



AGENDA

December 22, 2020
7:30 PM

LOCATION:

This meeting will be held **virtually**. Any member of the public interested in participating in the meeting should email the Township at tscheivert@upperuwchlan-pa.gov for a link and a password to join in the meeting. In order to minimize public exposure to COVID-19 and maintain social distancing, the meeting will be conducted via webinar. No attendance in-person will be allowed. If you require special accommodation, please call the Township office at 610-458-9400.

- I. Call to Order
- II. Approval of Minutes: November 24, 2020
- III. Approval of Payments: December 2020
- IV. Authority Administration Reports
 - A. Clean Water, Inc. Monthly Report
 - B. ARRO Consulting Monthly Report
 - C. Authority Administrator's Report
 - D. Public Works Department Report
- V. Approval of 2021 Operating and Capital Budgets
- VI. Open Session
- VII. Next Meeting Date: January 26, 2021 ~ 7:30 PM
- VIII. Adjournment



MEETING MINUTES
November 24, 2020
7:30 PM
DRAFT

In attendance via video teleconference: H. Harper, Chairman, B. Watts Vice-Chairman, D. Carlson, Member, L. Schack, Member, W. Quinn, Member, Tony Scheivert, Township Manager, G. Matthew Brown, P.E., DEE, Authority Administrator and David Schlott, Jr, P.E., ARRO Consulting, Inc.

Call to Order

H. Harper, Chairman, called the meeting to order at 7:39 PM.

Approval of Minutes

Draft minutes of the October 27, 2020 meeting were presented. D. Carlson made a motion to approve the minutes as submitted. L. Schack seconded. It was so moved.

Approval of Payments

Following a brief discussion and questions, a motion was made by D. Carlson to approve the payments for November 2020. B. Watts seconded. It was so moved. Following a brief discussion and questions D. Carlson moved to accept the balance sheet and the statement of revenue and expenses as submitted in good faith by the Township Treasurer. W. Quinn seconded. It was so moved.

Authority Administration Reports

M. Brown noted that all facilities were operating well and within permit.

M. Brown provided an update to the Board relative to the status of the Meadow Creek Sunoco pipeline and the provision of sanitary sewer to the residents.

M. Brown noted that advertisement of the Byers Road sewer line installation would be in December.

M. Brown noted he was contacted by an engineer regarding the installation of a transfer station and office on Fellowship Road in West Vincent Township. He noted the engineer was reluctant to reveal the name of his client. M. Brown directed the engineer to submit a letter to the Authority Board requesting capacity in the sewerage system and noted to the Board that the intermunicipal agreement with West Vincent Township would need to be amended. He noted that would be necessary regardless for additional disposal land previously identified.

M. Brown noted continued improvements regarding organic loading and the use of garbage disposals in the Lakeridge system following the public notification by the Authority. He said the levels are currently where they should be, but they will continue to be monitored closely. M. Brown noted the cost to provide service to the six residents of Walter Court was approximately \$250,000.

Following several additional questions and a brief discussion on the reports, D. Carlson moved to accept the Reports as submitted. B. Watts seconded. It was so moved.

Presentation of 2021 Draft Operating and Capital Budgets

M. Brown presented the draft budgets for consideration. A detailed discussion, questions and comments regarding the documents ensued. He asked that any further questions be directed to him prior to the December meeting. He noted he would be asking for approval of the budgets at the December meeting.

Open Session

No members of the public joined the virtual meeting.

Next Meeting Date: December 22, 2020 - 7:30 PM

H. Harper noted the date and time of the next meeting of the Authority. It was also noted it would likely be a virtual venue. M. Brown asked if the proximity to the Christmas holiday would create a problem for obtaining a quorum. The consensus was that it would not.

Adjournment

There being no further business to be brought before the Authority, L. Schack moved, seconded by D. Carlson to adjourn the meeting at 8:15 PM.

Respectfully submitted,

G. Matthew Brown, P.E., DEE
Authority Administrator

Upper Uwchlan Township Municipal Authority
Balance Sheet
As of November 30, 2020

ASSETS

	<u>Cash</u>	
06-100-000-010	General Checking - Fulton Bank	\$ 159,365.85
06-100-000-015	General Checking - Meridian Bank	194,860.17
06-100-000-020	General Checking - WIPP	101,912.56
06-106-000-002	Connection Fee Account	400,607.50
06-110-000-100	Fulton Bank Bond Proceeds - ICS	-
06-110-000-200	Fulton Bank Bond Proceeds - MMDA	5,358,888.37
	Total Cash	6,215,634.45
	 <u>PSDLAF Investments:</u>	
06-109-000-003	CD Program	-
06-109-000-004	Full Flex	188.21
	Total Investments	188.21
	 <u>Accounts Receivable</u>	
06-145-000-001	Usage Fees Receivable	236,887.38
06-145-000-002	Capital Assessment Receivable	
06-147-000-000	Misc Accounts Receivable	546.00
	Total Accounts Receivable	237,433.38
	 <u>Other Current Assets</u>	
06-130-000-001	Due from MA Capital Fund	-
06-130-000-002	Due from UUT General Fund	6,348.00
06-130-000-003	Due from UUT Capital Fund	-
06-130-000-004	Due from Solid Waste Fund	8,320.93
06-130-000-005	Due from Stormwater Fund	-
06-130-000-006	Due from Sewer Fund	-
06-152-000-000	Undeposited Funds	-
06-155-000-000	Pre-Paid Expenses	-
06-155-000-010	Pre-Paid Attorney Fees	-
	Total Other Current Assets	14,668.93
	 <u>Fixed Assets</u>	
06-162-000-001	Fixed Assets	1,806,280.72
06-162-000-050	Accumulated Depreciation	(503,893.76)
06-163-000-100	Phase II Construction Project (CIP)	851,304.48
	Total Fixed Assets	2,153,691.44
	 <u>Other Long Term Assets</u>	
06-162-000-002	Excess Treatment Capacity	1,649,293.24
	Total Other Long Term Assets	1,649,293.24
	 Total Assets	\$ 10,270,909.65

Upper Uwchlan Township Municipal Authority
Balance Sheet
As of November 30, 2020

LIABILITIES AND FUND BALANCE

<u>Current Liabilities</u>		
06-200-000-020	Accounts Payable	-
06-230-000-010	Due to UUT General Fund	60,286.44
06-230-000-020	Due to UUT Capital Fund	-
06-230-000-021	Due to MA Capital Fund	-
06-230-000-030	Due to Solid Waste Fund	18,644.10
06-230-000-040	Due to Water Resource Protection Fund	-
06-230-000-050	Due to Sewer Fund	-
06-230-000-060	Due to Developer's Escrow Fund	-
06-230-000-070	Due to UUT Sewer Fund - 2019 Bonds	5,205,556.07
06-240-000-000	Accrued Expenses	35,100.28
06-241-000-100	Retainage on Phase II Construction Project	22,861.00
06-245-000-000	Due to Customers	275.00
	Total Current Liabilities	5,342,722.89
<u>Equity</u>		
06-272-000-001	Opening Bal Equity	753,500.35
06-272-000-002	Retained Earnings	4,030,991.86
	Current Period Net Income (Loss)	143,694.55
	Total Equity	4,928,186.76
	Total Fund Balance	4,928,186.76
	Total Liabilities & Fund Balance	\$ 10,270,909.65

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended November 30, 2020

	Actual 2020 YTD	Budget 2020	% of Budget	Actual 2019 (Audited)	Budget 2019
REVENUES					
06-340-000-000 Interest Income	35,891.21	80,000.00	44.9%	143,373.00	15,000.00
06-365-000-000 Usage Fees Residential	2,082,198.22	2,293,851.00	90.8%	2,197,145.00	2,139,571.00
06-365-000-001 Usage Fees Commercial	94,903.20	-	#DIV/0!	121,234.00	100,000.00
06-365-000-010 Connection Fees	51,570.72	1,622,250.00	3.2%	25,875.00	2,543,000.00
06-365-000-015 Sewer - resident refunds	(88.00)	-	#DIV/0!	-	-
Grant revenue	11,471.00	-	#DIV/0!	-	-
06-370-000-000 Misc revenue	-	1,000.00	0.0%	-	1,000.00
06-393-000-100 Proceeds from Long Tern Debt	-	-	#DIV/0!	-	5,393,221.00
06-395-000-000 Refund of Prior Year Expenditures	-	-	#DIV/0!	-	-
06-395-000-100 Transfer from Sewer Fund	-	-	#DIV/0!	-	-
TOTAL REVENUES	\$ 2,275,946.35	\$ 3,997,101.00	56.9%	\$ 2,487,627.00	\$ 10,191,792.00
EXPENDITURES					
<i>General:</i>					
06-400-000-001 Administration	236,011.06	273,821.00	86.2%	270,080.00	241,246.00
06-400-000-002 Authority Administrator	116,098.09	120,000.00	96.7%	128,347.00	120,000.00
06-400-000-003 Professional Fees	-	12,000.00	0.0%	-	12,000.00
06-400-000-200 Admin Supplies	298.50	1,000.00	29.9%	150.00	1,000.00
06-400-000-341 Advertising	1,299.45	5,000.00	26.0%	150.00	5,000.00
06-400-000-352 Insurance - Liability	4,111.96	5,370.00	76.6%	3,575.00	5,545.00
06-400-000-355 Bank Fees	95.00	650.00	14.6%	319.00	650.00
06-402-000-450 Audit Fees	5,800.00	5,450.00	106.4%	5,550.00	5,450.00
06-404-000-000 Legal Fees	4,837.00	25,000.00	19.3%	16,663.00	20,800.00
06-406-000-100 Utility Billing Costs	12,607.53	12,000.00	0.0%	12,217.00	10,000.00
06-408-000-000 Engineering Fees	390,071.77	175,000.00	222.9%	207,307.00	150,000.00
06-408-000-100 Reimbursable Engineering Fees	-	-	#DIV/0!	-	-
	771,230.36	635,291.00	121.4%	644,358.00	571,691.00
<i>Building Expenses:</i>					
06-409-000-031 Lawn Care	-	5,000.00	0.0%	-	5,000.00
06-409-000-032 Telephone	14,061.22	15,000.00	93.7%	14,513.00	15,000.00
06-409-000-035 Insurance	12,335.84	11,078.00	111.4%	10,726.00	8,756.00
06-409-000-036 Electric	193,588.84	250,000.00	77.4%	233,860.00	250,000.00
06-409-000-037 Water	11,296.55	20,000.00	56.5%	19,150.00	25,000.00
06-409-000-052 Bldg Maint & Repair	-	10,000.00	0.0%	-	10,000.00
06-409-000-260 Building Supplies & Small Tools	-	15,000.00	0.0%	16,011.00	5,000.00
06-409-000-427 Waste Disposal	-	-	#DIV/0!	250.00	-
	231,282.45	326,078.00	70.9%	294,510.00	318,756.00
<i>Operations:</i>					
06-420-000-020 Supplies	21,922.77	50,000.00	43.8%	51,258.00	20,000.00
06-420-000-022 Chemicals	8,096.12	15,000.00	54.0%	9,539.00	15,000.00
06-420-000-023 Propane and Fuel Oil	2,991.41	5,000.00	59.8%	1,152.00	5,000.00
06-420-000-025 Maintenance & Repair	142,880.23	120,000.00	119.1%	110,708.00	120,000.00
06-420-000-030 Testing	30,159.50	35,000.00	86.2%	39,736.00	40,000.00
06-420-000-031 Pump & Haul	90,395.18	50,000.00	180.8%	70,632.00	50,000.00
06-420-000-032 Vegetation Management	5,895.00	20,000.00	29.5%	18,056.00	20,000.00
06-420-000-035 Permits	2,878.00	5,000.00	57.6%	2,616.00	5,000.00
06-420-000-042 Dues and Memberships	75.00	-	#DIV/0!	10.00	2,500.00
06-420-000-045 Contracted Services	155,073.16	150,000.00	103.4%	156,978.00	135,000.00
06-420-000-048 Misc expenses	289.00	10,000.00	2.9%	1,488.00	10,000.00
06-420-000-235 Vehicle Maintenance	-	2,000.00	0.0%	39.00	2,000.00
06-420-000-329 PA One Call	1,737.55	2,500.00	69.5%	1,254.00	2,500.00
	462,392.92	464,500.00	99.5%	463,466.00	427,000.00

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended November 30, 2020
(Continued)

	Actual 2020 YTD	Budget 2020	% of Budget	Actual 2019 <i>(Audited)</i>	Budget 2019
<u>Capital:</u>					
06-483-000-000 Capital Repair	94,658.53	50,000.00	189.3%	20,113.00	50,000.00
06-483-000-100 Capital Construction	-	1,500,000.00	0.0%	-	1,500,000.00
06-493-000-083 Depreciation	-	100,000.00	0.0%	101,079.00	50,000.00
	94,658.53	1,650,000.00	5.7%	121,192.00	1,600,000.00
Total Expenditures before Operations Agreement and Transfers	\$ 1,559,564.26	\$ 3,075,869.00	50.7%	\$ 1,523,526.00	\$ 2,917,447.00
Net Income before Operations Agreement and Transfers	\$ 716,382.09	\$ 921,232.00	77.8%	964,101.00	7,274,345.00
<u>Other:</u>					
06-471-000-010 Operations Agreement Fee to UUT-2014 Bonds	-	-	#DIV/0!	280,631.00	369,213.00
06-471-000-020 Operations Agreement Fee to UUT-2019 Bonds	237,407.79	237,494.00	100.0%	190,062.00	190,681.00
06-471-000-030 Operations Agreement Fee to UUT-2019A Bonds	335,279.75	335,300.00	100.0%	48,198.00	-
	572,687.54	572,794.00	100.0%	518,891.00	559,894.00
06-492-000-010 Transfer to Sewer Fund	-	-	#DIV/0!	-	-
06-492-000-020 Transfer to Water Resource Protection Fund	-	-	#DIV/0!	-	-
06-492-000-030 Transfer to UUT Capital Fund	-	-	#DIV/0!	-	-
	-	-	#DIV/0!	-	-
TOTAL EXPENDITURES	\$ 2,132,251.80	\$ 3,648,663.00	58.4%	\$ 2,042,417.00	\$ 3,477,341.00
OPERATING INCOME	\$ 143,694.55	\$ 348,438.00	41.2%	\$ 445,210.00	\$ 6,714,451.00

Upper Uwchlan Township Municipal Authority
Sewer Billings

Month to Month Change in Receivables and Collections

	November 2020	October 2020	Change
Beginning Receivable Balance	237,062.38	237,062.38	-
<u>Billings:</u>			
Calculated charges billed	2,262,303.73	2,260,902.07	1,401.66
Billing adjustments			-
Late payment penalty	83,653.02	83,653.02	-
Adjustments			-
	2,583,019.13	2,581,617.47	1,401.66
<u>Less:</u>			
Collections*	2,176,402.48	1,813,460.70	(362,941.78)
Receivable balance, month end	406,616.65	768,156.77	(361,540.12)

This report includes all sewer billings, not just delinquent accounts.

Upper Uwchlan Township Municipal Authority**Sewer Billings***Month to Month Change in Delinquent Accounts*

(accounts that have had a balance in excess of \$380 for 2 or more quarters)

	11/30/2019	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020
Number of delinquent accounts	180	291	99	160	138	194	162	145	186
Total delinquent balance	\$ 208,769	\$ 266,648	\$ 161,092	\$ 213,938	\$ 184,455	\$ 225,306	\$ 222,223	\$ 208,495	\$ 244,592

2020 Payment Schedule**Bills Mailed** **Payment Due**

First quarter	1/31/2020	3/2/2020
Second quarter	4/30/2020	5/31/2020
Third quarter	7/31/2020	8/31/2020
Fourth quarter	10/31/2020	11/30/2020

Clean Water, Inc.

Phone 610-593-5710
Fax 610-593-6311

170 Dallas St.
Box 475
Atglen, Pa. 19310

December 16, 2020

Upper Uwchlan Township Municipal Authority
140 Pottstown Pike
Chester Springs, PA 19425

RE: Report for the December meeting

Dear Authority,

Enclosed please find the monthly report that was submitted to the DEP on your behalf. The reports are for October, informational items are current.

Route 100

We continue to spray and drip as permitted. The lagoon level at the storage lagoon is near where we need to be at this time of year. McGovern hauled sludge. All of the big remote pump stations Byers, Windsor, Lakeridge and Marsh were cleaned by McGovern. The new transformer over at Upland for electric was installed by PECO.

Eaglepointe

Plant is running well. Flows have come down a bit since last month, probably due to recent new guidelines for restaurants. We did have Inks disposal out to assist with cleaning sand filter.

Marsh Harbour

Plant is running fine. Spray continues as permitted. We will be having Predoc out to replace a failing butterfly valve on the SBR. I have the new one in inventory already.

Lakeridge

Plant is running fine. There were no operational issues to report.

Saybrooke

Facility is running fine. While doing some research for Gwen, we found the three phone lines didn't have dial tones. Verizon came out and repaired. They plan to replace lines with fiber optic at some point. They presently are the old copper lines.

Greenridge

The lagoon aerators are back up and running. Predoc swapped out a bad pump in the influent pump station.

St. Andrews

Plant is running fine. There were no operational issues to report.

Additional info

Larry Hepner was out to do the soil samples for the 2021 crop report due in March. There was not one done for 2020 as a result of the COVID crisis. DEP granted a waiver.

That is all for now, please call with any questions. Have a safe and Happy Holiday Season!

Respectfully,

Brian Norris



350 West Main Street
Suite 200
Trappe, PA 19426
T 610.495.0303
F 610.495.5855

MEMORANDUM

TO: Upper Uwchlan Township Municipal Authority

FROM: G. Matthew Brown, P.E., DEE

RE: Project Status Report

PROJECT NO.: 17000.00

DATE: December 16, 2020

The following is the status of current wastewater projects within the Township:

Byers Station

Village at Byers Station (5C), Lot #1 Townhouse Parcel: The Village at Byers Station (Parcel 5C) pre-construction meeting was held on October 18, 2017. Construction is expected to start within three weeks. The Village at Byers Station (Parcel 5C) site contractor, by email dated November 14, 2017, started submitting its sanitary sewer shop drawing submittals. ARRO reviewed and commented on the submittals. Brubacher Excavating started sanitary sewer installation work on January 4, 2018. The Village of Byers Station (5C) sanitary sewer installation work continues through February 2018, approximately 40% of the sewer mains and laterals have been installed. Sanitary sewer installation work continues through March 2018. As of mid-April 2018, all sanitary sewer mains and laterals have been installed and air tested, while 75 percent of the sewer mains have also passed deflection testing. As of mid-May 2018, all sanitary sewer mains have passed pressure and deflection testing and only manhole vacuum testing remains to be done after base paving is completed. Vacuum testing of each sanitary sewer manhole on the site was completed on July 11, 2018. ARRO approved escrow release No. 1 in the amount of \$302,330.01 by letter dated September 6, 2018. Installation of the gravity house service line to each new townhouse began on September 13, 2018. ARRO reviewed the sanitary sewer videos submitted by Toll Brothers on October 19, 2018. The pipe is in good condition with only minor debris in a few runs that need to be flushed and cleaned. ARRO emailed Toll Brothers on November 2, 2018 with a list of the runs that needed cleaned.

Installation of the gravity house service line to each new townhouse will continue.

Village at Byers Station (5C), Lot #2 Commercial Parcel: ARRO reviewed the Village of Byers Station (5C) – Lot #2 Commercial Parcel's Sewage Facilities Planning Module (SFPMP) package. The Developer's engineer submitted a 9,025 gpd sanitary sewer capacity request at the Route 100 WWTP facility. ARRO reviewed the Amended Final PRD Plans submitted by Bohler Engineering and prepared a February 27, 2018 letter to the Township with comments to the Plans. Sewage Facilities Planning Modules were sent to PADEP on April 18, 2018. ARRO reviewed Amended Final PRD Plans, last revised May 7, 2018, and submitted a May 30, 2018 letter to the Township containing comments to the Plans. Additional revised Plans were submitted on July 12, 2018 and are currently under review. The PADEP SFPMP approval letter, dated June 27, 2018, was received by the Township. Vacuum testing of each sanitary sewer manhole on the site was completed on July 11, 2018. By email dated July 4, 2018, ARRO requested of Toll Brothers that they submit an agreement document between Toll and BPG Partners, Ltd. stipulating that after BPG has the binder course

paving completed each manhole will again be vacuum tested and BPG will repair any manhole that fails its vacuum re-test. ARRO submitted a July 19, 2018 sanitary sewer comments letter to the Township regarding the additional revised Plans submitted by Bohler Engineering on July 12, 2018. Toll Brothers submitted a July 30, 2018 letter acknowledging it will be responsible to ensure that the sanitary manholes in 5C Commercial will be tested after construction of the commercial portion of the subdivision. Toll requests the Authority require the testing to be a component of the financial security agreement as it relates to the commercial site work. ARRO prepared an August 31, 2018 letter to the Township with comments to the latest Final PRD Plans, last revised August 30, 2018. Eight buildings with various uses are proposed with a sewer capacity of 9,025 gallons per day. On March 18, 2019, ARRO received the draft of a revised land development drawing from Bohler Engineering presenting a new layout arrangement consisting of 67 townhome units, a coffee shop, retail store and a daycare center, and also a revised sanitary sewer capacity request of 15,195 gpd. On July 9, 2019, ARRO received from Bohler Engineering Revision 1 to the Lot #2 land development drawings. The drawings now show 55 townhome units, a 1-½ story retail building and a 2-story mixed-use commercial building. There is a revised sanitary sewer capacity request of 12,872 gpd. ARRO is reviewing the sanitary sewer portion of the drawings. ARRO prepared a July 24, 2019 comments letter to the Revision 1 land development drawings. On August 20, 2019, ARRO received revised Bohler Engineering Lot #2 land development drawings, Revision 2, dated August 16, 2019. ARRO is reviewing the sanitary sewer portion of the drawings. ARRO prepared a September 3, 2019 comments letter to the sanitary sewer portion of Bohler Engineering Lot #2 land development drawings, Revision 2, dated August 16, 2019. At the October 14, 2019 UUT Board of Supervisors meeting it was approved to send the revised Lot #2 Commercial Parcel SPFM package to PADEP. ARRO is assisting Bohler Engineering in preparing responses to comments contained in PADEP's October 31, 2019 review letter regarding the revised Lot #2 Commercial Parcel SPFM package. The Authority Administrator sent a December 9, 2019 letter to PADEP with responses to comments contained in the October 31, 2019 review letter regarding the revised Lot #2 Commercial Parcel SPFM package. Bohler Engineering reported to PADEP on January 3, 2020 that the Authority Administrator pronounced Upper Uwchlan will own the sanitary sewer main that will run within a dedicated easement through Lot 2 and connect to the sewer in Station Boulevard. A May 22, 2020 letter to Toll Brothers was prepared under Authority letterhead stating 12,872 gpd of capacity must be purchased by Toll from the Authority for the Lot #2 residential and commercial portions of the project. ARRO received revised land development plans, dated October 8, 2020. ARRO reviewed the plans and had no additional comments to the sanitary sewer portions of the plans. ARRO reviewed the sanitary sewer escrow submitted on October 12, 2020 by Toll Brothers. ARRO prepared an October 13, 2020 letter to the Township stating it had no comments to the \$147,396.00 sanitary sewer escrow estimate. The project's preconstruction meeting was held on October 21, 2020. Work to clear and rough grade the site is expected to start at the beginning of November 2020. Sanitary sewer installation is not expected to start until February 2021. Toll Brothers submitted the project's site sanitary sewer construction bond to the Township.

ARRO reviewed and commented on sanitary sewer shop drawings submitted by the site contractor, Lyons & Hohl.

Toll Brothers' 55 townhomes (Lot 2A, Residential), rated at 185 gpd each, has a total sewage flow of 10,175 gpd. Toll submitted certification to ARRO documenting the repurchase of 6,560 gpd Toll originally sold to Byers Retail Acquisition Limited Partnership for the previously proposed commercial improvements of the parcel. Toll will purchase the remaining 3,615 gpd it needs at \$70 per gallon for treatment and disposal. The total amount due from Toll to Upper Uwchlan Township Municipal Authority being \$253,050 as a single, upfront payment to the Authority.

Byers Station (6C), Vantage Point–Chester Springs: The Developer's engineer submitted a request for 43 EDUs (9,500 gpd) of sanitary sewer capacity at the Route 100 WWTP facility. The Authority Administrator sent a February 20, 2018 letter to D. L. Howell stating there is sufficient capacity at the Route 100 WWTP facility for the proposed 9500 gpd from the project. ARRO

reviewed the project's Sewage Facilities Planning Module (SFPM). The module shows a request for 45 EDUs (10,000 gpd) of sanitary sewer capacity. SFPM Component 3 Section G and J were signed. The Pennsylvania Historical and Museum Commission clearance letter and Aqua water service letter have been received for the Sewage Facilities Planning Module (SFPM). On April 18, 2018, the Township forwarded SFPM Components 4B and 4C to the Chester County Planning Commission and Health Department. ARRO reviewed Land Development Plans, plotted April 6, 2018, and submitted an April 30, 2018 letter to the Township containing comments to the Plans. The SFPM is complete and a resolution to accept the document was placed on the Board of Supervisors' August 20, 2018 agenda. The SFPM application package was submitted to PADEP. ARRO prepared a September 6, 2018 sanitary sewer review letter to the latest Land Development Plans submitted by D.L. Howell, last revised August 13, 2018. ARRO received on December 5, 2018 the latest Land Development Plans, last revised November 30. ARRO will submit a sanitary sewer review letter the week of December 10. ARRO prepared and sent to the Township a December 14, 2018 sanitary sewer review letter to the December 5, 2018 Land Development Plans. ARRO received and reviewed the sanitary sewer portion of land development plans Revision No. 3, dated June 21, 2019. The plans show a dedicated sanitary sewer manhole in Byers Road to be installed when the Byers Road sewer extension project is constructed. ARRO prepared and sent a July 5, 2019 review comments letter to the Township. PADEP issued a July 23, 2019 with three (3) items missing from the submitted SFPM. The Authority sent PADEP an August 23, 2019 letter in response to PADEP's July 23, 2019 letter containing three comments to the project's SFPM. The UUT Board of Supervisors at its September 16, 2019 meeting executed the amended Tentative Approval Decision to permit Parcel 6C to be developed as a senior living facility. PADEP issued a November 7, 2019 letter approving the Official Plan revision for the construction of the 101-unit retirement living apartment unit at 10,100 gpd sewage volume. ARRO reviewed the latest revision to the Vantage Point Retirement Living land development plans, dated December 6, 2019. ARRO issued a January 6, 2020 review comments letter to the Township. ARRO is reviewing the latest revision to the Vantage Point Retirement Living land development plans, dated February 3, 2020. ARRO prepared a March 6, 2020 review comments letter regarding the latest revision to the Vantage Point Retirement Living land development plans, dated February 3, 2020.

Nothing new to report.

Eagle Hunt

Nothing new to report.

Eaglepointe

Wastewater Treatment Plant: ARRO is working on a plan to convert the Eaglepointe WWTP into a pretreatment facility before sending the effluent on to the Route 100 Regional WWTP for final treatment. It is proposed to design and construct an effluent pump station for a 2-inch force main. ARRO has laid out a preliminary force main route from the Eaglepointe WWTP to the proposed Byers Road sanitary sewer extension across Route 100.

Nothing new to report.

Liberty Union Bar & Grille: Liberty Union effluent was tested and BOD, fat & oil and nitrogen results were found to be higher than the Non-Residential Waste Discharge (NRWD) resolution limits. A November 13, 2017 letter was sent to Liberty Union advising them of their discharge overages and the need to meet with the Authority Administrator, Clean Water and ARRO to discuss how Liberty Union could lower the three elevated discharges. The meeting will take place on November 30, 2017. The Authority Administrator, Clean Water and ARRO met with Liberty Union on November 30, 2017 to discuss how to lower the three elevated discharges. Liberty Union stated they will institute existing grease trap cleaning reforms and update their dish cleaning policy. Clean Water will take additional samples periodically to check the reforms. Clean Water conducted a grab sampling of

Liberty Union discharges on January 31, 2018. Sampling test results for Phosphorus, BOD and Oil/Grease continue to be above the Authority's NRWD resolution limits. ARRO had a telephone discussion with Liberty Union on February 23, 2018 about high sampling results. Liberty Union requested a third sampling as a composite sample like the first sampling. The Authority Administrator authorized Clean Water to set up the new composite sampling, which was done over February 19 and 20. A lab error occurred with the sample collected on March 29, 2018. The lab scheduled another sampler collection for April 5 into April 6, 2018. ARRO has not received the latest sampling test results. ARRO transmitted the April 6, 2018 test results to Liberty Union. ARRO is preparing comments to Liberty Union questions on the test results. ARRO prepared comments to Liberty Union questions on the test results. Ten random grab samples for analysis will be taken from the Liberty Union pump station wetwell. Two grab samples have been analyzed and BOD exceeds 1000 mg/L in both samples. The results of two grab samples (collected September 25 and 27) were received and the BOD is below 500 mg/L in both. The results of seven grab samples collected between September 5 and October 10, 2018 all had BOD above the NRWD maximum 250 mg/L threshold, the highest result was 1,700 mg/L. The Authority Administrator and ARRO conducted a meeting with Liberty Union and Epicurean Garage to discuss grease traps and grease entering the sanitary sewer system.

ARRO is in the process of updating the Non-Residential Waste Discharge resolution.

Dilibero - Go-Wireless, Eagle Car Wash and Enterprise Rent-A-Car Sanitary Sewer Connection: ARRO is conducting an evaluation of the wastewater treatment capacity and feasibility for connecting these three businesses to the Eaglepointe WWTP sanitary sewer system. ARRO completed the evaluation, including a piping layout and cost estimate, and it is now under internal review. On April 20, 2018 ARRO transmitted its sanitary sewer evaluation to Dilibero. ARRO has been responding to sanitary sewer related questions from Dilibero's sewer contractor. On March 7, 2019 ARRO transmitted the Authority's Eaglepointe sanitary sewer and easement drawings to Dilibero's engineer for use in preparing their sanitary sewer extension plans. Eagle Service Center is unwilling to consent to a sanitary sewer easement across its property. ARRO has prepared an alternative to an entirely gravity sewer design with a preliminary low-pressure force main design that crosses through the CarSense property in order to avoid the Eagle Service Center property. ARRO has communicated with the property owner's counsel and is preparing alternative sanitary sewer connection sketch designs for consideration. ARRO prepared an alternative sanitary sewer connection sketch design and on October 2, 2020 transmitted the sketch to the property owner and its counsel for consideration.

Nothing new to report.

Ewing Tract

ARRO received from Toll Brothers, on December 5, 2018, Phase 2 Ewing Tract – West Vincent documents concerning (1) Maintenance Service Agreement for Carriage Home South, (2) Grant of Sanitary Sewer Easements and Dedication of Facilities for Butternut Lane and Rainer Road, (3) Deed of Dedication for Future Spray Field #4, (4) Grant of Sanitary Sewer Easements and Dedication of Facilities for Lots 327 and 343, and (5) Grant of Access Easements for Lot 335. ARRO is in the process of reviewing the documents. ARRO completed its review of the Toll Brothers December 5, 2018, Phase 2 Ewing Tract – West Vincent documents concerning (1) Maintenance Service Agreement for Carriage Home South, (2) Grant of Sanitary Sewer Easements and Dedication of Facilities for Butternut Lane and Rainer Road, (3) Deed of Dedication for Future Spray Field #4, (4) Grant of Sanitary Sewer Easements and Dedication of Facilities for Lots 327 and 343, and (5) Grant of Access Easements for Lot 335. ARRO emailed documents comments to Riley Riper, dated December 21, 2018 and December 31, 2018. Subsequently, ARRO received from Riley Riper a January 9, 2019 email containing documents with recommended adjustments. On February 25, 2019 ARRO received from Taylor Wiseman Taylor (TWT) revised sanitary sewer record drawings for the Ewing Tract – West Vincent Carriage Home North subdivision. ARRO approved the Ewing Tract – West Vincent Carriage

Home North subdivision sanitary sewer record drawings on May 14, 2019 and ARRO subsequently received final drawings and electronic files from TWT. ARRO reviewed TWT sanitary sewer record drawings for the Ewing Tract – West Vincent Single Family East subdivision and transmitted comments to TWT on December 11, 2019. Repair of a Ewing Tract – West Vincent gravity sewer pipe defect found during the review of the contractor's televising will be completed sometime in 2020 when statewide construction is allowed to resume. By email dated June 9, 2020 Lennar informed ARRO that the repair of a Ewing Tract – West Vincent gravity sewer pipe defect has been delayed as they need to find a new subcontractor to complete the work. Repair of an Ewing Tract – West Vincent gravity sewer pipe defect is scheduled to be completed on Wednesday, July 29, 2020. The Ewing Tract – West Vincent gravity sewer pipe defect was repaired on July 29, 2020.

Nothing new to report.

Fetter Farm Tract (Preserve at Marsh Creek)

ARRO received a request from a developer engineer for information on available treatment capacity to serve the Tract and met with the Township Manager and developer engineer on September 18, 2012, to discuss treatment capacity and conveyance to the Route 100 WWTP. On August 5, 2014 a meeting with held at the Township Building with The McKee Group to discuss the active adult community proposed by the Developer for the property. A subsequent meeting was held at the Township Building on August 14, 2014 with the Township, Developer and Authority Administrator to discuss sewage flows and disposal. ARRO reviewed a Conditional Use Plan for Fetter's Property prepared for McKee-Milford Associates, LP, dated October 12, 2016. ARRO prepared a review letter to the Township, dated November 8, 2016. The Developer is proposing 375 Housing Units, which will produce 62,675 gallons per day of sanitary sewer flow. The Developer is proposing participation in upgrades to the Route 100 Regional WWTP facility that will trigger the Phase 3 expansion of the WWTP. A review of the capacity within the downstream collection and conveyance system is required to determine the extent of improvements necessary to accept the proposed sewage flow. Preliminary Subdivision/Land Development Plans were submitted to ARRO and are currently under review. The Plans call for 375 mixed Single Family, Twin and Triple units and a Community Center to be built in the subdivision. The subdivision will connect to the Reserve at Eagle by way of Prescott Drive and to the Reserve at Chester Springs by way of Radek Court. The sanitary sewer disposal requirements are calculated to be 62,675 gpd. On-site drip disposal capacity is calculated to be 42,643 gpd, and the off-site sewage disposal requirement is 20,032 gpd. The combination gravity and low-pressure sanitary sewer systems will be directed to the Reserve at Eagle Pump Station No. 1 off Prescott Drive. Preliminary Subdivision/Land Development Plans were submitted and reviewed by ARRO. ARRO comments were submitted in an April 10, 2017 letter to the Township. ARRO is in the process of reviewing the June 15, 2017 resubmission of the Preliminary Subdivision/Land Development Application. ARRO reviewed the June 15, 2017 resubmission of the Preliminary Subdivision/Land Development Plan and submitted comments to the plan in a July 10, 2017 letter to the Township. ARRO also reviewed the subdivision's low-pressure sewer system design calculations and submitted comments to the design in a July 12, 2017 letter to the Township. ARRO reviewed an August 1, 2017 revision to the low-pressure sewer system design calculations and drawings and submitted an August 16, 2017 letter to the Township with comments to the revision materials. ARRO has started an evaluation of the Reserve at Eagle Pump Station No. 1 to ascertain its capability to accept the Fetter Tract design sanitary sewer disposal requirements. ARRO received revised Preliminary Subdivision/Land Development Plans on September 14, 2017. ARRO reviewed the Plans and sent an October 3, 2017 review comments letter to the Township. ARRO continues an evaluation of the Reserve at Eagle Pump Station No. 1 to ascertain its capability to accept the Fetter Tract design sanitary sewer disposal requirements. The evaluation is substantially complete with the exception of emergency generator assessment. ARRO continues an evaluation of Upland Farms drip disposal to ascertain the facility's capability to store and dispose the Fetter Tract effluent. ARRO reviewed the Sewage Facilities Planning Module (SFPM) and is working on the sanitary sewer review. The Authority Administrator signed the SFPM Component 3 Sections G and J. The Board of Supervisors approved the SFPM resolution at the April 16, 2018 meeting. The

developer's engineer stated in an April 17 email to the Authority Administrator that the SFMP is close to being submitted to PADEP for review. The Sewage Facilities Planning Module was sent to PADEP on April 18, 2018. Ebert Engineering requested Authority assistance in preparation of a response to comments received from PADEP on the Sewage Facilities Planning Module. ARRO is working on a response. ARRO assisted Ebert Engineering in preparation of letter responses to comments received from PADEP to the Sewage Facilities Planning Module. ARRO transmitted its responses to Ebert Engineering on November 1, 2018. ARRO in association with Ebert Engineering prepared a December 13, 2018 letter to PADEP in response to PADEP Sewage Facilities Planning Module comments. ARRO reviewed the Water Quality Management Part II Permit application, dated July 23, 2019 as submitted by Ebert Engineering on July 26, 2019, along with the supporting design reports for the low-pressure sewer system and the upgrades to the Reserve at Eagle Pump Station No.1. ARRO sent comments to Ebert Engineering by email dated August 13, 2019. Ebert subsequently revised its documents based on ARRO comments and resubmitted the documents. ARRO is currently reviewing the revised documents. ARRO reviewed the latest revised Water Quality Management Part II Permit application package received August 21, 2019 from Ebert Engineering. ARRO has no further comments to Ebert's permit application, only ARRO comments remain to be addressed on E. B. Walsh's land development drawings regarding the lining of low-pressure force main discharge manholes. Ebert Engineering sent to PADEP the WQM Part II Permit Application package by transmittal letter dated October 3, 2019. On October 15, 2019 ARRO received from E. B. Walsh the latest Subdivision and Land Development Plan drawings entitled "The Preserve at Marsh Creek" along with a response letter to previous plan review comments. ARRO will review and comment on the sanitary sewer portion of the latest drawings. ARRO reviewed and on November 1, 2019 issued comments to the Phases 1 and 1A sanitary sewer escrow calculations as submitted by the McKee Group. McKee Group issued revised escrow calculations on November 15, 2019 in response to ARRO comments. The Preserve at Marsh Creek preconstruction meeting was held on December 4, 2019. Site survey and erosion control measures work will be starting within two weeks. ARRO has requested a schedule of sanitary sewer installation work from the site contractor. PADEP issued the WQM permit, dated November 25, 2019, for the low-pressure sanitary sewer with individual grinder pumps and for the upgrade to the Reserve at Eagle Pump Station No. 1 required as part of the project. McKee Group held a February 5, 2020 meeting with its engineers and contractor. Discussions included forthcoming designs for the piping between the Preserve drip fields and Upland Farms pump station, revisions to gravity sanitary sewer around Reserve at Eagle PS #1, and the Route 100 Regional WWTP Phase III expansion. McKee expects submission of the Phase III expansion design around May 2020, not March 2020 as stipulated in the Agreement for Expansion of the Route 100 Central WWTP. ARRO had a February 12, 2020 meeting with Keystone Engineering at the Reserve at Eagle PS #1 to discuss electrical revisions to the station in support of the upgrade necessary to carry McKee flows. ARRO continues reviewing the project's sanitary sewer materials shop drawings. Site contractor construction schedule shows start of sanitary sewer installation as the last week of February 2020. Site contractor started sanitary sewer installation on March 4, 2020. Site contractor suspended sanitary sewer installation work due to coronavirus restrictions. On May 1, 2020 Ebert Engineering submitted initial plans for the Reserve at Eagle Pump Station Upgrade. ARRO transmitted a May 12, 2020 email to Ebert Engineering with review comments to Reserve at Eagle Pump Station Upgrade plans. ARRO received an email from Ebert Engineering that the initial submission of the Upland Farms drip pump station upgrade and Fetters site drip field design would be submitted during the week of May 25. On June 12, 2020 ARRO received from Ebert Engineering the initial submission of the Fetters Tract Drip Disposal System Part II WQM Permit Application, Design Engineer's Report and Drip Disposal System design drawings issued for WQM review. ARRO is in the process of reviewing the documents. ARRO reviewed E. B. Walsh Utility Coordination drawings and Ebert Engineering revised low pressure sewer system drawings and issued June 17, 2020 comments to each drawing set. On June 25, 2020 Ebert Engineering submitted to ARRO for review and comments a revised Fetter Drip Disposal System design that removed the Drip Filter Building, along with a revised WQM Part 2 Permit Application and Design Engineers Report. ARRO transmitted comments on the documents to Ebert Engineering by email dated July 2, 2020. On July 15, 2020 E. B. Walsh submitted a revised Utility Coordination plan set to address previous ARRO

comments. The plan set was primarily developed to coordinate information contained on various plans prepared by Ebert Engineering and the E. B. Walsh offices. ARRO is in the process of reviewing the revised plan set. On July 21, 2020 Ebert Engineering submitted revised plans for the Reserve at Eagle Pump Station Upgrade. ARRO is in the process of reviewing the revised plans. Gravity sanitary sewer installation continues, while low pressure sewer system shop drawings were submitted and reviewed in early August 2020. On July 24, 2020 Ebert Engineering submitted to ARRO for review and comments a revised Fetter Drip Disposal System design along with a revised WQM Part 2 Permit Application and Design Engineers Report. ARRO is in the process of reviewing the revised documents. On July 21, 2020 Ebert Engineering submitted revised plans for the Reserve at Eagle Pump Station Upgrade. ARRO reviewed the revised plans. ARRO transmitted an August 19, 2020 email to Ebert Engineering stating it had no further comments to the plans. ARRO transmitted a September 4, 2020 email to Ebert Engineering with review comments to the revised Fetter Drip Disposal System design along with the revised WQM Part 2 Permit Application and Design Engineers Report. ARRO submitted September 2, 2020 comments to the Ebert Engineering drawings of the rerouted Reserve at Eagle PS #1 force main around existing Manhole #500 necessary to facilitate the installation of new gravity sewer between the manhole and the pump station wetwell. The drawings were subsequently revised and approved by ARRO. Sanitary sewer and force main work at the Reserve at Eagle PS #1 was completed and tested. All sanitary sewer was completed and tested between the Reserve at Eagle PS #1 and the Toll/McKee model homes. House service lines at the four McKee model homes and the two Toll Brothers model homes were completed and tested.

Work continues on installation and testing of sanitary sewer and low-pressure sewer system mains.

ARRO reviewed the revised Fetter Drip Disposal WQM application, design engineer's report and drawings submitted by Ebert Engineering on November 8, 2020 and has no further comments to the documents.

Greenridge

Open Community Adaptive Reuse Development (OCARD): On August 1, 2017 a meeting with the Developer was held at the Township to discuss the sanitary sewer options for the redevelopment of the former Upattina School parcel (Open Community Adaptive Reuse Development, a.k.a OCARD). ARRO is reviewing a revised Section H of the Sewage Facilities Planning Module submitted by the Developer on August 8, 2017. ARRO reviewed a revised Sewage Facilities Planning Module Section H submitted by the Open Community Developer. The Sewage Facilities Planning Module (SFPM) now includes the revised Section H, and the Component 4 submissions have been forwarded to Chester County's Planning Commission and Heath Department. ARRO conducted a site visit to a property which utilizes an Ecoflow unit similar to that proposed for on-site wastewater pre-treatment at the Open Community project. Chester County Planning Commission and Heath Department returned the Open Community Components 4A, 4B and 4C. Component 3 Sections G and J were completed. The Township authorized sending the SFPM package to PADEP for review. The Authority Administrator prepared a March 14, 2018 letter to Warwick Land Development stating the Authority continues to lack sufficient information from Warwick before the Authority could agree to operate the pretreatment facility proposed for the Open Community Adaptive Reuse Development. On behalf of the Open Community Developer, on November 13, 2018 Boucher & James submitted sewer connection plans for review. ARRO is in the process of reviewing the plans and will issue comments in a separate letter. ARRO completed its review of the November 13, 2018 Boucher & James sewer connection plans and issued a November 28, 2018 comments letter to the Township. Subsequently, Boucher & James submitted to ARRO a response email on December 3, 2018 along with revised plans, last dated December 3, 2018. ARRO is reviewing the email responses and the latest revised plans. On February 25, 2019 PADEP released the WQM permit for the Open Community Adaptive Reuse Project. On March 12, 2019 the Township received a sewer permit application from the Developer. ARRO is setting up a pre-construction meeting for the Open Community Adaptive Reuse Project. On April 25, 2019 ARRO conducted a pre-construction meeting

for the Open Community project. The Developer will attempt to use the existing lateral connection installed during the original Greenridge sanitary sewer installation work done in 2005. The Developer excavated a test hole at the existing Greenridge subdivision lateral connection. ARRO was informed by the Developer that elevations were taken and submitted to Boucher & James. The lateral will be used. New plans for connection to the existing lateral will be prepared and submitted to the Authority and ARRO for review. ARRO sent a September 17, 2019 email to the Developer requesting a project update for the sanitary sewer portion of the Open Community Adaptive Reuse Project. On October 15, 2019 ARRO received an email from the Developer with a project update stating bids have been awarded for the sanitary sewer portion of the Open Community Adaptive Reuse Project. Developer also indicated construction is tentatively scheduled for mid-December 2019. ARRO reviewed the latest sanitary sewer connection plan drawings, dated December 19, 2019. ARRO also reviewed some project sanitary sewer shop drawings. On January 16, 2020 ARRO submitted to the Developer comments to both items. ARRO is reviewing the latest revision to the OCARD land development plans, dated February 14, 2020, and additional shop drawings. ARRO completed reviewing the latest revision to the OCARD land development plans, dated February 14, 2020. ARRO sent an April 2, 2020 email to the Developer's engineer stating it had no further comments to the plans. By letter dated June 15, 2020 the Developer's engineer submitted final sanitary sewer system drawings. Construction of the onsite sewer piping started the week of June 15, 2020. ARRO prepared a June 19, 2020 letter accepting the final sanitary sewer design. The developer sent a July 21, 2020 email to ARRO stating they have submitted building construction permit applications for Greenridge Hall units and are awaiting permit issuance before continuing sanitary sewer installation. The email also said sanitary tanks and treatment units have been ordered. On August 19, 2020 ARRO requested the developer submit an updated project construction schedule. On September 16, 2020 ARRO again requested the developer submit an updated project construction schedule. On September 16, 2020 ARRO again requested the developer submit an updated project construction schedule.

On September 17, 2020 ARRO received an email from the developer's counsel in reply to the ARRO request for a construction schedule. Counsel wrote it would discuss the matter with the developer and one would return a response, which has yet to be received as of December 16, 2020.

Meadow Creek Sewer Extension to Greenridge WWTP: At the request of the Authority Administrator ARRO prepared March 16, 2020 sketch plans and opinions of probable construction costs to extend Meadow Creek sanitary sewer to the Greenridge WWTP. ARRO is studying the retirement of the Meadow Creek WWTP by starting a study to determine what upgrades are needed at Greenridge WWTP in order to accept flow from Meadow Creek. ARRO also initiated a preliminary design for a pump station and force main system to convey Meadow Creek flow to Greenridge WWTP. ARRO continues the plans for decommissioning the Meadow Creek WWTP, continues preliminary pump station and force main design to convey sewage to the Greenridge WWTP, and continues the study of the Greenridge WWTP to determine what upgrades are needed to accept Meadow Creek flow.

ARRO continues the plans for decommissioning the Meadow Creek WWTP, continues preliminary pump station and force main design to convey sewage to the Greenridge WWTP, and continues the study of the Greenridge WWTP to determine what upgrades are needed to accept Meadow Creek flow.

Jankowski (Chester Springs Crossing)

ARRO issued a May 5, 2017 review letter to the Township with comments to the September 13, 2016 Conditional Use Plan for the Jankowski Tract. On February 2, 2018, the Developer's engineer submitted for review subdivision plans of a 55 Single Family Housing unit community. ARRO is working on a review of the sanitary sewer portion of the subdivision plans. ARRO completed its review of the Preliminary/Final Subdivision-Land Development Plan submitted by E. B. Walsh and prepared a February 26, 2018 letter to the Township with comments to the Plans. ARRO responded to Toll Brothers regarding the Windsor Ridge Pump Station capacity to receive Jankowski estimated sanitary

flow. ARRO reviewed the Preliminary/Final Subdivision-Land Development Plan, last revised May 18, 2018, and prepared June 11, 2018 comments to the Township. Sewage Facilities Planning Module Components 4A, 4B and 4C were received. Presently the project is in the 30-day Public Notice periods, which upon completion the Township can submit the components to PADEP. The Authority Administrator sent an August 14, 2018 letter to Chester County Health Department (CCHD) regarding CCHD's Component 4C comment about malfunctions along Surrey Lane, Font Road and Carriage Drive. The Administrator stated the Authority will be evaluating future extensions in these areas. Subsequently, ARRO conducted a small conceptual planning study to sewer these areas. ARRO presented three sewer extension options and cost opinions to the Authority Administrator for review and comment. The first gravity and low-pressure sewer concept sends all flow through the Jankowski tract, the second all-gravity sewer concept sends some flow through Jankowski and the remainder to Reserve at Eagle, while the third all gravity sewer concept sends all flow to the Reserve at Eagle. ARRO is reviewing the latest Preliminary/Final Subdivision Land Development Plan transmitted by E.B. Walsh letter, dated August 10, 2018. SFPM Components 4A, 4B and 4C were received, but the bog turtle clearance letter from PA Fish & Wildlife is still outstanding. The UUT Board of Supervisors authorized the resolution needed for the Sewage Facilities Planning Module at their October 15, 2018 meeting but are holding it until the clearance letter is issued. ARRO prepared an August 30, 2018 sanitary sewer review letter to the latest Preliminary/Final Subdivision-Land Development Plan transmitted by E.B. Walsh letter, dated August 10, 2018. On February 4, 2019, ARRO received the preliminary sanitary sewer escrow calculations from Toll Brothers. ARRO reviewed the calculations and returned comments to Toll. Revised calculations were received and after review were accepted by ARRO. ARRO prepared and sent a letter to the Township recommending acceptance of the sanitary escrow in the amount of \$425,955.60. On February 27, 2019 ARRO received from E. B. Walsh updated Preliminary/Final Subdivision Land Development Plans. ARRO reviewed the sanitary sewer portion of the drawings and transmitted comments to E. B. Walsh by letter dated March 11, 2019. On March 18, 2019 ARRO received from E. B. Walsh updated Preliminary/Final Subdivision Land Development Plans. ARRO reviewed the sanitary sewer portion of the drawings and transmitted comments to E. B. Walsh by email dated April 1, 2019. On April 2, 2019 ARRO received from Toll Brothers a revised sanitary sewer escrow calculation based on the latest E. B. Walsh drawings. ARRO prepared an April 2 letter to the Township recommending accepting the revised escrow amount. ARRO received a May 22, 2019 email from Toll Brothers stating Jankowski construction might start in July 2019. A pre-construction meeting for the project has been scheduled for July 24, 2019. ARRO attended the July 24, 2019 pre-construction meeting and the August 21, 2019 PennDOT HOP site meeting. Sanitary sewer installation for the project is set to begin on August 26, 2019 starting offsite in Windsor Ridge's Garrison Drive. Sanitary sewer installation for the project began on August 26, 2019 starting offsite in Windsor Ridge's Garrison Drive. Garrison Drive sanitary sewer installation is almost complete and the contractor intends to continue its work in the Jankowski site. The boring for the sanitary sewer casing under Route 100 linking Jankowski and Windsor Ridge will take place sometime in October 2019. The sanitary sewer casing boring under Route 100 linking Jankowski and Windsor Ridge is scheduled for the week of October 28, 2019. The boring and casing work under Route 100 was completed the week of November 18, 2019. In order to correct a sewer misalignment through the casing Toll Brothers agreed to install two new manholes, one upstream and one downstream of the casing, and also relocate a recently installed manhole to achieve minimum sewer slope required by PADEP. Sanitary sewer installation continues within the site. Over the weeks of January 6 through January 13, 2020 two new manholes, one upstream and one downstream of the casing, were installed and one existing manhole in Garrison Drive was relocated to achieve minimum sewer slope required by PADEP. Sanitary sewer installation still continues within the site. Testing of sanitary sewer through Milford Road Extension, across Route 100 and in Windsor Ridge's Garrison Drive started the last week of January 2020 and continued into early February; all testing was positive. Installation of the gravity house service line to each new home has resumed the week of May 18, 2020. Testing of the onsite

sanitary sewer continued the week of June 15, 2020. Testing of all onsite sanitary sewer was completed. Sanitary sewer televising was completed and submitted to ARRO for review and comment.

ARRO reviewed the sanitary sewer televising submitted by the contractor and is preparing comments.

Installation of the gravity house service line to each new home continues.

Lakeridge

ARRO is preparing an evaluation of the wastewater plant and sanitary sewer to assess the feasibility of connecting six (6) homes along Moore Road to the sanitary sewer system. ARRO completed its evaluation of the wastewater plant and sanitary sewer. The wastewater plant has sufficient capacity, but an extension to the existing Moore Road sanitary sewer will need to be constructed.

Nothing new to report.

Marsh Harbour

Nothing new to report.

Reserve at Eagle

Nothing new to report.

Route 100 WWTP

ARRO conducted a study to search for new disposal sites within and near the Township. Mapping was developed for the study and ARRO conducted a preliminary assessment of a potential stream discharge for the WWTP. ARRO presented its findings regarding potential disposal sites at the December 2016 Board meeting. ARRO has prepared a draft of the Route 100 Regional WWTP disposal fields study for the potential to rerate the fields for additional capacity. ARRO engaged a sub-consultant to review the existing disposal field design records, the Route 100 WWTP SBR discharge limits and ARRO study findings. ARRO received the sub-consultant's report and is reviewing the findings. ARRO prepared a revised Route 100 Regional WWTP allocated treatment and disposal capacity summary. Based on an ARRO search and mapping study conducted in late 2016 for new disposal sites within and near the Township ARRO is evaluating a parcel on South Chester Springs Road to propose how the land could be subdivided and will be preparing an estimate of disposal capacity that would be available in the subdivided areas. ARRO evaluated a parcel on South Chester Springs Road to propose how the land could be subdivided and prepared an estimate of disposal capacity that would be available in the subdivided areas. ARRO found two potential 18-acre drip field areas on the parcel each with an average estimated capacity of 100,000 gallons per day. ARRO has initiated preliminary layout design for two potential 18-acre drip fields on the South Chester Springs Road parcel (the Bennett property).

ARRO prepared a draft of the Route 100 Regional WWTP aerated lagoon nutrient removal study for the potential of rerating of the lagoon to obtain an additional 100,000 gallons of capacity. The draft is under internal review prior to submission to the Authority.

ARRO continues updating the Route 100 Regional wastewater system treatment facility manual and the manuals for the other treatment facilities in the Township.

ARRO is working on setting the entire Route 100 Regional WWTP disposal system into a geographical information system (GIS). ARRO has digitized the record drawings from each disposal system and has completed much of the field work gathering data from each spray and drip field and their associated pump stations. ARRO finished data collection of all Route 100 Regional WWTP disposal fields and is currently analyzing the data and integrated it into the sanitary GIS. ARRO finished integrating into sanitary GIS the data collected from all Route 100 Regional WWTP disposal fields and the Route 100 Regional WWTP. ARRO is continuing to work on digitizing features from all the satellite WWTPs.

ARRO submitted the Act 537 Planning Grant Application to the Pennsylvania Department of Community and Economic Development on May 23, 2019. ARRO received correspondence from the Pennsylvania Department of Community and Economic Development that they will consider the UUT Act 537 Planning Grant Application at their September 17, 2019 Commonwealth Financing Authority (CFA) Board meeting. The CFA posted its September 17, 2019 meeting grant award list and Upper Uwchlan Township was awarded the \$32,610 grant as requested on the Act 537 Planning Grant application. The UUTMA Act 537 Planning Project is awaiting the grant award documentation and agreement from CFA, which needs to be processed and signed before ARRO can move ahead with the planning. The UUTMA Act 537 Planning Project grant award documentation and agreement from CFA was signed. ARRO has started some basic planning work by reviewing past 537 Planning documents and township demographics. ARRO submitted the 2020 Route 100 Regional WWTP groundwater monitoring report to PADEP on June 19, 2020.

ARRO continues basic Act 537 planning work.

ARRO started work on the Route 100 Regional WWTP WQM permit renewal application. Act 14 notifications were prepared and sent the Upper Uwchlan Township Board of Supervisors and the Chester County Planning Commission by letters dated July 15, 2020. On August 6, 2020 ARRO received a Determination of Consistency letter from the Chester County Planning Commission in response to the Act 14 notification letter. ARRO has started preparation of the 5-Year Comprehensive Groundwater Monitoring Report for inclusion within the WQM permit renewal application. ARRO completed preparation of the 5-Year Comprehensive Groundwater Monitoring Report on September 3, 2020 for inclusion within the WQM permit renewal application. ARRO completed preparation of the WQM permit renewal draft application. The application needs to be signed by the Authority Administrator before being sent to PADEP. ARRO completed the WQM permit renewal application and sent it to PADEP on October 30, 2020.

Nothing new to report.

Route 100 WWTP – Phase III

ARRO is reviewing the Route 100 Regional WWTP pad-mounted transformer's capacity in planning for the Phase III of the WWTP expansion. On February 12, 2018, ARRO met with a PECO representative at the WWTP to inspect the capacity of the WWTP's existing transformer and review the Phase III project. After ARRO reviewed the transformer data provided by PECO along with additional anticipated Phase III loadings ARRO concluded that the existing transformer will need to be upgraded. On May 3, 2018 ARRO completed a preliminary cost opinion for the Phase III construction. ARRO responded to February 28, 2020 questions from Ebert Engineering regarding the design of the Phase III precast tanks and the SBR treatment system. ARRO reviewed the initial Aqua-Aerobics Phase III Process Design Report and submitted April 3, 2020 comments to Ebert Engineering on the report. Subsequently Ebert Engineering submitted an updated Process Design Report to ARRO, which ARRO is in the process of reviewing. ARRO received a June 9 email from Ebert Engineering that the initial submission of Route 100 Regional WWTP Phase III design documents would be submitted the week of June 22. ARRO received a July 17, 2002 email from Ebert Engineering that Dutchland is proposing to use the common wall design for the two new SBR basins. On July 24, 2020 ARRO received from Ebert Engineering a WQM Part 2 permit application and upgrade design drawings for the Route 100 Regional WWTP Phase III project. ARRO is in the process of reviewing the documents. On August 20, 2020 ARRO transmitted to Ebert Engineering comments to the Route 100 Regional WWTP Phase III WQM Part 2 permit application and upgrade design drawings.

ARRO completed review of Ebert Engineering's revised Route 100 Regional WWTP Phase III WQM Part 2 permit application with revised upgrade design drawings transmitted November 4, 2020. On December 16, 2020 ARRO transmitted comments on the documents to Ebert Engineering.

Saybrooke

ARRO is working on a plan for the decommissioning of the Saybrooke WWTP.

ARRO submitted the 2020 Saybrooke WWTP groundwater monitoring report to PADEP on June 19, 2020.

Nothing new to report.

St. Andrews Brae

Nothing new to report.

Upland Farms

ARRO is preparing plans and specifications for a low-pressure grinder pump and force main for the Barn Renovation project. ARRO estimated the purchase of 1 EDU would be required for the barn's intended uses. ARRO is attempting to obtain from PADEP a planning module exemption for the proposed barn sewer connection.

ARRO received a November 19, 2020 letter from PADEP stating no planning modules need to be submitted for the proposed barn sewer connection. ARRO is working with the Township's project manager (Boyle Construction) for the sanitary sewer portion of the project.

Waynebrook

Nothing new to report.

Windsor Ridge

Nothing new to report.

Miscellaneous

270 – 290 Park Road (The Townes at Chester Springs) – PADEP issued a May 10, 2017 letter approving the proposed 40 townhouses development that will generate 7,400 gallons of sewage per day to be treated at the Route 100 Regional WWTP. ARRO is reviewing the June 20, 2017 resubmission of Land Development Plans for the project. Toll Brothers will be purchasing the approved plans and will develop and build the project. ARRO reviewed and commented on the draft sanitary sewer escrow spreadsheet submitted by Toll Brothers on June 14, 2017. ARRO reviewed the June 20, 2017 resubmission of Land Development Plans for the project and sent a June 23, 2017 letter to the Township with comments. The project preconstruction meeting was held on July 27, 2017. ARRO reviewed the contractor's sanitary sewer shop drawings. Sanitary sewer installation is tentatively scheduled to start the first week of October 2017. Sanitary sewer installation started on October 9, 2017. Sanitary sewer installation was completed on November 7, 2017. All sanitary sewer testing was completed on December 18, 2017. On February 14, 2108, Toll Brothers informed ARRO that the house service line installations would begin in the later part of February 2018. House service line installations began on February 28, 2018. The last four house service lines were installed and tested during the week of October 1, 2019. Sanitary sewer installation work is complete, but dedication of sanitary sewer remains. At the request of Toll Brothers as part of dedication, on July 22, 2020 ARRO observed the condition of the site sanitary manholes and will prepare a punchlist of work that needs to be completed before acceptance of the sanitary sewer system. ARRO prepared and submitted to Toll Brothers an August 12, 2020 email with a punchlist of work that needs to be completed before acceptance of the sanitary sewer system. Toll Brothers' contractor completed the punchlist of work that needed to be completed before acceptance of the sanitary sewer system. On August 26, 2020 ARRO observed the repairs done to the sanitary sewer system. ARRO is in the process of reviewing the final sanitary sewer televising. On November 8,

2020, Toll Brothers submitted the sanitary sewer record drawings. ARRO reviewed the drawings and transmitted comments back to Toll on November 12, 2020.

Toll Brothers submitted the Maintenance Security Agreement, Grant of Sanitary Sewer Easement and Dedication of Sanitary Sewer Pipeline Facilities, and Assignment of Easement for Sanitary Sewer Pipeline for review and comment. ARRO reviewed the documents and transmitted comments to the Authority counsel.

Village of Eagle

Byers Road Sanitary Sewer Extension - ARRO preliminary planning for sanitary sewer along Byers Road between Pottstown Pike and Senn Drive was submitted to the Authority Administrator for review and comment. ARRO is preparing the Sewage Facilities Planning Module Component 3M for the sanitary sewer along Byers Road between Pottstown Pike and Senn Drive. ARRO received a completed Component 4A from the Township on October 19, 2017. At the request of the Chester County Health Department, on January 9, 2018, ARRO sent another Sewage Facilities Planning Module Component 3M letter to CCHD for the sanitary sewer extension along Byers Road between Pottstown Pike and Senn Drive. In February 2018 letters were sent to the property owners who will be connected to the new Byers Road sanitary sewer informing them that the project's survey will be commencing. ARRO is continuing to prepare drawings and construction specifications for the sanitary sewer extension. The project's survey work was completed in early March 2018. ARRO has the survey information for inclusion in the plans. ARRO has the design plans and specifications in the final stage of completion. ARRO submitted the highway occupancy permit to PennDOT on April 16, 2018. There were no public comments to the sewage facilities planning module (SFPM) and the Board of Supervisors passed a resolution approving the submission of the SFPM to PADEP. ARRO submitted the Sewage Facilities Planning Module to PADEP on April 27, 2018. Comments from PADEP are expected within sixty (60) days. PennDOT has approved the highway occupancy permit plans and requires payment of \$810 for inspection observation prior to release of the permit. PADEP transmitted its comments to the Sewage Facilities Planning Module by letter dated June 21, 2018. ARRO is in the process of addressing each of the PADEP comments. The PennDOT Highway Occupancy Permit for the project has been received. ARRO submitted an August 6, 2018 letter to PADEP addressing each PADEP comment from its Sewage Facilities Planning Module review letter, dated June 21, 2018. PADEP transmitted a September 5, 2018 letter with additional comments to Sewage Facilities Planning Module. ARRO submitted a response letter addressing each concern on October 17, 2018. PADEP transmitted a November 14, 2018 letter with additional comments to the Sewage Facilities Planning Module. ARRO is reviewing the letter and will address each comment in a future letter. The Authority Administrator sent a December 20, 2018 letter to PADEP containing responses to PADEP's November 14, 2018 comments to the Sewage Facilities Planning Module. ARRO sent an email to PADEP on January 31, 2019 requesting approval of the Byers Road Sanitary Sewer Extension Sewage Facilities Planning Module. As of March 20, 2019, no response has been forthcoming from PADEP. ARRO is proceeding with preparation of finishing plans and specifications for the bidding of the project. Regarding the Byers Road Sanitary Sewer Extension SFPM and the December 20, 2018 letter sent by the Authority to PADEP, PADEP responded with an April 5, 2019 letter to the Township. PADEP said the December letter did not sufficiently address all of PADEP's concerns with sewage disposal needs identification in the project area. PADEP wants the needs identification submitted by September 3, 2019. ARRO prepared letters that were delivered to property owners in the Byers Road sewer area inviting them to the April 23, 2019 Authority meeting to be held at the Pickering Valley Elementary School. ARRO submitted documents to PennDOT to extend the Byers Road HOP to July 10, 2020 and was granted the extension by PennDOT. At the request of PADEP, on September 26, 2019 ARRO submitted to PADEP a study and \$522,000 cost opinion for potentially providing sewer service to an additional sixteen (16) lots east of the proposed Byers Road Sanitary Sewer Extension terminal manhole. PADEP responded that they will review the study information. ARRO has started preparing a sanitary sewer grant application under the Pennsylvania Department of Community & Economic Development (DCED) H2O PA grant program

for the Byers Road Sanitary Sewer Extension project. By letter dated November 7, 2019 PADEP issued Byers Road Sanitary Sewer Extension SFPM approval. ARRO is continuing to prepare and will submit a sanitary sewer grant application under the DCED H2O PA grant program for the Byers Road Sanitary Sewer Extension project. The Byers Road grant application was submitted on December 12, 2019. Action on the application is not expected until May or June 2020. ARRO received a June 12, 2020 email from DCED that the grant application will not be reviewed until September 2020; however, they wanted a timeline for the project after September, which ARRO prepared and submitted. ARRO prepared a PennDOT HOP permit extension for the project. Under Authority letterhead ARRO prepared a July 2020 communication to property owners to be connected to the proposed sanitary sewer extension notifying them of the tentative project schedule. DCED awarded a \$463,000 grant for the Byers Road Sanitary Sewer Extension project. On July 28, 2020 the Township mailed letters to property owners to be connected to the proposed sanitary sewer extension notifying them of the tentative project schedule. ARRO is in communication with DCED regarding proceeding to the bid phase of the project. The DCED grant agreement has been signed. ARRO contacted DCED and they have no issues with bidding the Route 100 sewer crossing as an alternate. Project bid advertising is tentatively set for December 2020 with a January 2021 bid opening.

The Byers Road Sanitary Sewer Extension project was first advertised on December 14, 2020 with a second advertisement set for December 21, 2020. A pre-bid meeting is scheduled for January 5, 2021 and bids are due January 15, 2021.

ARRO is studying the feasibility of a sewer extension across Route 100 near Byers Road to pick up commercial business on the west side of Route 100. ARRO is proceeding with the design of the sewer extension across Route 100 near Byers Road to pick up commercial business on the west side of Route 100. ARRO is continuing work on a plan to extend the proposed Byers Road sewer across Route 100 to the Eaglepointe shopping center entrance.

The sewer extension across Route 100 is included as an alternate to the Byers Road Sanitary Sewer Extension project.

Milford Farms – ARRO had survey completed on Surrey Lane and Carriage Drive, and on portions of Font Road and Milford Road, as preliminary to the sanitary sewer design for residential homes along these roads. Survey indicated Milford Road gravity sewers would be untenable due to existing grades. ARRO completed a preliminary design for gravity sewer within Surrey Lane, Carriage Drive and the portion of Font Road between Surrey and Carriage. A small wastewater pump station will be needed. The pump station is proposed to be located at the intersection of Font Road and Milford Road and its force main would be connected to an existing force main located in Font Road serving three homes on the Milford Road dead-end. ARRO prepared presentation graphics of the proposed sewer for the Authority Administrator. ARRO prepared letters that were delivered to property owners in the Milford Farms sewer area inviting them to the April 23, 2019 Authority meeting to be held at the Pickering Valley Elementary School. ARRO is proceeding with the preparation of the sanitary sewer design drawings and specifications for project's submission to PADEP. ARRO is creating Milford Road and Byers Road sanitary sewer informational documents for the Township's website. ARRO is reviewing the planning module application and getting it ready for Authority and Township signatures before its submission to PADEP. ARRO submitted the planning module application to PADEP on May 10, 2020. Under Authority letterhead ARRO prepared a July 2020 communication to property owners to be connected to the proposed sanitary sewer extension notifying them of the tentative project schedule. On July 28, 2020 the Township mailed letters to property owners to be connected to the proposed sanitary sewer extension notifying them of the tentative project schedule. ARRO is working on completing the design drawings and specifications for the project. On September 18, 2020 planning module approval was received from PADEP.

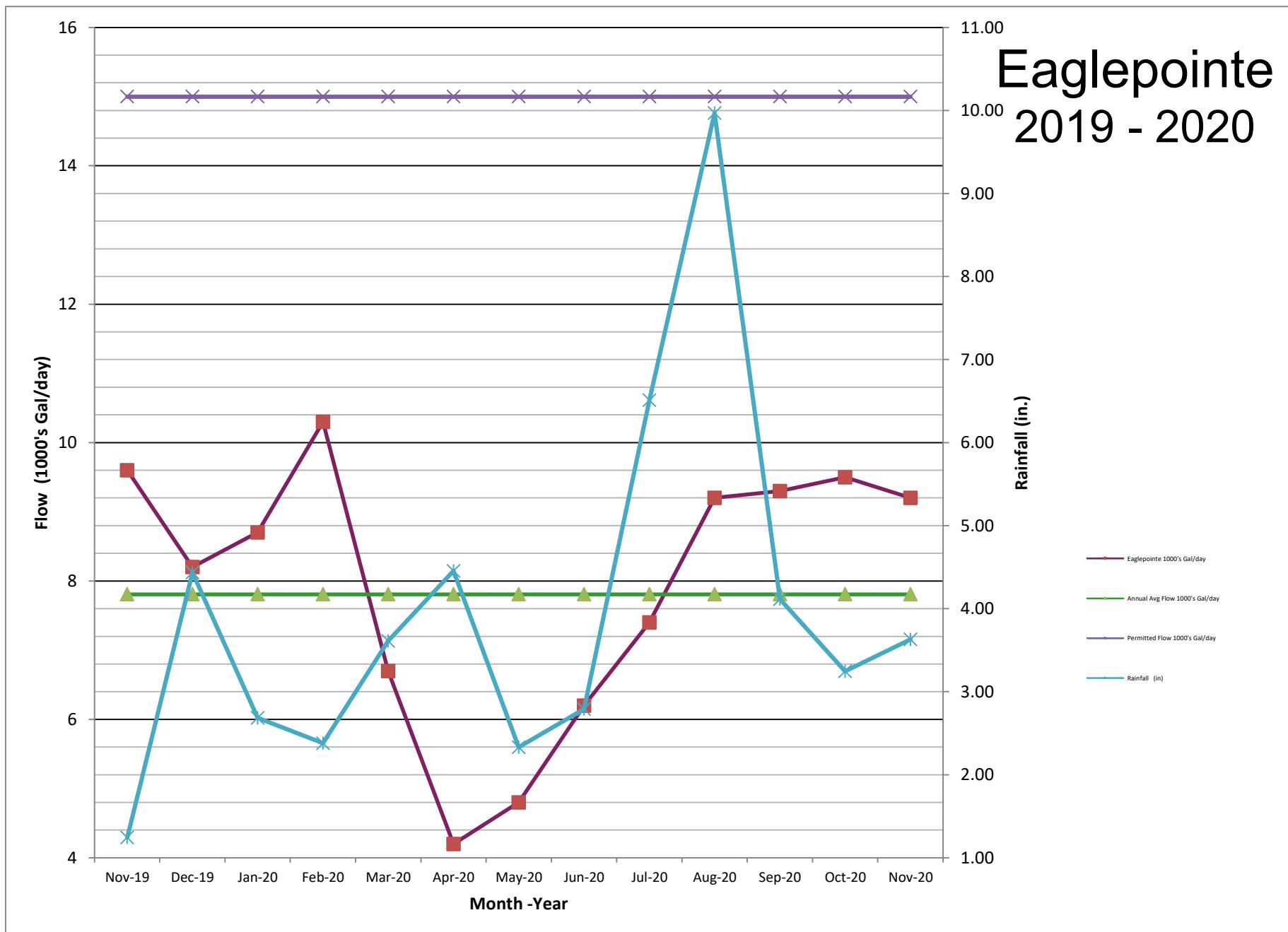
ARRO is continuing to prepare the WQM Part 2 permit for the proposed pump station as well as the plans and specifications.

Township Wastewater Treatment Plant's Monthly Average Flow Charts – Please see the attached.

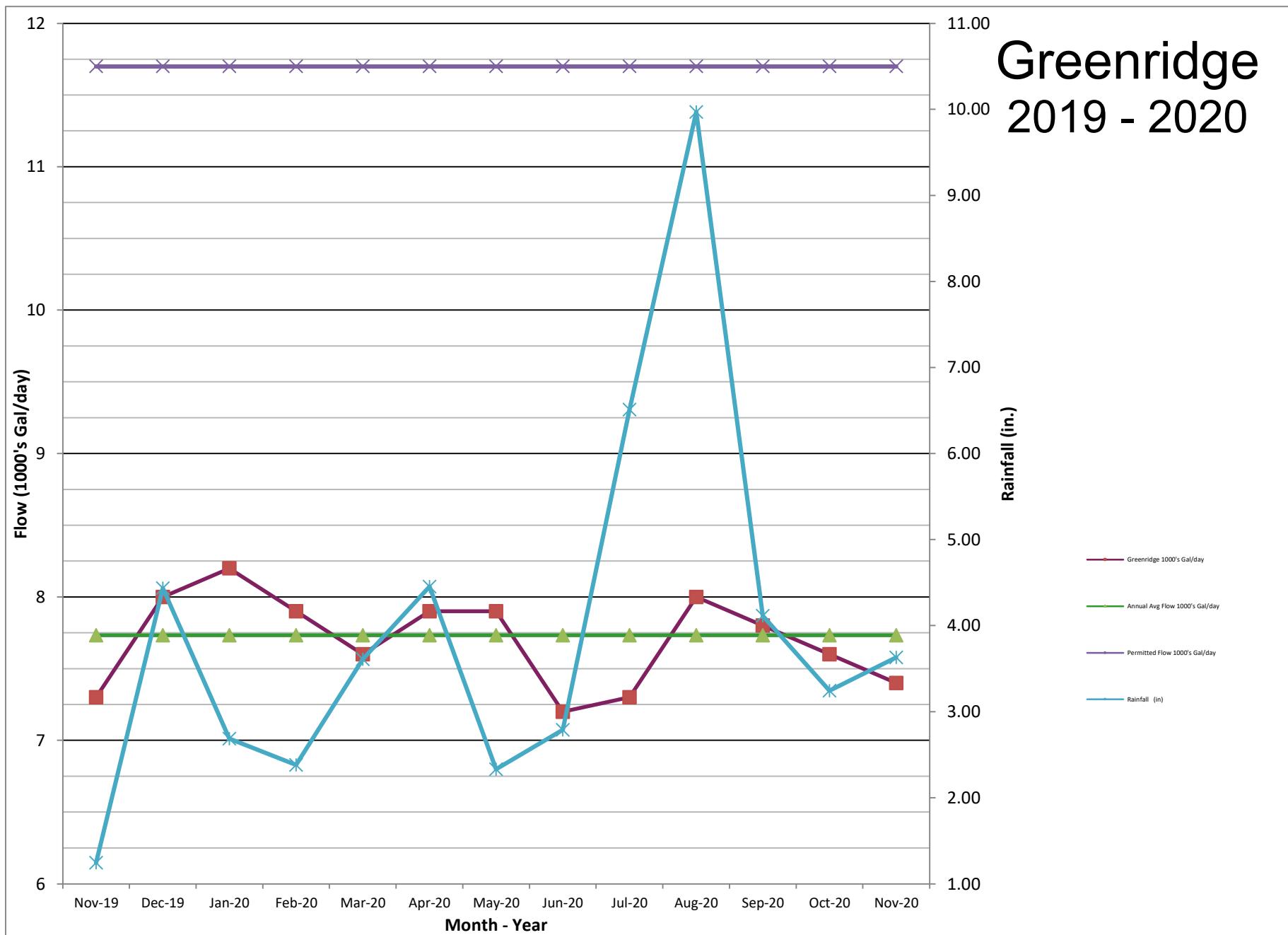
UPPER UWCHLAN MUNICIPAL AUTHORITY
WASTEWATER TREATMENT PLANTS
MONTHLY AVERAGE DAILY FLOWS

Month - Year		Average Daily Flow (MGD)							Rainfall (in)
		Eaglepointe	Greenridge	Lakeridge	Marsh Harbour	Route 100	Saybrooke	St. Andrews	
Nov-19		0.00960	0.00730	0.02270	0.03850	0.33940	0.00790	0.00240	1.25
Dec-19		0.00820	0.00800	0.02600	0.04310	0.35160	0.00730	0.00240	4.44
Jan-20		0.00870	0.00820	0.02470	0.04180	0.35080	0.00700	0.00230	2.69
Feb-20		0.01030	0.00790	0.02360	0.04060	0.33560	0.00780	0.00250	2.38
Mar-20		0.00670	0.00760	0.02870	0.04370	0.37640	0.00700	0.00290	3.61
Apr-20		0.00420	0.00790	0.03000	0.04720	0.38900	0.00790	0.00270	4.46
May-20		0.00480	0.00790	0.02940	0.04540	0.38610	0.00740	0.00220	2.33
Jun-20		0.00620	0.00720	0.02550	0.04230	0.36630	0.00730	0.00140	2.79
Jul-20		0.00740	0.00730	0.02520	0.04070	0.37140	0.00730	0.00120	6.51
Aug-20		0.00920	0.00800	0.02790	0.03970	0.36050	0.00830	0.00130	9.97
Sep-20		0.00930	0.00780	0.02510	0.03830	0.35520	0.00800	0.00110	4.12
Oct-20		0.00950	0.00760	0.02770	0.04120	0.37900	0.00800	0.00190	3.25
Nov-20		0.00920	0.00740	0.02780	0.04230	0.38990	0.00800	0.00260	3.63
Annual Avg Flow =		0.00781	0.00773	0.02680	0.04219	0.36765	0.00761	0.00204	
Permitted Flow =		0.01500	0.01170	0.04000	0.07600	0.60000	0.00920	0.00360	

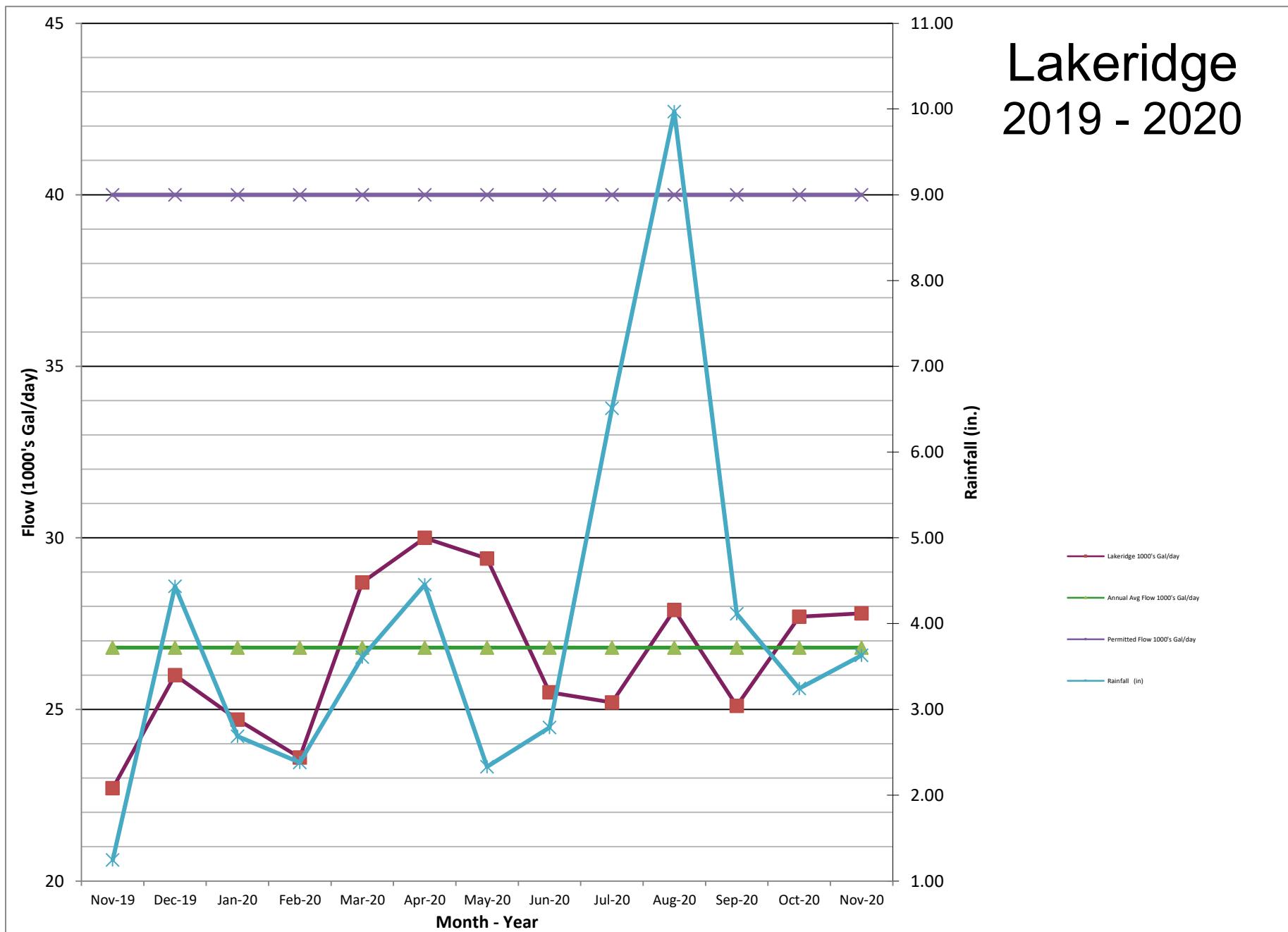
Eaglepointe 2019 - 2020



Greenridge 2019 - 2020

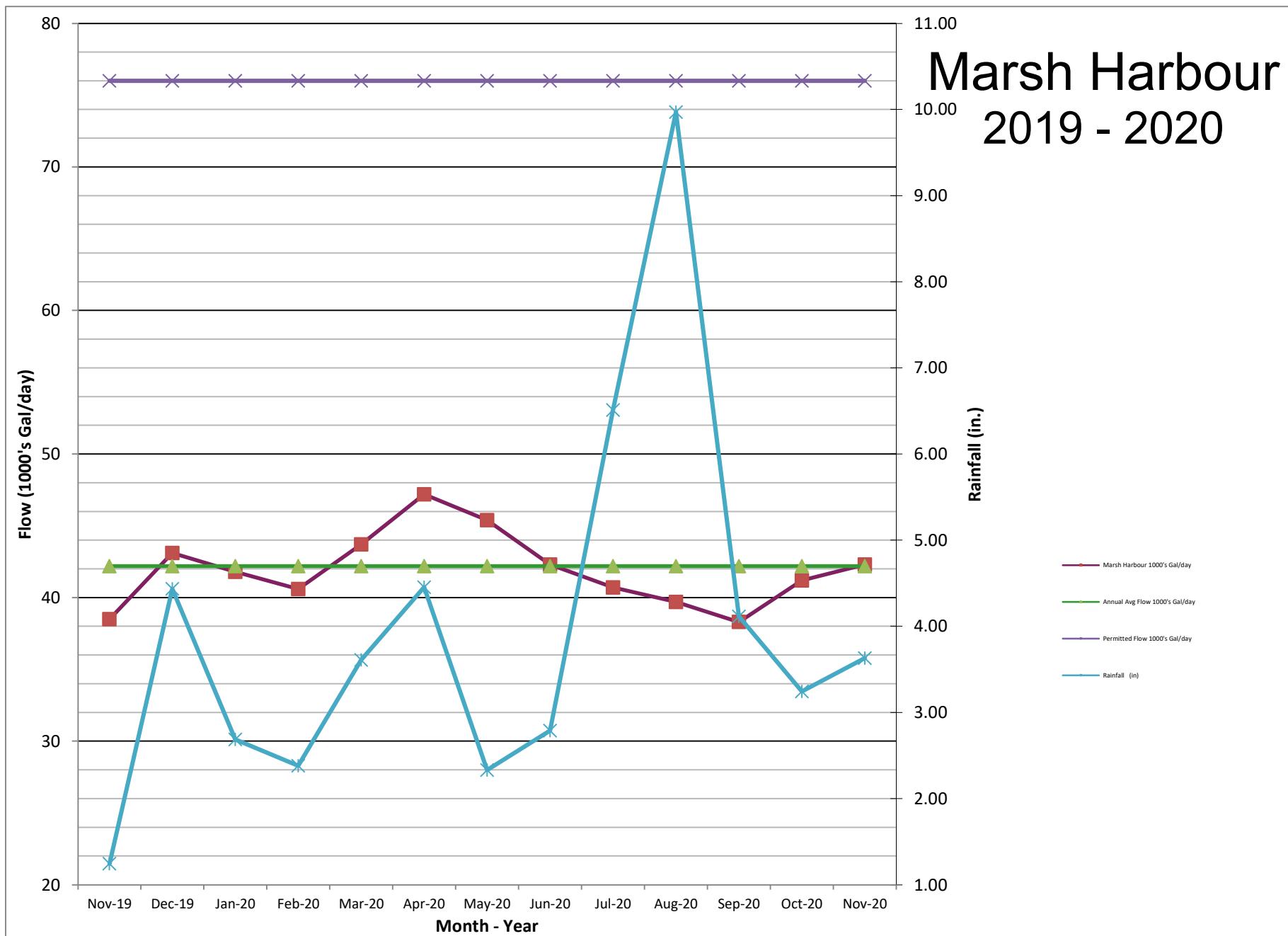


Lakeridge 2019 - 2020



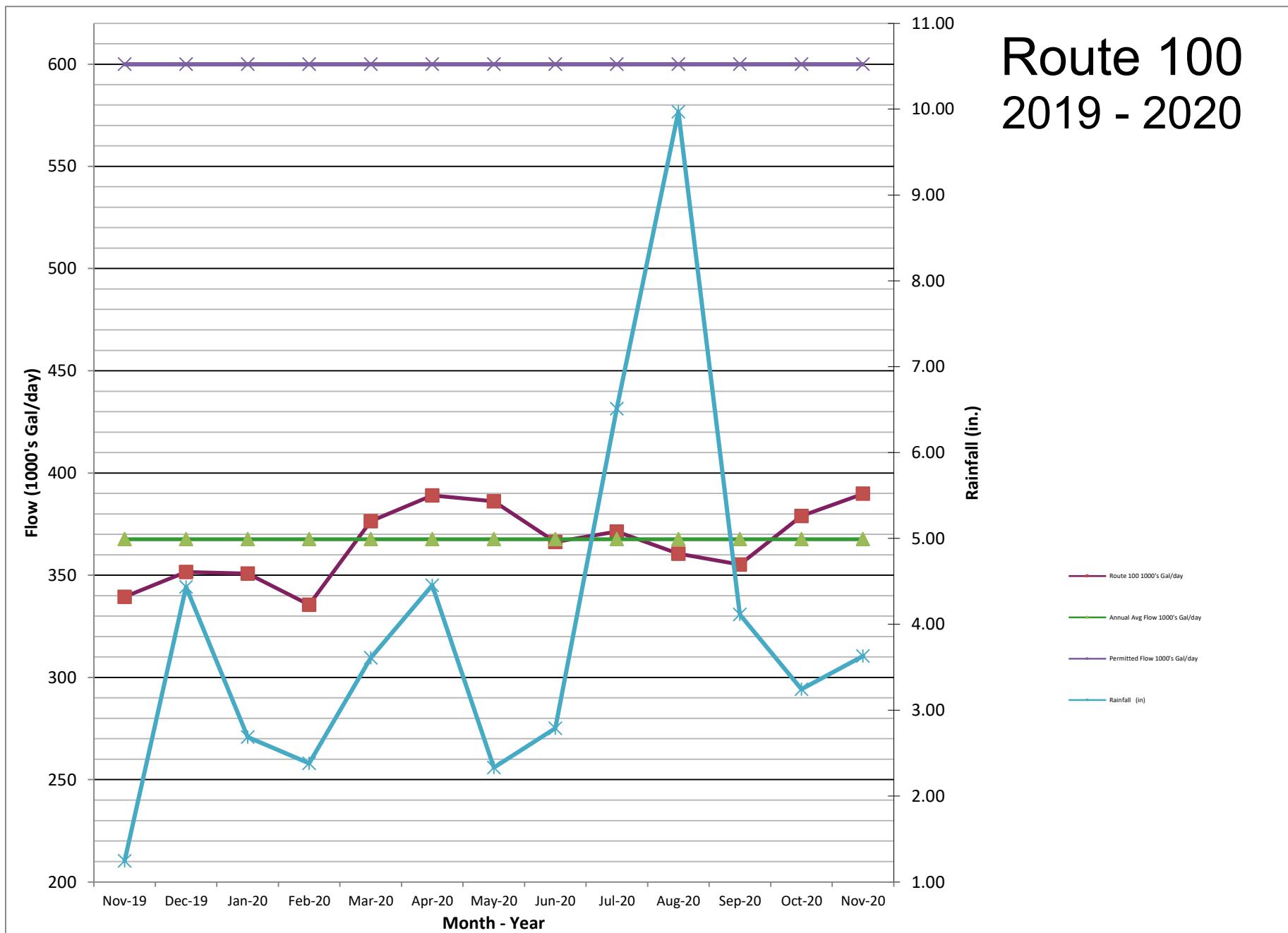
Marsh Harbour

2019 - 2020

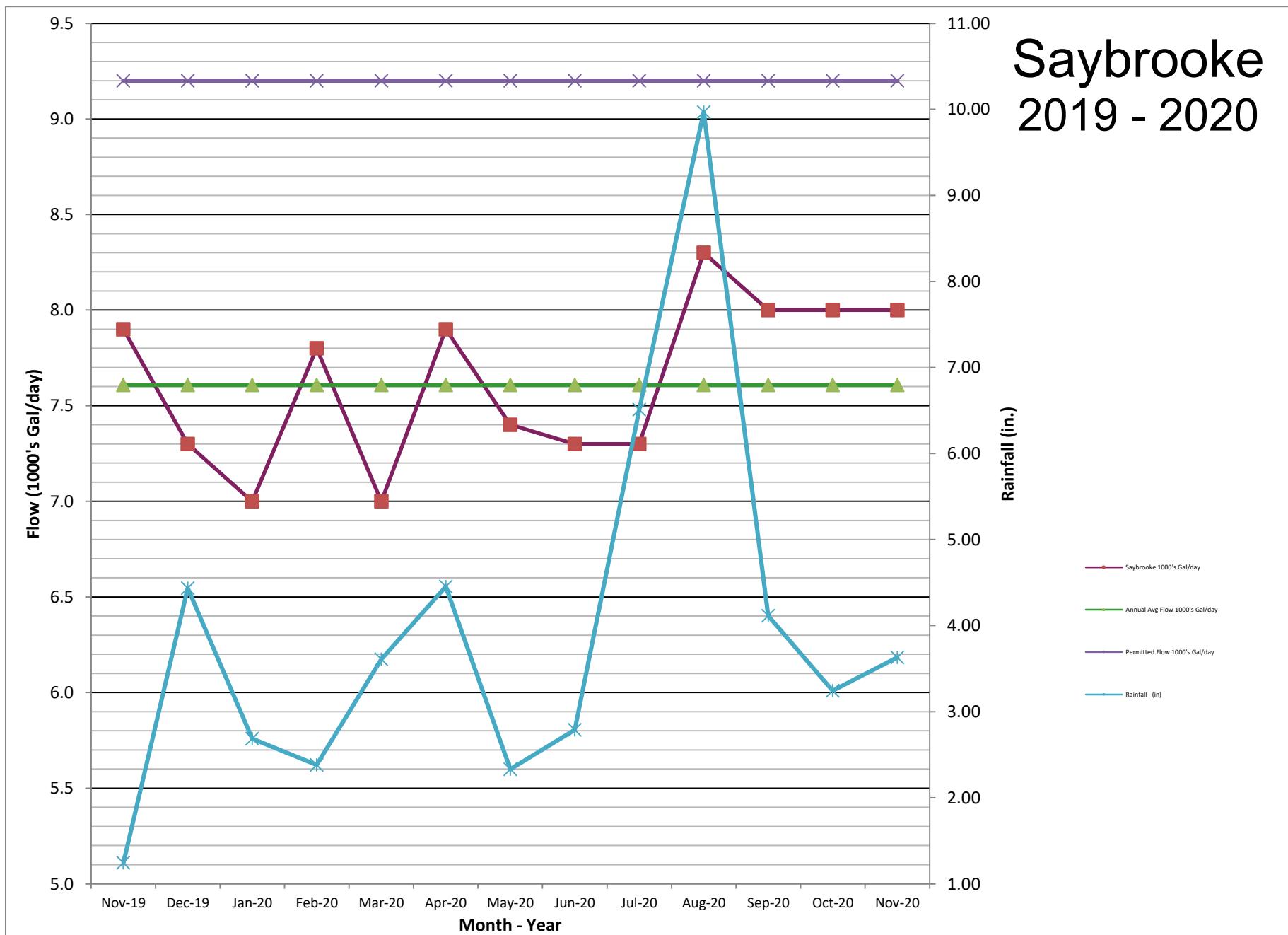


Route 100

2019 - 2020

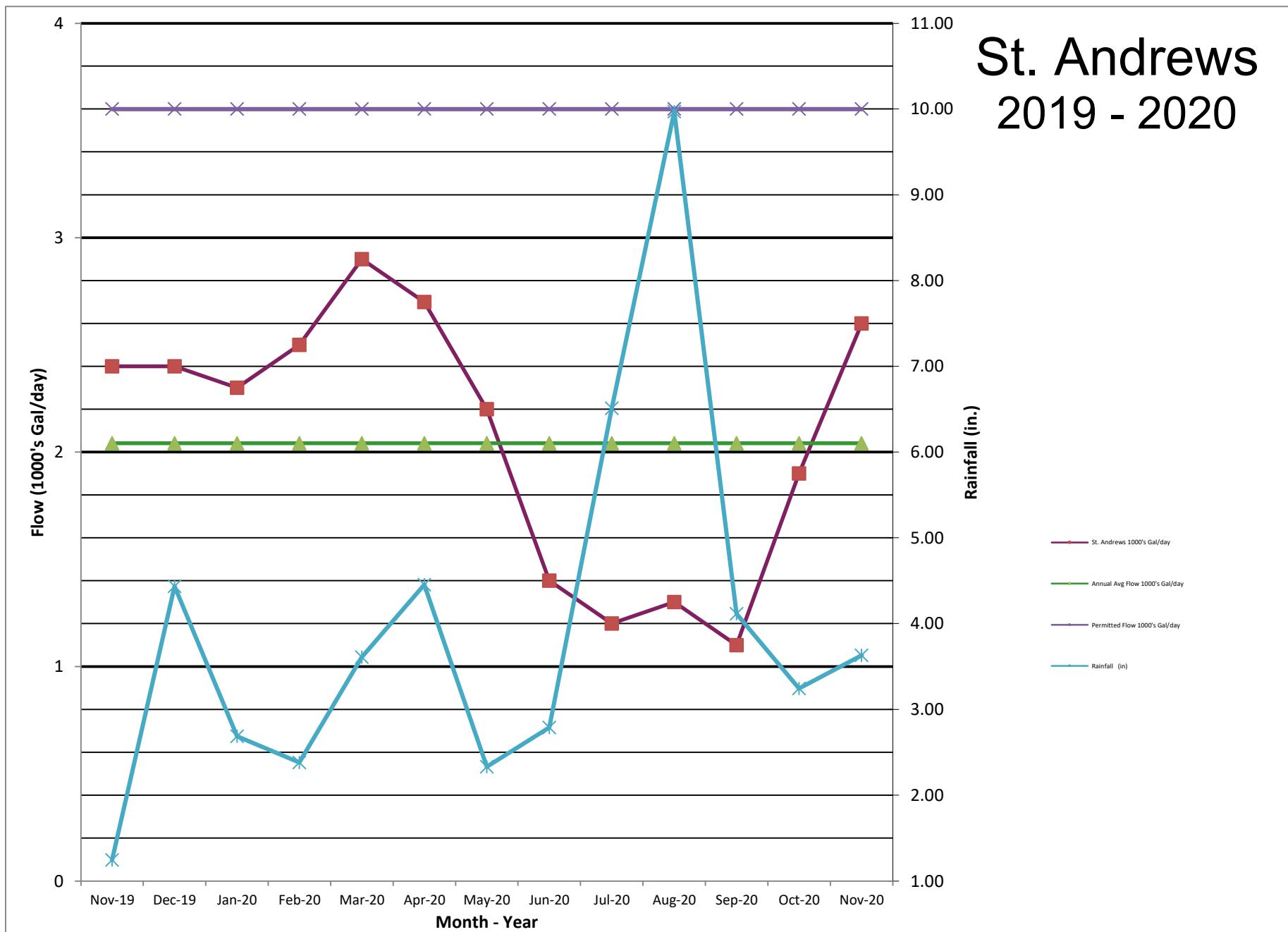


Saybrooke 2019 - 2020



St. Andrews

2019 - 2020





To: Municipal Authority Members
From: G. Matthew Brown, P.E., DEE
Re: Authority Administrator's Report
Date: December 18, 2020

Activities for the month include:

- A. Communication with WWTF Operator and Township Staff regarding operational and maintenance issues. (21.0 hours)
- B. Preparation of administrative documents for the Authority meeting packet and for the Authority files. (4.0 hours)
- C. Communication with residents regarding septic system issues and possible connection to the sanitary sewer system. Inquiries included Meadow Lane, Byers Road (outside of the current project), Highview Lane, Milford Road and Orchard Valley Road. (2.0 hours)
- D. Communication with McKee engineer and ARRO regarding Phase III design of the Route 100 WWTF, collection system and disposal system and modifications to the Part II construction Permit application. (6.0 hours)
- E. Communication with the Township, Sunoco's contractor and ARRO regarding the Sunoco pipeline through Meadow Creek Lane including attendance at pre-construction meeting, site visits to ascertain lateral location, lateral casing procurement, review of design information for the Greenridge WWTF upgrade and Meadow Creek Drive sewer line location. (17.5 hours)
- F. Review and modification of 2021 draft Operating and Capital Budgets for adoption at the December meeting. (2.0 hours)
- G. Communication with ARRO and PADEP regarding the Byers Road extension and development connection. (4.0 hours)

Please advise if you have any questions or would like further details.



RESOLUTION # 12 – 22 – 20 – 21

WHEREAS, the Upper Uwchlan Township Municipal Authority wishes to establish Administration Costs and User Fees for calendar year **2021**, and

WHEREAS, the Upper Uwchlan Township Municipal Authority has determined the Administration Costs and User Fees as follows:

2021 Administration Costs: **\$ 264,736**

2021 User Fees:

SYSTEM	2020 RATE	PROPOSED 2021 RATE
Commercial Users	\$12.00 / 1,000 gallons	\$12.00 / 1,000 gallons
Fellowship Road	\$190.00 / quarter	\$190.00 / quarter
Lakeridge	\$190.00 / quarter	\$190.00 / quarter
Marsh Harbour	\$190.00 / quarter	\$190.00 / quarter
Meadow Creek	\$190.00 / quarter	\$190.00 / quarter
Saybrooke	\$190.00 / quarter	\$190.00 / quarter
St. Andrews Brae	\$190.00 / quarter	\$190.00 / quarter
Greenridge	\$190.00 / quarter	\$190.00 / quarter

NOW, THEREFORE, be it resolved, the Upper Uwchlan Township Municipal Authority 2021 Operating Budget totals **\$ 4,872,700**.

HEREBY RESOLVED and ADOPTED, this 22nd day of December, 2020.

UPPER UWCHLAN TOWNSHIP
MUNICIPAL AUTHORITY

ATTEST:

Donald Carlson, Member

G. Matthew Brown
Authority Administrator

Hal Harper, Member

William Quinn, Member

Louis Schack, Member

Robert Watts, Member



UPPER UWCHLAN TOWNSHIP MUNICIPAL AUTHORITY
CHESTER COUNTY
COMMONWEALTH OF PENNSYLVANIA

2021 Budget

Budget Presented – November 24, 2020
Budget Approved – December 22, 2020

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About the Upper Uwchlan Township Municipal Authority

Organization

The Upper Uwchlan Township Municipal Authority (Authority) was incorporated by the Upper Uwchlan Township, Chester County, Pennsylvania in 1990 for the purpose of operating the sewage collection, treatment plants and other facilities used in the processing and disposal of sewage from Township residents and businesses. All of the capital assets are owned by Upper Uwchlan Township and are operated and maintained by the Authority under a long-term arrangement.

Board of Directors

The Authority is governed by a five (5) member Board of Directors. Board members are appointed by the Upper Uwchlan Township Board of Supervisors to serve for five (5) year terms. Each year, the Board votes to select a new Chairman and Vice-Chairman. The current Board members and their terms of office are:

<u>Member</u>	<u>Position</u>	<u>Term Expires</u>
Hal Harper	2020 Chairman	12/31/2023
Robert Watts	2020 Vice-Chairman	12/31/2022
Donald B. Carlson	Member	12/31/2023
Bill Quinn	Member	12/31/2021
Louis Schack	Member	12/31/2020

Management and Operations

The Authority has appointed G. Matthew Brown, P.E., D.E.E., ARRO Consulting, Inc. as the Authority Administrator and has hired ARRO Consulting, Inc. as the Authority's Engineer. Clean Water, Inc. was appointed by the Authority as the Authority Operator.

The Authority has an administration agreement with Upper Uwchlan Township under which the Township employees perform many functions for the Authority and the Authority reimburses the Township for the cost of the services provided. These include: oversight, providing financial services (paying Authority bills, preparing monthly reports for Authority meetings, etc.) treasury functions, collection of sewer receipts, providing services to residents, maintenance of facilities (grass cutting, etc.) and any other services needed.

The Authority has no employees.

Executive Summary

Upper Uwchlan Township (Township) has eight (8) public wastewater systems located throughout the Township to collect and treat sewage generated by homes and businesses residing within each system service area. The Township also has a large number of homes and businesses that have private on-lot disposal systems consisting of septic tanks and drain fields, some of which are failing. This is especially critical as the Township lies within two (2) high quality watersheds; Marsh Creek (which lies within the East Branch of Brandywine Creek watershed) and Pickering Creek; which both ultimately drain to the Chesapeake Bay. Due to the initiatives outlined by the United States Environmental Protection Agency (US EPA) to protect the Delaware and Chesapeake Bays from nutrient overload, these high quality watersheds must be protected, specifically from higher levels of nitrogen and phosphorous compounds commonly found in wastewater. Failing or malfunctioning on-lot disposal systems have an adverse impact on the watersheds.

A review of the soils within the Township boundary using the Natural Resources Conservation Service Web Soil Survey indicates that over half of the soils in the Township have very limited suitability for septic tank absorption fields. The soil properties considered are those that affect absorption of the effluent, construction and maintenance of the system, and public health. Very limited suitability indicates that the soil has one or more features that are unfavorable for septic tank absorption fields. Knowing this, the Township strives to connect residences and businesses to one (1) of the eight (8) public wastewater systems whenever possible.

Another complication that results from the high quality watersheds that surround the Township is the method used to dispose of treated effluent. Of the eight (8) wastewater treatment plants (WWTP) in the Township, only two (2) are permitted by the Pennsylvania Department of Environmental Protection (PA DEP) to discharge treated wastewater directly to a stream (which is the conventional method of wastewater disposal in PA). The remaining six (6) WWTPs utilize land application of treated effluent for disposal. Land application must be used because obtaining a direct discharge permit is becoming increasingly difficult as the PA DEP continues to make the treatment requirements more and more stringent to comply with the USA EPA Chesapeake Bay program requirements. This becomes even more complicated when the stream that is being discharged to is high quality. The level of treatment that would be required to meet these standards is so high that it would not be cost effective to the Township or its residents to construct and operate the wastewater systems this way. Therefore, land application is used in lieu of direct discharge of disposal of treated wastewater.

The capital assets of the wastewater system are owned by the Township, but are operated and maintained by the Township Municipal Authority (Authority). More detailed information on each of the eight (8) wastewater facilities, what has been achieved in the past year, and the goals for the future can be found below.

2020 Accomplishments and Our Goals for 2021

What was accomplished in 2020

In 2020, the Authority's quarterly sewer rates were not increased and remained at \$190 per quarter. The COVID-19 pandemic impacted project schedules.

In 2020 construction associated with the project to relocate the existing sludge holding tank at the Lakeridge Wastewater System, was completed. The WWTP was originally designed with the holding tank located indoors, however the Authority's insurance adjuster indicated that in order to maintain coverage, the tank would have to be moved outdoors. Additionally, the driveway was repaved and removal of pine trees occurred.

Marsh Harbour Wastewater System the driveway was repaved and removal of pine trees occurred.

What is planned for 2021

In 2019 the Authority secured funding in the amount of \$5.105 million for projects that are scheduled to take place in 2021 or later. These projects are as follows:

- \$2.5 million for the Route 100 WWTP Phase III upgrade
 - As discussed in the Route 100 Regional Wastewater Treatment Facility Detailed Description, the McKee/Fetter's property development is going to exceed the Phase II capacity of the Route 100 WWTP. The developer is going to design and construct Phase III of the WWTP, and the Township will purchase excess capacity that results from the upgrade that the developer does not utilize for the McKee/Fetter's property. This excess capacity will be used for connecting new or existing homes within the Authority's service area to the Route 100 WWTP.
- \$0.785 million for the Byers Road Phase II collection system expansion (less H2O Grant).
 - Part of the Authority's most recent update to the Act 537 Sewage Facilities Plan on record with the PA DEP indicates that a collection system will be installed out Byers Road east of Route 100. The design of this expansion is complete, and the only outstanding item is obtaining all approvals from PA DEP. The project was delayed due to H2O Grant funding approval and COVID-19 pandemic. The project is currently advertised for soliciting bids. Construction to commence in the Spring 2021.
- \$1.1 million for the purchase of land for effluent disposal
 - As discussed in the Executive Summary, six (6) of the wastewater facilities within the Township utilize land application for treated effluent as opposed to direct stream discharge. For most of the facilities, there was no anticipated growth at the time of design and construction, therefore there is adequate disposal capacity for the size of the WWTP. However, the Route 100 WWTP was constructed with the knowledge that it would be expanded. The Township does not currently own enough land to dispose of all 900,000 gallons of treated effluent that could be generated in a day once Phase III is constructed. Therefore, purchase of land that is sufficient for land application of wastewater is an important task for the Township and Authority to pursue.
- Remaining funds will be used for the Milford Farms collection system expansion
 - Milford Farms is known as an area with a large number of failing septic systems. As part of the Chester County Health Department's review of the Jankowski Tract planning documents, they commented that "there have been several malfunctions along Surrey Lane, Font Road and Carriage Drive, the area would benefit public sewerage." This, in addition to the presence of residents at the Authority meetings toward the end of the 2018 calendar year, is the impetus behind the beginning design of a collection system in this area. This project is expected to commence in 2021.

Wastewater Treatment Facilities – At a Glance

Facility Name	Location	Daily Capacity (gallons)	Disposal Methods	Date Placed in Service	Number of businesses or residences served
Eaglepointe	South of Ticonderoga Blvd, adjacent to the Pa. Turnpike	15,000	Effluent is directly discharged to a tributary of Marsh Creek	2003	30 businesses located west of Route 100 and Little Conestoga Road
Greenridge	Southwest of the intersection of Greenridge Rd and Dan Dr	15,125	Effluent is discharged to one disposal field for drip irrigation	2005	61 homes in Greenridge & Stonehedge developments
Lakeridge	North of Dorlan Mill Rd and to the east of Moore Rd	40,000	Effluent is discharged to a series of five sand mounds and one subsurface absorption bed	1983	148 homes in Lakeridge, Hunter's Ridge and Ivystone developments
Marsh Harbour	Between Mallard Ln and Carpenter's Cove Ln	82,000	Effluent is discharged to two disposal fields for spray irrigation	1990	All homes in Marsh Harbour and Heron Hill developments
Meadow Creek	Southeast corner of Styer Rd and Meadow Creek Ln	1,300	Effluent is discharged to one subsurface absorption bed	1990	5 homes in Meadow Creek development
Route 100 Regional *	East of Route 100 along the north side of Fellowship Rd	900,000	Effluent is discharged to 19 disposal fields for spray and drip irrigation	2004	All homes in Byers Station, Reserve at Eagle, Reserve at Waynebrook, Windsor Ridge, Eagle Manor, Heather Hill, and Windsor Place.
Saybrooke	Southwest side of Yarmouth Ln	9,200	Effluent is discharged to a series of four subsurface absorption beds	1999	41 homes in Saybrooke development
St. Andrews Brae	North side of Kiloran and Bryan Wynds southern intersection	3,600	Effluent is directly discharged to a tributary of Marsh Creek	2003	13 homes in St. Andrews Brae development

* The Route 100 Regional WWTP will have an ultimate capacity of 900,000 gallons. Phase I of the WWTP (placed in service in 2004) had a capacity of 300,000 gallons, Phase II of the WWTP (placed in service in 2015) has a capacity of 600,000. Phase III of the WWTP is anticipated to be placed into service in 2021.

BASIS OF ACCOUNTING AND BUDGETING

Accounting Basis

The Authority uses the accrual basis of accounting. Under this basis, revenues are recorded when earned and expenses are recorded when incurred, even though actual payment or receipt may not occur until after the period ends.

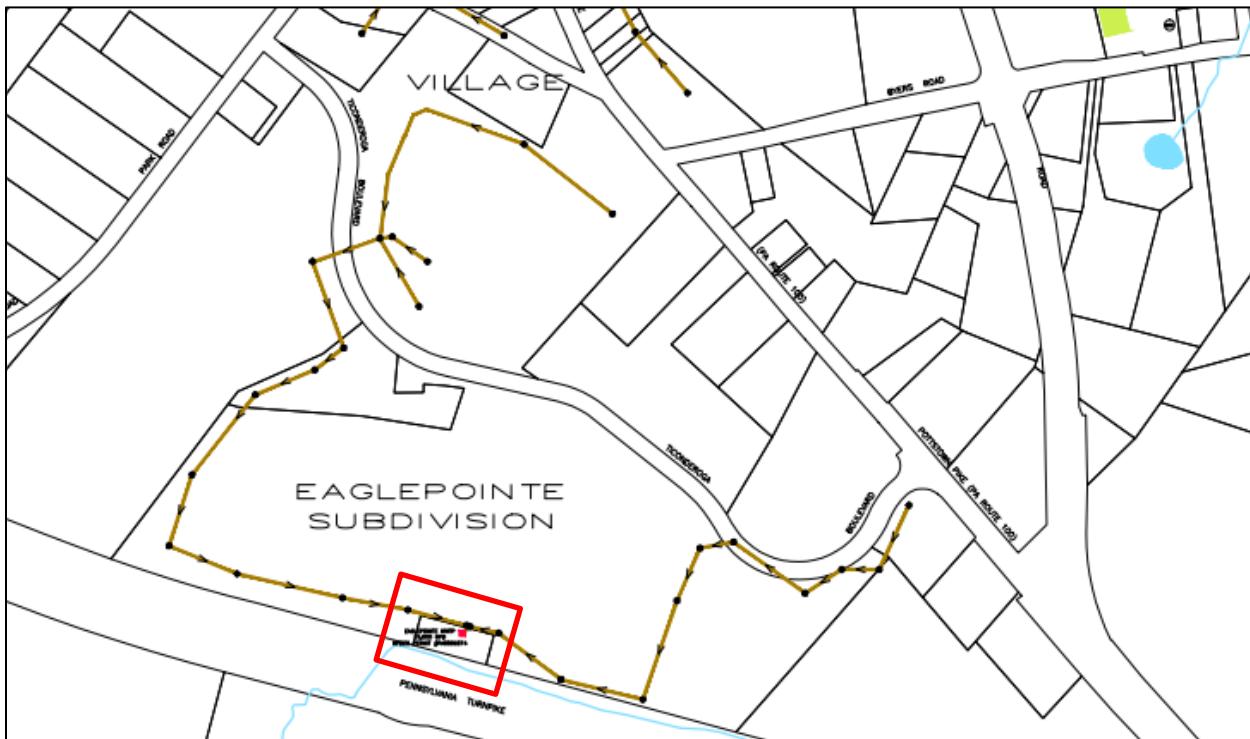
Basis of Budgeting

The Authority's budget has been prepared using the modified accrual method of accounting. Modified accrual accounting recognizes revenues when they become measurable and available. **Measurable** means that the dollar amount of the transaction is known. **Available** means that it is collectible within the current period, or soon enough after the end of the current period to pay liabilities of the current period. For this purpose, the Township considers revenues to be available if they are collected within 30 days of the reporting period. Expenditures are generally recorded when a liability is incurred.

Wastewater Treatment Facilities – Detailed Description

Eaglepointe Wastewater System

The Eaglepointe Wastewater System consists of the Eaglepointe WWTP, rated for 15,000 gallons per day (gpd), which collects sewage from commercial properties along Eaglepointe Boulevard. The treatment process consists of an equalization tank, an aeration tank, a clarifier, sand filters, and a chemical contact tank. Following treatment, effluent is discharged directly into a tributary of Marsh Creek under the PA DEP National Pollutant Discharge Elimination System (NPDES), Permit No. PA0036374.



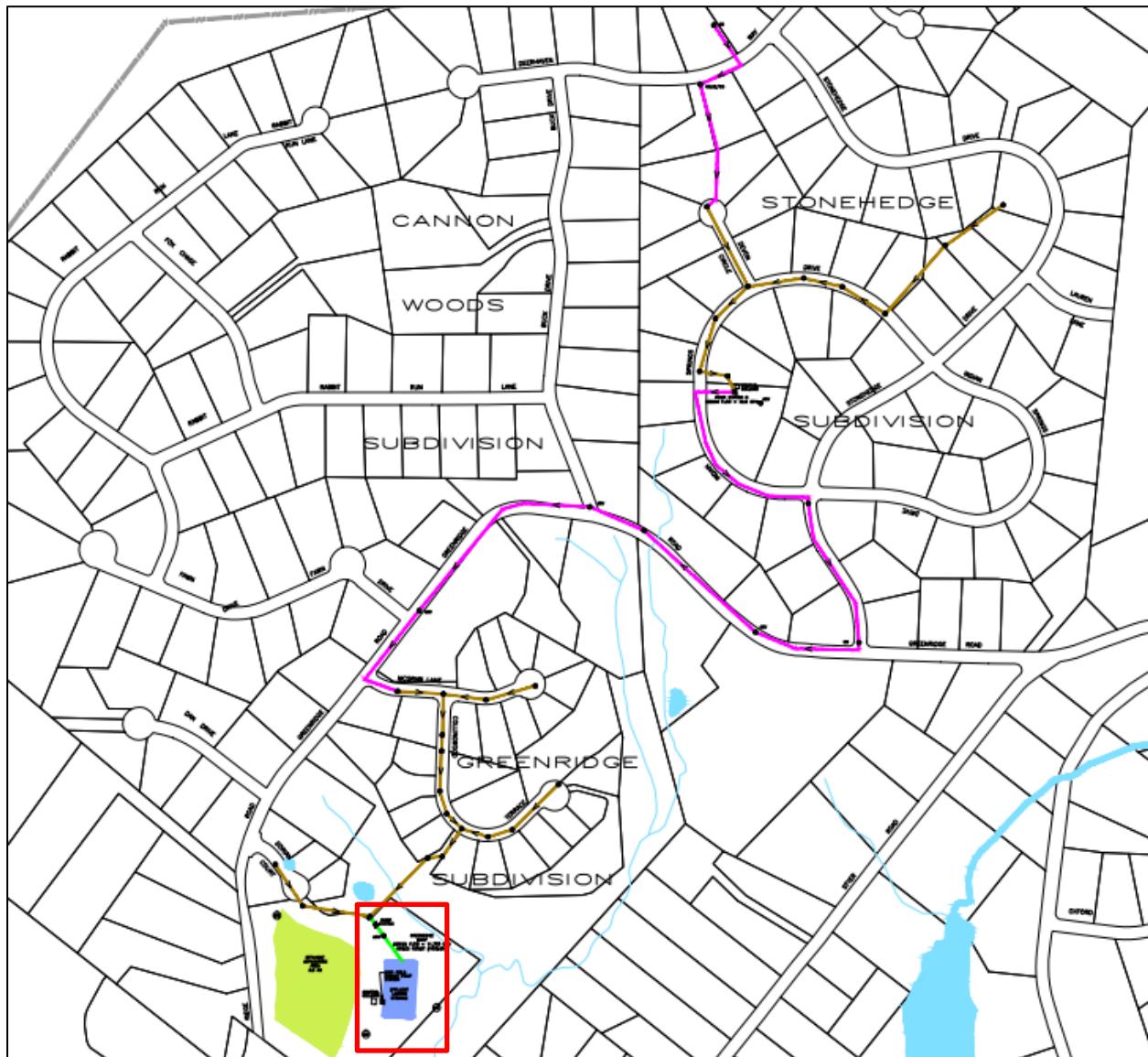
Eaglepointe Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Greenridge Wastewater System

The Greenridge Wastewater System consists of the Stonehedge conveyance pump station and the Greenridge WWTP, rated for 15,125 gpd, which collect sewage from residential customers within the Greenridge and Stonehedge developments. The Stonehedge conveyance pump station collects sewage from the Stonehedge development and conveys it to the Greenridge WWTP while sewage from the Greenridge development flows via gravity to the WWTP. The wastewater from both developments is received by an influent pump station on the WWTP property, which conveys the sewage to a dual-sectioned treatment lagoon. Following treatment, the wastewater flows through sand filters prior to disposal via drip irrigation within the field located behind the WWTP. This is done under PA DEP Water Quality Management (WQM) Permit No. 1502403.



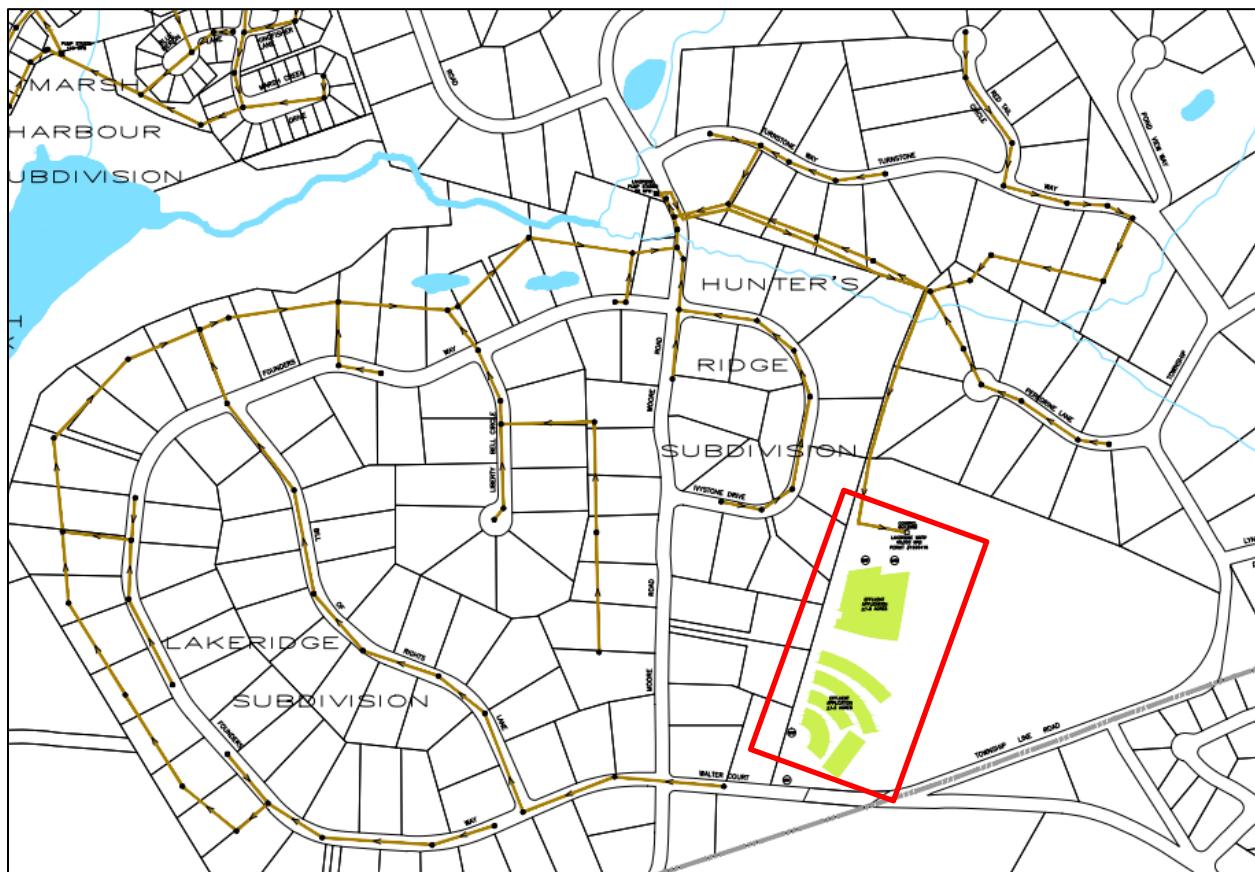
Greenridge Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Lakeridge Wastewater System

The Lakeridge Wastewater System consists of the Lakeridge conveyance pump station and the Lakeridge WWTP, rated for 42,000 gpd, which collects sewage from residential customers in the Lakeridge, Hunter's Ridge, and Ivystone developments. The Lakeridge conveyance pump station collects sewage from the developments and conveys it to the WWTP. The treatment process consists of a sequencing batch reactor (SBR), holding tank, and sand filter prior to disposal through one (1) of five (5) sand mounds, then to a subsurface absorption bed for final disposal. This is done under PA DEP WQM Permit No. 1590416.



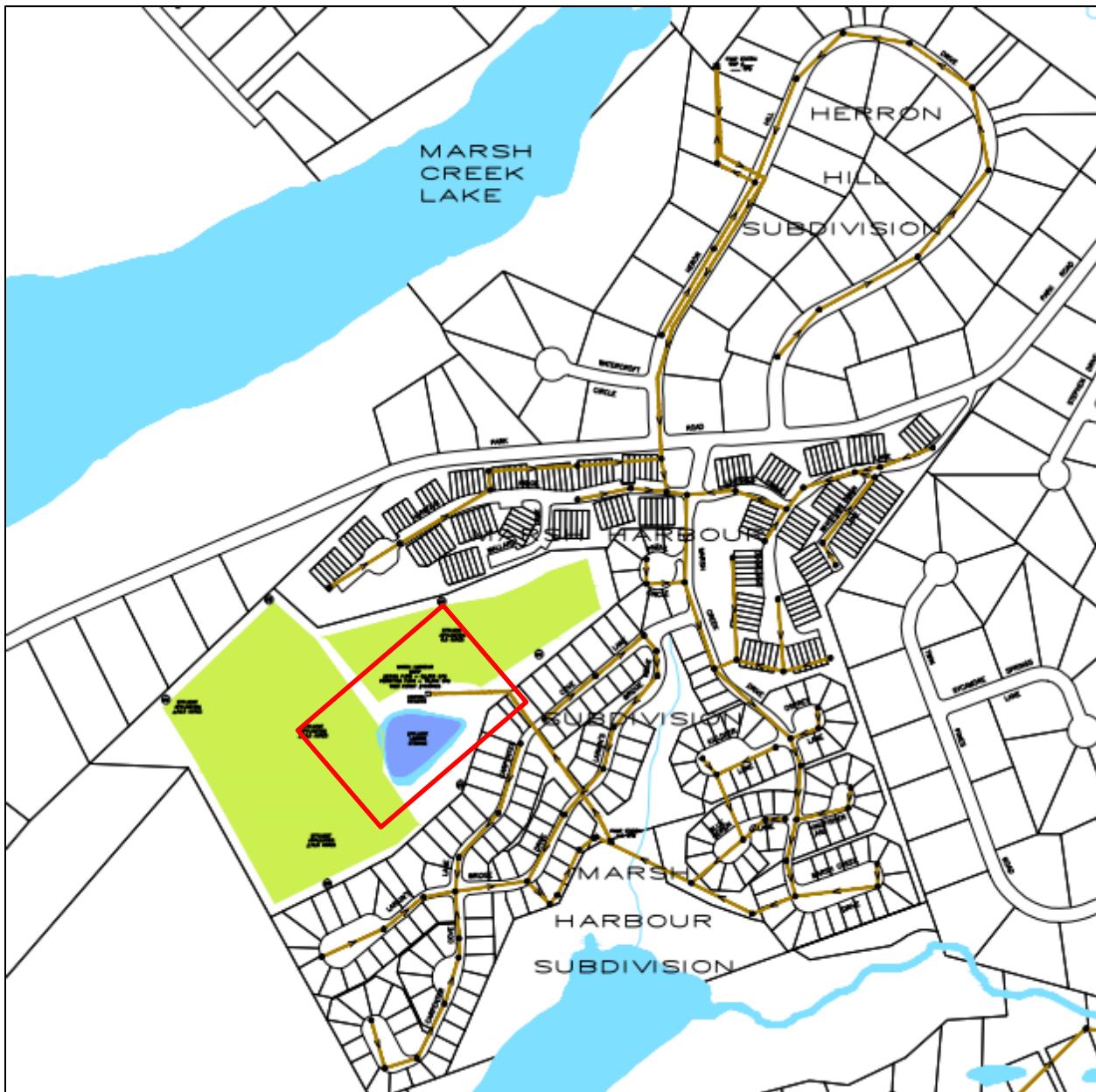
Lakeridge Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Marsh Harbour Wastewater System

The Marsh Harbour Wastewater System consists of the Herron Hill conveyance pump station, the Marsh Harbour conveyance pump station, and the Marsh Harbour WWTP, rated for 82,000 gpd which collects sewage from residential customers within the Marsh Harbour and Herron Hill developments. The Herron Hill pump station collects sewage from homes within the Herron Hill development and pumps it to the Marsh Harbour development collection system. Wastewater from both the Herron Hill and Marsh Harbour developments is collected by the Marsh Harbour pump station and conveyed to the Marsh Harbour WWTP. The treatment process consists of a bar screen, SBR, and a storage lagoon prior to discharge via spray irrigation on one (1) of two (2) fields located behind the WWTP. This is done under PA DEP WQM Permit No. 1598425.



Marsh Harbour Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Meadow Creek Wastewater System

The Meadow Creek Wastewater System consists of the Meadow Creek WWTP, rated for 1,300 gpd, collects sewage from five (5) residential customers in the Meadow Creek development. The treatment process consists of an equalization tank prior to discharge through a seepage field located at the corner of Meadow Creek Lane and Styer Road. As the Meadow Creek WWTP is only a seepage field, it is not permitted through PA DEP.



Meadow Creek Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Route 100 Regional Wastewater System

The Route 100 Regional Wastewater System consists of eight (8) conveyance pump stations, the Route 100 Regional WWTP rated for 600,000 gpd, and seven (7) effluent disposal systems. This wastewater system was designed to be upgraded in phases, which are further discussed below. The Byers Station, Eagle Manor, Ewing, Ewing West Vincent, Little Conestoga, Reserve at Eagle 1, Reserve at Eagle 2, and Windsor Ridge conveyance pump stations collect wastewater from residential customers throughout numerous developments and convey it to the WWTP for treatment (discussed in additional detail below). Following treatment, the effluent is distributed to the Reserve at Eagle, Eagle Hunt, Reserve at Waynebrooke, Windsor Ridge, Byers Station, or Ewing Tract effluent disposal system for storage, filtration, and disposal via spray or drip irrigation. This is completed under PA DEP WQM Permit No. 1086294.

Route 100 Regional WWTP Phase I:

Phase I had a capacity of 300,000 gpd and commenced operation in 2004. This phase provided wastewater service to residential customers in the Byers Station (including the Ewing Tract), Eagle Hunt, Reserve at Eagle, Reserve at Waynebrook, and Windsor Ridge developments. Phase I treatment was completed via a secondary treatment aerated lagoon.

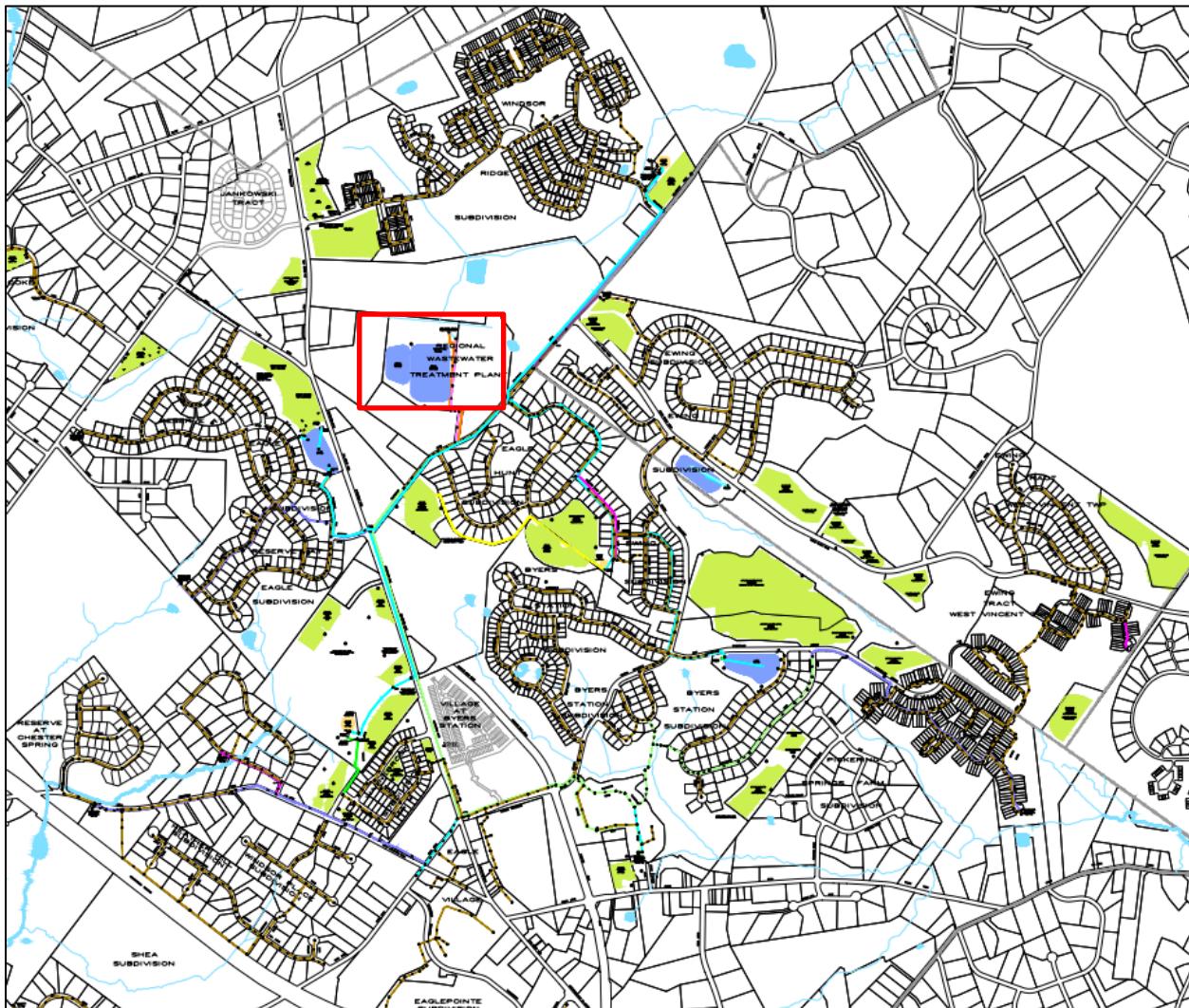
Route 100 Regional WWTP Phase II:

Phase II added an additional 300,000 gpd of capacity for a total of 600,000 gpd and commenced operation in 2015. This phase has already provided public sewer to the Eagle Manor, Windsor Place,

and Heather Hill developments, and there are plans for additional connections in upcoming years. The Phase II expansion of the WWTP included the addition of two (2) SBRs to allow for a higher level of treatment, specifically nitrogen reduction. Generally, two-thirds of the incoming wastewater is treated by the SBRs and the remaining third is treated by the secondary treatment aerated lagoon constructed in Phase I.

Route 100 Regional WWTP Phase III:

Phase III is currently undergoing design and permitting due to a new development that has been approved in the Township, the McKee/Fetter's Property. This property will exceed the Phase II capacity of the WWTP, so the developer is going to construct Phase III. This phase will add two (2) additional SBRs to the WWTP, allowing for 800,000 gpd of treatment capacity in the SBRs and the remaining 100,000 gpd by the secondary treatment aerated lagoon constructed in Phase I.



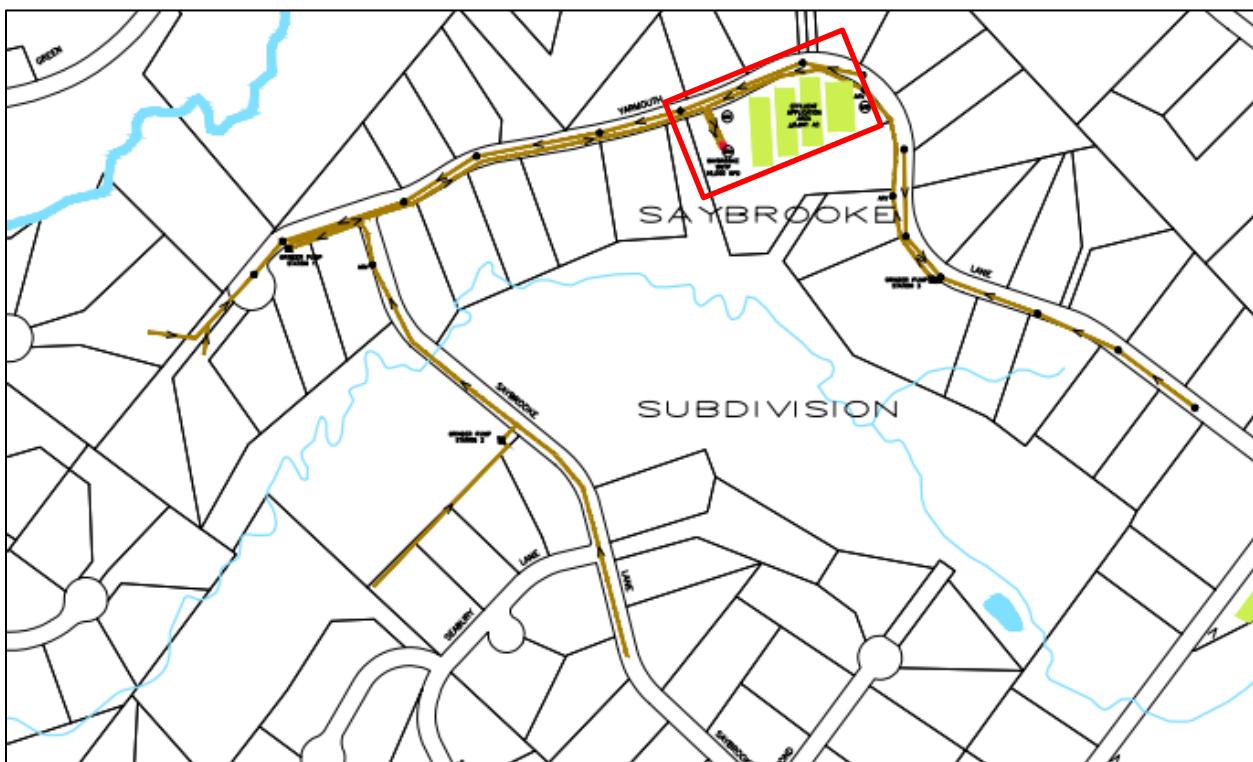
Route 100 Regional Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

Saybrooke Wastewater System

The Saybrooke Wastewater System consists of the Seabury, Saybrooke 1, and Saybrooke 2 conveyance pump stations and the Saybrooke WWTP, rated for 9,200 gpd, which collect sewage from residential customers within the Saybrooke development. The Seabury pump station collects sewage from five (5) homes along Seabury Lane and pumps it to the Saybrooke 2 pump station. The Saybrooke 2 pump station conveys sewage collected from residences on the western part of Yarmouth Lane and Seabury to the WWTP, while the Saybrooke 1 pump station collects and conveys sewage collected from residences on the eastern part of Yarmouth Lane. The treatment process consists of an SBR followed by sand filtration and an ultraviolet disinfection system. Following treatment, treated effluent is discharged to one (1) of four (4) subsurface absorption beds located adjacent to the WTWP property under PA DEP WQM Permit No. 1593413.



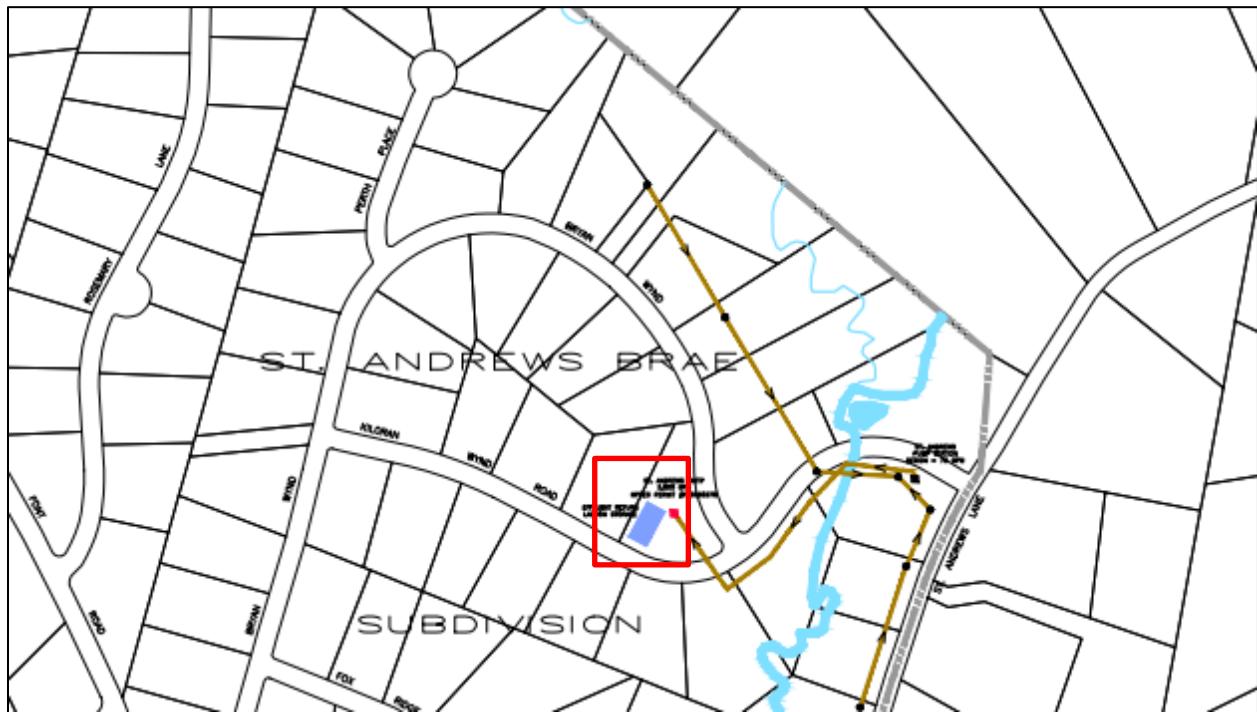
Saybrooke Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

St. Andrew's Brae Wastewater System

The St. Andrew's Brae Wastewater System consists of the St. Andrew's Brae conveyance pump station and the St. Andrew's Brae WWTP, rated for 3,600 gpd, which collect sewage from residential customers within the St. Andrew's Brae development. The treatment process consists of an equalization tank, an aeration tank, a clarifier, disinfection, sand filtration, and dechlorination. Following treatment, treated effluent is discharged directly into Black Horse Creek under PA DEP NPDES Permit No. PA0058378.



St. Andrew's Brae Wastewater System Map

NOTE: For additional detail, see Township Sewer Atlas in township office

NOTE: Red rectangle indicates WWTP

**Upper Uwchlan Municipal Authority
2021 BUDGET and FIVE YEAR PROJECTION**

	2018 Actual (audited)	2019 Actual (audited)	YTD 2020 (thru 10/31)	2020 Budget	\$ Over Budget	% of Budget	2021 Budget	2022 Budget	2023 Budget	2024 Budget	2025 Budget
Income											
300 Revenues											
06-340-000-000 Interest Income	17,267	143,373	36,981	80,000	(43,019)	-54%	43,500	60,000	50,000	50,000	30,000
06-365-000-000 Usage Fees - Residential	2,140,967	2,197,145	1,722,591	2,293,851	(571,260)	-25%	2,250,000	2,420,011	2,535,531	2,558,331	2,565,931
06-365-000-001 Usage Fees - Commercial	91,041	121,234	91,198	-	91,198	#DIV/0!	100,000	100,000	100,000	120,000	120,000
06-365-000-010 Connection Fees	31,256	25,875	51,571	1,622,250	(1,570,679)	-97%	4,677,750	2,315,250	819,000	157,500	157,500
Grant Revenue							465,000	-	-	-	-
06-370-000-000 Misc Revenue	-		6,348	1,000	5,348	535%	1,000	1,000	1,000	1,000	1,000
06-393-000-100 Proceeds from Long Term Debt	-	-	-	-	-	0%	-	-	-	-	-
06-395-000-000 Refund of Prior Year Expenditures	-	-	-	-	-	0%	-	-	-	-	-
06-395-000-100 Transfer from Sewer Fund	-	-	-	-	-	0%	-	-	-	-	-
Total Income	2,280,531	2,487,627	1,908,689	3,997,101	(2,088,412)	#DIV/0!	7,537,250	4,896,261	3,505,531	2,886,831	2,874,431
Expense											
General											
06-400-000-001 Administration	211,283	270,080	213,193	273,821	(60,628)	-22%	264,736	272,678	280,858	289,284	297,963
06-400-000-002 Authority Administrator	121,855	128,347	108,810	120,000	(11,190)	-9%	120,000	120,000	100,000	103,000	106,090
06-400-000-003 Professional Fees	7,533	-		12,000	(12,000)	-100%	5,000	12,000	13,000	14,000	14,000
06-400-000-200 Admin Supplies	-	150		1,000	(1,000)	-100%	1,000	1,030	1,061	1,093	1,126
06-400-000-341 Advertising	3,408	150	1,299	5,000	(3,701)	-74%	3,000	2,000	2,000	2,000	2,000
06-400-000-352 Insurance - Liability	4,661	3,575	4,112	5,370	(1,258)	-23%	5,370	5,531	5,697	5,868	6,044
06-400-000-355 Bank Fees	205	319	91	650	(559)	-86%	650	650	650	650	650
06-402-000-450 Audit Fees	5,300	5,550	7,300	5,450	1,850	34%	7,500	5,600	5,750	5,900	6,050
06-404-000-000 Legal Fees	15,202	16,663	4,622	25,000	(20,378)	-82%	25,000	25,000	25,000	25,000	25,000
06-406-000-100 Utility Billing Costs	8,079	12,217	12,608	12,000	608	5%	13,000	13,000	13,000	13,000	13,000
06-408-000-000 Engineering Fees	127,632	207,307	362,259	175,000	187,259	107%	150,000	150,000	150,000	150,000	150,000
Total General Expenses	505,158	644,358	714,294	635,291	79,003	12%	595,256	607,489	597,016	609,795	621,922
Building Expenses											
06-409-000-031 Lawn Care	1,194	-	-	5,000	(5,000)	-100%	5,000	5,000	5,000	5,000	5,000
06-409-000-032 Telephone	14,923	14,513	12,666	15,000	(2,334)	-16%	15,000	15,000	15,000	15,000	15,000
06-409-000-035 Insurance - Property	6,974	10,726	12,336	11,078	1,258	11%	15,000	15,750	16,538	17,364	18,233
06-409-000-036 Electric	250,538	233,860	159,007	250,000	(90,993)	-36%	250,000	250,000	250,000	250,000	250,000
06-409-000-037 Water	11,628	19,150	10,820	20,000	(9,180)	-46%	20,000	20,000	20,000	20,000	20,000
06-409-000-052 Building Maintenance & Repair	1,514	-	-	10,000	(10,000)	-100%	10,000	10,000	10,000	10,000	10,000
06-409-000-260 Building Supplies and Small Tools	259	16,011	-	15,000	(15,000)	-100%	15,000	15,000	15,000	15,000	15,000
06-409-000-427 Waste Disposal	-	250	-	-	-	-	-	-	-	-	-
Total Building Expenses	287,030	294,510	194,829	326,078	(131,249)	-40%	330,000	330,750	331,538	332,364	333,233
Operations											
06-420-000-020 Supplies	19,287	51,258	20,727	50,000	(29,273)	-59%	50,000	50,000	50,000	50,000	50,000
06-420-000-022 Chemicals	10,680	9,539	8,096	15,000	(6,904)	-46%	15,000	20,000	20,000	20,000	20,000
06-420-000-023 Propane & Fuel Oil	4,649	1,152	2,839	5,000	(2,161)	-43%	5,000	5,000	5,000	5,000	5,000
06-420-000-025 Maintenance & Repair	98,619	110,708	134,515	120,000	14,515	12%	120,000	120,000	120,000	120,000	120,000
06-420-000-030 Testing	42,973	39,736	26,847	35,000	(8,153)	-23%	35,000	35,000	35,000	35,000	35,000
06-420-000-031 Pump and Haul	50,600	70,632	79,293	50,000	29,293	59%	60,000	45,000	40,000	40,000	40,000
06-420-000-032 Vegetation Management	10,228	18,056	5,895	20,000	(14,105)	-71%	20,000	20,000	20,000	20,000	20,000
06-420-000-035 Permits	3,768	2,616	2,628	5,000	(2,372)	-47%	5,000	5,000	5,000	5,000	5,000
06-420-000-042 Dues and Memberships	2,100	10	75	-	75	#DIV/0!	-	-	-	-	-
06-420-000-045 Contracted Services	142,952	156,978	139,987	150,000	(10,014)	-7%	150,000	150,000	150,000	150,000	150,000
06-420-000-048 Misc Expenses	27,070	1,488	289	10,000	(9,711)	-97%	10,000	10,000	10,000	10,000	10,000
06-420-000-235 Vehicle Maintenance	3,910	39	-	2,000	(2,000)	-100%	2,000	2,000	2,000	2,000	2,000
06-420-000-329 PA One Call	1,541	1,254	1,548	2,500	(952)	-38%	2,500	2,500	2,500	2,500	2,500
Total Operations	418,377	463,466	422,739	464,500	(41,761)	-9%	474,500	464,500	459,500	459,500	459,500

**Upper Uwchlan Municipal Authority
2021 BUDGET and FIVE YEAR PROJECTION**

	2018 Actual (audited)	2019 Actual (audited)	YTD 2020 (thru 10/31)	2020			2021 Budget	2022 Budget	2023 Budget	2024 Budget	2025 Budget
				Budget	\$ Over Budget	% of Budget					
06-483-000-000 Capital Repair	-	20,113	94,659	50,000	44,659	89%	100,000	100,000	100,000	50,000	50,000
06-483-000-100 Capital Construction	-	-	-	1,500,000	-	0%	2,700,000	3,250,000	1,100,000	-	-
06-492-000-000 Start Up Costs	-	-	-	-	-	0%	-	-	-	-	-
06-493-000-083 Depreciation	87,514	101,079	-	100,000	(100,000)	-100%	100,000	100,000	100,000	100,000	100,000
Total Misc. Expenses	87,514	121,192	94,659	1,650,000	(55,341)	-3%	2,900,000	3,450,000	1,300,000	150,000	150,000
06-492-000-020 Transfer to Water Resource Protection Fu Tapping Fee Reimbursement	-	-	-	-	-	0%	-	-	-	-	-
-	-	-	-	-	-	0%	-	-	-	-	-
-	-	-	-	-	-	#DIV/0!	-	-	-	-	-
Total Expenses	1,298,079	1,523,526	1,426,521	3,075,869	(1,649,348)	-54%	4,299,756	4,852,739	2,688,054	1,551,659	1,564,655
Net Income before Operations Agreement	982,452	964,101	482,167	921,232	(439,065)	-48%	3,237,494	43,522	817,477	1,335,172	1,309,776
Other											
06-471-000-010 Operations Mgt Agree-2014 Bonds	364,339	280,631	-	-	-	#DIV/0!	-	-	-	-	-
06-471-000-020 Operations Mgt Agree-2019 Bonds	-	190,062	103,661	237,494	(133,833)	-56%	236,744	235,994	235,244	239,344	238,294
06-471-000-030 Operations Mgt Agree-2019A Bonds	-	48,198	65,130	335,300	(270,170)	0%	336,200	337,000	332,700	334,475	331,175
Total Other	364,339	518,891	168,791	572,794	(404,003)	-71%	572,944	572,994	567,944	573,819	569,469
Net Income after Operations Agreemer	618,113	445,210	313,377	348,438	(35,061)	-10%	2,664,550	(529,472)	249,533	761,353	740,307

**Upper Uwchlan Township Municipal Authority
2021 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2021 for each of the wastewater treatment systems maintained by the Township.

Eaglepointe Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2021 at this wastewater system.

Greenridge Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2021 at this wastewater system.

Lakeridge Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Ivy Stone Drive televising investigation and repairs of mains. ¹				1	LS	\$25,000.00	\$25,000.00
Total Estimated Cost:							\$25,000.00

Notes:

1. Department of Public Works noted depressions of roadway estimated cost of televising investigation and repairs of mains. Cost estimated, may change upon closer inspection.

**Upper Uwchlan Township Municipal Authority
2021 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2021 for each of the wastewater treatment systems maintained by the Township.

Marsh Harbour Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Replace SBR Blower ¹				1	LS	\$11,200.00	\$11,200.00
Total Estimated Cost:							\$11,200.00

Notes:

1. Estimated Cost as provided by the Department of Public Works.

Meadow Creek Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2021 at this wastewater system.

Route 100 Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Wet well coating (Spray Roq-125 mil thickness) ¹				300	SF	\$18.50	\$5,550.00
Spare pump for remote pump stations ²				3	LS	\$11,100.00	\$33,300.00
Rebuild/replace second influent pump ¹				1	LS	\$9,800.00	\$9,800.00
Storage lagoon aeration ³				1	LS	\$160,000.00	\$160,000.00
Total Estimated Cost:							\$208,650.00

Notes:

1. Surface area is approximate and may change upon closer inspection.
2. Spare pumps are required at the Windsor Ridge, Ewing West Vincent, and Reserve at Eagle pump station. Estimated cost per WWTP Operator.
3. WWTP Operator requested considering floating aerators in storage lagoon.

**Upper Uwchlan Township Municipal Authority
2021 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2021 for each of the wastewater treatment systems maintained by the Township.

Saybrooke Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2021 at this wastewater system.

St. Andrew's Brae Wastewater System

Equipment Type	Expected Service Life (years)	Condition Rating*	Estimated Remaining Useful Life (years)	Quantity	Unit	Unit Cost	Estimated Cost
Total Estimated Cost:							\$0.00

Notes:

1. There are no recommendations for replacement or capital maintenance of equipment for the year 2021 at this wastewater system.

Summary Capital Budget Replacement Costs

	2021	2022
UUTMA Wastewater Facility Equipment Recommendations		
Eaglepointe Wastewater System	\$0.00	
Greenridge Wastewater System	\$0.00	
Lakeridge Wastewater System	\$25,000.00	
Marsh Harbour Wastewater System	\$11,200.00	
Meadow Creek Wastewater System	\$0.00	
Route 100 Wastewater System	\$208,650.00	
Saybrooke Wastewater System	\$0.00	
St. Andrew's Brae Wastewater System	\$0.00	
Act 537 Plan Update (remaining)	\$38,000.00	
Byers Road Sanitary Sewer Extension (less H2O Grant)	\$785,000.00	
Milford Farms Sanitary Sewer Extension *	\$700,000.00	\$2,000,000.00
Meadow Creek Sanitary Sewer Extension *	\$750,000.00	\$1,250,000.00
Miscellaneous Budgetary Items		
System - UCC Code Updates	\$30,000.00	
Capital Equipment Purchases shared with Twp.	\$55,900.00	
System - Misc. Capital Purchases	\$35,000.00	
Total Cost:	\$2,638,750.00	

Notes: Capital Maintenance is defined by unanticipated or extraordinary expenses or equipment failure.

* Duration of project extends over two calendar years

GLOSSARY

Accrual Basis of Accounting – The basis of accounting in which revenues are recognized when they are earned and expenses are recognized when they are incurred.

Act 537 Plan – refers to the Pennsylvania Sewage Facilities Act, as amended, enacted on January 24, 1966 to correct existing sewage disposal problems and prevent future problems. The Act requires proper planning in all types of sewage disposal situations. Local municipalities are largely responsible for administering the Act 537 sewage disposal program.

Assets – Property owned by the Township that has a monetary value.

Balanced Budget – A budget is considered balanced when budgeted revenues equal or exceed budgeted expenditures.

CAFR – abbreviation for Comprehensive Annual Financial Report. The CAFR expands upon full GAAP financial statements by including a large amount of statistical information applicable to the municipality.

Capital assets – any tangible or intangible asset that has an initial useful life extending beyond a single reporting period. Assets such as land, easements, buildings, building improvements, vehicles, machinery, equipment, infrastructure, works of art or of historical significance are normally capital assets.

Capital Expenditures – Money expended to purchase capital assets.

Comprehensive Annual Financial Report – The official financial report of a municipal entity. It includes management's discussion and analysis, financial statements, supporting schedules and required supplementary information and statistics on the municipality.

DDB – “DDB” is an abbreviation for Dry Detention Basin. A dry detention basins' outlets have been designed to detain storm water runoff for a minimum period of time (ie. Usually 24 hours) to allow particles and pollutants to settle. Unlike wet ponds, they do not have a permanent pool of water.

Debt Limit – The State-set maximum amount of legally permitted outstanding net debt.

Delaware Valley Insurance Trust (DVIT) – A regional risk sharing pool providing property, liability and/or health coverage to its participating members which consists of municipalities in Southeastern Pennsylvania. The Trust was formed under the authority granted by the Pennsylvania Intergovernmental Cooperation Act and the Pennsylvania Political Subdivision Tort Claims Act.

The Township currently has all of its insurance coverage through DVIT.

Effluent – The outflow from a sewage treatment facility.

GLOSSARY, cont'd

Enterprise Funds – Proprietary fund type used to report an activity for which a fee is charted to external users for goods or services.

Fund – A fiscal and accounting tool with a self-balancing set of accounts to record revenues and expenditures.

Fund Balance – Fund balance is the net position of a governmental fund. It is equal to the difference between assets, liabilities, deferred outflows of resources and deferred inflows of resources. It is the “equity” of a governmental fund.

GAAP - GAAP is an abbreviation for Generally Accepted Accounting Principles which are the standard framework and guidelines used in financial accounting in the United States of America. The Financial Accounting Standards Board is responsible for issuing new accounting pronouncements.

GASB - GASB is an abbreviation for The Government Accounting Standards Board. GASB is the authoritative accounting and financial reporting standard –setting body for state and local governments.

General Fund - An accounting entity used to account for all revenue and expenditures applicable to the general operations of the departments of the Township, and to record all financial transactions not accounted for in another fund.

GFOA – GFOA is the abbreviation for The Government Finance Officers Association. The GFOA is a national professional organization comprised of people who are working in government finance on a state, local or federal level. The GFOA holds educational training seminars nationally and also provides information on “Best Practices”, as well as other services, to its members. State and local chapters provide local training on a monthly, quarterly or annual basis.

Impervious Coverage - Impervious coverage refers to any man-made surfaces, along with compacted soil, that water cannot penetrate. Examples, are asphalt, concrete, and rooftops.

LUAR – is the abbreviation for a Land Use Assumptions Report.

Modified Accrual Basis of Accounting – an accounting method that combines elements of the two basic accounting methods, cash basis and accrual basis. Revenues are recognized when earned, measurable and available. Expenses are recognized when the liability is incurred.

MS-4 – Under the 1987 Clean Water Act Amendments, the U.S. EPA developed new regulations to address storm water that might impact water quality. These new “Municipal Separate Storm Sewer System” (MS4) regulations were established by the EPA and are administered in Pennsylvania by the Pennsylvania Department of Environmental Protection (“DEP” or “PADEP”).

NPDES permit – National Pollutant Discharge Elimination System permit. Permits are issued by PADEP.

GLOSSARY, cont'd

PADEP – Pennsylvania Department of Environmental Protection

PEMA – Pennsylvania Emergency Management Agency

Scheduled interest - is the amount of interest that would be paid by following the bank's amortization schedule. If the Township pays additional principal amounts during the remaining years of the loan, the actual amount of interest paid will be less.

Second Class Township – a second class township is defined as having a population of less than 300 inhabitants per square mile and in Pennsylvania they are governed by the Second Class Township Code, enacted by the state legislature on May 1, 1933, as amended.

WWTF – Waste Water Treatment facility