

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

2010 Population = 6,319
Land Area = 20.18 square miles

2010 Population Density = 313 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

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 are listed in the tables at the end of this chapter.

Some of the wastewater facilities have had compliance issues relating to their State permits, after the Limecrest quarry reduced their dewatering operation and ground water tables were affected. One facility has a proposed expansion, and further details are described in the following section.

Andover Township - Andover Nursing Home

This existing wastewater treatment facility (NJPDES Permit No. NJ0090069) serves the Andover Nursing Home, Intermediate Care Center, and the Rolling Hills Condominium Complex. The treatment plant is owned and operated by the Andover Utility Co. Inc and the permitted flow is 140,000 gallons per day (GPD). The facility is designed for discharge to ground water, however, due to the higher ground water table in the area, the discharge was going to a pond. The NJ Dept. of Environmental Protection worked with the owners for corrective action to be taken. . The franchise area was established by Township Ordinance in 1999, and the facility is regulated by the NJ Board of Public Utilities.

Andover Township - Life Care Mews

This wastewater treatment facility (NJPDES Permit No. NJ0129542) was built to serve the proposed Life Care Mews, a senior citizens complex near the intersection of Mulford and Limecrest Roads. However, the disposal bed area is being affected by the higher ground water table in the area, which occurred after a nearby quarry ceased pumping out ground water as part of their operations. The property owner is planning to relocate the disposal beds so the treatment plant can function and be operational. The projected annual average flow for this facility is estimated at 65,200 GPD, to be discharged to ground water

Andover Township - Long Pond School

This existing wastewater treatment facility (NJPDES Permit No. NJ0020419) serves the Long Pond School and is now covered under the General Master Permit for Surface Water Discharge for Schools NJPDES No. NJ0193381. The current annual average flow for this facility is 2,000 GPD and the future annual average flow is projected to be 6,000 GPD. The treatment plant is owned and operated by the Andover Regional Board of Education.

Andover Township - St. Paul's Abbey

This existing wastewater treatment facility (NJPDES Permit No. NJ0023132) serves St. Paul's Abbey, a church instruction/retreat facility, and the Willow Glen Academy, an educational development complex, both located on Route 206. The current annual average flow for this facility is 7,500 GPD and the permitted flow is currently 20,000 GPD. There is a proposed upgrading and expansion of this facility to 0.040 MGD to serve 80 affordable housing units in the future. A Wastewater Plan Amendment received County approval, and was submitted to DEP. A Consistency Determination letter was issued in 2013. The treated wastewater is discharged to ground water. The treatment plant is owned and operated by St. Paul's Abbey.

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. T-1 Permits are generally used for facilities that were constructed in years prior to State regulations.

Table A – Existing NJPDES T-1 Facilities

NJPDES	Facility Name	Project Summary	Block	Lot	Street Address	State Plane X Coord.	State Plane Y Coord.
NJG 0136590	Econo Lodge	60- room motel with restaurant	153	22.01	448 Rt. 206 S.	405,330	643,316
NJG 0131351	Farmstead Golf & Country Club	Golf course and club house	111	10	88 Lawrence Rd	427894	793693
NJG 0127779	Florence M. Burd Middle School	Public school	105	11	219 Newton-Sparta Rd.	424618	811759
NJG 0139475	Kittatinny Valley State Park	State park with office, 2 houses, maint. Shop	132	4	2 Airport Rd	425055	790580
NJG 0190501	Perona Farms Food Specialties	Restaurant (560 seats), banquet facility	69	10	Route 517	439758	796207
NJG 0161098	Sheridan's Lodge	Restaurant (60 seats) and bar,	77	1, 3	631 Limecrest Rd.	432404	800053

		one apt.					
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Build-out in Septic Areas and DEP Nitrate Dilution Model

All 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 “developable land” acreage, environmentally sensitive features were removed due to local protection ordinances.

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. For both the Paulins Kill and Pequest River HUC-11 watersheds, Total Zoned is below the DEP Model for Total Allowed so the nitrate dilution is projected to be within acceptable range if the town were built-out based on existing zoning.

Table B - Additional Development at Build-out, Septic Area				
Watershed (HUC-11)	Total Undeveloped Land Available for Dilution	DEP Nitrate Dilution Model: Acres/New Septic	DEP Model: Total New Septics Allowed	Total New Septics based on Zoning
Pequest River (above Bear Swamp)	4,301	4.5	$\frac{4,301}{4.5} = 955$	920
Paulins Kill (above Stillwater Village)	1,067	4.8	222	240

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.

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 C - Summary of Ordinance Adoption			
Ordinance	Date Adopted	County Planning Board Approval	Comments and More Protective Standards
Stormwater Management (Ground Water Recharge Maintenance)	7/24/2006	12/4/2006	
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 – Andover Township Wastewater Facilities Tables

The wastewater facility tables for all sanitary and/or process wastewater discharge to surface water facilities and those sanitary/ and/or process wastewater discharge to groundwater facilities discharging greater than 2000 gallons per day (i.e., requiring NJPDES permits) are listed below, based on whether they are domestic or industrial wastewater treatment facilities, and whether they have service areas that affect more than one municipality.

On-Site Domestic Treatment Facilities– These facilities are listed on following Tables .

Industrial Wastewater Facilities – If applicable, these facilities are listed in Tables.

**ON-SITE DOMESTIC TREATMENT FACILITIES
FACILITY NAME: ANDOVER NURSING HOME**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0090069	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:		
5. Classification of receiving water or aquifer:	Kittatinny/ Pequest	
6. Owner of facility:	Andover Nursing Home Inc.	
7. Operator of facility:	Andover Utility Co., Inc.	
8. Co-Permittee of facility (<i>where applicable</i>):		
9. Location of facility:		
a. Municipality & County	Andover Twp, Sussex County	
b. Street address	Mulford Road	
c. Block(s) and Lot(s)	Block Lot	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude 74° 41' 49 " b. Latitude 41° 02' 42" or c. State Plane Coordinates: N 437,315 E 805,676	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.140 Million Gallons per Day (MGD)	
*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	0.0727	0.140
Commercial flow		
Industrial flow		
Infiltration/Inflow		
Facility Total	0.0727 MGD	0.140 MGD

* Infiltration/Inflow (I/I): Existing I/I should be identified. However, additional future I/I may not be projected. (The NJPDES Treatment Works Approval regulations make numerical allowances for I/I.) The existing I/I can be carried-over and accounted for in the total future wastewater flow.

ON-SITE DOMESTIC TREATMENT FACILITIES
FACILITY NAME: ASCOT PARK GARDEN APARTMENTS

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0060321	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Kittatinny/ Pequest	
5. Classification of receiving water or aquifer:	GW-2	
6. Owner of facility:	Martin & Faul, Ltd.	
7. Operator of facility:	Martin & Faul, Ltd.	
8. Co-Permittee of facility (<i>where applicable</i>):		
9. Location of facility:		
a. Municipality & County	Andover Twp., Sussex County	
b. Street address	1 Ascot Park	
c. Block(s) and Lot(s)		
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude ___74° 42' 22"	
	b. Latitude _____ 41° 02' 43" or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.010 MGD	
*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	0.009	0.010
Commercial flow		
Industrial flow		
Infiltration/Inflow		
Facility Total	0.009 MGD	0.010 MGD

**ON-SITE DOMESTIC TREATMENT FACILITIES
FACILITY NAME: LONG POND SCHOOL WTP**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ0020419	
3. Discharge to ground water (DGW) or surface water (DSW):	DSW	
4. Receiving water or aquifer:	Tributary to Lake Iliff	
5. Classification of receiving water or aquifer:	FW-2-TM	
6. Owner of facility:	Andover Twp. Regional Board of Education	
7. Operator of facility:	Edward Enright	
8. Co-Permittee of facility (<i>where applicable</i>):		
9. Location of facility:		
a. Municipality & County	Andover Twp., Sussex County	
b. Street address	707 Limecrest Road	
c. Block(s) and Lot(s)		
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude 74° 42' 30"	
	b. Latitude 41° 01' 55" _____ or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.010 MGD (or 10,000 Gallons Per Day)	
*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	.002
Commercial flow		
Industrial flow		
Infiltration/Inflow		
Facility Total	0.002 MGD	0.010 MGD

**ON-SITE DOMESTIC TREATMENT FACILITIES
FACILITY NAME: ST. PAUL'S ABBEY**

1. Existing or proposed facility:	Existing	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ 0023132	
3. Discharge to ground water (DGW) or surface water (DSW):	GW	
4. Receiving water or aquifer:		
5. Classification of receiving water or aquifer:	GW-2	
6. Owner of facility:	St. Paul's Abbey Benedictine Missionaries	
7. Operator of facility:	Br. Luke O'Connell, St. Paul's Abbey	
8. Co-Permittee of facility (<i>where applicable</i>):	n/a	
9. Location of facility:		
a. Municipality & County	Andover Twp., Sussex County	
b. Street address	291 Route 206	
c. Block and Lot	Block 153 Lot 35 Block 151 Lots 22	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude 41° 02' 05"	
	b. Latitude 74° 45' 53" or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.020 MGD	
*13. Summary of population served/to be served including major seasonal fluctuations:	Current (Year 2013) Population	Build-out Population
Total		+80 housing units
*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	0.007	
Commercial flow		
Industrial flow		
Infiltration/Inflow		
Facility Total	0.007 MGD	0.040 MGD

* Infiltration/Inflow (I/I): Existing I/I should be identified. However, additional future I/I may not be projected. (The NJPDES Treatment Works Approval regulations make numerical allowances for I/I.) The existing I/I can be carried-over and accounted for in the total future wastewater flow.

ON-SITE DOMESTIC TREATMENT FACILITIES
FACILITY NAME: WAWA STORE

1. Existing or proposed facility:	Proposed	
2. New Jersey Pollutant Discharge Elimination System Permit Number:	NJ 0166553	
3. Discharge to ground water (DGW) or surface water (DSW):	DGW	
4. Receiving water or aquifer:	Aquifer	
5. Classification of receiving water or aquifer:	II-A	
6. Owner of facility:	Wawa, Inc.	
7. Operator of facility:	Wawa, Inc.	
8. Co-Permittee of facility (<i>where applicable</i>):		
9. Location of facility:		
a. Municipality & County	Andover Twp., Sussex County	
b. Street address	State Route 206 and County Route 603	
c. Block(s) and Lot(s)	Block 158 Lot 6	
10. Location of discharge (i.e. degrees, minutes, seconds):	a. Longitude _____	
	b. Latitude _____ or	
	c. State Plane Coordinates _____	
11. Present permitted flow or permit condition (DSW) or daily maximum (DGW):	0.002722 MGD	
*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		
Commercial flow	0	
Industrial flow		
Infiltration/Inflow		
Facility Total	0	0.002722 MGD