5.67	0.21	***						
7	1/17/2013	19:45	19:50	0.08	0.01	***						
8	1/28/2013	17:55	23:25	5.50	0.15	***						
9	1/29/2013	18:50	18:55	0.08	0.01	***						
10	1/31/2013	0:30	7:25	6.92	0.47	1 Month						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when interceptor depth reaches 21"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. of Greene Street & St. John Connector  
 Greene

NPDES Permit Outfall #:

MONTH: Jan YEAR: 2013

Average Low Temp: 22

Average High Temp: 38

Measured Rainfall: 1.87

Measured Snowfall: 4.6 in. (1/16 - 3", 1/21 - 0.5", 1/25 - 0.1", 1/28 - 1")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2013	0:55	10:25	9:50	0.12	***						
2	1/11/13 - 1/12/13	15:05	6:30	15:42	0.40	***						
3	1/14/2013	4:40	6:50	2:17	0.02	***						
4	1/14/13 - 1/15/13	22:30	4:05	5:58	0.23	***						
5	1/16/2013	15:55	22:10	6:25	0.25	***						
6	1/17/2013	5:15	10:55	5:67	0.21	***						
7	1/17/2013	19:45	19:50	0:08	0.01	***						
8	1/28/2013	17:55	23:25	5:50	0.15	***						
9	1/29/2013	18:50	18:55	0:08	0.01	***						
10	1/31/2013	0:30	7:25	6:92	0.47	1 Month						

TOTAL MONTH FLOW VOLUME = 0

Note:

**DECEMBER 2012**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - DECEMBER 2012

MONTHLY RAINFALL SUMMARY

3.94 inches of rain (3.44 inches of rain in a typical month)

7.70 inches of snow

13 rain events (10 rain events in a typical month)

all less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	0	0.000
CSO 005	REG 005	2	0.049
CSO 004	REG 004	3	0.740
CSO 003	REG 003	4	1.686
CSO 024	REG 024	1	0.762
CSO 009	REG 009	0	0.000
CSO 019	REG 019	0	0.000
CSO 016	REG 016	4	2.555
CSO 015	REG 015	3	0.956
CSO 010	REG 010	0	0.000
CSO 011	REGS 010A, 011, 014, 026	0	0.000
CSO 012	REGS 012A, 012B	2	0.009
CSO GREENE	REG GREENE	0	0.000
CSO 025	REGS 025, 034	3	2.455
CSO 021	REG 021	3	0.721
TOTAL		25	9.933

(22 CSO events in a typical month)      (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 NPDES Permit Outfall #: 003  
 MONTH: Dec YEAR: 2012  
 Average Low Temp: 33  
 Average High Temp: 46  
 Measured Rainfall: 3.94  
 Measured Snowfall: 7.7 (12/24-0.5", 12/29-7.2")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)		
1	12/2/2012	20:40	22:30	1.83	0.06	***								
2	12/4/2012	9:40	10:05	0.42	0.03	***								
3	12/5/2012	4:10	4:15	0.08	0.01	***								
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***								
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***			12/10/2012	0:40	1:20	0.67	0.183	0.005
6	12/11/2012	3:40	7:20	3.67	0.03	***								
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***								
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***								
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month			12/18/2012	2:00	5:50	3.83	4.246	0.678
10	12/25/2012	6:20	10:55	4.58	0.14	***			12/21/2012	7:35	11:55	4.33	5.445	0.983
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***			12/27/2012	5:05	5:30	0.42	1.157	0.020
12	12/30/2012	12:35	12:40	0.08	0.01	***								
13	12/31/2012	15:35	23:35	8.00	0.08	***								

TOTAL MONTH FLOW VOLUME =

1.686

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: Dec YEAR: 2012

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 3.94

Measured Snowfall: 7.7 (12/24-0.5", 12/29- 7.2")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	12/2/2012	20:40	22:30	1.83	0.06	***							
2	12/4/2012	9:40	10:05	0.42	0.03	***							
3	12/5/2012	4:10	4:15	0.08	0.01	***							
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***							
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***	12/10/2012	0:20	2:20	2.00	0.547	0.046	
6	12/11/2012	3:40	7:20	3.67	0.03	***							
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***							
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***	12/18/2012	1:00	6:20	5.33	1.311	0.291	
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month	12/21/2012	7:30	12:05	4.58	2.109	0.403	
10	12/25/2012	6:20	10:55	4.58	0.14	***							
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***							
12	12/30/2012	12:35	12:40	0.08	0.01	***							
13	12/31/2012	15:35	23:35	8.00	0.08	***							

TOTAL MONTH FLOW VOLUME = 0.74

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.  
 LOCATION: 005

NPOES Permit Outfall #: Dec YEAR: 2012  
 MONTH: 33  
 Average Low Temp: 46  
 Average High Temp: 3.94  
 Measured Rainfall: 7.7 (12/24- 0.5", 12/29- 7.2")  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Q.ave (MGD)
1	12/2/2012	20:40	22:30	1.83	0.06	***						
2	12/4/2012	9:40	10:05	0.42	0.03	***						
3	12/5/2012	4:10	4:15	0.08	0.01	***						
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***						
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***						
6	12/11/2012	3:40	7:20	3.67	0.03	***						
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***						
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***						
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month	12/18/2012	2:30	5:05	2.58	0.277	0.030
10	12/25/2012	6:20	10:55	4.58	0.14	***	12/21/2012	8:40	10:10	1.50	0.311	0.019
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***						
12	12/30/2012	12:35	12:40	0.08	0.01	***						
13	12/31/2012	15:35	23:35	8.00	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.049

Note: Overflow occurs when Interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Whalley Ave. 30 yds from Fitch Street  
 NPDES Permit Outfall #: 6  
 MONTH: Dec YEAR: 2012  
 Average Low Temp: 33  
 Average High Temp: 46  
 Measured Rainfall: 3.94  
 Measured Snowfall: 7.7 (12/24-0.5", 12/29-7.2")

EVENT NO.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	12/2/2012	20:40	22:30	1.83	0.06	***							
2	12/4/2012	9:40	10:05	0.42	0.03	***							
3	12/5/2012	4:10	4:15	0.08	0.01	***							
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***							
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***							
6	12/11/2012	3:40	7:20	3.67	0.03	***							
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***							
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***							
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month							
10	12/25/2012	6:20	10:55	4.58	0.14	***							
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***							
12	12/30/2012	12:35	12:40	0.08	0.01	***							
13	12/31/2012	15:35	23:35	8.00	0.08	***							
TOTAL MONTH											FLOW VOLUME =		0

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street  
 LOCATION: 009

NPOES Permit Outfall #: Dec YEAR: 2012

MONTH: 33

Average Low Temp: 46

Average High Temp: 3.94

Measured Rainfall: 7.7 (12/24-0.5", 12/29- 7.2")

Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/2/2012	20:40	22:30	1.83	0.06	***						
2	12/4/2012	9:40	10:05	0.42	0.03	***						
3	12/5/2012	4:10	4:15	0.08	0.01	***						
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***						
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***						
6	12/11/2012	3:40	7:20	3.67	0.03	***						
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***						
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***						
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month						
10	12/25/2012	6:20	10:55	4.58	0.14	***						
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***						
12	12/30/2012	12:35	12:40	0.08	0.01	***						
13	12/31/2012	15:35	23:35	8.00	0.08	***						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street

LOCATION: 010

NPDES Permit Outfall #:

MONTH: Dec YEAR: 2012

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 3.94

Measured Snowfall: 7.7 (12/24-0.5", 12/29-7.2")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	12/2/2012	20:40	22:30	1.83	0.06	***					
2	12/4/2012	9:40	10:05	0.42	0.03	***					
3	12/5/2012	4:10	4:15	0.08	0.01	***					
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***					
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***					
6	12/11/2012	3:40	7:20	3.67	0.03	***					
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***					
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***					
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month					
10	12/25/2012	6:20	10:55	4.58	0.14	***					
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***					
12	12/30/2012	12:35	12:40	0.08	0.01	***					
13	12/31/2012	15:35	23:35	8.00	0.08	***					
TOTAL MONTH										FLOW VOLUME =	0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

Dec YEAR: 2012

MONTH: 33

Average Low Temp: 46

Average High Temp: 3.94

Measured Rainfall: 7.7 (12/24-0.5", 12/29-7.2")

Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/2/2012	20:40	22:30	1.83	0.06	***						
2	12/4/2012	9:40	10:05	0.42	0.03	***						
3	12/5/2012	4:10	4:15	0.08	0.01	***						
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***						
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***						
6	12/11/2012	3:40	7:20	3.67	0.03	***						
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***						
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***						
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month						
10	12/25/2012	6:20	10:55	4.58	0.14	***						
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***						
12	12/30/2012	12:35	12:40	0.08	0.01	***						
13	12/31/2012	15:35	23:35	8.00	0.08	***						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

MONTH: Dec YEAR: 2012

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 3.94

Measured Snowfall: 7.7 (12/24-0.5", 12/29- 7.2")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/2/2012	20:40	22:30	1.83	0.06	***						
2	12/4/2012	9:40	10:05	0.42	0.03	***						
3	12/5/2012	4:10	4:15	0.08	0.01	***						
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***						
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***						
6	12/11/2012	3:40	7:20	3.67	0.03	***						
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***						
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***						
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month	12/18/2012	2:55	3:20	0.42	0.065	0.001
10	12/25/2012	6:20	10:55	4.58	0.14	***	12/21/2012	7:50	10:55	3.08	0.062	0.008
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***						
12	12/30/2012	12:35	12:40	0.08	0.01	***						
13	12/31/2012	15:35	23:35	8.00	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.009

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street

LOCATION: 015

NPDES Permit Outfall #:

MONTH: Dec YEAR: 2012

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 3.94

Measured Snowfall: 7.7 (12/24-0.5", 12/29-7.2")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	12/2/2012	20:40	22:30	1.83	0.06	***						
2	12/4/2012	9:40	10:05	0.42	0.03	***						
3	12/5/2012	4:10	4:15	0.08	0.01	***						
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***						
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***						
6	12/11/2012	3:40	7:20	3.67	0.03	***						
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***						
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***						
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month	12/18/2012	2:45	3:50	1.08	5.916	0.267
10	12/25/2012	6:20	10:55	4.58	0.14	***	12/18/2012	4:45	5:25	0.67	3.879	0.108
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***	12/21/2012	7:40	9:50	2.17	6.435	0.581
12	12/30/2012	12:35	12:40	0.08	0.01	***						
13	12/31/2012	15:35	23:35	8.00	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.956

Note: Overflow can occur with DS sewer depth reaches 40.5"  
 Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. River & Poplar  
 016

NPDES Permit Outfall #:

MONTH: Dec YEAR: 2012

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 3.94

Measured Snowfall: 7.7 (12/24- 0.5", 12/29- 7.2")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/2/2012	20:40	22:30	1.83	0.06	***						
2	12/4/2012	9:40	10:05	0.42	0.03	***						
3	12/5/2012	4:10	4:15	0.08	0.01	***						
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***						
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***		12/10/2012	0:55	1:30	0.58	0.081
6	12/11/2012	3:40	7:20	3.67	0.03	***						
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***						
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***		12/18/2012	3:40	5:00	1.33	1.105
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month		12/21/2012	7:20	8:10	0.83	0.547
10	12/25/2012	6:20	10:55	4.58	0.14	***						
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***		12/27/2012	2:30	4:25	1.92	0.822
12	12/30/2012	12:35	12:40	0.08	0.01	***						
13	12/31/2012	15:35	23:35	8.00	0.08	***						

TOTAL MONTH  
 FLOW VOLUME = 2.555

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street  
 LOCATION: 019

NPDES Permit Outfall #:

MONTH: Dec YEAR: 2012

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 3.94

Measured Snowfall: 7.7 (12/24-0.5", 12/29- 7.2")

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		
1	12/2/2012	20:40	22:30	1.83	0.06	***					
2	12/4/2012	9:40	10:05	0.42	0.03	***					
3	12/5/2012	4:10	4:15	0.08	0.01	***					
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***					
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***					
6	12/11/2012	3:40	7:20	3.67	0.03	***					
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***					
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***					
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month					
10	12/25/2012	6:20	10:55	4.58	0.14	***					
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***					
12	12/30/2012	12:35	12:40	0.08	0.01	***					
13	12/31/2012	15:35	23:35	8.00	0.08	***					
TOTAL MONTH										FLOW VOLUME =	

0

Note:



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive  
 LOCATION: 021

NPDES Permit Outfall #:

MONTH: Dec YEAR: 2012

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 3.94

Measured Snowfall: 7.7 (12/24-0.5", 12/29- 7.2")

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/2/2012	20:40	22:30	1.83	0.06	***						
2	12/4/2012	9:40	10:05	0.42	0.03	***						
3	12/5/2012	4:10	4:15	0.08	0.01	***						
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***						
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***						
6	12/11/2012	3:40	7:20	3.67	0.03	***						
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***						
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***						
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month	12/18/2012	3:35	5:50	2.25	2.021	0.189
10	12/25/2012	6:20	10:55	4.58	0.14	***	12/21/2012	8:15	11:30	3.25	3.895	0.527
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***	12/27/2012	5:25	6:00	0.58	0.198	0.005
12	12/30/2012	12:35	12:40	0.08	0.01	***						
13	12/31/2012	15:35	23:35	8.00	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.721

Note: Meter installed 11/15/2012

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Sea Street @ South Water Street  
 NPDES Permit Outfall #: 024  
 MONTH: Dec YEAR: 2012  
 Average Low Temp: 33  
 Average High Temp: 46  
 Measured Rainfall: 3.94  
 Measured Snowfall: 7.7 (12/24-0.5", 12/29- 7.2")

EVENT NO.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/2/2012	20:40	22:30	1.83	0.06	***						
2	12/4/2012	9:40	10:05	0.42	0.03	***						
3	12/5/2012	4:10	4:15	0.08	0.01	***						
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***						
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***						
6	12/11/2012	3:40	7:20	3.67	0.03	***						
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***						
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***						
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month	12/21/2012	8:35	9:40	1.08	20.570	0.762
10	12/25/2012	6:20	10:55	4.58	0.14	***						
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***						
12	12/30/2012	12:35	12:40	0.08	0.01	***						
13	12/31/2012	15:35	23:35	8.00	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.762

Note: Overflow occurs when upstream depth reaches approx. 60" or when downstream reaches approx. 76".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Intersection of State & N. Front Street  
 025  
 NPDES Permit Outfall #: 2012  
 MONTH: Dec YEAR: 2012  
 Average Low Temp: 33  
 Average High Temp: 46  
 Measured Rainfall: 3.94  
 Measured Snowfall: 7.7 (12/24-0.5", 12/29- 7.2")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	12/2/2012	20:40	22:30	1.83	0.06	***							
2	12/4/2012	9:40	10:05	0.42	0.03	***							
3	12/5/2012	4:10	4:15	0.08	0.01	***							
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***							
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***							
6	12/11/2012	3:40	7:20	3.67	0.03	***							
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***							
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***							
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month	12/18/2012	2:30	5:30	3.00	8.302	1.038	
10	12/25/2012	6:20	10:55	4.58	0.14	***	12/21/2012	7:40	10:20	2.67	5.282	0.587	
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***	12/27/2012	5:55	12:25	6.50	3.066	0.830	
12	12/30/2012	12:35	12:40	0.08	0.01	***							
13	12/31/2012	15:35	23:35	8.00	0.08	***							

TOTAL MONTH FLOW VOLUME = 2.455

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. of Greene Street & St. John Connector  
 LOCATION: Greene

NPDES Permit Outfall #:

MONTH: Dec YEAR: 2012

Average Low Temp: 33

Average High Temp: 46

Measured Rainfall: 3.94

Measured Snowfall: 7.7 (12/24-0.5", 12/29-7.2")

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	12/2/2012	20:40	22:30	1.83	0.06	***							
2	12/4/2012	9:40	10:05	0.42	0.03	***							
3	12/5/2012	4:10	4:15	0.08	0.01	***							
4	12/7/12 - 12/8/12	13:05	7:30	18.42	0.27	***							
5	12/9/12 - 12/10/12	16:05	17:10	25.08	0.54	***							
6	12/11/2012	3:40	7:20	3.67	0.03	***							
7	12/16/12 - 12/17/12	10:00	7:00	21.00	0.60	***							
8	12/17/12 - 12/18/12	19:45	5:35	9.83	0.73	***							
9	12/20/12 - 12/21/12	21:55	10:40	12.75	0.69	1 Month							
10	12/25/2012	6:20	10:55	4.58	0.14	***							
11	12/26/12 - 12/27/12	21:10	7:05	9.92	0.75	***							
12	12/30/2012	12:35	12:40	0.08	0.01	***							
13	12/31/2012	15:35	23:35	8.00	0.08	***							
TOTAL MONTH													
FLOW VOLUME =												0	

Note:

**NOVEMBER 2012**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - NOVEMBER 2012

MONTHLY RAINFALL SUMMARY

1.00 inches of rain (3.44 inches of rain in a typical month)

9.00 inches of snow

5 rain events (10 rain events in a typical month)

all less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	0	0.000
CSO 003	REG 003	0	0.000
CSO 024	REG 024	0	0.000
CSO 009	REG 009	0	0.000
CSO 019	REG 019	0	0.000
CSO 016	REG 016	0	0.000
CSO 015	REG 015	0	0.000
CSO 010	REG 010	0	0.000
CSO 011	REGS 010A, 011, 014, 026		
CSO 012	REGS 012A, 012B	0	0.000
CSO GREENE	REG GREENE	0	0.000
CSO 025	REGS 025, 034		
CSO 021	REG 021	0	0.000
TOTAL		0	0.000

(22 CSO events in a typical month)      (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 LOCATION:                              003  
 NPDES Permit Outfall #:            Nov YEAR:                      2012  
 MONTH:                                      35  
 Average Low Temp:                      51  
 Average High Temp:                      1  
 Measured Rainfall:                      9  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0.08	0.01	***						
2	11/8/2012	9:30	12:55	3.42	0.46	***						
3	11/13/2012	5:45	14:50	9.08	0.14	***						
4	11/23/2012	23:45	0:00	0.25	0.02	***						
5	11/27/2012	7:35	19:10	11.58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												
TOTAL MONTH											0.000	
FLOW VOLUME =											0.000	

Note:                      Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: Nov YEAR: 2012

Average Low Temp: 35

Average High Temp: 51

Measured Rainfall: 1

Measured Snowfall: 9

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0:08	0.01	***						
2	11/8/2012	9:30	12:55	3:42	0.46	***						
3	11/13/2012	5:45	14:50	9:08	0.14	***						
4	11/23/2012	23:45	0:00	0:25	0.02	***						
5	11/27/2012	7:35	19:10	11:58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												
											TOTAL MONTH	0
											FLOW VOLUME =	0

Note: Overflow occurs when Interceptor level reaches 35"



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.  
 LOCATION: 005  
 NPDES Permit Outfall #:   
 MONTH: Nov YEAR: 2012  
 Average Low Temp: 35  
 Average High Temp: 51  
 Measured Rainfall: 1  
 Measured Snowfall: 9

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0.08	0.01	***						
2	11/8/2012	9:30	12:55	3.42	0.46	***						
3	11/13/2012	5:45	14:50	9.08	0.14	***						
4	11/23/2012	23:45	0:00	0.25	0.02	***						
5	11/27/2012	7:35	19:10	11.58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note: Overflow occurs when Interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street  
 LOCATION: 009

NPDES Permit Outfall #: Nov YEAR: 2012  
 MONTH: 35  
 Average Low Temp: 51  
 Average High Temp: 1  
 Measured Rainfall: 9  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0:08	0.01	***						
2	11/8/2012	9:30	12:55	3:42	0.46	***						
3	11/13/2012	5:45	14:50	9:08	0.14	***						
4	11/23/2012	23:45	0:00	0:25	0.02	***						
5	11/27/2012	7:35	19:10	11:58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												

TOTAL MONTH FLOW VOLUME = 0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      S47 East Street

LOCATION:    010

NPDES Permit Outfall #:

MONTH:    Nov    YEAR:                      2012

Average Low Temp:                      35

Average High Temp:                      51

Measured Rainfall:                      1

Measured Snowfall:                      9

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0:08	0.01	***						
2	11/8/2012	9:30	12:55	3:42	0.46	***						
3	11/13/2012	5:45	14:50	9:08	0.14	***						
4	11/23/2012	23:45	0:00	0:25	0.02	***						
5	11/27/2012	7:35	19:10	11:58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												
											TOTAL MONTH	
											FLOW VOLUME =	0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: 75 Mitchell Drive  
 12  
 NPDES Permit Outfall #: 2012  
 MONTH: Nov YEAR: 2012  
 Average Low Temp: 35  
 Average High Temp: 51  
 Measured Rainfall: 1  
 Measured Snowfall: 9

EVENT No.	RAINFALL EVENT					CSO EVENT						
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0:08	0.01	***						
2	11/8/2012	9:30	12:55	3:42	0.46	***						
3	11/13/2012	5:45	14:50	9:08	0.14	***						
4	11/23/2012	23:45	0:00	0:25	0.02	***						
5	11/27/2012	7:35	19:10	11:58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												
TOTAL MONTH											0.000	
FLOW VOLUME =												

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street  
 LOCATION: 015

NPDES Permit Outfall #:

MONTH: Nov YEAR: 2012

Average Low Temp: 35

Average High Temp: 51

Measured Rainfall: 1

Measured Snowfall: 9

EVENT No.	RAINFALL EVENT					CSO EVENT						
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0.08	0.01	***						
2	11/8/2012	9:30	12:55	3.42	0.46	***						
3	11/13/2012	5:45	14:50	9.08	0.14	***						
4	11/23/2012	23:45	0:00	0.25	0.02	***						
5	11/27/2012	7:35	19:10	11.58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow can occur with DS sewer depth reaches 40.5"  
 Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. River & Poplar 016  
 NPDES Permit Outfall #: 2012  
 MONTH: Nov YEAR: 2012  
 Average Low Temp: 35  
 Average High Temp: 51  
 Measured Rainfall: 1  
 Measured Snowfall: 9

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0.08	0.01	***						
2	11/8/2012	9:30	12:55	3.42	0.46	***						
3	11/13/2012	5:45	14:50	9.08	0.14	***						
4	11/23/2012	23:45	0:00	0.25	0.02	***						
5	11/27/2012	7:35	19:10	11.58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												

TOTAL MONTH FLOW VOLUME = 0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street  
 LOCATION: 019

NPDES Permit Outfall #:

MONTH: Nov YEAR: 2012

Average Low Temp: 35

Average High Temp: 51

Measured Rainfall: 1

Measured Snowfall: 9

EVENT NO.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0.08	0.01	***						
2	11/8/2012	9:30	12:55	3.42	0.46	***						
3	11/13/2012	5:45	14:50	9.08	0.14	***						
4	11/23/2012	23:45	0:00	0.25	0.02	***						
5	11/27/2012	7:35	19:10	11.58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												
											TOTAL MONTH	
											FLOW VOLUME =	0

Note:



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive  
 LOCATION: 021

NPDES Permit Outfall #:

MONTH: Nov YEAR: 2012

Average Low Temp: 35

Average High Temp: 51

Measured Rainfall: 1

Measured Snowfall: 9

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0.08	0.01	***						
2	11/8/2012	9:30	12:55	3.42	0.46	***						
3	11/13/2012	5:45	14:50	9.08	0.14	***						
4	11/23/2012	23:45	0:00	0.25	0.02	***						
5	11/27/2012	7:35	19:10	11.58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												

TOTAL MONTH FLOW VOLUME = 0

Note: Meter Installed 11/15/2012

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Sea Street @ South Water Street  
 024

NPDES Permit Outfall #:

Nov YEAR: 2012

MONTH: 35

Average Low Temp: 51

Average High Temp: 1

Measured Rainfall: 9

Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0:08	0.01	***						
2	11/8/2012	9:30	12:55	3:42	0.46	***						
3	11/13/2012	5:45	14:50	9:08	0.14	***						
4	11/23/2012	23:45	0:00	0:25	0.02	***						
5	11/27/2012	7:35	19:10	11:58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												
											TOTAL MONTH FLOW VOLUME =	0

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. of Greene Street & St. John Connector  
 NPDES Permit Outfall #: Greene  
 MONTH: Nov YEAR: 2012  
 Average Low Temp: 35  
 Average High Temp: 51  
 Measured Rainfall: 1  
 Measured Snowfall: 9

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/2/2012	7:25	7:30	0.08	0.01	***						
2	11/8/2012	9:30	12:55	3.42	0.46	***						
3	11/13/2012	5:45	14:50	9.08	0.14	***						
4	11/23/2012	23:45	0:00	0.25	0.02	***						
5	11/27/2012	7:35	19:10	11.58	0.37	***						
6												
7												
8												
9												
10												
11												
12												
13												
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note:

**OCTOBER 2012**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - OCTOBER 2012

MONTHLY RAINFALL SUMMARY

3.37 inches of rain (3.44 inches of rain in a typical month)

0 inches of snow

13 rain events (10 rain events in a typical month)

Two storms 1 month 12 hour return frequency. All other storms less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	0	0.000
CSO 005	REG 005	3	0.027
CSO 004	REG 004	4	0.811
CSO 003	REG 003	4	0.738
CSO 024	REG 024	2	3.097
CSO 009	REG 009	4	0.101
CSO 019	REG 019	1	0.009
CSO 016	REG 016	5	3.802
CSO 015	REG 015	0	0.000
CSO 010	REG 010	4	0.057
CSO 011	REGS 010A, 011, 014, 026		
CSO 012	REGS 012A, 012B	4	0.010
CSO GREENE	REG GREENE	0	0.000
CSO 025	REGS 025, 034		
CSO 021	REG 021		
<b>TOTAL</b>		<b>31</b>	<b>8.652</b>

(22 CSO events in a typical month) (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ int. of Ella T. Grasso Blvd.

LOCATION: 003

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT							CSO EVENT				
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***	10/2/2012	14:40	20:45	6.08	0.809	0.205
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***						
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***						
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***	10/15/2012	18:50	19:35	0.75	1.763	0.055
9	10/19/2012	1:35	16:45	15.17	1.05	1 month	10/19/2012	4:55	7:40	2.75	3.761	0.431
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***	10/29/2012	16:40	17:50	1.17	0.967	0.047
11	10/29/2012	7:45	23:30	15.75	0.46	1 month						
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						
TOTAL MONTH											FLOW VOLUME =	0.738

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #: 004

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***	10/2/2012	14:10	20:50	6.67	0.741	0.206
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***						
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***						
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***	10/15/2012	18:50	21:10	2.33	0.882	0.086
9	10/19/2012	1:35	16:45	15.17	1.05	1 month	10/19/2012	4:35	17:10	12.58	0.680	0.357
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***						
11	10/29/2012	7:45	23:30	15.75	0.46	1 month	10/29/2012	16:25	18:15	1.83	2.122	0.162
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.811

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***	10/2/2012	13:45	20:10	6.42	0.040	0.011
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***						
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***						
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***	10/15/2012	18:35	19:10	0.58	0.191	0.005
9	10/19/2012	1:35	16:45	15.17	1.05	1 month	10/19/2012	4:40	7:05	2.42	0.106	0.011
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***						
11	10/29/2012	7:45	23:30	15.75	0.46	1 month						
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.027

Note: Overflow occurs when Interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yds from Fitch Street

LOCATION: 6

NPDES Permit Outfall #: 6

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10:00	0.60	***						
2	10/3/2012	12:35	12:40	0:08	0.01	***						
3	10/4/2012	18:55	20:00	1:08	0.11	***						
4	10/6/2012	15:45	15:55	0:17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12:75	0.12	***						
6	10/10/2012	4:10	11:50	7:67	0.27	***						
7	10/12/2012	10:55	11:00	0:08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7:08	0.41	***						
9	10/19/2012	1:35	16:45	15:17	1.05	1 month						
10	10/23 - 10/24/12	20:15	9:00	12:75	0.22	***						
11	10/29/2012	7:45	23:30	15:75	0.46	1 month						
12	10/30/2012	4:05	20:10	16:08	0.03	***						
13	10/31/2012	5:35	5:40	0:08	0.01	***						
TOTAL MONTH											0	
FLOW VOLUME =											0	

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Grand Avenue & James Street  
 009

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012  
 Average Low Temp: 29  
 Average High Temp: 77  
 Measured Rainfall: 3.37  
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***						
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***	10/4/2012	19:30	20:25	0.92	0.046	0.002
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***	10/10/2012	8:40	9:45	1.08	0.165	0.007
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***	10/15/2012	18:45	21:20	2.58	0.033	0.004
9	10/19/2012	1:35	16:45	15.17	1.05	1 month	10/19/2012	4:15	11:20	7.08	0.046	0.014
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***						
11	10/29/2012	7:45	23:30	15.75	0.46	1 month	10/29/2012	16:15	17:05	0.83	2.138	0.074
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME =

0.101

Note: Meters Installed 10/3/12

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: 547 East Street  
 010

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp:

Average High Temp:

Measured Rainfall:

Measured Snowfall:

29

77

3.37

0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***	10/2/2012	19:10	19:50	0.67	0.226	0.006
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***						
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***						
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***	10/15/2012	18:40	19:05	0.42	0.343	0.006
9	10/19/2012	1:35	16:45	15.17	1.05	1 month	10/19/2012	6:10	7:35	1.42	0.192	0.011
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***						
11	10/29/2012	7:45	23:30	15.75	0.46	1 month	10/29/2012	17:05	18:05	1.00	0.804	0.034
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						

TOTAL MONTH  
 FLOW VOLUME =

0.057

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 12

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***	10/2/2012	19:30	20:05	0.58	0.312	0.008
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***						
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***						
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***	10/15/2012	18:55	19:15	0.33	0.085	0.001
9	10/19/2012	1:35	16:45	15.17	1.05	1 month	10/19/2012	6:45	6:50	0.08	0.059	0.000
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***						
11	10/29/2012	7:45	23:30	15.75	0.46	1 month	10/29/2012	16:35	17:10	0.58	0.053	0.001
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.010

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street  
 LOCATION: 015

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	10/2/2012	13:10	23:10	10.00	0.60	***							
2	10/3/2012	12:35	12:40	0.08	0.01	***							
3	10/4/2012	18:55	20:00	1.08	0.11	***							
4	10/6/2012	15:45	15:55	0.17	0.07	***							
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***							
6	10/10/2012	4:10	11:50	7.67	0.27	***							
7	10/12/2012	10:55	11:00	0.08	0.01	***							
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***							
9	10/19/2012	1:35	16:45	15.17	1.05	1 month							
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***							
11	10/29/2012	7:45	23:30	15.75	0.46	1 month							
12	10/30/2012	4:05	20:10	16.08	0.03	***							
13	10/31/2012	5:35	5:40	0.08	0.01	***							

TOTAL MONTH FLOW VOLUME = 0

Note: Meters Installed 10/3/12

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. River & Poplar  
 016

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***	10/2/2012	14:05	16:10	6.17	15.991	1.388
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***						
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***	10/10/2012	8:35	11:25	2.83	7.173	0.847
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***	10/15/2012	18:40	21:10	2.50	2.411	0.251
9	10/19/2012	1:35	16:45	15.17	1.05	1 month	10/19/2012	4:25	7:45	3.33	7.632	1.060
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***						
11	10/29/2012	7:45	23:30	15.75	0.46	1 month	10/29/2012	16:30	17:55	1.42	4.339	0.256
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						

TOTAL MONTH  
 FLOW VOLUME =

3.802

Note: Meter Malfunction 9/28/12 @ 18:45 until 10/2/12 @ 13:05

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street  
 LOCATION: 019

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***						
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***						
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***						
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***						
9	10/19/2012	1:35	16:45	15.17	1.05	1 month						
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***						
11	10/29/2012	7:45	23:30	15.75	0.46	1 month	10/29/2012	17:15	17:55	0.67	0.325	0.009
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.009

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street

LOCATION: 024

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT					CSO EVENT						
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10.00	0.60	***	10/2/2012	14:20	16:35	2.25	23.551	2.208
2	10/3/2012	12:35	12:40	0.08	0.01	***						
3	10/4/2012	18:55	20:00	1.08	0.11	***						
4	10/6/2012	15:45	15:55	0.17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12.75	0.12	***						
6	10/10/2012	4:10	11:50	7.67	0.27	***						
7	10/12/2012	10:55	11:00	0.08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7.08	0.41	***	10/15/2012	20:40	22:00	1.33	16.007	0.889
9	10/19/2012	1:35	16:45	15.17	1.05	1 month						
10	10/23 - 10/24/12	20:15	9:00	12.75	0.22	***						
11	10/29/2012	7:45	23:30	15.75	0.46	1 month						
12	10/30/2012	4:05	20:10	16.08	0.03	***						
13	10/31/2012	5:35	5:40	0.08	0.01	***						
TOTAL MONTH											FLOW VOLUME =	3.097

Note: DS Meter malfunctioned 10/24/12 at 21:10 to 10/29/12 at 22:20

Overflow occurs when upstream depth reaches approx. 60" or when downstream reaches approx. 76".



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. of Greene Street & St. John Connector  
 LOCATION: Greene

NPDES Permit Outfall #:

MONTH: Oct YEAR: 2012

Average Low Temp: 29

Average High Temp: 77

Measured Rainfall: 3.37

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/2/2012	13:10	23:10	10:00	0.60	***						
2	10/3/2012	12:35	12:40	0:08	0.01	***						
3	10/4/2012	18:55	20:00	1:08	0.11	***						
4	10/6/2012	15:45	15:55	0:17	0.07	***						
5	10/07 - 10/08/12	12:40	1:25	12:75	0.12	***						
6	10/10/2012	4:10	11:50	7:67	0.27	***						
7	10/12/2012	10:55	11:00	0:08	0.01	***						
8	10/15 - 10/16/12	18:25	1:40	7:08	0.41	***						
9	10/19/2012	1:35	16:45	15:17	1.05	1 month						
10	10/23 - 10/24/12	20:15	9:00	12:75	0.22	***						
11	10/29/2012	7:45	23:30	15:75	0.46	1 month						
12	10/30/2012	4:05	20:10	16:08	0.03	***						
13	10/31/2012	5:35	5:40	0:08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0

Note:

**SEPTEMBER 2012**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - SEPTEMBER 2012

MONTHLY RAINFALL SUMMARY

6.07 inches of rain (3.44 inches of rain in a typical month)  
 0 inches of snow

8 rain events (10 rain events in a typical month)

one storm 2 year 2 hour and one 5 year 18 hour return frequency. All other storms less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	3	1.516
CSO 005	REG 005	6	1.231
CSO 004	REG 004	7	8.570
CSO 003	REG 003	6	5.008
CSO 024	REG 024	2	6.091
CSO 009	REG 009		
CSO 019	REG 019	2	0.163
CSO 016	REG 016	5	4.015
CSO 015	REG 015		
CSO 010	REG 010	3	0.671
CSO 011	REGS 010A, 011, 014, 026		
CSO 012	REGS 012A, 012B	5	0.290
CSO GREENE	REG GREENE	2	0.074
CSO 025	REGS 025, 034		
CSO 021	REG 021		
<b>TOTAL</b>		<b>41</b>	<b>27.629</b>

(22 CSO events in a typical month) (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 LOCATION: 003  
 NPDES Permit Outfall #: Sept YEAR: 2012  
 MONTH: 56  
 Average Low Temp: 74  
 Average High Temp: 6.07  
 Measured Rainfall: 0  
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT								CSO EVENT				
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	9/4/2012	3:20	11:55	8.42	0.38	***	9/4/2012	5:45	7:05	1.33	3.956	0.220	
2	9/5/2012	1:45	12:30	10.75	0.56	***	9/5/2012	2:35	3:55	1.33	4.726	0.263	
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***	9/8/2012	20:05	21:10	1.08	3.274	0.148	
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/18/12-9-19-12	21:55	0:30	2.58	11.737	1.263	
5	9/26/2012	18:30	18:40	0.16	0.02	***	9/26/2012	19:10	19:55	0.75	2.233	0.070	
6	9/27/2012	6:15	6:20	0.08	0.01	***							
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	11:15	16:00	4.75	14.008	2.772	
8	9/30/2012	17:15	17:40	0.42	0.06	***	9/28/2012	20:30	21:45	1.25	5.213	0.272	

TOTAL MONTH FLOW VOLUME = 5.008

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSD EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: Sept YEAR: 2012

Average Low Temp: 56

Average High Temp: 74

Measured Rainfall: 6.07

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)			
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START		STOP	DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2012	3:20	11:55	8.42	0.38	***	9/4/2012	5:45	7:25	1.67	2.309	0.160
2	9/5/2012	1:45	12:30	10.75	0.56	***	9/5/2012	2:30	4:10	1.66	6.868	0.477
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***	9/8/2012	19:50	21:15	1.42	2.181	0.129
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/18/2012-9/19/12	21:50	0:35	2.75	12.372	1.418
5	9/26/2012	18:30	18:40	0.16	0.02	***	9/26/2012	19:00	20:00	1	1.803	0.075
6	9/27/2012	6:15	6:20	0.08	0.01	***						
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	10:55	16:10	5.25	23.429	5.125
							9/28/2012	20:05	22:25	2.33	11.891	1.156
8	9/30/2012	17:15	17:40	0.42	0.06	***	9/30/2012	17:45	18:30	0.75	0.954	0.030

TOTAL MONTH FLOW VOLUME =

8.57

Note: Overflow occurs when interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: Sept YEAR: 2012

Average Low Temp: 56

Average High Temp: 74

Measured Rainfall: 6.07

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	9/4/2012	3:20	11:55	8.42	0.38	***	9/4/2012	4:40	4:50	0.16	0.246	0.002
2	9/5/2012	1:45	12:30	10.75	0.56	***	9/4/2012	5:30	6:00	0.5	0.240	0.005
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***	9/5/2012	2:20	3:00	0.67	0.391	0.011
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/8/2012	19:55	20:10	0.25	0.078	0.001
5	9/26/2012	18:30	18:40	0.16	0.02	***	9/18/2012	21:45	22:55	1.17	1.703	0.083
6	9/27/2012	6:15	6:20	0.08	0.01	***	9/26/2012	18:40	19:00	0.33	0.182	0.003
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	11:20	14:40	3.33	5.767	0.801
8	9/30/2012	17:15	17:40	0.42	0.06	***	9/28/2012	20:20	21:20	1.00	7.802	0.325

TOTAL MONTH FLOW VOLUME = 1.231

Note: Overflow occurs when Interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Whalley Ave. 30 yds from Fitch Street  
 NPDES Permit Outfall #: 6  
 MONTH: Sept YEAR: 2012  
 Average Low Temp: 56  
 Average High Temp: 74  
 Measured Rainfall: 6.07  
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	9/4/2012	3:20	11:55	8.42	0.38	***						
2	9/5/2012	1:45	12:30	10.75	0.56	***						
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***						
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/18/2012	22:05	23:25	1.33	1.540	0.308
5	9/26/2012	18:30	18:40	0.16	0.02	***						
6	9/27/2012	6:15	6:20	0.08	0.01	***						
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	12:25	15:05	2.67	3.801	0.863
8	9/30/2012	17:15	17:40	0.42	0.06	***	9/28/2012	20:30	21:35	1.08	3.185	0.345
										TOTAL MONTH		1.516
										FLOW VOLUME =		

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      547 East Street  
 LOCATION:                              010  
 NPDES Permit Outfall #:                      2012  
 MONTH:                                      Sept YEAR:                                      2012  
 Average Low Temp:                              56  
 Average High Temp:                              74  
 Measured Rainfall:                              6.07  
 Measured Snowfall:                              0

EVENT NO.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/4/2012	3:20	11:55	8.42	0.38	***						
2	9/5/2012	1:45	12:30	10.75	0.56	***						
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***						
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/18/2012	21:50	22:50	1	2.728	0.114
5	9/26/2012	18:30	18:40	0.16	0.02	***	9/26/2012	18:55	20:25	1.5	0.051	0.003
6	9/27/2012	6:15	6:20	0.08	0.01	***						
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	13:25	14:50	1.42	9.157	0.541
8	9/30/2012	17:15	17:40	0.42	0.06	***	9/28/2012	20:40	21:00	0.33	0.905	0.013

TOTAL MONTH FLOW VOLUME = 0.671

Note: Meter Installed 09/12/12



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: 75 Mitchell Drive  
 12  
 NPDES Permit Outfall #:  
 MONTH: Sept YEAR: 2012  
 Average Low Temp: 56  
 Average High Temp: 74  
 Measured Rainfall: 6.07  
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT					CSO EVENT						
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/4/2012	3:20	11:55	8.42	0.38	***	9/4/2012	5:55	6:25	0.5	0.312	0.006
2	9/5/2012	1:45	12:30	10.75	0.56	***	9/5/2012	2:35	3:15	0.67	0.533	0.015
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***	9/8/2012	20:10	20:40	0.5	0.100	0.002
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/9/2012	2:30	2:35	0.08	1.434	0.005
5	9/26/2012	18:30	18:40	0.16	0.02	***	9/18/2012	21:55	23:25	1.5	1.082	0.068
6	9/27/2012	6:15	6:20	0.08	0.01	***						
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	11:55	15:05	3.17	1.174	0.157
8	9/30/2012	17:15	17:40	0.42	0.06	***	9/28/2012	20:35	21:25	0.83	1.062	0.037

TOTAL MONTH FLOW VOLUME =

0.29

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                    Int. River & Poplar  
 LOCATION:                            016  
 NPDES Permit Outfall #:            Sept YEAR:                    2012  
 MONTH:                                56  
 Average Low Temp:                    74  
 Average High Temp:                    6.07  
 Measured Rainfall:                    0  
 Measured Snowfall:

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/4/2012	3:20	11:55	8.42	0.38	***	9/4/2012	5:50	7:10	1.33	1.895	0.105
2	9/5/2012	1:45	12:30	10.75	0.56	***	9/5/2012	2:30	3:30	1	5.247	0.219
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***						
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/18/2012	21:55	23:05	1.16	19.47	0.946
5	9/26/2012	18:30	18:40	0.16	0.02	***	9/26/2012	19:10	19:15	0.08	1.007	0.003
6	9/27/2012	6:15	6:20	0.08	0.01	***						
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	12:10	16:00	3.83	17.168	2.742
8	9/30/2012	17:15	17:40	0.42	0.06	***						
TOTAL MONTH											FLOW VOLUME = 4.015	

Note:                    Meter Installed 8/30/12  
                               Meter Malfunction 9/28/12 @ 18:45 until 10/2/12 @ 13:05

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street

LOCATION: 019

NPDES Permit Outfall #:

MONTH: Sept YEAR: 2012

Average Low Temp: 56

Average High Temp: 74

Measured Rainfall: 6.07

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/4/2012	3:20	11:55	8.42	0.38	***						
2	9/5/2012	1:45	12:30	10.75	0.56	***						
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***						
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/18/2012	22:05	22:50	0.75	1.689	0.053
5	9/26/2012	18:30	18:40	0.16	0.02	***						
6	9/27/2012	6:15	6:20	0.08	0.01	***						
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	12:35	15:00	2.42	1.089	0.110
8	9/30/2012	17:15	17:40	0.42	0.06	***						
											TOTAL MONTH FLOW VOLUME =	0.163

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street

LOCATION: 024

NPDES Permit Outfall #:

MONTH: Sept YEAR: 2012

Average Low Temp: 56

Average High Temp: 74

Measured Rainfall: 6.07

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2012	3:20	11:55	8.42	0.38	***						
2	9/5/2012	1:45	12:30	10.75	0.56	***						
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***						
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/18/12-9/19/12	22:05	0:25	2.33	22.276	2.166
5	9/26/2012	18:30	18:40	0.16	0.02	***						
6	9/27/2012	6:15	6:20	0.08	0.01	***						
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	12:20	15:55	3.58	26.285	3.925
8	9/30/2012	17:15	17:40	0.42	0.06	***						

TOTAL MONTH FLOW VOLUME = 6.091

Note: Overflow occurs when upstream depth reaches approx. 60" or when downstream reaches approx. 76".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. of Greene Street & St. John Connector

LOCATION: Greene

NPDES Permit Outfall #:

MONTH: Sept YEAR: 2012

Average Low Temp: 56

Average High Temp: 74

Measured Rainfall: 6.07

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)			
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START		STOP	DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2012	3:20	11:55	8.42	0.38	***						
2	9/5/2012	1:45	12:30	10.75	0.56	***						
3	9/8/12 - 9/9/12	19:10	3:15	8.08	0.26	***						
4	9/18/2012	21:35	23:15	1.67	1.39	2 year	9/18/2012	21:55	22:20	0.42	0.969	0.017
5	9/26/2012	18:30	18:40	0.16	0.02	***						
6	9/27/2012	6:15	6:20	0.08	0.01	***						
7	9/28/2012	1:15	20:20	19.08	3.39	5 year	9/28/2012	13:25	14:25	1	1.359	0.057
8	9/30/2012	17:15	17:40	0.42	0.06	***						
TOTAL MONTH											FLOW VOLUME =	0.074

Note:

**AUGUST 2012**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - AUGUST 2012

MONTHLY RAINFALL SUMMARY

5.67 inches of rain (3.44 inches of rain in a typical month)  
 0 inches of snow  
 9 rain events (10 rain events in a typical month)  
 one 1 month 3 hour, three 6 month 1 hour storms and one 50 year 4 hour return frequency.  
 All other storms less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	4	1.134
CSO 005	REG 005	4	0.448
CSO 004	REG 004	5	3.892
CSO 003	REG 003	2	0.577
CSO 024	REG 024	3	3.120
CSO 009	REG 009		
CSO 019	REG 019	1	0.027
CSO 016	REG 016		
CSO 015	REG 015		
CSO 010	REG 010		
CSO 011	REGS 010A, 011, 014, 026		
CSO 012	REGS 012A, 012B	2	0.059
CSO GREENE	REG GREENE	1	0.037
CSO 025	REGS 025, 034		
CSO 021	REG 021		
<b>TOTAL</b>		<b>22</b>	<b>9.294</b>

(22 CSO events in a typical month) (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 LOCATION: 003  
 NPDES Permit Outfall #: August YEAR: 2012  
 MONTH: 65  
 Average Low Temp: 81  
 Average High Temp: 5.67  
 Measured Rainfall: 0  
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATIO N (hours)
1	8/1/2012	10:50	11:00	0.17	0.07	***	8/5/2012	20:55	22:15	1.33	7.62	0.423
2	8/5/2012	20:30	21:35	1.08	0.55	6 month	8/6/2012	2:30	3:45	1.25	2.954	0.154
3	8/6/2012	1:45	4:45	3	0.39	1 month						
4	8/10/2012	13:30	15:35	4	2.42	50 year						
5	8/11/2012	11:45	12:30	0.75	0.5	6 month						
6	8/12/2012	6:15	7:55	1.67	0.65	6 month						
7	8/15/2012	6:25	20:55	14.5	0.73	1 month						
8	8/17/12 - 8/18/12	22:20	10:05	11.75	0.24	***						
9	8/27/2012	14:40	15:20	0.67	0.12	***						

TOTAL MONTH FLOW VOLUME = 0.577

Note: Overflow occurs when interceptor level reaches 46"  
 Meter failure occurred 8/10/12 through 8/27/12



FLOW MONITORING REPORT SUMMARY TABLE

C50 EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: August YEAR: 2012

Average Low Temp: 65

Average High Temp: 81

Measured Rainfall: 5.67

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/1/2012	10:50	11:00	0.17	0.07	***						
2	8/5/2012	20:30	21:35	1.08	0.55	6 month	8/5/2012	20:50	22:45	1.92	6.173	0.493
3	8/6/2012	1:45	4:45	3	0.39	1 month	8/6/2012	2:25	4:05	1.67	2.259	0.157
4	8/10/2012	13:30	15:35	4	2.42	50 year	8/10/2012	14:30	20:35	6.08	5.837	1.479
5	8/11/2012	11:45	12:30	0.75	0.5	6 month	8/11/2012	12:30	15:05	2.58	9.331	1.004
6	8/12/2012	6:15	7:55	1.67	0.65	6 month						
7	8/15/2012	6:25	20:55	14.5	0.73	1 month	8/15/2012	6:45	8:45	2	9.105	0.759
8	8/17/12 - 8/18/12	22:20	10:05	11.75	0.24	***						
9	8/27/2012	14:40	15:20	0.67	0.12	***						

TOTAL MONTH FLOW VOLUME = 3.892

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.  
 LOCATION: 005

NPDES Permit Outfall #:

MONTH: August YEAR: 2012

Average Low Temp: 65

Average High Temp: 81

Measured Rainfall: 5.67

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)		
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START			STOP	DURATION (hours)
1	8/1/2012	10:50	11:00	0.17	0.07	***						
2	8/5/2012	20:30	21:35	1.08	0.55	6 month	8/5/2012	20:40	21:45	1.08	7.838	0.354
3	8/6/2012	1:45	4:45	3	0.39	1 month	8/6/2012	2:00	4:05	2.08	0.473	0.041
4	8/10/2012	13:30	15:35	4	2.42	50 year						
5	8/11/2012	11:45	12:30	0.75	0.5	6 month						
6	8/12/2012	6:15	7:55	1.67	0.65	6 month						
7	8/15/2012	6:25	20:55	14.5	0.73	1 month						
8	8/17/12 - 8/18/12	22:20	10:05	11.75	0.24	***	8/18/2012	2:40	7:05	4.42	0.283	0.052
9	8/27/2012	14:40	15:20	0.67	0.12	***	8/27/2012	14:50	15:05	0.25	0.099	0.001

TOTAL MONTH FLOW VOLUME = 0.448

Note: Overflow occurs when Interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in Meter failure occurred 8/10/12 through 8/15/12

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Whalley Ave. 30 yds from Fitch Street  
 NPDES Permit Outfall #: 6  
 MONTH: August YEAR: 2012  
 Average Low Temp: 65  
 Average High Temp: 81  
 Measured Rainfall: 5.67  
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT					CSO EVENT						
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/1/2012	10:50	11:00	0.17	0.07	***	8/5/2012	20:55	21:50	0.92	1.219	0.106
2	8/5/2012	20:30	21:35	1.08	0.55	6 month	8/10/2012	15:15	17:25	2.17	1.963	0.408
3	8/6/2012	1:45	4:45	3	0.39	1 month	8/11/2012	12:40	14:05	1.42	2.448	0.268
4	8/10/2012	13:30	15:35	4	2.42	50 year	8/15/2012	6:50	8:00	1.17	2.971	0.352
5	8/11/2012	11:45	12:30	0.75	0.5	6 month						
6	8/12/2012	6:15	7:55	1.67	0.65	6 month						
7	8/15/2012	6:25	20:55	14.5	0.73	1 month						
8	8/17/12 - 8/18/12	22:20	10:05	11.75	0.24	***						
9	8/27/2012	14:40	15:20	0.67	0.12	***						
TOTAL MONTH											FLOW VOLUME =	1.134

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 12

NPDES Permit Outfall #:

MONTH: August YEAR: 2012

Average Low Temp: 65

Average High Temp: 81

Measured Rainfall: 5.67

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	8/1/2012	10:50	11:00	0.17	0.07	***						
2	8/5/2012	20:30	21:35	1.08	0.55	6 month						
3	8/6/2012	1:45	4:45	3	0.39	1 month						
4	8/10/2012	13:30	15:35	4	2.42	50 year						
5	8/11/2012	11:45	12:30	0.75	0.5	6 month						
6	8/12/2012	6:15	7:55	1.67	0.65	6 month						
7	8/15/2012	6:25	20:55	14.5	0.73	1 month		6:45	7:35	0.83	1.563	0.055
8	8/17/12 - 8/18/12	22:20	10:05	11.75	0.24	***		4:30	4:35	0.08	1.197	0.004
9	8/27/2012	14:40	15:20	0.67	0.12	***						
										TOTAL MONTH		0.059
										FLOW VOLUME =		

Note: Meter installed 8/13/12

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      279 Front Street  
 LOCATION:                              019  
 NPDES Permit Outfall #:                      August YEAR:                      2012  
 MONTH:                                      65  
 Average Low Temp:                              81  
 Average High Temp:                              5.67  
 Measured Rainfall:                              0  
 Measured Snowfall:

EVENT No.	RAINFALL EVENT					CSO EVENT						
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/1/2012	10:50	11:00	0.17	0.07	***						
2	8/5/2012	20:30	21:35	1.08	0.55	6 month						
3	8/6/2012	1:45	4:45	3	0.39	1 month						
4	8/10/2012	13:30	15:35	4	2.42	50 year						
5	8/11/2012	11:45	12:30	0.75	0.5	6 month						
6	8/12/2012	6:15	7:55	1.67	0.65	6 month						
7	8/15/2012	6:25	20:55	14.5	0.73	1 month	8/15/2012	6:55	7:30	0.33	1.102	0.027
8	8/17/12 - 8/18/12	22:20	10:05	11.75	0.24	***						
9	8/27/2012	14:40	15:20	0.67	0.12	***						
TOTAL MONTH											FLOW VOLUME =	
											0.027	

Note:                      Meter installed 8/13/12

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Int. of Greene Street & St. John Connector  
 NPDES Permit Outfall #: Greene  
 MONTH: August YEAR: 2012  
 Average Low Temp: 65  
 Average High Temp: 81  
 Measured Rainfall: 5.67  
 Measured Snowfall: 0

EVENT NO.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/1/2012	10:50	11:00	0.17	0.07	***						
2	8/5/2012	20:30	21:35	1.08	0.55	6 month						
3	8/6/2012	1:45	4:45	3	0.39	1 month						
4	8/10/2012	13:30	15:35	4	2.42	50 year						
5	8/11/2012	11:45	12:30	0.75	0.5	6 month						
6	8/12/2012	6:15	7:55	1.67	0.65	6 month						
7	8/15/2012	6:25	20:55	14.5	0.73	1 month		6:45	7:10	0.42	2.129	0.037
8	8/17/12 - 8/18/12	22:20	10:05	11.75	0.24	***						
9	8/27/2012	14:40	15:20	0.67	0.12	***						
TOTAL MONTH											FLOW VOLUME =	0.037

Note: Meter installed 8/14/12

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Sea Street @ South Water Street  
 024

NPDES Permit Outfall #:

MONTH: August YEAR: 2012

Average Low Temp: 65

Average High Temp: 81

Measured Rainfall: 5.67

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q, volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Q,avg (MGD)
1	8/1/2012	10:50	11:00	0.17	0.07	***						
2	8/5/2012	20:30	21:35	1.08	0.55	6 month						
3	8/6/2012	1:45	4:45	3	0.39	1 month						
4	8/10/2012	13:30	15:35	4	2.42	50 year	8/10/2012	15:15	18:15	3.00	17.098	2.137
5	8/11/2012	11:45	12:30	0.75	0.5	6 month	8/11/2012	12:50	13:50	1.00	18.485	0.770
6	8/12/2012	6:15	7:55	1.67	0.65	6 month						
7	8/15/2012	6:25	20:55	14.5	0.73	1 month	8/15/2012	7:05	7:30	0.42	12.258	0.213
8	8/17/12 - 8/18/12	22:20	10:05	11.75	0.24	***						
9	8/27/2012	14:40	15:20	0.67	0.12	***						
<b>TOTAL MONTH</b>											<b>FLOW VOLUME =</b>	<b>3.12</b>

Note: Meter installed 7/30/12

Overflow occurs when upstream depth reaches approx. 60" or when downstream reaches approx. 76".

**JULY 2012**



GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - JULY 2012

MONTHLY RAINFALL SUMMARY

2.78 inches of rain (3.44 inches of rain in a typical month)

0 inches of snow

13 rain events (10 rain events in a typical month)

one 1 month 8 hour and one 6 month 3 hour storm return frequency.

All other storms less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	1	0.892
CSO 005	REG 005	6	1.254
CSO 004	REG 004	6	2.042
CSO 003	REG 003	2	1.815
CSO 024	REG 024		
CSO 009	REG 009		
CSO 019	REG 019		
CSO 016	REG 016		
CSO 015	REG 015		
CSO 010	REG 010		
CSO 011	REGS 010A, 011, 014, 026		
CSO 012	REGS 012A, 012B		
CSO GREENE	REG GREENE		
CSO 025	REGS 025, 034		
CSO 021	REG 021		
TOTAL		15	6.003

(22 CSO events in a typical month) (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.  
 003  
 NPDES Permit Outfall #: July YEAR: 2012  
 MONTH: 66  
 Average Low Temp: 83  
 Average High Temp: 2.78  
 Measured Rainfall: 0  
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/4/2012	4:25	21:20	16.92	0.08	***						
2	7/7/2012	19:25	19:30	0.08	0.01	***						
3	7/14/2012	5:05	5:40	0.5	0.03	***						
4	7/15/12 - 7/16/12	17:15	0:45	7.5	0.76	1 month	7/15/2012	18:20	19:15	0.92	7.133	0.272
5	7/16/2012	6:10	6:15	0.08	0.01	***	7/15/12 - 7/16/12	23:55	1:25	1.5	4.449	0.278
6	7/18/2012	15:35	16:30	0.92	0.06	***						
7	7/19/2012	7:25	8:05	0.67	0.1	***						
8	7/20/2012	9:35	17:45	8.17	0.3	***						
9	7/23/2012	9:25	10:25	1	0.11	***						
10	7/24/2012	17:30	17:55	0.42	0.08	***						
11	7/26/2012	7:45	21:35	13.83	0.21	***						
12	7/28/2012	10:05	18:45	8.67	1.02	6 month	7/28/2012	16:00	19:35	3.58	8.472	1.265
13	7/29/2012	11:15	11:20	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 1.815

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Eila T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: July YEAR: 2012

Average Low Temp: 66

Average High Temp: 83

Measured Rainfall: 2.78

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START		STOP	DURATION (hours)
1	7/4/2012	4:25	21:20	16.92	0.08	***					
2	7/7/2012	19:25	19:30	0.08	0.01	***					
3	7/14/2012	5:05	5:40	0.5	0.03	***					
4	7/15/12 - 7/16/12	17:15	0:45	7.5	0.76	1 month	7/15/2012	18:15	19:30	1.25	3.989
5	7/16/2012	6:10	6:15	0.08	0.01	***	7/15/12 - 7/16/12	22:50	1:50	3	2.414
6	7/18/2012	15:35	16:30	0.92	0.06	***					
7	7/19/2012	7:25	8:05	0.67	0.1	***					
8	7/20/2012	9:35	17:45	8.17	0.3	***	7/20/2012	16:15	17:05	0.83	0.478
9	7/23/2012	9:25	10:25	1	0.11	***	7/23/2012	10:30	10:45	0.25	0.191
10	7/24/2012	17:30	17:55	0.42	0.08	***	7/24/2012	18:15	19:00	0.75	0.450
11	7/26/2012	7:45	21:35	13.83	0.21	***	7/26/2012	20:25	20:50	0.42	0.227
12	7/28/2012	10:05	18:45	8.67	1.02	6 month	7/28/2012	15:55	19:50	3.92	9.163
13	7/29/2012	11:15	11:20	0.08	0.01	***					

TOTAL MONTH FLOW VOLUME = 2.042

Note: Overflow occurs when interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.  
 LOCATION: 005  
 NPDES Permit Outfall #: July YEAR: 2012  
 MONTH: 66  
 Average Low Temp: 83  
 Average High Temp: 2.78  
 Measured Rainfall: 0  
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/4/2012	4:25	21:20	16.92	0.08	***						
2	7/7/2012	19:25	19:30	0.08	0.01	***						
3	7/14/2012	5:05	5:40	0.5	0.03	***						
4	7/15/12 - 7/16/12	17:15	0:45	7.5	0.76	1 month	7/15/2012	17:50	18:50	1	2.473	0.103
5	7/16/2012	6:10	6:15	0.08	0.01	***	7/15/12 - 7/16/12	21:45	1:00	3.25	0.834	0.113
6	7/18/2012	15:35	16:30	0.92	0.06	***						
7	7/19/2012	7:25	8:05	0.67	0.1	***						
8	7/20/2012	9:35	17:45	8.17	0.3	***	7/20/2012	9:45	10:30	0.75	0.170	0.005
9	7/23/2012	9:25	10:25	1	0.11	***	7/20/2012	14:00	16:50	2.83	0.940	0.011
10	7/24/2012	17:30	17:55	0.42	0.08	***	7/23/2012	9:55	10:50	0.83	0.210	0.008
11	7/26/2012	7:45	21:35	13.83	0.21	***	7/24/2012	17:55	18:20	0.42	0.270	0.005
12	7/28/2012	10:05	18:45	8.67	1.02	6 month	7/26/2012	19:55	21:20	1.42	0.183	0.011
13	7/29/2012	11:15	11:20	0.08	0.01	***	7/28/2012	15:45	19:00	2.75	7.369	0.998

TOTAL MONTH FLOW VOLUME = 1.254

Note: Overflow occurs when interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in

FLOW MONITORING REPORT SUMMARY TABLE

CSD EVENTS LOG Whalley Ave. 30 yds from Fitch Street

LOCATION: 6

NPDES Permit Outfall #:

MONTH: July YEAR: 2012

Average Low Temp: 66

Average High Temp: 83

Measured Rainfall: 2.78

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	7/4/2012	4:25	21:20	16.92	0.08	***							
2	7/7/2012	19:25	19:30	0.08	0.01	***							
3	7/14/2012	5:05	5:40	0.5	0.03	***							
4	7/15/12 - 7/16/12	17:15	0:45	7.5	0.76	1 month							
5	7/16/2012	6:10	6:15	0.08	0.01	***							
6	7/18/2012	15:35	16:30	0.92	0.06	***							
7	7/19/2012	7:25	8:05	0.67	0.1	***							
8	7/20/2012	9:35	17:45	8.17	0.3	***							
9	7/23/2012	9:25	10:25	1	0.11	***							
10	7/24/2012	17:30	17:55	0.42	0.08	***							
11	7/26/2012	7:45	21:35	13.83	0.21	***							
12	7/28/2012	10:05	18:45	8.67	1.02	6 month	7/28/2012	15:55	18:25	2.5	5.076	0.892	
13	7/29/2012	11:15	11:20	0.08	0.01	***							
TOTAL MONTH											FLOW VOLUME =		0.892

Note: Overflow occurs when Interceptor level reaches 27"

**JUNE 2012**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 CSO FLOW MONITORING PROGRAM  
 METER DATA SUMMARY - JUNE 2012

MONTHLY RAINFALL SUMMARY

2.82 inches of rain (3.44 inches of rain in a typical month)  
 0 inches of snow  
 5 rain events (10 rain events in a typical month)  
 two 1 month 18 hour and one 3 month 2 hour storm return frequency.  
 All other storms less than 1 month return frequency

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	1	0.270
CSO 005	REG 005	3	0.669
CSO 004	REG 004	3	1.593
CSO 003	REG 003	3	1.342
CSO 024	REG 024		
CSO 009	REG 009		
CSO 019	REG 019		
CSO 016	REG 016		
CSO 015	REG 015		
CSO 010	REG 010		
CSO 011	REGS 010A, 011, 014, 026		
CSO 012	REGS 012A, 012B		
CSO GREENE	REG GREENE		
CSO 025	REGS 025, 034		
CSO 021	REG 021		
<b>TOTAL</b>		<b>10</b>	<b>3.874</b>

(22 CSO events in a typical month) (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.

LOCATION: 003

NPDES Permit Outfall #:

MONTH: June YEAR: 2012

Average Low Temp: 60

Average High Temp: 77

Measured Rainfall: 2.82

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/12/12 - 6/13/12	15:15	18:10	26.92	1.33	1 month	6/13/2012	2:40	6:05	3.42	2.971	0.423
2	6/22/2012	14:45	20:40	5.92	0.15	***						
3	6/23/2012	3:15	4:25	1.17	0.5	3 month	6/23/2012	4:10	4:55	0.75	2.114	0.066
4	6/25/2012	0:20	17:25	17.08	0.82	1 month	6/25/2012	8:30	11:35	3.08	6.641	0.853
5	6/29/2012	7:00	7:15	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 1.342

Note: Overflow occurs when Interceptor level reaches 46"



FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG  
 LOCATION: Ella T. Grasso Blvd. - 23 yds North of Legion Ave.  
 NPDES Permit Outfall #: 004  
 MONTH: June YEAR: 2012  
 Average Low Temp: 60  
 Average High Temp: 77  
 Measured Rainfall: 2.82  
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/12/12 - 6/13/12	15:15	18:10	26.92	1.33	1 month	6/13/2012	2:25	6:30	4.08	2.572	0.438
2	6/22/2012	14:45	20:40	5.92	0.15	***						
3	6/23/2012	3:15	4:25	1.17	0.5	3 month	6/23/2012	3:45	5:30	1.75	1.719	0.125
4	6/25/2012	0:20	17:25	17.08	0.82	1 month	6/25/2012	8:25	12:00	3.58	6.896	1.030
5	6/29/2012	7:00	7:15	0.25	0.02	***						
											TOTAL MONTH	1.593
											FLOW VOLUME =	

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: June YEAR: 2012

Average Low Temp: 60

Average High Temp: 77

Measured Rainfall: 2.82

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT					CSO EVENT						
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/12/12 - 6/13/12	15:15	18:10	26.92	1.33	1 month	6/13/2012	2:20	4:50	2.5	0.243	0.025
2	6/22/2012	14:45	20:40	5.92	0.15	***						
3	6/23/2012	3:15	4:25	1.17	0.5	3 month	6/23/2012	3:25	4:30	1.08	0.093	0.004
4	6/25/2012	0:20	17:25	17.08	0.82	1 month	6/25/2012	8:15	11:00	2.75	5.584	0.640
5	6/29/2012	7:00	7:15	0.25	0.02	***						
											TOTAL MONTH	0.669
											FLOW VOLUME =	

Note: Overflow occurs when Interceptor level reaches pipe height, 60" or drop-in pipe overwhelms drop-in

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG                      Whalley Ave. 30 yds from Fitch Street  
 LOCATION:                              6  
 NPDES Permit Outfall #:                      June YEAR:                      2012  
 MONTH:                                      60  
 Average Low Temp:                              77  
 Average High Temp:                              2.82  
 Measured Rainfall:                              0  
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/12/12 - 6/13/12	15:15	18:10	26.92	1.33	1 month						
2	6/22/2012	14:45	20:40	5.92	0.15	***						
3	6/23/2012	3:15	4:25	1.17	0.5	3 month						
4	6/25/2012	0:20	17:25	17.08	0.82	1 month	6/25/2012	8:25	9:40	1.25	2.508	0.270
5	6/29/2012	7:00	7:15	0.25	0.02	***						
<b>TOTAL MONTH</b>											<b>FLOW VOLUME =</b>	<b>0.27</b>

Note:                      Overflow occurs when Interceptor level reaches 27"

**METER DATA**

**SUMMARY**

**TYPICAL YEAR ESTIMATES**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
CSO FLOW MONITORING PROGRAM  
METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>ANNUAL CSO EVENTS BASED ON RAINFALL<sup>(1)</sup></u>	<u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL<sup>(2)</sup></u>	<u>ANNUAL CSO EVENTS BASED ON MONTHS<sup>(3)</sup></u>	<u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS<sup>(4)</sup></u>	<u>MODEL CSO EVENTS</u>	<u>MODEL CSO VOLUME (MG)</u>
CSO 006	REGS 006 A, 006 B	14	6,147	13	5,666	27	27.0
CSO 005	REG 005	37	5,266	34	4,853	39	22.0
CSO 004	REG 004	45	24,388	41	22,479	44	65.3
CSO 003	REG 003	30	16,164	27	14,899	28	12.5
CSO 024	REG 024	13	19,972	12	18,887	0	1.9
CSO 009	REG 009	21	1,608	15	1,171	27	8.1
CSO 019	REG 019	6	0,281	5	0,265	7	2.4
CSO 016	REG 016	30	20,597	26	17,667	45	20.4
CSO 015	REG 015	14	2,882	10	2,098	9	4.1
CSO 010	REG 010	12	1,273	11	1,092	6	2.4
CSO 011	REGS 010A, 011, 014, 026	6	1,740	5	1,332	15	26.6
CSO 012	REGS 012A, 012B	30	14,179	28	13,408	8	2.9
CSO GREENE	REG GREENE	4	0,157	4	0,148	NO DATA	NO DATA
CSO 025	REGS 025, 034	16	12,676	12	9,701	6	9.0
CSO 021	REG 021	23	25,479	16	17,484	23	35.1
CSO 013	REG 013	0	0,000	0	0,000	1	0.4
CSO 020	REG 020	0	0,000	0	0,000	8	1.4
<b>TOTAL</b>		<b>300</b>	<b>152,807</b>	<b>259</b>	<b>131,150</b>	<b>293</b>	<b>241.5</b>

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date

(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date

(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date

(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date