Water Supply and Distribution

The Lakewood Township Municipal Utilities Authority (LTMUA) and the New Jersey American

Water Company (NJAWC) both provide public water service in the Township. Attachment UE-1

identifies the service areas of the LTMUA and NJAWC within the Township of Lakewood. The Lakewood Township Municipal Utilities

Authority is a public entity with a board of commissioners appointed by the Lakewood

Township Committee. The New Jersey American Water Company, a subsidiary of American

Water Works Company, Inc., an investor-owned corporation with headquarters in Voorhees,

New Jersey. The American Water Works Company also provides potable water and sewer

services throughout New Jersey and other states.

In addition to this Utility Services Element, as part of the Plan Implementation Agreement, Lakewood Township will develop a Water Supply Management Plan to demonstrate how water demands will be met for a 10 year planning horizon.

Lakewood Township Municipal Utilities Authority

The Lakewood Township Municipal Utilities Authority (LTMUA) service area is approximately 11

square miles in area and serves primarily the eastern portion of the Township, through

approximately 100 miles of water mains. The Lakewood Township Municipal Utilities Authority

operates two treatment plants, located on Shorrock Street and New Hampshire Avenue, which

manage most of the water from the Authority’s wells.[[1]](#footnote-1) These wells draw from the Englishtown,

Potomac-Raritan-Magothy, and Cohansey Aquifers. The Authority has plans to install an

additional five wells, one of which would be a standby well. In addition, the Authority purchases

water from Brick Township Municipal

Utilities Authority. Water is stored in the Authority’s five water storage tanks, which collectively have an effective storage capacity of 5.97 million gallons.[[2]](#footnote-2)4 In addition to the wells managed for

potable use, the Lakewood Township Municipal Utilities Authority manages an additional three

wells that are dedicated for use at the Lakewood Cogeneration Facility.

Table UE-1, which is located on the next page, describes the water supply limits, existing

demands and firm capacity of the Lakewood Township Municipal Utilities Authority, based on

data provided to the New Jersey Department of Environmental Protection’s Division of Water

Supply and Geoscience. This data, last updated on September 1, 2016, indicates that the

Authority is permitted to withdraw a maximum of 188.840 million gallons per month (MGM), or

1,544 million gallons per year (MGY) from its wells. The Authority supplements this supply with

purchases from outside sources, enabling it to provide a total monthly supply of 198.140 MGM,

or 1,653.5 MGY. When peak demand[[3]](#footnote-3)5 is evaluated[[4]](#footnote-4),6 the Lakewood Township Municipal Utilities

Authority has a surplus of 2.386 MGM, or 70.928 MGY available for use.

The LTMUA is fully aware of the growth projections of the Lakewood Smart Growth Plan and

anticipated development. Based on the information above and Township consultation with

Authority staff, the LTMUA appears well poised to meet current and immediate future

demands in its service area and is taking further steps to increase its capacity to meet future

needs.

Specifically, to meet future demand the Lakewood Township MUA is drilling additional supply

wells, discussed plans for an added interconnection with the Brick MUA, submitted an

application for a water allocation permit modification to the NJDEP for additional withdrawal

from existing wells, consulted with the NJ American Water concerning a purchase agreement

for potable water, modernized its water treatment facilities and upgraded the system to install

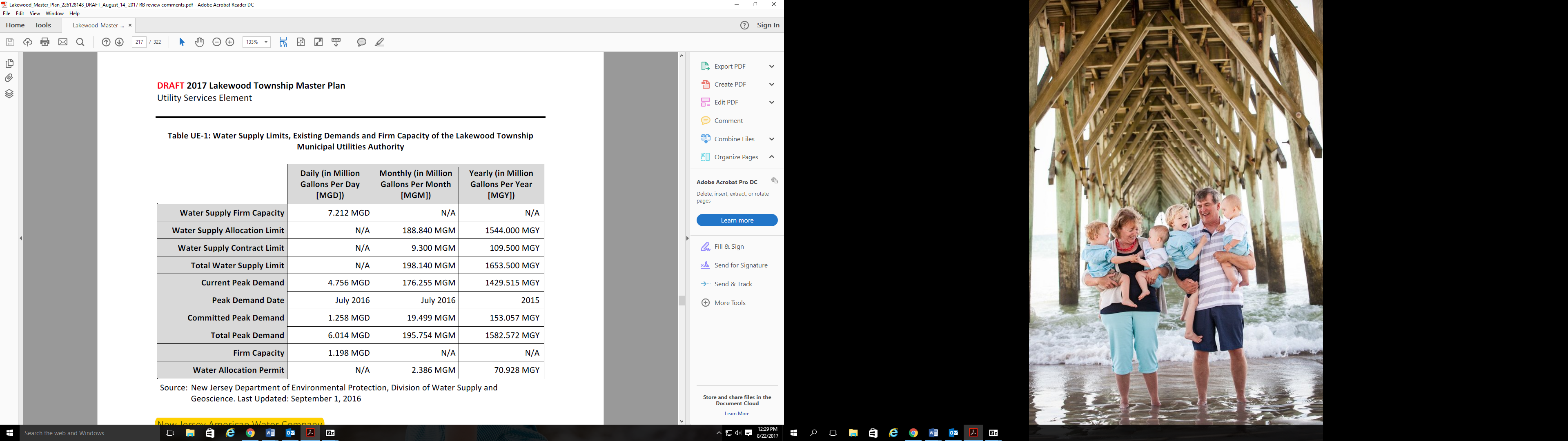
automated real time data reporting equipment to reduce detection time for leaks and to

improve customer service. In addition, the MUA has been preparing a ten-year Water Supply

Plan and is anticipated to issue the draft plan in early September 2017.

**Table UE-1: Water Supply Limits, Existing Demands and Firm Capacity of the Lakewood Township**

**Municipal Utilities Authority**



Source: New Jersey Department of Environmental Protection, Division of Water Supply and

Geoscience. Last Updated: September 1, 2016

New Jersey American Water Company

The New Jersey American Water Company’s Coastal North regional public water system

supplies water to thirty-six (36) municipalities throughout Monmouth and Ocean county,

including Lakewood Township, where the company’s franchise area includes the western

portion of the Township. A subsection of the Coastal North System, referred to by the New

Jersey American Water Company, as the “Lakewood/Howell” area of the system provides water

to Howell Township, Lakewood Township, and a portion of Freehold Township. The potable

water facilities include 1,700 miles of water mains, three (3) surface water treatment plants,

thirty (30) storage facilities, and twenty-six (26) wells drawing water from the Englishtown,

Raritan and Cohansey Aquifers. Of the 26 wells, ten of these wells are located within Lakewood

Township.

Table UE-1 describes the water supply limits, existing demands and firm capacity of the New

Jersey American Water Company’s Coastal North System, based on data provided to the New

Jersey Department of Environmental Protection’s Division of Water Supply and Geoscience.

This data, last updated on July 1, 2016, indicates that New Jersey American Water is permitted to withdraw a maximum of 1,984.052 MGM, or 15,073.749 MGY from its wells. The Company

supplements this supply with purchases from outside sources, enabling it to provide a total

monthly supply of 445.625 MGM, or 4,699.375 MGY. When peak demand[[5]](#footnote-5)7 is evaluated[[6]](#footnote-6),8 the

New Jersey American Water Company’s Coastal North System has a surplus of 198.010 MGM,

or 1,744.027 MGY available for use.

Information on NJAW water system capacity provided in August 2017 to the Township indicates

that the Coastal North System has a firm capacity of 79.621 million gallons per day (MGD)

versus of a system demand of 71.017 MGD (including committed peak). (Source: Letter from

New Jersey American Water, Wade Wertman, PE dated August 2, 2017.) This information is

identified in a NJDEP master permit issued on July 20, 2017. Coast North System current

capacity reserves are 8.6 MGD. The available reserves allow for growth throughout the service

area.

1. 3 It should be noted that water from some smaller or seasonal wells is not treated at either

   the New Hampshire Avenue or Shorrock Street treatment plant, as per the Lakewood

   Township Municipal Utilities Authority’s Annual Drinking Water Quality Report for the year

   2016 from the year 2015. [↑](#footnote-ref-1)
2. 4 Based on the January 2015 Application for Modification of Water Diversion Permit No.

   5079, the Authority’s five (5) water storage tanks have a total capacity of 8.57 million

   gallons. [↑](#footnote-ref-2)
3. 5 Peak demand is a measure of the average day of the highest recorded demand month

   occurring in the last five (5) years. [↑](#footnote-ref-3)
4. 6 Calculation of total peak demand includes the existing peak demand, but also peak demand

   from “committed” sources, or projects that have been approved for connection to the

   system, but not yet constructed. [↑](#footnote-ref-4)
5. 7 Peak demand is a measure of the average day of the highest recorded demand month

   occurring in the last five (5) years. [↑](#footnote-ref-5)
6. 8 Calculation of total peak demand includes the existing peak demand, but also peak demand

   from “committed” sources, or projects that have been approved for connection to the

   system, but not yet constructed. [↑](#footnote-ref-6)