



Middletown

**AGENDA FOR THE
VIRTUAL
WATER & SEWER COMMITTEE MEETING
April 28, 2021
7:00 p.m.**

- **Monthly Water & Sewer Operations Report**
- Update on Inflow & Infiltration Study
- Update on Memar Water Study

Zoom Invite

*Topic: Water & Sewer Meeting - April 28, 2021
Time: Apr 28, 2021 07:00 PM Eastern Time (US and Canada)*

Join Zoom Meeting

<https://us02web.zoom.us/j/82079191712?pwd=OUVyNEphOU9QRitQWDhrU09iaVBPdz09>

Meeting ID: 820 7919 1712

Passcode: 163980

One tap mobile

+13017158592,,82079191712#,,,,*163980# US (Washington DC)

+13126266799,,82079191712#,,,,*163980# US (Chicago)

Dial by your location

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

Meeting ID: 820 7919 1712

Passcode: 163980

Find your local number: <https://us02web.zoom.us/j/82079191712?pwd=OUVyNEphOU9QRitQWDhrU09iaVBPdz09>

**Public Works Monthly Report
April 1, 2021**

COMPLETED WORK

Public Works

Brookridge Sewage PS clogging has subsided. We adjusted the wet well level higher to provide additional head elevation to help the pump and make it run longer to try and cut the material. Have an idea for a basket strainer also if needed after measuring the area available in the wet well. Disk filter painting complete. Scheduling reassembly and replacement of controls. Ordered refurbishment of the EWWTP barscreen (CIP item). Draft budgets completed. Turning valves and preparing for hydrant flushing.

New Projects or Requests

Unbudgeted Expenses:

Well 6 pump and motor replacement: -\$3250.00, Well Pump 1 motor and pump: -\$4612.00, No sludge Hauling Sept: +\$2990.00, No sludge Hauling October +2990.00, No hauling November + \$2990.00, No sludge hauling December +2990.00 Solids Meter Purchased +\$2300.00 (will be paid for in 3 months vs lab testing) Additional lab testing for MLSS at East Plant +\$2000.00

Sludge cost for FY \$ 9,570.00, 36000 gal hauled, 5650 gal bedded Total hauled 99,000 gal Bedded 65,450 Gal
Water Use (Average Daily for the Month, Flows stated in gallons per day)

Permit Limits (gal) 387,000/504,000 AD/MMU 250,000 AD 250,000 AD
Base flow 176,000 Base flow 159,000

MONTH	WATER USE		SPRING FLOW		East WWTP		West WWTP		Rain
	past yr	present yr	past yr	present yr	past yr	present yr	past yr	present yr	
January	295,230	317,614	96,085	100,405	257,000	260,000	262,000	224,000	2.6
February	297,096	300,936	133,808	109,250	258,000	291,000	352,000	179,000	4.9
March **	298,579	297,775	140,805	144,800	225,000	281,442	214,000	208,134	2.7
April **	321,847	290,726	129,642	143,076	228,000	214,000	401,000	222,000	
May	328,737	290,109	132,987	143,632	279,000	239,000	542,000	327,000	
June	321,467	306,095	135,541	139,857	303,000	185,000	233,000	175,000	
July	302,495	329,237	129,973	106,703	218,000	167,000	260,000	147,000	
August	301,201	300,267	113,503	80,583	159,000	178,000	158,000	168,000	
September	339,215	300,687	87,210	64,513	141,000	175,000	154,000	147,000	
October **	316,050	313,370	72,217	52,296	184,000	173,000	180,000	128,000	
November**	284,740	285,014	74,322	50,700	200,000	194,000	218,000	137,000	
December	298,071	293,083	78,176	68,898	230,000	305,000	222,000	199,000	

Avg Daily/yr 308,727 302,076 110,356 100,393 223,500 221,870 266,333 188,428
Avg Yr Flw 112.69 110.26 40.28 36.64 81.58 80.98 97.21 68.78

**Hydrants flushed this month

April 2019 737,446. October 2019 531,958, Spring 2020 not flushed. Fall 2020 582,024

Sewer Flow

March: East Plant flow is up 7% from Feb, West Plant flow is up 32% from Feb (all gravity), combined flow 489,576 (up 17%).

Planned Work

HVAC Replacements, UV lights
MDE water inspection corrections and emergency plan update
Continue Fire Hydrant ID tag and numbering system installation
Regulatory: Grease Ordinance completion.
Bid Sludge Hauling and Chemicals.
Reed Bed Development cost analysis.

Reservoir Tank: Contractor to return by April 12 to complete the project. Current daily difference in to out is 690 gallons per day. This due only to the elevation in the reservoir.

Open Projects

I & I Walnut to Jefferson St.: Submitted plans for permit, easement document created. Construction documents at 95% and ready to bid when the budget is available. Phased into two phases. Will hold this project and redirect funds to I and I study for the Foxfield Basin to CBPS. Scope of work has been developed and will be sent to several engineering firms.

ADA sidewalk ramp reconstructions: No action.

W WWTP. Final pond baffle is malfunctioning, Investigation needed. Needs review. Received chemical building plans for review. Provided info to Consultant for baffle replacement. No action If pursuing a new plant I would not recommend the replacement.

Develop Grease Trap Ordinance and Education Program: No Action

Water System:

Hydraulic Model: We will be requesting GF to model and review the Memar Subdivision water system and review the proposed treatment plant and pressure zone requirements.

System: No loss with new reservoir.

Broad St Streetscape: Design Phase 99% complete. Have applied for grading permit. Bid Date March 31, 2021, prebid March 17 2021. Currently on HOLD due to property issues and amenities.

SSO and I&I: Reviewing the need to perform a I & I study for the Cone Branch Basin to meet the new West WWTP Permit requirements. New CBPS monitoring spreadsheets show the I & I clearly effecting the PS. With the data from the last 3 months we will now manage the flows to the plants. Wet weather months have us very close to the combined permit limit of 500,000 gpd avg discharge. We have been sending al flow to the east and will know regulate between the two plants. Public Announcement for I & I Project and to disconnect illegally connected sump pumps (provide early notice).

MDE /Permits: West WWTP Discharge Permit DRAFT received discussed and will be advertised by MDE. East WWTP Discharge Permit (exp Dec 2021) submitted 22 months prior to expiration and then revised 14 months before expiration. We have requested an increase in discharge flow from 250,000 to 350,000. No action

MDE MS4 Permit Reports: Report submitted in October. No action

West Wastewater Treatment Plant: No action

East WWTP: Permit renewal complete (exp Dec 2021). Monitoring plant operation and flows. Filter refurbishment project has begun. PO issued for barscreen.

Franklin St Conceptual Sidewalk Plans: Included in the Broad St project. No action

Municipal Center: no action

Maintenance Facility: Contract has been executed with Triad Engineering. We have received a preliminary sketch. No action.

Washington Street: 95% drawings provided to Board for review and presentation to residents November 2020 meeting. Resident requests need to be resolved.

Garage Drive Street Lights: Design completed, will be placing conduit under sidewalk and new lights behind the sidewalk. Will communicate with Property Owner regarding the project. Estimated cost is \$50,000.00. Town will contract directly. No grant received and construction planning is underway. April construction start.

Pedestrian Blinker signs: Franklin St needs survey and design. No action.

2021 F550 Replacement Truck Crew Cab: Ordered truck through PA CoStars program and expect delivery in March 2021. \$99,486.00 scheduled completion is May 10, 2021.

East Green Street Stop Sign Parking Modification: Will examine crosswalk location when Library Project is submitted. No action

Greg Curry (Southern States Green St) Drainage Issue: Gutter flow from East Green St flows out of gutter pan and into his drive entrance creating erosion issues. PW has met with contractor and discussed inlet. Request review by Board in April Meeting (attached to agenda)

Wiles Branch Stream Rehabilitation: Survey work has begun. No action

Linden Boulevard Culvert Replacement: RFP meeting with Frederick Seibert completed. Proposal has been received and is being reviewed. Proposal amount of \$31,600 was accepted and awarded.

Brookridge PS: Will send in 2017 pump in July for refurbishment and budgeted a spare for this station.

Booster Station Process Pipe Upgrade: Bid awarded and contract agreement has been executed.

Developments

Middletown County Park Improvements: Utility Construction, 12" waterline installed and being tested.

ADMAR Annexation: Met with Engineer to review the information provided and will schedule a meeting with all parties second week of April.

Chesterbrook IP's: Construction has begun, rough grading completed, sanitary sewer installation proceeding. Town will contracted with Martin to move the existing 6" connection on Broad St to the 8" PVC line completed. Winter Shutdown.

Middletown Municipal Hall: Questions and record drawings supplied to Engineer. No action

Horman Property Caroline's View: 9 Condo Units. Received guarantee for review. Met with contractor to discuss changed site conditions since approval.

Future Budget Considerations

W&S: Comprehensive sewer plan, West WWTP ENR plant replacement. Brookridge PS Headworks, motor op and scada control for cbps valve, SCADA for West Plant flow, upsize CB pumps, regional pressure monitors.

GF: Personnel organization and evaluation