

Fiscal Year 2009 - 2010

Town of Beech Mountain
Wastewater Treatment Works
And
Wastewater Collection System
Annual Report

Town Hall – (828) 387 – 4236
Wastewater Treatment Plant – (828) 387 – 4724

Annual Report for Wastewater Treatment Works / Wastewater Collection System

I. General Information

Name of Regulated entity:

Town of Beech Mountain Pond Creek WWTP / Grassy Gap WWTP

Responsible entity, person or contact with phone number & address:

Name: **Randy Feierabend, Town Manager**

Address: **403 Beech Mountain Parkway**

Beech Mountain, N.C. 28604

Phone: **(828) 387 – 4236**

Listing of Applicable permits

NPDES NC0069761 Pond NC0022730 Grassy

Description of collection or treatment system or process:

**Pond Creek: Gravity collection with two pump station to a .400 MGD
Extended Aeration WWTP with UV disinfection.**

**Grassy Gap: Gravity collection with three pump stations to a .080 MGD
Extended aeration WWTP with Cl2 disinfection. Total collection system
60 miles of pipe.**

II. Performance

of reportable NPDES violations

Pond Creek: 2 from July 2009 to June 2010. See attachment #1

Grassy Gap: 3 from July 2009 to June 2010. See attachment #2

Collections System: 2 OSS

Date of last reportable NPDES violation

Pond Creek: October, 2009

Grassy Gap: June, 2010

Explain any reportable NPDES violations (i.e. data, type, permit limit Violations; monitoring and reporting violations, illegal bypass of treatment Facilities, sanitary sewer overflows and estimated total monthly volumes And locations of events in which more than 1000 gallons reach surface waters; Any known environmental impact of violation; plant's action to resolve Violations).

See Attachments 1, 2, 3.

Pond: 2 violation, 0 SSO

Grassy: 3 violations, 2 SSO

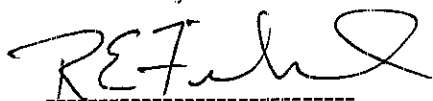
III. Notification

Statement as to how customers or users have been provided access to the Report: (i.e. public hearing, public notice in local newspaper, or direct Mailing. Public notice must attach a certificate of publication).

Public Notice_Public TV Channel 2, Notice at Town Hall,
Notice in Watauga Democrat newspaper

IV. Certification

Certify under penalty of law that this report is complete and accurate to the Best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and have been notified of its availability.



Signature of Responsible Person

7-27-2010

Date

Title: **Town Manager**

Entity: **Town of Beech Mountain**

Plant Performance

GRASSY GAP 2009 - 2010

Flow Out MGD	BOD ppm		Suspended Solids ppm		pH Out	Fecal Coliform 200/100ml	NH-3N Out ppm	Total Nitrogen Out ppm	Total Phosphorus Out ppm	
	In	Out	In	Out						
0.08		30		30	6 to 9	200	11			
2009 July	0.023	288	12	174	11	7	23	11		
August	0.037	150	8	99	11	6.8	56	6.5	3.2	
September	0.027	177	5	190	8	6.4	25	1.9		
October	0.025	173	8	200	8	6.5	23	2		
November	0.057	98	6	136	10	6.7	2	4.5		
December	0.088	133	8	142	16	7.3	3	8.9		
2010 January	0.102	97	9	48	9	6.8	2	7.8		
February	0.058	248	9	40	8	6.8	8	0.3		
March	0.094	87	4	42	8	6.7	3	3.1	4.2	
April	0.03	140	8	32	12	6.8	1	7.5		
May	0.025	225	9	139	14	6.4	7	2.9		
June	0.056	288	11	372	13	6.8	29	12.7		
Yearly Avg.	0.052	175.3	8.083	134.5	10.66666667	6.75	15.16666667	5.758333	3.7	0.55
Yearly Max.	0.102	288	12	372	16	7.3	56	12.7	4.2	0.9
Yearly Min.	0.023	87	4	32	8	6.4	1	0.3	3.2	0.2

NPDES

Permit Limit

ATTACHMENT #2

GRASSY GAP NPDES PERMIT VIOLATIONS 2009 – 2010

<u>YEAR</u>	<u>MONTH</u>	<u>VIOLATION</u>
2010	Jan.	Flow
2010	March	Flow
2010	June	Nh3-N
2010	Jan.	SSO Grassy Gap Creek Road
2010	Jan.	SSO Grassy Gap Creek Road

Plant Performance

POND CREEK 2009 - 2010

	Flow		BOD		Suspended Solids		pH		Fecal Coliform		NH-3N		Total Nitrogen		Total Phosphorus		Toxicity	
	Out	In	In	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
MGD			ppm	ppm	ppm	ppm			200/100ml	ppm	ppm	ppm	ppm	ppm	ppm			
NPDES Permit Limit	0.4			30		30		6 to 9		200								Pass/Fail
2009 July	0.136	330	10	254	20	20	6.1	8	4.8									F
August	0.172	216	7	216	14	14	6.3	1	2.9			4.1		1.4				
September	0.166	194	4	194	18	18	6.4	5	1.3									P
October	0.146	142	3	249	12	12	6.5	3	4.2									F
November	0.16	148	6	138	12	12	6.7	2	0.5									P
December	0.183	156	7	228	15	15	6.8	1	7.6									P
2010 January	0.334	143	7	137	12	12	6.5	1	3.4									P
February	0.119	330	7	490	7	7	6.4	2	8.3									P
March	0.269	150	6	185	20	20	6.6	1	4.5			3.4		0.4				P
April	0.09	107	2	111	12	12	6.4	2	0.9									P
May	0.072	225	3	139	18	18	6.3	2	2.6									
June	0.097	280	6	248	12	12	6.2	1	5.4									
Yearly Avg.	0.162	201.8	5.667	215.75	14.3333333	14.3333333	6.433	2.416666667	3.866667	3.75	0.9							P
Yearly Max.	0.334	330	10	490	20	20	6.8	8	8.3	4.1	1.4							
Yearly Min.	0.072	107	2	111	7	7	6.1	1	0.5	3.4	0.4							

ATTACHMENT #1

POND CREEK NPDES PERMIT VIOLATIONS 2009 – 2010

<u>YEAR</u>	<u>MONTH</u>	<u>VIOLATION</u>
2009	July	Toxicity
Qtr. Test fail increased testing to monthly and all have passed.		
2009	October	Toxicity
Qtr. Test fail increase testing to monthly and all have passed.		