

VIII. **Municipal Wastewater Management Chapters** **Green Township**

2010 Population = 3,601
Land Area = 16.18 square miles

2010 Population Density = 223 persons/sq. mile

This municipal chapter is an element of the Sussex County Wastewater Management Plan prepared by Sussex County Planning Division in accordance with N.J.A.C. 7:15.

Existing and Proposed Wastewater Infrastructure

Wastewater facilities with discharges greater than 2,000 gallons per day are regulated by NJ Dept. of Environmental Protection and have individual New Jersey Pollutant Discharge Elimination System (NJPDES) Permits. The two facilities in Green Twp. described below both discharge to ground water, and the Facilities Tables are included at the end of this chapter.

NJ Conference 7th Day Adventist (Garden State Academy) - This existing wastewater treatment facility (NJPDES Permit No. NJ0099171) serves the 100 students and staff of the NJ Conference 7th Day Adventist (Garden State Academy). This facility is located on 352 acres of land on Route 517. The treatment plant is owned and operated by the NJ Conference 7th Day Adventist, and the treated wastewater is discharged to ground water.

Crossed Keys Banquet Hall - The proposed wastewater treatment facility will serve the Crossed Keys Banquet Hall located on Block 22, Lot 2.02 on Pequest Road. This facility will consist of a 15,458 sq. ft. Banquet Hall to be served by a subsurface sanitary disposal system with discharge to ground water. The proposed Banquet Hall will accommodate 200 seats and 30 employees. The facility will be owned and operated by Pequest 202, LLC.

The following table lists facilities governed by a State T-1 Permit, which is a “General Permit for Sanitary Subsurface Disposal” for discharges greater than 2,000 gallons per day.

Table A - Existing NJPDES T-1 Facilities:

NJPDES	Facility Name	Project Summary	Block	Lot	Street Address	X Coord.	Y Coord.
NJG0175510	NVE Pharmaceuticals Inc.	Canning operation for energy drinks, 20 employees	27	1, 11	17 Whitehall Road	417850	780968

Build-out in Septic Areas and DEP Nitrate Dilution Model

Most of Green Township is located within the Highlands Planning Area, although a small portion is in the Highlands Preservation Area. In the DEP Build-out Model, all undeveloped land was included as available for nitrate dilution. This acreage was divided by acres per new septic to calculate Total New Septics Allowed within that HUC-11 watershed. To calculate Total New Septics based on zoning, the acreage of land available for development was used within each general zone of the municipality.

The results are shown by HUC-11 watershed in Table A. Assuming that all lots are built out based on existing zoning, the number of new septics will not exceed the DEP maximum septics allowable. The DEP Nitrate Dilution Model predicts that ground water quality standard of 2 mg/L will be maintained when future build-out occurs. The Total New Septics based on zoning could be further modified if environmentally sensitive features were removed from the GIS maps and build-out analysis based on local protection ordinances. The DEP Model was used County-wide and its results probably overestimate the number of Total New Septics based on zoning.

The NJDEP Build-out Model should be viewed as a rough indicator. The Model includes variables with a range of values (such as household size) and assumes that existing zoning would not change. It is a regional planning tool with just one focus: to identify possible areas of future stresses on ground water quality. The number of maximum allowable units is a theoretical number, and local municipal plans could provide for much less growth. There are many other considerations for municipalities, and it is not meant to replace or override the local perspective. Given the rural character of Sussex County, its roads and infrastructure, its quality of life, these are some other factors important to planning for future growth. **Appendix K** further describes the NJDEP Build-out Model and some of its limitations as well.

Table A - Additional Development at Build-out, Septic Area				
Watershed (HUC-11)	Total Undeveloped Land Available for Dilution (Acres)	DEP Nitrate Dilution Model: Acres/New Septic	DEP Model: Total New Septics Allowed	Total New Septics Based on Zoning
Pequest River (above Bear Swamp)	4,359	4.5	968	825
Bear Creek	1,212	4.6	263	216

3) Identify any areas subject to federal 201 grant limitations – NONE

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

Table B - Summary of Ordinance Adoption			
Ordinance	Date Adopted	Complies with NJAC 7:15	Comments and More Protective Standards
Stormwater Management (Ground Water Recharge Maintenance)	3/13/2006	County Planning Board certification on 5/1/2006	
Riparian Zone Protection (optional)			
Steep Slope Protection (optional)			
Dry Conveyances in Sewer Service Area	n/a		
Septic Connection in Sewer Service Area	n/a		

**Municipal Chapter – Green Township
Wastewater Facilities Tables**

ON-SITE DOMESTIC TREATMENT FACILITIES

FACILITY NAME: CROSSED KEYS BANQUET HALL

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0159948	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Jacksonburg Limestone/ Kittatinny	
5. Classification of receiving water or aquifer:		
6. Owner of facility:	Pequest 202 LLC	
7. Operator of facility:	Pequest 202 LLC	
8. Co-Permittee of facility (<i>where applicable</i>):		
9. Location of facility:		
a. Municipality & County	Green Twp. - Sussex County	
b. Street address	289 Pequest Road	
c. Block(s) and Lot(s)	Block 22 Lot 2.02	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude __ 74° 46' 06" W	
	b. Latitude____ 40° 58' 56" or	
	c. State Plane Coordinates	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.0045 Million Gallons per Day (MGD)	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2013) Population	Build-out
Total		230
*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 (in MGD)
Residential flow		
Commercial flow		0.0045
Industrial flow		
Infiltration/Inflow		
Facility Total	0	0.0045 MGD

ON-SITE DOMESTIC TREATMENT FACILITIES

FACILITY NAME; GARDEN STATE ACADEMY

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0099171	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Glacial stratified drift, Quaternary age	
5. Classification of receiving water or aquifer:	GW-2	
6. Owner of facility:	NJ Conference of 7 th Day Adventists	
7. Operator of facility:	NJ Conference of 7 th Day Adventists	
8. Co-Permittee of facility (<i>where applicable</i>):		
9. Location of facility:		
a. Municipality & County	Green Twp. – Sussex County	
b. Street address	Route 517	
c. Block(s) and Lot(s)	Block 34 Lot 18	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude 74 47' 25 _____	
	b. Latitude 40 56' 45 _____ or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	<p align="center">0.0225 MGD (Million Gallons per Day)</p> <p align="center">= 22,500 Gallons Per Day</p>	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2013) Population	Build-out Population
Total		
*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	0.010	0.0225
Commercial flow		
Industrial flow		
Infiltration/Inflow		
Facility Total	0.010	0.0225 MGD