



# Town of Glastonbury

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

October 27, 2005

Mr. Christopher Stone, P.E.  
Stormwater Permit Coordinator  
Bureau of Water Management  
Department of Environmental Protection  
79 Elm Street  
Hartford, Connecticut 06106-5127

GLASTONBURY  
PUBLIC WORKS  
FILE COPY

Re: MS4 General Permit – 2004 and 2005 Annual Report  
Application #200401149

Dear Mr. Stone:

In response to your letter of September 22, 2005, we have prepared the attached annual report to describe our progress during 2004 and 2005 towards compliance with the Town's MS4 General Permit. Also included is a check in the amount of \$187.50 for plan review fees for the 2004 reporting year, as well as storm water sampling results for six locations sampled during 2004. Sampling data for 2005 is currently being prepared and will be transmitted with the 2005 plan review fee under separate cover.

Based on the attached report, a summary of work to be completed in 2006 is as follows:

- March – Inspect 50% of priority discharges identified through current mapping efforts
- March – Hold public meeting to review Stormwater Management plan
- March / April – Street sweeping and storm drain cleaning
- April – Publish educational information and request volunteers
- May – Hold storm drain marker installation day
- September – Hold second storm drain marker installation day
- October – Inspect additional 45 outfalls and re-inspect priority discharges as needed.
- October – Yearly stormwater sampling
- November – Annual stormwater training for town staff
- November – Complete assessment of Town regulations for compliance with General Permit for Construction and Post Construction Stormwater management and submit with 2006 annual report.

If you have any questions or require any additional information, please contact me.

Sincerely,

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

**2004 AND 2005 ANNUAL REPORTS  
TOWN OF GLASTONBURY MS4 GENERAL PERMIT**

**MINIMUM CONTROL MEASURES PROGRESS REPORT**

**#1 - Public Education and Outreach**

<b>BMP ID</b>	<b>BMP Description</b>	<b>Scheduled / Revised Date</b>	<b>Status / Progress</b>
1-1	Use print media to educate public	Spring 2005 Spring 2006 (recurring)	Reviewed educational materials provided by EPA and will publish in Glastonbury Citizen during April of 2006 in conjunction with request for volunteers to install catch basin markers.
1-2	Research and provide educational links from Town web site	Spring 2005 Fall 2006	A list of links to state and federal web sites has been generated and will be incorporated into the Town web site during a major upgrade in 2006.
1-3	Lawn maintenance brochure	Spring 2007	No activity yet. Plan to begin distributing materials with lawn irrigation system permits in Spring 2007.
1-4	Partner w/ Board of Ed. to educate children	Spring 2007	No activity yet.

**#2 - Public Involvement**

<b>BMP ID</b>	<b>Description</b>	<b>Scheduled / Revised Date</b>	<b>Status / Progress</b>
2-1	Develop public involvement program	Spring 2005 (recurring)	See Item 2-3
2-2	Comply with state and local public notice and FOI	Ongoing	A copy of the Stormwater Management Plan was made available to the public for review and comment prior to submission. Formal public notice and comment will be a part of Item 2-3.
2-3	Public Hearing	Spring 2005 Spring 2006 (once)	Presentation materials are being developed and a public meeting will be held in March 2006.
2-4	Adjust plan from public comments	Summer 2005 Summer 2006 (once)	Will be completed after public meeting in March 2006.
2-5	Clean stream belts by volunteers	Fall 2006 (recurring)	No activity yet.
2-6	Install storm drain markers	Fall 2004 (recurring) Spring and Fall 2006, 2007	No additional markers have been installed to date. Revised plan is to install 850 markers in both Spring and Fall of 2006 and Spring and Fall of 2007 to complete the 3500 markers by 2007.

**2004 AND 2005 ANNUAL REPORTS  
TOWN OF GLASTONBURY MS4 GENERAL PERMIT**

**#3 – Illicit Discharge Detection and Elimination**

<b>BMP ID</b>	<b>Description</b>	<b>Scheduled / Revised Date</b>	<b>Status / Progress</b>
3-1	Map outfalls 15" and greater in urbanized area	2004—2005 Winter 2005 / Spring 2006	Outfall locations are identified in Town-wide GIS. Winter 2005 effort will include preparing outfall database and identifying size, material, and outfall type, water quality class, surrounding land use, and receiving water body for all outfalls. Priority areas will be identified and 50% of these areas inspected for illegal discharges.
3-2	Map outfalls 15" and greater town wide	2006	Mapping and database effort will be coincident with Item 3-1. Inspection of 45 additional outfalls and reinspection of previous problem locations will be completed Fall 2006.
3-3	Map outfalls 12" and greater in urbanized area	2007	Mapping and database effort will be coincident with Item 3-1. Inspection of 45 additional outfalls and reinspection of previous problem locations will be completed Fall 2007.
3-4	Develop program to detect and eliminate illicit discharges	Fall 2004 to Winter 2008	Results of inspections from Items 3-1 and 3-2 will be reviewed, and a formal inspection program developed.
3-5	Develop illicit discharge ordinance	Summer 2005 to Winter 2007	No activity yet.

**#4 – Construction Runoff**

<b>BMP ID</b>	<b>Description</b>	<b>Scheduled / Revised Date</b>	<b>Status / Progress</b>
4-1	Review land use regulations for consistency with MS4 permit and E&S guide, issue report to identify deficiencies.	2004 / 2005 2006	A committee consisting of Town Engineer, Assistant Town Engineer, Planner, and Environmental Planner has recently been formed to review Town regulations relative to new E&S guidelines. Work is on-going, and report will be completed during 2006.
4-2	Enact regulation revisions and ordinances	2006	No activity yet.
4-3	Prepare library of Town preferred BMPs for distribution to contractors	2007	No activity yet.
4-4	Prepared design review checklist	2008	No activity yet.

**2004 AND 2005 ANNUAL REPORTS  
TOWN OF GLASTONBURY MS4 GENERAL PERMIT**

**#5 – Post Construction Water Quality**

<b>BMP ID</b>	<b>Description</b>	<b>Scheduled / Revised Date</b>	<b>Status / Progress</b>
5-1	Review land use regulations for consistency with MS4 permit and current water quality standards, issue report to identify deficiencies.	2004-2005 2006	A committee consisting of Town Engineer, Assistant Town Engineer, Planner, and Environmental Planner has recently been formed to review Town regulations relative to new water quality guidelines, and schedule has been revised accordingly. Work is on-going, and report will be completed during 2006.
5-2	Enact regulation revisions and ordinances	2005-2008	No activity yet. Work will follow completion of Item 5-1.
5-3	Study and issue a report detailing feasibility of incorporating BMPs into public and private projects.	2005-2008	No activity yet.
5-4	Provide recommendations for ensuring long term maintenance of BMPs.	2005-2008	No activity yet. Work will be coincident with Item 5-3.

**#6 – Good Housekeeping**

<b>BMP ID</b>	<b>Description</b>	<b>Scheduled / Revised Date</b>	<b>Status / Progress</b>
6-1	Develop training program for municipal employees, train annually.	2004 (recurring)	Training has been completed for appropriate town staff on a yearly basis through a combination of private contractors and in-house training.
6-2	Sweep streets at least once per year as soon as possible after snowmelt.	Spring 2004 (recurring)	All streets swept in Spring 2004 and 2005.
6-3	Evaluate urbanized area for possible sweeping more than once per year	2008	No activity yet.
6-4	Clean storm structures as required by program described under Item 6-5.	Spring 2004 (recurring)	1,935 catch basins cleaned in 2004 by Town staff and 2,000 cleaned in 2005 using a private contractor. This represents cleaning of approximately 1/3 of all Town catch basins on a yearly basis.
6-5	Develop a program to evaluate and categorize catch basins and other structures for maintenance, including a field evaluation form and database for storm structures.	2006 - 2008	The feasibility of tracking sediment loading and condition for each storm structure is being discussed with the private contractor currently handling this work for the Town. Program to evaluate and categorize storm structures is contingent upon this data.

**2004 AND 2005 ANNUAL REPORTS  
TOWN OF GLASTONBURY MS4 GENERAL PERMIT**

**#7 – Monitoring**

<b>BMP ID</b>	<b>Description</b>	<b>Scheduled / Revised Date</b>	<b>Status / Progress</b>
7-1	Sample 6 priority outfalls once per year	Fall 2004 (recurring)	Sampling at 6 locations completed on November 4, 2004 (data attached). Sampling for 2005 is ongoing.

**2004 AND 2005 ANNUAL REPORTS  
TOWN OF GLASTONBURY MS4 GENERAL PERMIT**

**MD4 GENERAL PERMIT - PART B  
REVISED  
BEST MANAGEMENT PRACTICE  
LIST AND TIMELINE**

**Part V: Best Management Practice List (BMP)**

BMP ID	Public Education	Responsible Dept. or Person	Measurable Goal
1-1	Utilize print media to educate the general public on storm water maintenance.	Town Engineer	Run 4 articles/advertisements
1-2	Research and provide educational website links from Town's web page.	Town Engineer	Educational information
1-3	Lawn maintenance brochure development/distribution.	Town Engineer	5,000 brochures
1-4	Partner with the Board of Education to educate children relative to stormwater management.	Town Engineer	Annual basis - Grades 3-5
BMP ID	Public Participation	Responsible Dept. or Person	Measurable Goal
2-1	Develop public involvement/participation program	Town Engineer	
2-2	Comply with state and local public notice and FOI requirements	Town Engineer	Years 1-5
2-3	Public hearings relative to Stormwater Management Plan	Town Engineer	Year 3
2-4	Adjust Plan from public comments	Town Engineer	Year 3
2-5	Clean stream belts by volunteers	Town Engineer	Years 3-5
2-6	Install storm drain markers	Town Engineer	Years 3-4
2-7			
2-8			
2-9			
2-10			
BMP ID	Illicit Discharge Detection & Elimination	Responsible Dept. or Person	Measurable Goal
3-1	Map outfalls greater than 15" in Urbanized Area (Year 2)	Town Engineer	Year 2
3-2	Map outfalls greater than 15" in town-wide (Year 3)	Town Engineer	Year 3
3-3	Map outfalls greater than 12" in Urbanized Area (Year 4)	Town Engineer	Year 4
3-4	Develop program to detect and eliminate illicit discharges	Town Engineer	Years 1-5
3-5	Develop illicit discharge ordinance	Town Engineer	Years 2-4
3-6			
3-7			
3-8			
3-9			
3-10			

BMP ID	Construction Site Runoff Control	Responsible Dept. or Person	Measurable Goal
4-1	Review land use regulations to meet requirements of MS4 permit and E&S Guidelines	Town Engineer	Years 1-2
4-2	Enact regulation revisions and/or ordinances	Town Engineer	Year 3
4-3	Prepare Best Management Practices library for construction activities	Town Engineer	Year 4
4-4	Prepare checklist for design review and construction activities	Town Engineer	Year 5
BMP ID	Post Construction Runoff Control	Responsible Dept. or Person	Measurable Goal
5-1	Review land use regulations to meet requirements of MS4 permit and E&S Guidelines	Town Engineer	Years 1-2
5-2	Develop post-construction ordinance or regulation	Town Engineer	Review & upgrade, as necessary
5-3	Develop and implement post-construction BMP strategy	Town Engineer	Review & upgrade, as necessary
5-4	Develop program to ensure long-term operation and maintenance of BMPs	Town Engineer	Review & upgrade, as necessary
5-5			
5-6			
5-7			
5-8			
5-9			
5-10			
BMP ID	Good Housekeeping	Responsible Dept. or Person	Measurable Goal
6-1	Develop training program for municipal employees	Town Engineer	Year 1
6-2	Sweep streets at least once a year as soon as possible after snowmelt	Town Engineer	Years 1-5
6-3	Evaluate Urbanized Area for possible sweeping more than once a year	Town Engineer	Year 5, based on data base
6-4	Develop program to evaluate and clean stormwater structures at least once a year	Town Engineer	Year 5, based on data base
6-5	Develop program to evaluate and prioritize system for upgrade and/or repair	Town Engineer	Year 5 & beyond, based on data base
6-6			
6-7			
6-8			
6-9			
6-10			
BMP ID	Monitoring	Responsible Dept. or Person	Measurable Goal
S-1	Sample 6 outfalls once a year	Town Engineer	Six (6) samples per year
S-2			



**Part VIA: Best Management Practice Practice Timeline**

BMP ID	Permit Year One		Permit Year Two		Permit Year Three		Permit Year Four		Permit Year Five		Next Permit										
	Spring 2004	Summer 2004	Fall 2004	Winter 2004-05	Spring 2005	Summer 2005	Fall 2005	Winter 2005-06	Spring 2006	Summer 2006		Fall 2006	Winter 2006-07	Spring 2007	Summer 2007	Fall 2007	Winter 2007-08	Spring 2008	Summer 2008	Fall 2008	Winter 2008-09
<b>Public Education</b>																					
1-1																					
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<b>Illicit Discharge Detection &amp; Elimination</b>																					
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3-3																					
3-4																					
3-5																					
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3-9																					
3-10																					

— Work in Progress      X Task Completed as a One-time Event During that Quarter      Done Task Completed

BMP ID	Permit Year One		Permit Year Two		Permit Year Three		Permit Year Four		Permit Year Five		Next Permit										
	Spring 2004	Summer 2004	Fall 2004	Winter 2004-05	Spring 2005	Summer 2005	Fall 2005	Winter 2005-06	Spring 2006	Summer 2006		Fall 2006	Winter 2006-07	Spring 2007	Summer 2007	Fall 2007	Winter 2007-08	Spring 2008	Summer 2008	Fall 2008	Winter 2008-09
<b>Construction Site Runoff Control</b>																					
4-1																					
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<b>Monitoring</b>																					
S-1																					
S-2																					

**2004 AND 2005 ANNUAL REPORTS  
TOWN OF GLASTONBURY MS4 GENERAL PERMIT**

**2004 STORMWATER SAMPLING RESULTS**

# Anchor Engineering Services, Inc.



Civil Engineering • Environmental Consulting • Construction Management • Land Surveying

December 22, 2004

**RECEIVED**

DEC 22 2004

**GLASTONBURY  
ENGINEERING**

Mr. Robert Shirshac  
Senior Engineering Technician  
Town of Glastonbury  
2155 Main Street  
Glastonbury, Connecticut 06033

Re: DEP Phase II MS4 Stormwater General Permit  
Stormwater Monitoring Reports: 2004 Samples

Dear Mr. Shirshac:

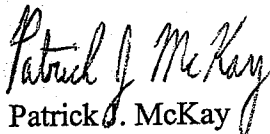
On November 4, 2004 Anchor Engineering personnel collected six stormwater samples at six different Town of Glastonbury storm outfalls for MS4 stormwater analysis. The samples were transported under chain-of-custody procedures to Phoenix Environmental Laboratories for chemical analyses.

Attached is a set of six Stormwater Monitoring Reports (SMRs) for your review, signature (at the bottom of each), date, and submittal to the DEP. The attached laboratory data is for informational purposes and should not be submitted with the SMRs. Signed SMRs should be mailed to:

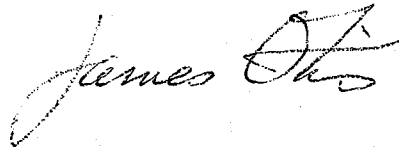
Water Toxics Coordinator  
Attn: Carol Papp  
Bureau of Water Management  
Department of Environmental Protection  
79 Elm Street  
Hartford, CT 06106-5127

Please provide us with a copy of the signed SMRs for our records. If you have any questions regarding these results, or about the annual report that the Town has to submit by January 1, 2005, please call either of the undersigned at (860) 633-8770.

Sincerely,

  
Patrick J. McKay

Environmental Scientist



James C. Otis, P.E.  
Associate



**General Permit for the Discharge of Stormwater from Small  
Municipal Separate Storm Sewer Systems**

**Stormwater Monitoring Report Form**

**PERMITTEE INFORMATION**

Town: Town of Glastonbury

Mailing Address: 2155 Main Street, Glastonbury, CT 06033

Contact Person: Mr. Robert Shirshac Title: Senior Engineering Technician Phone: (860) 652-7712

Permit Registration # GSM 000057

**SAMPLING INFORMATION**

Discharge Location (Lat/Long or other description): West end of Glastonbury Boulevard; 60 inch RCP

Please circle the appropriate area description: Industrial, Commercial, or Residential

Receiving Water (name, basin): Salmon Brook, 4006

Time of Start of Discharge: approx. 4 P.M.

Date/Time Collected: 11/4/04, P.M. Water Temperature: 39 deg. F

Person Collecting Sample: Patrick McKay

Storm Magnitude (inches): 0.75 Storm Duration (hours): approx. 4

Date of Previous Storm Event: 10/19/04

**MONITORING RESULTS**

Parameter	Method	Results (units)	Laboratory
Sample pH	E150.1/SW9045	6.35 pH units	Phoenix Environmental Laboratories
Rain pH	Field measured	7.27 S.U.	Anchor Engineering Services
Hardness	S2340B	48.5 mg/L	Phoenix Environmental Laboratories
Conductivity	SM2510B	270 umhos/cm	Phoenix Environmental Laboratories
Oil & Grease	EPA 1664	<1.4 mg/L	Phoenix Environmental Laboratories
COD	SM5220 D	89 mg/L	Phoenix Environmental Laboratories
Turbidity	E180.1	18.4 NTU	Phoenix Environmental Laboratories
TSS	SM2540 D	31 mg/L	Phoenix Environmental Laboratories
TP	E365.2	0.41 mg/L	Phoenix Environmental Laboratories
Ammonia	S4500NH3	0.77 mg/L	Phoenix Environmental Laboratories
TKN	E351.1	1.8 mg/L	Phoenix Environmental Laboratories
NO <sub>3</sub> +NO <sub>2</sub>	300.0/9056	1.5 mg/L	Phoenix Environmental Laboratories
E. coli	SM9222G	>600/100 mls	Phoenix Environmental Laboratories

**STATEMENT OF ACKNOWLEDGMENT**

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: DANIEL A. PENNINGTON P.E. TOWN ENGINEER

Signature: *Daniel A. Pennington* Date: 10-25-05



# General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

## Stormwater Monitoring Report Form

### PERMITTEE INFORMATION

Town: <u>Town of Glastonbury</u>
Mailing Address: <u>2155 Main Street, Glastonbury, CT 06033</u>
Contact Person: <u>Mr. Robert Shirshac</u> Title: <u>Senior Engineering Technician</u> Phone: <u>(860) 652-7712</u>
Permit Registration # <u>GSM 000057</u>

### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>South of New London Tpke. at Oak St. ; 48 inch RCP</u>
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): <u>Salmon Brook, 4006</u>
Time of Start of Discharge: <u>approx. 4 P.M.</u>
Date/Time Collected: <u>11/4/04, P.M.</u> Water Temperature: <u>39 deg. F</u>
Person Collecting Sample: <u>Patrick McKay</u>
Storm Magnitude (inches): <u>0.75</u> Storm Duration (hours): <u>approx. 4</u>
Date of Previous Storm Event: <u>10/19/04</u>

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	E150.1/SW9045	7.12 pH units	Phoenix Environmental Laboratories
Rain pH	Field measured	7.27 S.U.	Anchor Engineering Services
Hardness	S2340B	116 mg/L	Phoenix Environmental Laboratories
Conductivity	SM2510B	490 umhos	Phoenix Environmental Laboratories
Oil & Grease	EPA 1664	4.3 mg/L	Phoenix Environmental Laboratories
COD	SM5220 D	64 mg/L	Phoenix Environmental Laboratories
Turbidity	E180.1	20.1 NTU	Phoenix Environmental Laboratories
TSS	SM2540 D	29 mg/L	Phoenix Environmental Laboratories
TP	E365.2	0.20 mg/L	Phoenix Environmental Laboratories
Ammonia	S4500NH3	0.43 mg/L	Phoenix Environmental Laboratories
TKN	E351.1	1.1 mg/L	Phoenix Environmental Laboratories
NO <sub>3</sub> +NO <sub>2</sub>	300.0/9056	3.8 mg/L	Phoenix Environmental Laboratories
E. coli	SM9222G	70/100mls	Phoenix Environmental Laboratories

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.	
Authorized Official: <u>DANIEL A. PENNINGTON P.E. TOWN ENGINEER</u>	
Signature: <u><i>Daniel A. Pennington</i></u>	Date: <u>10-25-05</u>



**General Permit for the Discharge of Stormwater from Small  
Municipal Separate Storm Sewer Systems**

**Stormwater Monitoring Report Form**

**PERMITTEE INFORMATION**

Town: <u>Town of Glastonbury</u>
Mailing Address: <u>2155 Main Street, Glastonbury, CT 06033</u>
Contact Person: <u>Mr. Robert Shirshac</u> Title: <u>Senior Engineering Technician</u> Phone: <u>(860) 652-7712</u>
Permit Registration # <u>GSM 000057</u>

**SAMPLING INFORMATION**

Discharge Location (Lat/Long or other description): <u>South property line of Griswold Mall at Main Street 42 inch RCP</u>
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): <u>Salmon Brook, 4006</u>
Time of Start of Discharge: <u>approx. 4 P.M.</u>
Date/Time Collected: <u>11/4/04, P.M.</u> Water Temperature: <u>39 deg. F</u>
Person Collecting Sample: <u>Patrick McKay</u>
Storm Magnitude (inches): <u>0.75</u> Storm Duration (hours): <u>approx. 4</u>
Date of Previous Storm Event: <u>10/19/04</u>

**MONITORING RESULTS**

Parameter	Method	Results (units)	Laboratory
Sample pH	E150.1/SW9045	6.80 pH units	Phoenix Environmental Laboratories
Rain pH	Field measured	7.27 S.U.	Anchor Engineering Services
Hardness	S2340B	98.3 mg/L	Phoenix Environmental Laboratories
Conductivity	SM2510B	510 umhos	Phoenix Environmental Laboratories
Oil & Grease	EPA 1664	3.1 mg/L	Phoenix Environmental Laboratories
COD	SM5220 D	25 mg/L	Phoenix Environmental Laboratories
Turbidity	E180.1	34.4 NTU	Phoenix Environmental Laboratories
TSS	SM2540 D	25 mg/L	Phoenix Environmental Laboratories
TP	E365.2	0.09 mg/L	Phoenix Environmental Laboratories
Ammonia	S4500NH3	0.48 mg/L	Phoenix Environmental Laboratories
TKN	E351.1	0.80 mg/L	Phoenix Environmental Laboratories
NO <sub>3</sub> +NO <sub>2</sub>	300.0/9056	0.68 mg/L	Phoenix Environmental Laboratories
E. coli	SM9222G	160/100mls	Phoenix Environmental Laboratories

**STATEMENT OF ACKNOWLEDGMENT**

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.	
Authorized Official:	<u>DANIEL A. PENNINGTON P.E. TOWN ENGINEER</u>
Signature:	<u><i>Daniel A. Pennington</i></u> Date: <u>10-25-05</u>



**General Permit for the Discharge of Stormwater from Small  
Municipal Separate Storm Sewer Systems**

**Stormwater Monitoring Report Form**

**PERMITTEE INFORMATION**

Town: <u>Town of Glastonbury</u>
Mailing Address: <u>2155 Main Street, Glastonbury, CT 06033</u>
Contact Person: <u>Mr. Robert Shirshac</u> Title: <u>Senior Engineering Technician</u> Phone: <u>(860) 652-7712</u>
Permit Registration # <u>GSM 000057</u>

**SAMPLING INFORMATION**

Discharge Location (Lat/Long or other description): <u>South of Whapley Rd. at Dibella Ln. ; 18 inch RCP</u>
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): <u>Hubbard Brook, 4007</u>
Time of Start of Discharge: <u>approx. 4 P.M.</u>
Date/Time Collected: <u>11/4/04, P.M.</u> Water Temperature: <u>39 deg. F</u>
Person Collecting Sample: <u>Patrick McKay</u>
Storm Magnitude (inches): <u>0.75</u> Storm Duration (hours): <u>approx. 4</u>
Date of Previous Storm Event: <u>10/19/04</u>

**MONITORING RESULTS**

Parameter	Method	Results (units)	Laboratory
Sample pH	E150.1/SW9045	7.24 pH units	Phoenix Environmental Laboratories
Rain pH	Field measured	7.27 S.U.	Anchor Engineering Services
Hardness	S2340B	176 mg/L	Phoenix Environmental Laboratories
Conductivity	SM2510B	460 umhos	Phoenix Environmental Laboratories
Oil & Grease	EPA 1664	<1.4 mg/L	Phoenix Environmental Laboratories
COD	SM5220 D	<10 mg/l	Phoenix Environmental Laboratories
Turbidity	E180.1	1.46 NTU	Phoenix Environmental Laboratories
TSS	SM2540 D	<8.3 mg/L	Phoenix Environmental Laboratories
TP	E365.2	0.23 mg/L	Phoenix Environmental Laboratories
Ammonia	S4500NH3	0.1 mg/L	Phoenix Environmental Laboratories
TKN	E351.1	0.38 mg/L	Phoenix Environmental Laboratories
NO <sub>3</sub> +NO <sub>2</sub>	300.0/9056	0.87 mg/L	Phoenix Environmental Laboratories
E. coli	SM9222G	<10/100 mls	Phoenix Environmental Laboratories

**STATEMENT OF ACKNOWLEDGMENT**

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.	
Authorized Official:	<u>DANIEL A PENNINGTON P.E. TOWN ENGINEER</u>
Signature:	<u>Daniel A Pennington</u> Date: <u>10-25-05</u>





# General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

## Stormwater Monitoring Report Form

### PERMITTEE INFORMATION

Town: Town of Glastonbury

Mailing Address: 2155 Main Street, Glastonbury, CT 06033

Contact Person: Mr. Robert Shirshac Title: Senior Engineering Technician Phone: (860) 652-7712

Permit Registration # GSM 000057

### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): South of Commerce St. at Oakwood Dr.; 15 inch RCP

Please circle the appropriate area description: Industrial, Commercial, or Residential

Receiving Water (name, basin): Hubbard Brook, 4007

Time of Start of Discharge: approx. 4 P.M.

Date/Time Collected: 11/4/04, P.M. Water Temperature: 39 deg. F

Person Collecting Sample: Patrick McKay

Storm Magnitude (inches): 0.75 Storm Duration (hours): approx. 4

Date of Previous Storm Event: 10/19/04

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	E150.1/SW9045	7.01 pH units	Phoenix Environmental Laboratories
Rain pH	Field measured	7.27 S.U.	Anchor Engineering Services
Hardness	S2340B	62.5 mg/L	Phoenix Environmental Laboratories
Conductivity	SM2510B	230 umhos	Phoenix Environmental Laboratories
Oil & Grease	EPA 1664	<1.5 mg/L	Phoenix Environmental Laboratories
COD	SM5220 D	19 mg/L	Phoenix Environmental Laboratories
Turbidity	E180.1	1.37 NTU	Phoenix Environmental Laboratories
TSS	SM2540 D	<7.1 mg/L	Phoenix Environmental Laboratories
TP	E365.2	0.12 mg/L	Phoenix Environmental Laboratories
Ammonia	S4500NH3	0.11 mg/L	Phoenix Environmental Laboratories
TKN	E351.1	0.53 mg/L	Phoenix Environmental Laboratories
NO <sub>3</sub> +NO <sub>2</sub>	300.0/9056	2.3 mg/L	Phoenix Environmental Laboratories
E. coli	SM9222G	>600/100 mls	Phoenix Environmental Laboratories

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: DANIEL A. PENNINGTON P.E. TOWN ENGINEER

Signature: Daniel A. Pennington Date: 10-25-05



# General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

## Stormwater Monitoring Report Form

### PERMITTEE INFORMATION

Town: <u>Town of Glastonbury</u>
Mailing Address: <u>2155 Main Street, Glastonbury, CT 06033</u>
Contact Person: <u>Mr. Robert Shirshac</u> Title: <u>Senior Engineering Technician</u> Phone: <u>(860) 652-7712</u>
Permit Registration # <u>GSM 000057</u>

### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>North of Cavan Lane at Tara Drive; 36 inch AACMP</u>
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): <u>Salmon Brook, 4006</u>
Time of Start of Discharge: <u>approx. 4 P.M.</u>
Date/Time Collected: <u>11/4/04, P.M.</u> Water Temperature: <u>39 deg. F</u>
Person Collecting Sample: <u>Patrick McKay</u>
Storm Magnitude (inches): <u>0.75</u> Storm Duration (hours): <u>approx. 4</u>
Date of Previous Storm Event: <u>10/19/04</u>

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	E150.1/SW9045	6.25 pH units	Phoenix Environmental Laboratories
Rain pH	Field measured	7.27 S.U.	Anchor Engineering Services
Hardness	S2340B	144 mg/L	Phoenix Environmental Laboratories
Conductivity	SM2510B	400 umhos	Phoenix Environmental Laboratories
Oil & Grease	EPA 1664	<1.4 mg/L	Phoenix Environmental Laboratories
COD	SM5220 D	220 mg/L	Phoenix Environmental Laboratories
Turbidity	E180.1	20.2 NTU	Phoenix Environmental Laboratories
TSS	SM2540 D	50 mg/L	Phoenix Environmental Laboratories
TP	E365.2	0.83 mg/L	Phoenix Environmental Laboratories
Ammonia	S4500NH3	0.97 mg/L	Phoenix Environmental Laboratories
TKN	E351.1	2.5 mg/L	Phoenix Environmental Laboratories
NO <sub>3</sub> +NO <sub>2</sub>	300.0/9056	1.12 mg/L	Phoenix Environmental Laboratories
E. coli	SM9222G	>600/100mls	Phoenix Environmental Laboratories

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.	
Authorized Official: <u>DANIEL A. PENNINGTON</u>	
Signature: <u><i>Daniel A. Pennington</i></u>	Date: <u>10-25-05</u>