

The Borough of Hanover



HANOVER MUNICIPAL WATER WORKS



LAWRENCE BAKER SHEPPARD DAM



HANOVER WATER FACT SHEET



WATER SUPPLY SOURCES:

- SHEPPARD & MYERS DAM
- LAWRENCE BAKER SHEPPARD DAM
- SLAGLES RUN INTAKE

LOCATION OF WATER SUPPLY:

- **SHEPPARD & MYERS DAM:**
½ mile from the Pennsylvania and Maryland Line in West Manheim Township, York County
- **LAWRENCE BAKER SHEPPARD DAM:**
¾ mile from the Pennsylvania and Maryland Line in West Manheim Township, York County
- **SLAGLES RUN INTAKE:**
Pump station located in Conewago Township, Adams County.

GENERAL INFORMATION ON WATER SOURCES:

- **SHEPPARD & MYERS DAM:**
 - Constructed in 1932;
 - Smallest and oldest of the two dams;
 - Covers 46 ½ acres;
 - Watershed area covers 5.8 square miles;
 - Water supply originates in West Manheim Township, York County, Pa. and Carroll County, Maryland;
 - Capacity is 190,400,000 gallons;
 - Required to release 542,000 gallons a day for conservation;
 - One main inlet stream (South Branch of the Little Conewago Creek)
- **LAWRENCE BAKER SHEPPARD DAM:**
 - Also known as Long Arm Dam;
 - Constructed in 1964;
 - Covers 225 acres;
 - Watershed area covers 5.62 square miles;
 - Water supply originates in Carroll County, Maryland;
 - Capacity is 1,659,404,000 gallons;
 - Required to release 552,000 gallons a day for conservation;
 - Two main inlet streams (Long Arm Creek and other unnamed)

▪ **SLAGLE’S RUN INTAKE AND PUMP STATION:**

- Constructed in 1994;
- Watershed area covers 10.27 square miles;
- Drainage from the North and East side in Penn Township, North side of Hanover Borough, York County; Conewago Township and Berwick Township, Adams County; go into streams to form the Slagle’s Run;
- Ground water discharged from the Vulcan Materials Company is pumped into this stream;
- This water is all pumped directly to our Clear Lake via a 20” main and treated at the filter plant;
- The Slagle Run Pump Station is permitted for pumping 4.8 million gallons a day, with a 1 million gallon a day conservation release.

BOROUGH OF HANOVER – WATER FACILITIES

RAW WATER

▪ **SHEPPARD & MYERS DAM:**

Water flows northwesterly in the South Branch of the Little Conewago Creek for 2.9 miles where it converges with the Long Arm Creek;

▪ **LAWRENCE BAKER SHEPPARD DAM:**

Water flows northwesterly in the Long Arm Creek into the South Branch of the Conewago Creek;

Once the two dam flows meet as indicated above the water continues to flow north westerly in the South Branch of the Conewago Creek picking up run off from the surrounding area until it reaches the Kitzmiller Diversion Dam 1.8 miles down stream.

▪ **KITZMILLER DIVERSION DAM:**

- This dam creates a pool holding approximately 15 million gallons in the stream bed;
- Watershed total area covers 17.02 square miles;
- Required to release 1.6 million gallons a day for conservation release;
- Raw water is diverted via a 36” reinforced concrete line to Clear Lake;
- In 2013 a second 36” raw water line to Clear Lake was added using ductile iron.

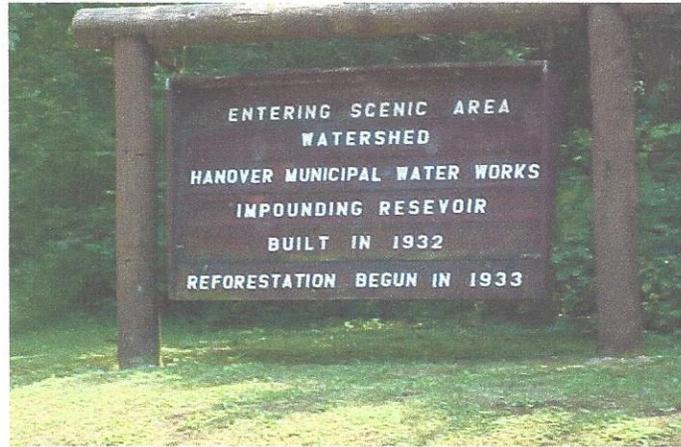
▪ **CLEAR LAKE:**

- A man-made holding lake located at the filter plant;
- Capacity is 66 million gallons;
- Covers 13 acres
- Lake serves as a sedimentation basin and temporary clean source of raw water should the quality of the stream become degraded;
- Water from the lake flows by gravity to the filter plant through a 36 inch and 16 inch line to be treated.

STORAGE RESERVES:

▪ **PARR’S HILL:**

- Constructed in the early 1900’s;
- Located on Black Rock Road, Penn Township;
- Consists of two reservoirs with total capacity of 13,020,000 gallons of filtered water (one contains 5,295,000 gallons and the other 7,725,000 gallons);
- A booster station was built in 1965 to increase water pressure in the Southeast Section of the distribution system;
- Floating covers were replaced in 2014 to maintain water quality;
- Liner installation was completed early 2014;
- Added a new pump station in 2014 to support additional water supply.



CURRENT PROJECT STATUS

- PARR’S HILL RESERVOIRS # 1 AND # 2:
 - Replaced floating covers and liners
 - Repaired and upgraded chlorine system
 - Added a new pump station and pumping equipment
 - Total completion in October, 2014

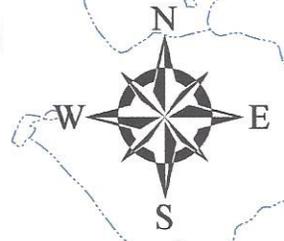
- FILTER PLANT IMPROVEMENTS:
 - A. Phase I
 - Final design and bid phase
 - Projected start date of October, 2014 with completion in 2016

 - B. Phase II
 - Final design and bid phase
 - Estimated start of construction is 2016

- DAM REHABILITATION:
 - A. Sheppard Myers Dam
 - Evaluation completed June, 2013
 - Design in 2016
 - Construction begin in 2017

 - B. Long Arm Dam
 - Evaluation to be completed in 2015

BOROUGH OF HANOVER WATER FACILITIES



Slagles Run Pump Station

HANOVER BOROUGH

McSherrystown Elevated Tank

McSHERRYSTOWN BORO

Terrace Ave Elevated Tank

CONEWAGO TOWNSHIP

PENN TOWNSHIP

CLEAR LAKE
Water Filtration Plant

PARR'S HILL RESERVOIR

Kitzmilller Diversion Dam

WEST MANHEIM TOWNSHIP

York Co.
Adams Co.

LBS RESERVOIR

SHEPPARD MYERS RESERVOIR

Legend

 water_system_features

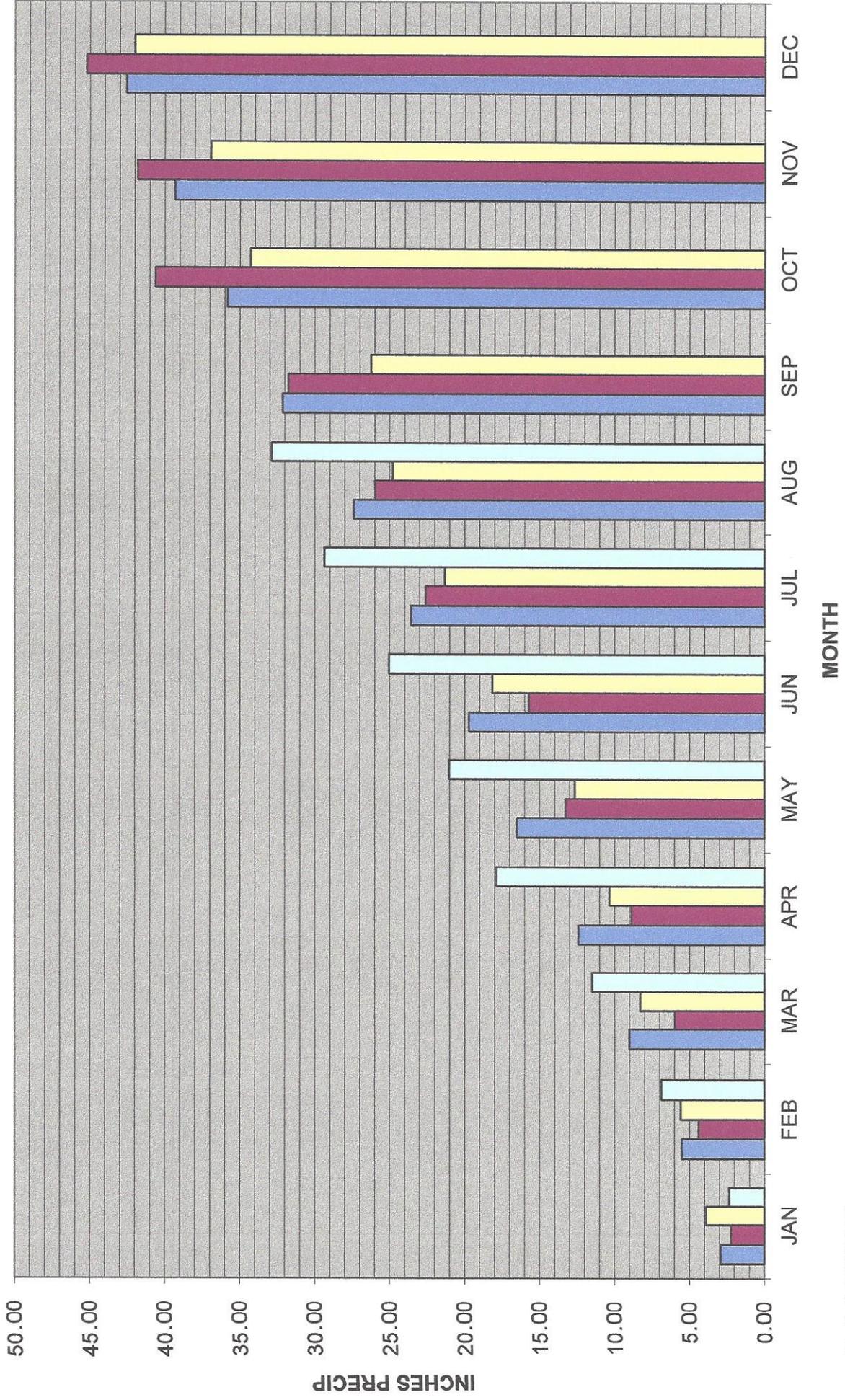
 reservoirs

Conewago Creek

Long Arm
Creek

RAINFALL COMPARISON

MONTHLY CUMULATIVE



End of AUG 2014



SHEPPARD & MYERS DAM

