



Town of Glastonbury

2155 MAIN STREET • P.O. BOX 6523 • GLASTONBURY, CONNECTICUT 06033-6523

January 12, 2012

GLASTONBURY
PUBLIC WORKS
FILE COPY

Ms. Nisha A. Patel
Supervising Sanitary Engineer
Water Permit Enforcement Division
State of Connecticut
Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Re: MS4 General Permit – 2011 Testing Data
Permit #GSM000057
Invoice #DEP167721 and Invoice #DEP176716

Dear Ms. Patel:

Enclosed please find our 2011 testing data associated with the Town's MS4 General Permit. Also enclosed is a check for plan review fees for the 2011 reporting year, plus the finance charge for late payment. The 2011 Annual Report will follow under separate cover.

If you have any questions or require any additional information, please contact me at (860) 652-7736.

Sincerely,

Daniel A. Pennington, P.E.
Town Engineer/Manager of
Physical Services

DAP/ce

Enclosures

cc: Stephen M. Braun, Assistant Town Engineer

STORMWATER SAMPLING DATA FORM

STORMWATER SAMPLING DATA

Town of Glastonbury
Glastonbury, Connecticut

General Information		
Sampling Personnel: Luke Whitehouse, Environmental Compliance Services, Inc.		
Sampling Date: 10/27/11		
Rain Start Time: ~6:30 am	Rain Stop Time: ~8:30 pm	Runoff Start Time: unknown
Rain Description (i.e., drizzle, steady, downpour, etc.): steady		
Outside Temperature: ~46° F		
Magnitude of Storm Event (in inches): ~0.51		
Date of Previous Storm Event of 0.1 Inches or More: 10/19/11		
Location of Rain Gauge or Gauging Station: Glastonbury, CT, as reported on www.wunderground.com		
Sampling Data		
Outfall No.	Location Description	Sampling Time
C-1	42" RCP pipe (discharging south) behind stores at south end of Griswold Mall on Main St.	8:30 am
C-2	60" RCP pipe (discharging west) north of parking lot for 379 Naubuc Ave. on west side of Naubuc Ave. at intersection with Glastonbury Blvd.	7:55 am
I-1	48" RCP pipe (discharging south) through retaining wall behind CVS Pharmacy on New London Tpke. just south of intersection with Oak St.	10:20 am
I-2	15" RCP pipe (discharging east) into retention pond south of corner at east end of Commerce St.	10:40 am
R-1	36" ACCMP pipe (discharging northeast) northeast of 279 Cavan Ln.	11:20 am
R-2	18" RCP pipe (discharging south) behind 58 Whapley Rd.	10:00 am
Analysis Data		
Laboratory Performing Analyses: Phoenix Environmental Laboratories, Inc.		
Date Samples Dropped Off: 10/27/11		
<u>Note:</u> Attach laboratory report, including analytical results, techniques and methods used.		
Comments		
Sample for I-2 taken from catch basin in Commerce St.		

2011 STORMWATER PHASE II SAMPLING RESULTS TABLE

2011 STORMWATER PHASE II SAMPLING RESULTS

Town of Glastonbury
Glastonbury, Connecticut

Laboratory Parameter ⁽²⁾	Commercial ⁽¹⁾		Industrial ⁽¹⁾		Residential ⁽¹⁾	
	Outfall 1 (Glast C-1)	Outfall 2 (Glast C-2)	Outfall 1 (Glast I-1)	Outfall 2 (Glast I-2)	Outfall 1 (Glast R-1)	Outfall 2 (Glast R-2)
Uncontaminated Rainfall Sample (SU) ⁽³⁾	NS ⁽⁸⁾	NS	NS	NS	NS	NS
Stormwater pH (SU) ⁽³⁾	6.99	6.63	6.93	6.75	7.41	7.34
Hardness (mg/L) ⁽⁴⁾	65.7	41.3	49.9	82.2	88.2	79.8
Conductivity (umos) ⁽⁵⁾	296	111	153	307	226	268
Oil and Grease (mg/L)	1.9	<1.4	<1.4	2.3	<1.4	<1.4
Chemical Oxygen Demand (mg/L)	66	120	80	120	50	19
Turbidity (NTU) ⁽⁶⁾	21.6	6.59	27.8	150	6.54	0.68
Total Suspended Solids (mg/L)	15	6.5	17	96	<5.0	<5.0
Total Phosphorous (mg/L)	0.18	0.22	0.26	0.16	0.18	0.04
Ammonia (mg/L)	0.62	1.1	0.51	6.4	0.10	0.06
Total Kjeldahl Nitrogen (mg/L)	1.6	6.9	1.5	8.3	0.76	0.76
Nitrate plus Nitrite Nitrogen (mg/L)	1.6	1.8	1.4	1.2	1.3	3.3
E. coli (col/100 mL) ⁽⁷⁾	270	<10	640	60	160	90

Notes:

1. Refer to Stormwater Sampling Data form for the locations of each stormwater outfall.
2. Laboratory parameters are taken from the CT DEP General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems.
3. SU = standard units
4. mg/L = milligrams per liter
5. umos = micromhos
6. NTU = nephelometric turbidity units
7. col/100 mL = coliforms per 100 milliliters
8. NS = Not Sampled