

## VIII. **Municipal Wastewater Management Chapters** **Branchville Borough**

**2010 Population = 841**

**Land Area = 0.59 square miles**

**2010 Population Density = 1,421 persons/sq. mile**

### **Existing and Proposed Wastewater Infrastructure**

The larger wastewater facilities (discharge greater than 2,000 gallons per day) are regulated by NJ Dept. of Environmental Protection with individual New Jersey Pollutant Discharge Elimination System (NJPDES) Permits. The facilities discharge to surface water or ground water, and additional details are provided in Facilities Tables later in this chapter.

The NJ Dept. of Environmental Protection (DEP) approved a Municipal Wastewater Management Plan for Branchville Borough, prepared by Cerenzio & Panaro Engineers, by letter dated 1-17-2007. The plan proposed a new wastewater treatment plant to be built to serve Branchville and parts of Frankford Township, with a discharge to ground water.

### **Branchville Borough - Selective Insurance Company of America**

This existing wastewater treatment facility (NJPDES Permit No. NJ0073873) serves the Selective Insurance Company of America. The current annual average flow in 2013 for this facility is 8,000 GPD, and the permitted flow is 50,000 GPD. Treated wastewater is discharged to ground water using two disposal fields. This treatment facility is owned and operated by the Selective Insurance Company of America. It will be abandoned in the future when the sewers are constructed in Branchville.

### **Branchville Borough – Franklin Mutual Insurance Company**

Two existing septic systems (NJPDES Permit No. NJ0078743) presently serve the company and its employees, with a current annual average flow of 1,900 GPD. From the septic systems, the wastewater is discharged to ground water. It will be abandoned in the future when the sewers are constructed in Branchville.

**Branchville / SCMUA Paulins Kill Facility**

This proposed wastewater treatment facility has NJPDES Permit NJ0146676 is designed to serve Branchville Borough and some sites in Frankford Township. The Frankford Twp. Elementary School remains in the future sewer service area, but will not be connecting to SCMUA facility at this time. The future wastewater flow is projected at 144,000 GPD for Branchville and 26,000 GPD for the sites in Frankford, for a total of 170,000 GPD for the SCMUA facility. The daily maximum flow for the Discharge to Ground Water NJPDES Permit is 200,000 GPD. The treated wastewater will be discharged to ground water in disposal beds located on Route 206 in Frankford Twp. The treatment plant will be owned and operated by the Sussex County Municipal Utilities Authority.

The following sites currently have NJPDES T-1 Permits, typically for sites constructed in years prior to State regulationst, which is a “General Permit for Sanitary Subsurface Disposal” for discharges greater than 2,000 gallons per day . These sites will be served by the new sewers in Branchville in the future.

**Table A - Existing NJPDES T-1 Facilities:**

<b>NJPDES T-1 Permit</b>	<b>Facility Name</b>	<b>Project Summary</b>	<b>Block</b>	<b>Lot</b>	<b>Street Address</b>	<b>State Plane X Coord.</b>	<b>State Plane Y Coord.</b>
NJG0130362	Third Base Tavern	Restaurant with 106 seats	504	1	3 Hillside Ave.	424784	841389
NJG0157473	Savage Restaurant	Two commercial buildings with restaurants, apartment	502	14	Main St.	422660	842594

**ON-SITE DOMESTIC TREATMENT FACILITIES**  
**FACILITY NAME: BRANCHVILLE/ SCMUA PAULINS KILL FACILITY**

1. Existing or proposed facility:	Proposed	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0146676	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Paulins Kill Basin Aquifer	
5. Classification of receiving water or aquifer:		
6. Owner of facility:	Sussex County Municipal Utilities Authority	
7. Operator of facility:	Sussex County Municipal Utilities Authority	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Branchville and Frankford, Sussex County	
b. Street address	Route 206	
c. Block(s) and Lot(s)		
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude _____ b. Latitude _ _____ or c. State Plane Coordinates N – 838622.2 E – 426967.8	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.200 Million Gallons per Day (MGD)	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2013) Population	Build-out Population
<b>Total</b>		
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2013) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow		
Commercial flow		
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>	<b>0</b>	<b>0.170 MGD</b>

**ON-SITE DOMESTIC TREATMENT FACILITIES  
FACILITY NAME: SELECTIVE INSURANCE CO.**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0073873	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Paulins Kill Basin Aquifer	
5. Classification of receiving water or aquifer:		
6. Owner of facility:	Selective Insurance Company	
7. Operator of facility:	Selective Insurance Company (R. Gottemoller)	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Branchville Borough, Sussex County	
b. Street address	40 Wantage Ave.	
c. Block(s) and Lot(s)	Block 101 Lot 1	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude _N41 08' 57_____	
	b. Latitude _W74 44' 46_____ or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.050 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2013) Population	Build-out Population
<b>Total</b>		Max. occupancy = 2,000 employees
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2013) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow		
Commercial flow	0.008	
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>	<b>0.008 MGD</b>	<b>0</b>

*Note: The Build-out Flow is shown as Zero, because when sewers are constructed, this facility will be closed and wastewater flow will be directed to the new Branchville / SCMUA Sewage Treatment Plant.*

**ON-SITE DOMESTIC TREATMENT FACILITIES**  
**FACILITY NAME: FRANKLIN MUTUAL INSURANCE COMPANY**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0078743	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Paulins Kill Basin Aquifer	
5. Classification of receiving water or aquifer:		
6. Owner of facility:	Franklin Mutual Insurance Co.	
7. Operator of facility:	Franklin Mutual Insurance Co.	
8. Co-Permittee of facility ( <i>where applicable</i> ):		
9. Location of facility:		
a. Municipality & County	Branchville Borough, Sussex County	
b. Street address	5 Broad St.	
c. Block(s) and Lot(s)	Block 202 Lots 18, 21 - 23	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude N41 08' 48 _____	
	b. Latitude W74 45' 4 _____ or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.002 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2013) Population	Build-out Population
<b>Total</b>		
*14. Summary of wastewater flow received/to be received as a 3-day average flow for DSW or a daily maximum flow for DGW:	Current (Year 2013) Flow (in MGD)	Build-out Flow (in MGD)
Residential flow		
Commercial flow	0.002	0
Industrial flow		
Infiltration/Inflow		
<b>Facility Total</b>	<b>0.002</b>	<b>0</b>

*Note: The Build-out Flow is shown as Zero, because when sewers are constructed, this facility will be closed and wastewater flow will be directed to the new Branchville / SCMUA Sewage Treatment Plant.*

**Build-out in Septic Areas and DEP Nitrate Dilution Model**

Undeveloped land was included as available for nitrate dilution for future septic density, and used to calculate “Total New Septics Allowed”. For “Total New Septics based on Zoning”, the results from the DEP Build-out Model were further modified using the Sussex County Strategic Growth Plan build-out analysis done by municipality and by zone.

For the purposes of this analysis it is inconsequential if one municipality’s zoning exceeds the DEP Model Total Allowed, provided that the regional HUC-11 watershed does not exceed the Total New Allowed Units. The regional HUC-11 watershed totals are provided on pages 36 – 39 of the County WMP, and the Paulins Kill watershed meets the DEP maximum for new septics allowed.

<b>Table B - Additional Development at Build-out, Septic Area</b>				
<b>Watershed (HUC-11)</b>	<b>Total Undeveloped Land Available for Dilution (acres)</b>	<b>DEP Nitrate Dilution Model: Acres/New Septic</b>	<b>DEP Model: Total New Septics Allowed</b>	<b>Total New Septics based on Zoning</b>
Paulins Kill (above Stillwater Village)	37	4.8	7	29

3) Identify any areas subject to Federal 201 grant limitations -

4) Provide a checklist of ordinances adopted and pending to complete the municipal chapter.

<b>Table C - Summary of Ordinance Adoption</b>			
<b>Ordinance</b>	<b>Date Adopted</b>	<b>Ordinance Title</b>	<b>Comments and More Protective Standards</b>
Stormwater Management (Ground Water Recharge Maintenance)	March 15, 2006	An Ordinance to Create Chapter 121, Stormwater Control	
Riparian Zone Protection (optional)	n/a		
Steep Slope Protection (optional)	n/a		
Septic Connection in Sewer Service Area	May 2010	An Ordinance which Authorizes Branchville to Provide for Collection and Treatment of Sewerage	