

**Fiscal Year 2016 - 2017**

**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 **Tim H Holloman**

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: 0**

**Grassy Gap: 1**

**Collections System: 0 OSS**

Date of last reportable NPDES violation

**Pond Creek: 0**

**Grassy Gap: 1 May 2017**

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: 0 violations, 0 SSO**

**Grassy: 1 violations, 0 SSO**

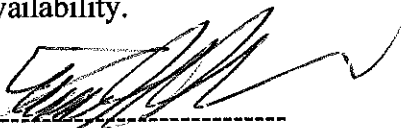
**III. Notification**

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.

  
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Signature of Responsible Person

8/1/17  
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Date

Title: **Town Manager**

Entity: **Town of Beech Mountain**

Plant Performance

Grassy Gap 2016 - 2017

Flow Out MGD	BOD ppm		Suspended Solids ppm		pH		Fecal Coliform 200/100ml		NH-3N ppm		Total Nitrogen ppm		Total Phosphorus ppm	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
0.08					30	6 to 9	200	11						
<b>0.023</b>	<b>267</b>	<b>7.2</b>	<b>180</b>	<b>10.8</b>	<b>6.4</b>	<b>5.5</b>	<b>1.54</b>	<b>18.58</b>	<b>4.14</b>					
<b>0.02</b>	<b>290</b>	<b>13.14</b>	<b>184.8</b>	<b>9.34</b>	<b>6.6</b>	<b>4.6</b>	<b>2.49</b>							
<b>0.012</b>	<b>218.5</b>	<b>2.9</b>	<b>187.5</b>	<b>6.7</b>	<b>6.4</b>	<b>12.1</b>	<b>0.043</b>							
<b>0.009</b>	<b>217.5</b>	<b>6.7</b>	<b>195.5</b>	<b>11.2</b>	<b>6.4</b>	<b>1</b>	<b>0.31</b>							
<b>0.006</b>	<b>198.2</b>	<b>11.78</b>	<b>123.44</b>	<b>14.22</b>	<b>6.4</b>	<b>1.7</b>	<b>0.76</b>							
<b>0.024</b>	<b>183.3</b>	<b>9.32</b>	<b>83.47</b>	<b>7.45</b>	<b>6.3</b>	<b>1.31</b>	<b>0.49</b>							
<b>0.074</b>	<b>183.2</b>	<b>6.72</b>	<b>86.94</b>	<b>7.3</b>	<b>6.4</b>	<b>1</b>	<b>3.08</b>	<b>183.2</b>	<b>86.94</b>					
<b>0.022</b>	<b>222</b>	<b>6.35</b>	<b>153.05</b>	<b>8.47</b>	<b>6.5</b>	<b>1</b>	<b>6.58</b>							
<b>0.035</b>	<b>155.8</b>	<b>1.37</b>	<b>95.7</b>	<b>6.42</b>	<b>6.2</b>	<b>1</b>	<b>0.677</b>							
<b>0.08</b>	<b>137.9</b>	<b>1.95</b>	<b>54.6</b>	<b>6.5</b>	<b>6.3</b>	<b>1.31</b>	<b>0.207</b>							
<b>0.094</b>	<b>129.3</b>	<b>3.16</b>	<b>58.08</b>	<b>7.06</b>	<b>6.4</b>	<b>1.379</b>	<b>0.262</b>							
<b>0.028</b>	<b>319.7</b>	<b>19.6</b>	<b>112.57</b>	<b>6.45</b>	<b>6.4</b>	<b>1.41</b>	<b>3.24</b>							
<b>0.036</b>	<b>210.2</b>	<b>7.516</b>	<b>126.304167</b>	<b>8.4925</b>	<b>6.392</b>	<b>2.77575</b>	<b>1.639917</b>	<b>100.89</b>	<b>45.54</b>					
<b>0.094</b>	<b>319.7</b>	<b>19.6</b>	<b>195.5</b>	<b>14.22</b>	<b>6.6</b>	<b>12.1</b>	<b>6.58</b>	<b>183.2</b>	<b>86.94</b>					
<b>0.006</b>	<b>129.3</b>	<b>1.37</b>	<b>54.6</b>	<b>6.42</b>	<b>6.2</b>	<b>1</b>	<b>0.043</b>	<b>18.58</b>	<b>4.14</b>					

NPDES

Permit Limit

Yearly Avg.

Yearly Max.

Yearly Min.

**ATTACHMENT #1**

**POND CREEK NPDES PERMIT VIOLATIONS 2016 - 2017**

<u>YEAR</u>	<u>MONTH</u>	<u>VIOLATION</u>
2016 - 2017		NONE

**ATTACHMENT #2**

**GRASSY GAP NPDES PERMIT VIOLATIONS 2016 - 2017**

<u>YEAR</u>	<u>MONTH</u>	<u>VIOLATION</u>
2016 - 2017	May	Flow 0.094 monthly average

Plant Performance

Pond Creek 2015-2016

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	Toxicity Out
	In	Out	In	Out						

NPDES

Permit Limit	0.4	30	30	30	6 to 9	200				Pass/Fail
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2016 July	0.084	279.5	11.7	214.25	16.65	6.2	3.3	2.86	18.58	4.14	P
August	0.092	322	7.2	317.6	11.28	6.3	4.01	1.08			
September	0.057	184	0.67	171.25	10.7	6.4	2	3.47			
October	0.048	332	10.77	335.87	19.12	6.3	7.05	2.22			P
November	0.025	239.6	5.38	271.3	15.14	6.5	1.3	1.37			
December	0.104	174.5	5.25	113.75	9.35	6.5	1.56	2.6			
2016 January	0.023	171.8	6.22	92.68	9.5	6.6	1.48	4.27	15.8	1.9	P
February	0.081	189.8	11.7	106.3	10.7	6.3	1	7.03			
March	0.074	132.4	2.2	102	75.02	6.5	1	4.58			
April	0.131	143	9.2	70.32	9.45	6.6	1.68	0.59			P
May	0.176	178.8	4.52	67.6	5.66	6.3	1	0.82			
June	0.067	291.5	7.2	119.35	7.35	6.7	3.82	0.715			

Yearly Avg.	0.08	219.9	6.834	165.189167	16.66	6.433	2.433333333	2.63375	17.19	3.02	P
Yearly Max.	0.176	332	11.7	335.87	75.02	6.7	7.05	7.03	18.58	4.14	
Yearly Min.	0.023	132.4	0.67	67.6	5.66	6.2	1	0.59	15.8	1.9	