

## 7.0 Utilities

### Master Plan Recommendation Updates

**Recommendation 7.1: Plan for areawide water quality management, including implementation of the *Wastewater Management Plan (WMP)* for Monmouth County as part of the *Monmouth County Water Quality Management (WQM) Plan*, to serve the needs of residents and businesses in a way that supports economic development, particularly in Priority Growth Investment Areas (PGIAs), and conserves environmental resources that protect water quality and quantity (Continuous).** Nine (9) site specific amendments have been adopted by the New Jersey Department of Environmental Protection (NJDEP) since *Future Wastewater Service Area (FWSA) Map* adoption. Four (4) map revisions have been approved to correct omissions or add areas that received approvals for sewer connections while the draft *FWSA Map* was under review at NJDEP. These amendments and revisions are listed in Figure 7.3 and shown on Figure 7.4. (See 7.2.2 *Monmouth County Water Quality Management Plan*) Additional amendments and revisions are in various stages of the review process from having held pre-application meetings to applications currently before the Amendment Review Committee (as of August 1, 2018).

**Recommendation 7.2: Encourage adoption of municipal and regional stormwater management plans that support sound stormwater management initiatives and green Best Management Practices (BMPs) (Continuous).** Planning staff consistently informs stakeholders about stormwater management project grant opportunities and information on BMPs as articles in the *Monmouth County Environmental Newsletter*. Staff has assisted two (2) municipalities and the County Engineer's staff with updates to stormwater permits.

**Recommendation 7.3 | Review the *New Jersey Statewide Water Supply Plan (1996)* for accuracy, monitor water supply issues, and provide recommendations to address discrepancies (Completed).** The *New*

*Jersey Water Supply Plan 2017-2022* was reviewed by staff, and an overview was presented to the Monmouth County Environmental Council (MCEC) and Monmouth County Planning Board (MCPB). The MCPB submitted a comment letter based upon the MCEC's recommendations. (See 7.2.2 *New Jersey Water Supply Plan*)

**Recommendation 7.4 Work with other County departments and agencies to create and implement a comprehensive energy plan that promotes a culture of responsible energy use that optimizes efficiency, hardens infrastructure, and reduces both energy use and costs (Continuous).** Staff assisted Middletown Township with their application to the Bureau of Public Utilities (BPU) to study the feasibility of a microgrid that would serve Naval Weapons Station (NWS) Earle, County, and Township facilities. The grant was awarded and the feasibility study is proceeding. (See 7.4.1 *Microgrids Proposed for Monmouth County*)

### 7.2 Existing Conditions

#### 7.2.2 Supportive Reports and Guiding Documents

- **Monmouth County Water Quality Management Plan** | On November 7, 2016, NJDEP adopted new wastewater management planning rules. The County has begun the process of drafting a new *WMP* under the 2016 rules and anticipates submitting a draft *WMP* to NJDEP in November 2018. The Monmouth County *FWSA Map* is, however, still valid.
- **New Jersey Water Supply Plan** | NJDEP adopted the [New Jersey Statewide Water Supply Plan](#) in 1996 and in 2003 the plan was updated by the *Water Supply Action Plan 2003-2004*. In 2017 NJDEP published the [New Jersey Water Supply Plan 2017-2022](#). The new plan studied water use trends, developed watershed water budgets, and outlined water supply policies that were deemed critical for water supply planning for the future. The 2017 plan notes that peak demand for water is about 1,509 million gallons per day in New Jersey. Per capita water use has decreased from a 1990

high of 155 gallons per day to a 2015 rate of 125 gallons per day, due mostly to more efficient plumbing fixtures.

During the summer of 2015, much of New Jersey saw little rainfall and the water reserves in reservoirs, ground water supplies, and the base flow in streams were all significantly decreased. As a result, on September 23, 2015, NJDEP issued a drought watch for 12 New Jersey counties, including Monmouth. Previously, in 2010, there was a statewide drought watch and in 2002 there was a statewide drought emergency with mandated water use restrictions. With these factors in mind, and reduced precipitation again experienced in the spring of 2016, the MCEC passed a resolution in May calling for the NJDEP to produce an update to the *New Jersey Water Supply Plan*. In June, the Monmouth County Planning Board passed Resolution #2016-09 concurring with the MCEC. Later that month the Monmouth County Board of Chosen Freeholders passed a similar Resolution #2016-0578. One month later, on July 25, 2016, another drought watch was issued for parts of northern and central New Jersey.

#### **7.4 Stakeholder Actions and Efforts**

##### **7.4.1 Monmouth County Efforts**

**NEW! Microgrids Proposed for Monmouth County** | After Superstorm Sandy hit New Jersey, the Christie Administration made it a priority to improve the state's energy resiliency and increase the usage of the Distributed Energy Resource Microgrid technologies. Microgrid systems are intended to improve storm resiliency for the connected sites allowing them to remain operational during a major storm. The New Jersey BPU established a Town Center Distributed Energy Resource Microgrid Feasibility Study program with a budget of \$1 million and sought proposals. After reviewing the 13 proposals submitted, the BPU increased the budget to \$2,052,480 to fund all applications. Two microgrids proposed for Monmouth County received feasibility study

funding in 2017. Both year-long studies are expected to be completed in August 2018.

##### ***The Neptune Township Microgrid is proposed to connect the following facilities:***

- Monmouth County Academy of Allied Health & Science
- Neptune Municipal Building (includes police department and library)
- Meridian Dentistry for Children
- Pediatric Associates
- Neptune Department of Public Works
- Township Public Schools: Gables Elementary, Neptune Middle & Neptune High School
- Brookdale Community College
- Monmouth County Vocational School
- Neptune Aquatic Center
- Shore Memorial University Medical Center

##### ***The Middletown Microgrid is proposed to connect the following facilities:***

- NWS Earle Waterfront Administrative Area
- Township of Middletown Sewerage Authority
- NY Waterway Ferry Terminal
- Middletown Public Works and CNG Fueling Facilities
- Middletown Municipal Complex
- Township Public Schools: Bayshore Middle, Leonardo Elementary & Bayview Elementary
- Monmouth County Highway District
- Middletown Fire Stations 3, 4 & 7
- Monmouth County Bayshore Outfall Authority
- Traffic signals along NJSH Routes 35 & 36 and Leonardville Road

**Updated Figures for Chapter 7.0 Utilities**

**NEW! Figure 7.3 | Wastewater Management Plan Amendments**

■ Projects approved for WMP Amendments since adoption of the *Monmouth County Future Wastewater Service Area Map* on April 11, 2013.

<b>Figure 7.3: Wastewater Management Plan Amendments</b>						
<b>Adopted After April 11, 2013</b>						
<b>Project/Applicant Name</b>	<b>Application Type</b>	<b>Municipality</b>	<b>Block(s) &amp; Lot(s)</b>	<b>Amendment Acreage</b>	<b>MUA/DGW</b>	<b>NJDEP Adoption Date</b>
Riverside Center - XXXIII Associates	SSA	Millstone	B. 18, L. 2.02	64.8	DGW	1/16/14
Harbor Road Water Treatment Facility	SSA	Marlboro	B. 171, L 71	1.25	WMUA	2/9/15
Harms & Pinnacle	SSA	Howell	B. 130, L. 17, 20-22, & 57-61	84.8	MRRSA-OCUA	4/13/15 rev. 10/19/15 rev. 3/12/18
Conover Hills	Revision	Marlboro	B. 160, L. 36.02, 37-78 & 80-89 B. 160.01, L. 5.01-5.05 & 5.07-5.17 B. 160.02, L 1-4 B. 160.03, L. 1-15, 16.01-16.03 B. 160.04, L. 105	100	WMUA	10/8/15
Sunnyside at Howell	Revision	Howell	B. 129, L. 85.01	12.5	MRRSA	10/19/15
Greenleaf ( <i>aka. BJs Wholesale</i> )	Revision	Howell	B. 25, L. 54.01 (formerly L. 54, 56-64, 72 & 73)	19.7	MRRSA	11/13/15
RMS Hospital & Mattie House	SSA	Marlboro	B. 157, L. 34.02; B. 159, L. 11	123.48	WMUA	12/1/2015
Friendship Circle	SSA	Marlboro	B. 172, L. 27 (portion) & 29 (portion)	19.28	WMUA	1/11/2016
Mill Club ( <i>former German American Club</i> )	SSA	Howell	B.25, L. 70 & 71	6.17	MRRSA	4/3/17
Blaisdell Family Subdivision	SSA	Middletown	B. 1020, L 10, 11 & 12	1.85	TOMSA	4/13/17
Belmar Blvd-Rte. 34 ( <i>aka Wall Business Center/Allaire Corp. Park</i> )	Revision	Wall	Block 915, Lot 2 (portion) Block 916, Lots 1.03, 1.04, 1.05 & 1.06	34	SMRSA	3/12/18
Hockhockson Farm	SSA	Colts Neck	B51, L1.1 & 1.1Q N/F1.01	11.7	DGW	5/18/18
Parker Chase	SSA	Marlboro	B180, L83.14	14.4	WMUA	Adoption Pending

SSA = Site Specific Amendment

6/30/18

**NEW!** Figure 7.4 | Wastewater Management Plan Amendments Map

- Map showing the location of WMP amendments since the *Future Wastewater Service Area Map* was adopted on April 11, 2013.
- Corresponds to the table shown in Figure 7.3 above.

