



AGENDA

December 17, 2019

7:30 p.m.

LOCATION: Temporary Township Administration Office
415 Eagleview Boulevard, Suite 116, Exton 19341

Packet Page #

- I. Call to Order
- II. Approval of Minutes: November 12, 2019 2
- III. Approval of Payments: November, December 2019 4
- IV. Authority Administration Reports
 - A. Clean Water, Inc. Monthly Report 16
 - B. ARRO Consulting Monthly Report 18
 - C. Authority Administrator's Report 40
 - D. Public Works Department Report 41
- V. Presentation of the Draft 2020 Operating and Capital Budgets 44
- VI. Open Session
- VII. Next Meeting Date: January 28, 2020 ~ 7:30 p.m.

Location: Temporary Township Administration Office
415 Eagleview Boulevard, Suite 116, Exton 19341
- VIII. Adjournment



MEETING MINUTES

November 12, 2019

7:30 PM

DRAFT

In Attendance: H. Harper, Vice-Chairman, B. Watts, Member, L. Schack, Member, G. Matthew Brown, P.E., DEE, Authority Administrator, David Schlott, Jr, P.E., ARRO Consulting, Inc.

Call to Order

H. Harper called the meeting to order at 7:31 PM.

Approval of Minutes

Draft minutes of the September 24, 2019 meeting were presented. B. Watts made a motion to approve the minutes as submitted. L. Schack seconded. It was so moved.

Approval of Payments

Following questions and a brief discussion, a motion was made by B. Watts to approve the payments for October 2019 (payments made in October per established protocol). L. Schack seconded. It was so moved. It was noted that the November payments would be made the fourth week of the month in accordance with the Authority established protocol.

Route 100 Wastewater Treatment Plant Expansion Agreement

M. Brown noted that after two years the Agreement was ready for Authority action. He noted there was an issue that needed resolution regarding the language defining a right of way to be granted by the Homeowner's Association of the Reserve at Eagle. The language was in an exhibit and did not provide for an exclusive easement to be granted to the Township. However, the Authority could approve the Agreement subject to the developer (McKee) obtaining the satisfactory exclusive easement. M. Brown noted also that changes recommended by D. Carlson and L. Schack had been included in the final draft of the Agreement.

Following a brief discussion, L. Schack moved to authorize the Chairman or Vice-Chairman to execute the Agreement contingent upon the developer obtaining the required exclusive easement for the Township. B. Watts seconded. It was so moved.

Open Session

No public comment was made. M. Brown requested permission for the Authority to allow the Chairman or Vice-Chairman to execute a state grant application for \$500,000 to be used on the Byers Road main extension project. L. Schack moved to do so; seconded by B. Watts. It was so moved

Next Meeting Date: December 17, 2019 - 7:30 PM

H. Harper noted the date, time and location (Township temporary facilities) of the next meeting of the Authority.

Adjournment

There being no further business to be brought before the Authority, B. Watts moved, seconded by L. Schack to adjourn the meeting at 7:50 PM.

Respectfully submitted,

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

December 13, 2019
11:45 AM

Upper Uwchlan Township
Check Register By Check Id

Page No: 1

Range of Checking Accts: MA MERIDIAN to MA MERIDIAN Range of Check Ids: 2066 to 2082
Report Type: All Checks Report Format: Super Condensed Check Type: Computer: Y Manual: Y Dir Deposit: Y

Check #	Check Date	Vendor	Amount Paid	Reconciled/Void	Ref Num
2066	12/17/19	ALSGROUP ALS GROUP USA, CORP	316.60		2143
2067	12/17/19	AQUAP010 AQUA PA	994.00		2143
2068	12/17/19	ARROC010 ARRO CONSULTING, INC.	38,686.54		2143
2069	12/17/19	BLOOMGLE BLOOMING GLEN CONTRACTORS	33,065.28		2143
2070	12/17/19	BUCKL010 BUCKLEY, BRION, MCGUIRE, MORRI	7,310.60		2143
2071	12/17/19	CHRISFRA FRANTZ, CHRISTOPHER	105.00		2143
2072	12/17/19	CLEANWAT CLEAN WATER, INC.	6,355.00		2143
2073	12/17/19	DECKM010 DECKMAN MOTOR & PUMP, INC	6,750.00		2143
2074	12/17/19	EASTENVI EASTERN ENVIRONMENTAL CONTRACT	8,807.54		2143
2075	12/17/19	INKS0010 INK'S DISPOSAL SERVICE, INC.	1,200.00		2143
2076	12/17/19	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC	3,574.39		2143
2077	12/17/19	MJREIDER M. J. REIDER ASSOCIATES, INC.	815.50		2143
2078	12/17/19	PECO0010 PECO	15,720.00		2143
2079	12/17/19	PENNS080 PENNSYLVANIA ONE CALL	88.44		2143
2080	12/17/19	PRED0010 PREDOC	1,869.33		2143
2081	12/17/19	VERIZFIO VERIZON	142.40		2143
2082	12/17/19	VERIZFIO VERIZON	1,075.00		2143

Report Totals	<u>Paid</u>	<u>Void</u>	<u>Amount Paid</u>	<u>Amount Void</u>
Checks:	17	0	126,875.62	0.00
Direct Deposit:	0	0	0.00	0.00
Total:	17	0	126,875.62	0.00

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Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 1

Batch Id: LHAINES Batch Type: C Batch Date: 12/17/19 Checking Account: MA MERIDIAN G/L Credit: Expenditure G/L Credit
Generate Direct Deposit: N

Check No.	Check Date	Vendor # Name	Payment Amt	Street 1 of Address to be printed on Check	Charge Account	Account Type	Status	Seq	Acct
PO #	Enc Date	Item Description		Description					
12/17/19 ALSGROUP ALS GROUP USA, CORP									
19-01826	12/17/19	1 rt 100 monitoring wells	316.60	P.O. BOX 975444	06-420-000-030	Expenditure	Aprv	24	1
			316.60	Testing					
12/17/19 AQUAP010 AQUA PA									
19-01824	12/17/19	1 119 prescott drive	18.00	PO BOX 70279	06-409-000-037	Expenditure	Aprv	1	1
				Water					
19-01824	12/17/19	2 100 milford	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	2	1
				Water					
19-01824	12/17/19	3 100 prescott drive	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	3	1
				Water					
19-01824	12/17/19	4 meadow creek lane	21.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	4	1
				Water					
19-01824	12/17/19	5 308 flagstone road	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	5	1
				Water					
19-01824	12/17/19	6 1 prospect hill blvd	55.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	6	1
				Water					
19-01824	12/17/19	7 528 walter court	28.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	7	1
				Water					
19-01824	12/17/19	8 325 fellowship road	600.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	8	1
				Water					
19-01824	12/17/19	9 658 collingwood terrace	55.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	9	1
				Water					
19-01824	12/17/19	10 241 fellowship road	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	10	1
				Water					
19-01824	12/17/19	11 29 yarmouth lane	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	11	1
				Water					
19-01824	12/17/19	12 425 hemlock	55.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	12	1
				Water					
19-01824	12/17/19	13 2680 primrose court	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	13	1
				Water					
19-01824	12/17/19	14 381 lcr	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	14	1
				Water					
19-01824	12/17/19	15 111 dorothy lane	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	15	1
				Water					
19-01824	12/17/19	16 1120 sunderland ave	18.00	06-409-000-037	06-409-000-037	Expenditure	Aprv	16	1
			994.00	Water					
12/17/19 ARROC010 ARRO CONSULTING, INC.									
19-01825	12/17/19	1 project 17000.00 consulting	6,596.95	108 WEST AIRPORT ROAD	06-408-000-000	Expenditure	Aprv	17	1
				Engineering Fees					
19-01825	12/17/19	2 project 9310.32 ww syst admin	9,784.75	06-400-000-002	06-400-000-002	Expenditure	Aprv	18	1
				Authority Administrator					
19-01825	12/17/19	3 project 10270.48 byers design	1,094.00	06-408-000-000	06-408-000-000	Expenditure	Aprv	19	1
				Engineering Fees					
19-01825	12/17/19	4 project 10270.53 lakeridge	10,926.64	06-408-000-000	06-408-000-000	Expenditure	Aprv	20	1
				Engineering Fees					

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Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 2

Check No.	Check Date	Vendor # Name	Payment Amt	Street 1 of Address to be printed on Check	Charge Account	Account Type	Status	Seq	Acct
PO #	Enc Date	Item Description		Description					
19-01825	12/17/19	5 project 10270.64 milford farms	6,472.50	06-408-000-000	Engineering Fees	Expenditure	Aprv	21	1
19-01825	12/17/19	6 project 10270.71 act 537 plan	2,434.50	06-408-000-000	Engineering Fees	Expenditure	Aprv	22	1
19-01825	12/17/19	7 project 17000.01 twp admin	1,377.20	06-408-000-000	Engineering Fees	Expenditure	Aprv	23	1
			<u>38,686.54</u>						
	12/17/19	BLOOMGLE BLOOMING GLEN CONTRACTORS		901 MINSI TRAIL					
19-01827	12/17/19	1 lakeridge-holding tank replace	33,065.28	06-483-000-000	Capital Repair	Expenditure	Aprv	25	1
			<u>33,065.28</u>						
	12/17/19	BUCKLO10 BUCKLEY, BRION, MCGUIRE, MORRI		118 W. MARKET STREET					
19-01828	12/17/19	1 november sewer collections	7,310.60	06-404-000-000	Legal Fees	Expenditure	Aprv	26	1
			<u>7,310.60</u>						
	12/17/19	CHRISFRA FRANTZ, CHRISTOPHER		PO BOX 557					
19-01832	12/17/19	1 nov - general representation	105.00	06-404-000-000	Legal Fees	Expenditure	Aprv	30	1
			<u>105.00</u>						
	12/17/19	CLEANWAT CLEAN WATER, INC.		170 DALLAS STREET					
19-01829	12/17/19	1 monthly operations wwtp	6,355.00	06-420-000-045	Contracted Services	Expenditure	Aprv	27	1
			<u>6,355.00</u>						
	12/17/19	DECKM010 DECKMAN MOTOR & PUMP, INC		49 W. FRONT STREET					
19-01830	12/17/19	1 rebuilt flygt pump - prescott	6,750.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	28	1
			<u>6,750.00</u>						
	12/17/19	EASTENVI EASTERN ENVIRONMENTAL CONTRACT		6304 5TH STREET					
19-01831	12/17/19	1 lakeridge - electrical	8,807.54	06-483-000-000	Capital Repair	Expenditure	Aprv	29	1
			<u>8,807.54</u>						
	12/17/19	INKS0010 INK'S DISPOSAL SERVICE, INC.		564 NORTH MANOR ROAD					
19-01833	12/17/19	1 eaglepointe cleaned filters	1,200.00	06-420-000-025	Maintenance & Repair	Expenditure	Aprv	31	1
			<u>1,200.00</u>						
	12/17/19	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC		920 SOUTH BOLMAR STREET					
19-01835	12/17/19	1 route 100	77.63	06-420-000-031	Pump & Haul	Expenditure	Aprv	41	1
19-01835	12/17/19	2 route 100	77.63	06-420-000-031	Pump & Haul	Expenditure	Aprv	42	1
19-01835	12/17/19	3 eaglepointe	404.69	06-420-000-031	Pump & Haul	Expenditure	Aprv	43	1
19-01835	12/17/19	4 lakeridge	2,163.15	06-420-000-031	Pump & Haul	Expenditure	Aprv	44	1

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
19-01835	12/17/19	5 marsh harbor	851.29	06-420-000-031 Pump & Haul	Expenditure	Aprv	45	1
			<u>3,574.39</u>					
	12/17/19	MJREIDER M. J. REIDER ASSOCIATES, INC.		107 ANGELICA STREET				
19-01834	12/17/19	1 st. andrews brae	119.00	06-420-000-030 Testing	Expenditure	Aprv	32	1
19-01834	12/17/19	2 lakeridge	108.50	06-420-000-030 Testing	Expenditure	Aprv	33	1
19-01834	12/17/19	3 marsh harbor	122.50	06-420-000-030 Testing	Expenditure	Aprv	34	1
19-01834	12/17/19	4 greenridge	108.50	06-420-000-030 Testing	Expenditure	Aprv	35	1
19-01834	12/17/19	5 lakeridge	42.00	06-420-000-030 Testing	Expenditure	Aprv	36	1
19-01834	12/17/19	6 reserve,eagle hunt,byers,ewing	56.00	06-420-000-030 Testing	Expenditure	Aprv	37	1
19-01834	12/17/19	7 st. andrews brae	108.50	06-420-000-030 Testing	Expenditure	Aprv	38	1
19-01834	12/17/19	8 saybrooke	108.50	06-420-000-030 Testing	Expenditure	Aprv	39	1
19-01834	12/17/19	9 saybrooke	42.00	06-420-000-030 Testing	Expenditure	Aprv	40	1
			<u>815.50</u>					
	12/17/19	PECO0010 PECO		PO BOX 37629				
19-01836	12/17/19	1 304 fellowship road	210.00	06-409-000-036 Electric	Expenditure	Aprv	46	1
19-01836	12/17/19	2 2500 eagle farms road	700.00	06-409-000-036 Electric	Expenditure	Aprv	47	1
19-01836	12/17/19	3 seabury lane	35.00	06-409-000-036 Electric	Expenditure	Aprv	48	1
19-01836	12/17/19	4 primrose court	960.00	06-409-000-036 Electric	Expenditure	Aprv	49	1
19-01836	12/17/19	5 100a prescott drive	350.00	06-409-000-036 Electric	Expenditure	Aprv	50	1
19-01836	12/17/19	6 meadow creek lane	175.00	06-409-000-036 Electric	Expenditure	Aprv	51	1
19-01836	12/17/19	7 301 pottstown pike	215.00	06-409-000-036 Electric	Expenditure	Aprv	52	1
19-01836	12/17/19	8 kristines/milford	150.00	06-409-000-036 Electric	Expenditure	Aprv	53	1
19-01836	12/17/19	9 711 dorlan road	275.00	06-409-000-036 Electric	Expenditure	Aprv	54	1
19-01836	12/17/19	10 111 dorothy lane	75.00	06-409-000-036 Electric	Expenditure	Aprv	55	1
19-01836	12/17/19	11 dorlan drive	1,375.00	06-409-000-036 Electric	Expenditure	Aprv	56	1
19-01836	12/17/19	12 381 lcr	275.00	06-409-000-036 Electric	Expenditure	Aprv	57	1
19-01836	12/17/19	13 milford road	30.00	06-409-000-036 Electric	Expenditure	Aprv	58	1

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Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 4

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
19-01836	12/17/19	14 st. andrews road	45.00	06-409-000-036 Electric	Expenditure	Aprv	59	1
19-01836	12/17/19	15 park road	1,350.00	06-409-000-036 Electric	Expenditure	Aprv	60	1
19-01836	12/17/19	16 55 pottstown pike	650.00	06-409-000-036 Electric	Expenditure	Aprv	61	1
19-01836	12/17/19	17 yarmouth lane	290.00	06-409-000-036 Electric	Expenditure	Aprv	62	1
19-01836	12/17/19	18 sunderland ave	675.00	06-409-000-036 Electric	Expenditure	Aprv	63	1
19-01836	12/17/19	19 kiloran wynd	175.00	06-409-000-036 Electric	Expenditure	Aprv	64	1
19-01836	12/17/19	20 flagstone road	850.00	06-409-000-036 Electric	Expenditure	Aprv	65	1
19-01836	12/17/19	21 yarmouth lane	35.00	06-409-000-036 Electric	Expenditure	Aprv	66	1
19-01836	12/17/19	22 140 pottstown pike	175.00	06-409-000-036 Electric	Expenditure	Aprv	67	1
19-01836	12/17/19	23 275 fellowship road	5,500.00	06-409-000-036 Electric	Expenditure	Aprv	68	1
19-01836	12/17/19	24 heron hill drive	125.00	06-409-000-036 Electric	Expenditure	Aprv	69	1
19-01836	12/17/19	25 indian springs drive	75.00	06-409-000-036 Electric	Expenditure	Aprv	70	1
19-01836	12/17/19	26 yarmouth lane	75.00	06-409-000-036 Electric	Expenditure	Aprv	71	1
19-01836	12/17/19	27 cassandra lane	175.00	06-409-000-036 Electric	Expenditure	Aprv	72	1
19-01836	12/17/19	28 fellowship road	700.00	06-409-000-036 Electric	Expenditure	Aprv	73	1
			15,720.00					
12/17/19 PENNS080 PENNSYLVANIA ONE CALL				P.O. BOX 640407				
19-01837	12/17/19	1 monthly activity fees	88.44	06-420-000-329 PA One Call	Expenditure	Aprv	74	1
			88.44					
12/17/19 PREDO010 PREDOC				14 CHRISEVYN LANE				
19-01838	12/17/19	1 prescott pump station	730.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	75	1
19-01838	12/17/19	2 heron hill pump station	1,139.33	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	76	1
			1,869.33					
12/17/19 VERIZFIO VERIZON				PO BOX 15124				
19-01839	12/17/19	1 internet	142.40	06-409-000-032 Telephone	Expenditure	Aprv	77	1
			142.40					
12/17/19 VERIZFIO VERIZON				PO BOX 15124				
19-01840	12/17/19	1 monthly pump station phones	1,075.00	06-409-000-032 Telephone	Expenditure	Aprv	78	1

December 13, 2019
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Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 5

Check No.	Check Date	Vendor # Name		Street 1 of Address to be printed on Check
PO #	Enc Date	Item Description	Payment Amt	Charge Account Description

1,075.00

	<u>Count</u>	<u>Line Items</u>	<u>Amount</u>
Checks:	17	78	126,875.62

There are NO errors or warnings in this listing.

Upper Uwchlan Township Municipal Authority

Balance Sheet

As of November 30, 2019

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ASSETS

	<u>Cash</u>		
06-100-000-010	General Checking - Fulton Bank	\$	108,189.48
06-100-000-015	General Checking - Meridian Bank		240,659.46
06-100-000-020	General Checking - WIPP		80,303.32
06-106-000-002	Connection Fee Account		347,503.31
06-110-000-100	Fulton Bank Bond Proceeds - ICS		-
06-110-000-200	Fulton Bank Bond Proceeds - MMDA		5,317,458.21
	Total Cash		6,094,113.78

PSDLAF Investments:

06-109-000-003	CD Program		-
06-109-000-004	Full Flex		183.84
			183.84

Total Investments **183.84**

Accounts Receivable

06-145-000-001	Usage Fees Receivable		280,273.23
06-145-000-002	Capital Assessment Receivable		
06-147-000-000	Misc Accounts Receivable		546.00
	Total Accounts Receivable		280,819.23

Other Current Assets

06-130-000-001	Due from MA Capital Fund		-
06-130-000-002	Due from UUT General Fund		-
06-130-000-003	Due from UUT Capital Fund		-
06-130-000-004	Due from Solid Waste Fund		3,457.58
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		3,457.58

Fixed Assets

06-162-000-001	Fixed Assets		1,537,175.65
06-162-000-050	Accumulated Depreciation		(402,814.94)
06-163-000-100	Phase II Construction Project (CIP)		234,000.00
	Total Fixed Assets		1,368,360.71

Other Long Term Assets

06-162-000-002	Excess Treatment Capacity		1,649,293.24
	Total Other Long Term Assets		1,649,293.24

Total Assets **\$ 9,396,228.38**

Upper Uwchlan Township Municipal Authority
Balance Sheet
As of November 30, 2019

LIABILITIES AND FUND BALANCE

<u>Current Liabilities</u>		
06-200-000-020	Accounts Payable	-
06-230-000-010	Due to UUT General Fund	44,241.00
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	10,182.92
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	37,309.34
06-241-000-100	Retainage on Phase II Construction Project	-
06-245-000-000	Due to Customers	275.00
	Total Current Liabilities	5,297,564.33
<u>Equity</u>		
06-272-000-001	Opening Bal Equity	753,500.35
06-272-000-002	Retained Earnings	3,604,237.58
	Current Period Net Income (Loss)	(259,073.88)
	Total Equity	4,098,664.05
	Total Fund Balance	4,098,664.05
	Total Liabilities & Fund Balance	\$ 9,396,228.38

**Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures**

For the Period Ended November 30, 2019

12

	Actual 2019 YTD	Budget 2019	% of Budget	Actual 2018 <i>(Audited)</i>	Budget 2018
REVENUES					
06-340-000-000 Interest Income	133,641.96	15,000.00	890.9%	17,267.00	7,300.00
06-365-000-000 Usage Fees Residential	2,065,921.15	2,139,571.00	96.6%	2,140,967.00	2,027,640.00
06-365-000-001 Usage Fees Commercial	111,803.50	100,000.00	111.8%	91,041.00	101,014.00
06-365-000-010 Tapping Fees	25,875.00	2,543,000.00	1.0%	31,256.00	2,176,350.00
06-370-000-000 Misc revenue	-	1,000.00	0.0%	-	1,000.00
06-393-000-100 Proceeds from Long Tern Debt	-	5,393,221.00	0.0%	-	-
06-395-000-000 Refund of Prior Year Expenditures	-	-	#DIV/0!	-	-
06-395-000-100 Transfer from Sewer Fund	-	-	#DIV/0!	-	-
TOTAL REVENUES	\$ 2,337,241.61	\$ 10,191,792.00	22.9%	\$ 2,280,531.00	\$ 4,313,304.00
EXPENDITURES					
<u>General:</u>					
06-400-000-001 Administration	250,843.18	241,246.00	104.0%	211,283.00	234,219.00
06-400-000-002 Authority Adminrator	118,470.47	120,000.00	98.7%	121,855.00	120,000.00
06-400-000-003 Professional Fees	-	12,000.00	0.0%	7,533.00	12,000.00
06-400-000-200 Admin Supplies	149.68	1,000.00	15.0%	-	1,000.00
06-400-000-341 Advertising	149.93	5,000.00	3.0%	3,408.00	1,000.00
06-400-000-352 Insurance - Liability	3,575.25	5,545.00	64.5%	4,661.00	2,337.00
06-400-000-355 Bank Fees	317.00	650.00	48.8%	205.00	650.00
06-402-000-450 Audit Fees	5,550.00	5,450.00	101.8%	5,300.00	5,200.00
06-404-000-000 Legal Fees	7,673.04	20,800.00	36.9%	15,202.00	20,800.00
06-406-000-100 Utility Billing Costs	10,904.17	10,000.00	0.0%	8,079.00	18,000.00
06-408-000-000 Engineering Fees	382,446.04	150,000.00	255.0%	127,632.00	150,000.00
06-408-000-100 Reimbursable Engineering Fees	-	-	#DIV/0!	-	-
	780,078.76	571,691.00	136.5%	505,158.00	565,206.00
<u>Building Expenses:</u>					
06-409-000-031 Lawn Care	-	5,000.00	0.0%	1,194.00	7,500.00
06-409-000-032 Telephone	13,295.58	15,000.00	88.6%	14,923.00	15,000.00
06-409-000-035 Insurance	10,725.75	8,756.00	122.5%	6,974.00	9,297.00
06-409-000-036 Electric	210,299.51	250,000.00	84.1%	250,538.00	250,000.00
06-409-000-037 Water	17,680.44	25,000.00	70.7%	11,628.00	25,000.00
06-409-000-052 Bldg Maint & Repair	-	10,000.00	0.0%	1,514.00	8,000.00
06-409-000-260 Building Supplies & Small Tools	16,010.63	5,000.00	320.2%	259.00	15,000.00
06-409-000-427 Waste Disposal	250.00	-	#DIV/0!	-	-
	268,261.91	318,756.00	84.2%	287,030.00	329,797.00
<u>Operations:</u>					
06-420-000-020 Supplies	50,824.71	20,000.00	254.1%	19,287.00	20,000.00
06-420-000-022 Chemicals	9,539.38	15,000.00	63.6%	10,680.00	15,450.00
06-420-000-023 Propane and Fuel Oil	1,151.74	5,000.00	23.0%	4,649.00	2,575.00
06-420-000-025 Maintenance & Repair	81,341.48	120,000.00	67.8%	98,619.00	120,000.00
06-420-000-030 Testing	33,722.79	40,000.00	84.3%	42,973.00	40,000.00
06-420-000-031 Pump & Haul	53,959.22	50,000.00	107.9%	50,600.00	50,000.00
06-420-000-032 Vegetation Management	18,055.61	20,000.00	90.3%	10,228.00	20,000.00
06-420-000-035 Permits	2,616.00	5,000.00	52.3%	3,768.00	5,000.00
06-420-000-042 Dues and Memberships	10.00	2,500.00	0.4%	2,100.00	2,500.00
06-420-000-045 Contracted Services	142,882.62	135,000.00	105.8%	142,952.00	135,000.00
06-420-000-048 Misc expenses	1,489.35	10,000.00	14.9%	27,070.00	5,000.00
06-420-000-235 Vehicle Maintenance	38.94	2,000.00	1.9%	3,910.00	2,000.00
06-420-000-329 PA One Call	1,165.30	2,500.00	46.6%	1,541.00	2,500.00
	396,797.14	427,000.00	92.9%	418,377.00	420,025.00

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended November 30, 2019
(Continued)

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		Actual 2019 YTD	Budget 2019	% of Budget	Actual 2018 <i>(unaudited)</i>	Budget 2018
	<u>Capital:</u>					
06-483-000-000	Capital Repair	632,286.48	50,000.00	1264.6%	-	30,000.00
06-483-000-100	Capital Construction	-	1,500,000.00	0.0%	-	-
06-493-000-083	Depreciation	-	50,000.00	0.0%	87,514.00	36,000.00
		632,286.48	1,600,000.00	39.5%	87,514.00	66,000.00
Total Expenditures before Operations Agreement and Transfers		\$ 2,077,424.29	\$ 2,917,447.00	71.2%	\$ 1,298,079.00	\$ 1,381,028.00
Net Income before Operations Agreement and Transfers		\$ 259,817.32	\$ 7,274,345.00	3.6%	982,452.00	2,932,276.00
	<u>Other:</u>					
06-471-000-010	Operations Agreement Fee to UUT-2014 Bonds	280,630.75	369,213.00	76.0%	364,339.00	364,463.00
06-471-000-020	Operations Agreement Fee to UUT-2019 Bonds	190,062.30	190,681.00	99.7%	-	50,000.00
06-471-000-030	Operations Agreement Fee to UUT-2019A Bonds	48,198.15	-	#DIV/0!	-	-
		518,891.20	559,894.00	92.7%	364,339.00	414,463.00
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		\$ 2,596,315.49	\$ 3,477,341.00	74.7%	\$ 1,662,418.00	\$ 1,795,491.00
OPERATING INCOME		\$ (259,073.88)	\$ 6,714,451.00	-3.9%	\$ 618,113.00	\$ 2,517,813.00

Upper Uwchlan Township Municipal Authority
Sewer Billings

Month to Month Change in Receivables and Collections

	November 2019	October 2019	Change
Beginning Receivable Balance	265,481.68	265,481.68	-
<u>Billings:</u>			
Calculated charges billed	2,228,538.22	2,228,538.22	-
Billing adjustments	15,653.95	14,326.07	(1,327.88)
Late payment penalty	81,817.48	82,909.30	1,091.82
Adjustments	(6,933.38)	(5,640.47)	1,292.91
	2,584,557.95	2,585,614.80	1,056.85
<u>Less:</u>			
Collections*	2,191,266.57	1,822,404.16	(368,862.41)
 Receivable balance, month end	 393,291.38	 763,210.64	 369,919.26

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)

	11/30/2018	12/31/2018	4/30/2019	5/31/2019	6/30/2019	7/31/2019	8/31/2019	9/30/2019	10/31/2019	11/30/2019
Number of delinquent accounts	169	148	110	176	151	131	207	160	133	180
Total delinquent balance	235,178	206,093	173,778	221,151	211,591	196,678	224,917	213,107	181,653	208,769

2019 Payment Schedule

	<u>Bills Mailed</u>	<u>Bills Mailed</u>	<u>Payment Due</u>
First quarter	1/31/2018	1/31/2019	2/28/2019
Second quarter	4/30/2018	4/30/2019	5/31/2019
Third quarter	7/31/2018	7/31/2019	8/31/2019
Fourth quarter	10/31/2018	10/31/2019	11/30/2019

December 12, 2019

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

Spray and drip does continue as conditions allow. We had good and bad news regarding the pump at Reserve, the one that was sent to Deckmans for evaluation. First the bad news. This was an original pump that would have cost more to rebuild than a new one, nearly \$19,000.00. The good news is that Deckmans has a rebuilt pump that is suitable for the station at 1/3 that cost. Since this station is getting completely rebuilt in a relative short time, that is the course we will take.

Eaglepointe

Plant is performing fine. We had Inks come in and do some additional cleaning of the sand filters. McGovern was called to remove sludge an additional time as well. Keep your fingers crossed, but it has been some time since something unusual was picked up in the basket.

St. Andrews

I replaced a chem feed tube that runs from the control building to the aeration tank. This is used for phos removal. Guessing it just built up with deposits. I also pulled and replaced the equalization pump. The old one will be sent to Deckmans for rebuild or replacement.

Marsh Harbour

Plant is running fine. The new permit has been issued for this facility.

Lakeridge

Plant is running fine. We have already hauled out of the new tank once. I am sure it was much easier for them to haul from there than running hoses into the building. I am pretty sure the only major item left to do is the repaving of the disturbed area. Guessing that is weather dependent.

Saybrooke

Facility is running fine. One of the two effluent dosing pumps failed. After it was pulled and swapped out it was discovered that the base for the rail system was loose. I feel this somehow damaged the shaft of the pump. Predoc restored the base and set the new pump in place. The old pump was sent to Deckmans for evaluation.

Greenridge

We continue to drip. The lagoon looks great as far as clarity goes. Levels are fine.

.

That is all for now, please call with any questions. Merry Christmas!

Respectfully,

Brian Norris



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

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MEMORANDUM

TO: Upper Uwchlan Township Municipal Authority

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

RE: Project Status Report

PROJECT NO.: 17000.00

DATE: December 11, 2019

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 is continuing.

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 (SFPM) 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 SFPM 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 SFPM 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 SFPM 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 SFPM package.

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.

Nothing new to report.

Eagle Hunt

Nothing new to report.

Eaglepointe

Wastewater Treatment Plant and Sanitary Sewer System:

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

ARRO and UUT Public Works are working together to locate the source of rag-dumping into the Eaglepointe sanitary sewer system that are clogging the WWTP's influent pumps. On June 27, 2019 UUT Public Works found rags in an Eaglepointe sanitary sewer system manhole only Wawa uses. ARRO discussed the rag issue with the Wawa store manager. ARRO also sent correspondence to the Wawa corporate office and has received written and verbal responses from Wawa that they are endeavoring to correct the issue at their store. On August 20, 2019 ARRO received an email from Wawa that they have retained an outside engineer to design an in-line tank to catch rags and articles of clothing that have been found in the WWTP's influent pump station. On August 20, 2019 ARRO received an email from Wawa that they have retained an outside engineer to design an in-line tank to catch rags and articles of clothing that have been found in the WWTP's influent pump station. On August 27, 2019 ARRO received an email from Wawa stating they have retained Keystone Engineering to design an in-line tank to catch rags and articles of clothing before they get into the Eaglepointe sanitary sewer system. ARRO is awaiting drawings for review. On October 10, 2019 ARRO received Keystone Engineering's Wawa site design plans depicting an in-line septic tank to catch rags before they can enter the Eaglepointe sanitary sewer system. ARRO reviewed the drawings and transmitted comments back to Keystone. ARRO reviewed and commented on the revised drawings for the in-line septic tank and piping at the Wawa site submitted by Keystone Engineering on October 23, 2019.

ARRO provided responses to December 9, 2019 contractor questions regarding the proposed Keystone Engineering in-line septic tank and piping at the Wawa site.

CarSense: Onsite sanitary sewer installation is complete and tested. Wastewater flow from CarSense to the Eaglepointe WWTP started June 1, 2018. Clean Water had a July 25, 2018 sample of CarSense effluent analyzed. Some individual chemistry substances exceeded the Non-Residential Waste Resolution limits. The Authority Administrator, Clean Water and ARRO met with CarSense on August 28, 2018 to discuss ways to lower the substances exceedances.

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 NRW maximum 250 mg/L threshold, the highest result was 1,700 mg/L.

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.

Nothing new to report.

Eagle Retail Associates – Starbucks: ARRO is reviewing the sanitary sewer portion of a conditional use plan for a Starbucks with drive-through to occupy the former Key Bank Building at the Eaglepointe Shopping Center. ARRO reviewed the sanitary sewer portion of the conditional use application and submitted a May 28, 2019 letter to UUT with comments to the plan. ARRO recommended water consumption records be submitted from a similarly-sized facility to determine the necessary wastewater capacity. ARRO reviewed the latest land development plan, dated September 18, 2019, and issued an October 28, 2019 letter with comments to the plan.

Nothing new to report.

Ewing Tract

Toll Brothers and Lennar started installing house service lines to new homes in Ewing Tract – West Vincent Township February 2016. ARRO is observing installation and testing of the house service lines. All sanitary sewer house service lines at Toll Brothers' Ewing Tract - West Vincent Carriage Home South subdivision are complete and tested as of June 22, 2017. Toll Brothers and Lennar are continuing to install house service lines to new homes in Ewing Tract – West Vincent Township with ARRO observing the completed installations and the testing of the house service lines. ARRO testing reports are being sent to West Vincent Township's engineer, Cedarville Engineering Group, LLC. On December 18, 2018, Toll Brothers and Lennar completed the installation of the final house service line to new homes in Ewing Tract – West Vincent Township.

On November 13, 2018 Toll Brothers submitted the Maintenance Security Agreement and Maintenance Bond for Ewing Tract – West Vincent Phase 2A Sanitary Sewer Improvements. ARRO reviewed the documents and sent comments to Toll Brothers on November 14, 2018. ARRO reviewed and commented on both the December 3, 2018 update of the Maintenance Security Agreement and reviewed and Eagle Farms Road as-built plans received from Toll Brothers for Ewing Tract – West Vincent Phase 2A. The comments revisions were made and ARRO has approved both documents.

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.

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.

Frame Property (Reserve at Chester Springs)

The pre-construction meeting for the Reserve at Chester Springs (Frame Property) subdivision was held on August 4, 2016. ARRO reviewed shop drawings of sanitary sewer items. The site work is underway. ARRO has been informed by the contractor that sanitary sewer installation is expected to start at the beginning of October 2016. ARRO was informed by Toll Brothers that the sanitary sewer installation will start on Monday, October 24, 2016. Sanitary sewer installation started in Little Conestoga Road on Monday, October 24, 2016 with the tie-in to a manhole immediately upstream of the Little Conestoga Pump Station. Sewer installation in Little Conestoga Road is complete and is now proceeding within the subdivision. ARRO reviewed Toll Brothers' Reserve at Chester Springs Escrow Release #2 request and prepared a recommendation letter to release \$135,160.56. All sanitary sewer piping is installed and testing is underway. The first house service line is being installed the week of February 13, 2017. ARRO is working with Toll Brothers to obtain an easement within the subdivision for ARRO-designed sanitary sewer to serve three (3) Phase II Collection System properties. ARRO is having survey completed of the easement and for design of sewer for the three properties. The easement survey was completed and the Authority solicitor is preparing a Deed of Dedication for Sewer

Easement. ARRO reviewed Toll Brothers' Reserve at Chester Springs Escrow Release #3 request and prepared a recommendation letter to release \$91,727.23. The Authority solicitor prepared a Deed of Dedication for the sewer easement to connect Phase II Collection System properties to the Reserve at Chester Springs. The Deed was transmitted to Toll Brothers for review. ARRO prepared a change order to the contractor, MG Property Management, to install 6-inch sanitary sewer and a manhole within the Reserve at Chester Springs Tot Lot for the future connection of Phase II Collection System properties. All sanitary sewer pipe testing is complete and manhole testing is underway. All sanitary sewer manhole testing is complete. MG Property Management installed the 6-inch sanitary sewer and a manhole within the Reserve at Chester Springs Tot Lot for the future connection of Phase II Collection System properties, but cannot complete its work until the Developer's contractor restores an open utility trench near the work area. ARRO prepared closeout documents for the MG Property Management project. MG Property Management completed its sanitary sewer work within the Tot Lot and will submit closeout documents for the project during the week of August 20, 2017. Installation of the gravity house service line to the last new home (Lot #16) was done on March 26, 2019. On February 11, 2019, ARRO received the sanitary sewer televising video and reports from Toll Brothers' contractor. Ahead of Toll Brothers' paving the subdivision, on April 4, 2019 ARRO checked all sanitary sewer manhole frames and covers and found no damaged units. ARRO inspected all manholes and prepared a punchlist of work items that was sent to Toll Brothers by letter dated May 21, 2019.

ARRO received the draft sanitary sewer record drawings. ARRO reviewed the drawings and returned comments to Toll Brothers on November 26, 2019.

Greenridge

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). 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.

Nothing new to report.

The property owner at 307 Deerhaven Way in Stonehedge requested the above-ground remnants of the former community on-lot system in his backyard be removed and the abandoned underground tanks be filled. A \$12,420 proposal was submitted by a contractor for the work. As the Authority accepted the contractor (Pikeland Construction) proposal ARRO will coordinate with Pikeland for the start of work.

On December 6, 2019, ARRO attended a meeting with the property owner and Pikeland Construction to discuss start of the work, which Pikeland intends to begin the week of December 9, 2019.

Jankowski (Chester Springs Crossing)

The Preliminary Plan/Conditional Use Application was submitted to the Township and ARRO provided comments on the sanitary sewer system. ARRO met with The Cutler Group on December 10, 2008 to discuss ARRO's Preliminary Plan/Conditional Use Application review comments. The Cutler Group advised that it was able to locate suitable soils to provide sufficient disposal capacity for both its development needs and the Township's required disposal capacity. ARRO reviewed the soils report and issued a letter to the Township agreeing that sufficient capacity appears to exist, although actual capacity will need to be verified through an as-built survey. ARRO provided comments on a draft preliminary subdivision plan addressing the Township Engineer's June 2008 review letter. The Cutler Group subsequently requested an informal review of the revised plans and ARRO provided unofficial comments so that The Cutler Group may further refine the draft preliminary plan in anticipation of its official submission to the Township. ARRO studied the feasibility of connecting the 60 Jankowski homes to the Saybrooke WWTP system. ARRO found that the Saybrooke WWTP does not have the capacity to treat the additional 14,000 gpd and Pump Station No. 2 does not have sufficient capacity. Also, the land parcel does not have sufficient footprint to support an upgrade to the WWTP. ARRO studied expanding the Saybrooke seepage beds and adding drip facilities. ARRO intends to review PADEP records regarding original Saybrooke seepage bed and soil design parameters. On July 22, 2014, ARRO reviewed PADEP records regarding the original Saybrooke seepage bed and soil design parameters, which confirmed ARRO's initial assumptions, and it appears that all effluent can be disposed on the existing lot if four absorption beds and a drip irrigation system are utilized. ARRO is creating an opinion of probable construction cost for expanding the absorption beds. ARRO has prepared its initial opinion of probable construction cost for expanding the absorption beds. ARRO was in the process of creating an opinion of probable construction cost for the drip irrigation system, but can't obtain final design parameters from PADEP unless onsite soil testing is done to determine soil percolation rates. 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.

Lakeridge

ARRO is preparing plans and specifications for construction of a sludge tank exterior to the WWTP Control Building. ARRO conducted an inspection of the Lakeridge WWTP Control Building in order to prepare maintenance and repair items for inclusion in the sludge tank construction contract. ARRO is continuing to prepare the sludge tank and building repairs plans and specifications. ARRO has both the sludge tank plans and specifications and the PADEP Part 2 permit application approximately 80 percent complete. ARRO has completed the sludge tank plans and specifications. The Part 2 permit application is expected to be submitted to PADEP by the end of May 2018. Changes to sludge tank design plans were necessary due to updated Columbia Gas easement information. ARRO submitted the Part 2 permit application to PADEP on July 17, 2018. PADEP sent an August 14, 2018 Water Quality Management permit for the sludge tank project. The bidding phase of the work is now in progress. The Sludge Tank Relocation project was put out to bid on September 4, 2018. A pre-bid meeting for the project is scheduled for September 20, 2018. Bids are due October 18, 2018. ARRO

plans to have a bid award recommendation prepared for the October 23, 2018 Authority meeting. Bids for the Sludge Tank Relocation project were received on October 18, 2018 and reviewed by ARRO. ARRO recommended award of the General Contract to Blooming Glen Contractors and the Electrical Contract to Eastern Environmental Contractors. Agreements were delivered to the Township on November 19, 2018 for execution by the Authority at its November Board meeting. ARRO conducted the Sludge Tank Relocation project pre-construction meeting on December 10, 2018. The Sludge Tank project Notice to Proceed was issued on December 17, 2018 for a 180-calendar day construction period. Blooming Glen Contractors submitted its one-call notice for excavation on January 9, 2019. Sludge Tank project shop drawings are being reviewed. The Blooming Glen Contractors project schedule says construction will start in April 2019. The sludge tank project schedule had a setback due to a tank precast fabrication delay. Blooming Glen has submitted a 90-calendar day extension of contract time change order request. Work has begun in the Control Building with the installation of replacement unit heaters. The sludge tank excavation is complete and the tank is scheduled to be delivered July 18, 2019. The date of substantial completion is September 13, 2019. The sludge tank was installed and the general construction and electrical work is commencing. Change orders have been prepared for a 28-calendar day time extension to the general and electrical contracts. The date of substantial completion is now October 11, 2019. The sludge tank general construction and electrical work is coming to an end. Start-up testing is expected to be done in mid-October to meet the substantial completion date. Start-up testing is scheduled for the week of October 21, 2019 to meet the revised substantial completion date. Start-up testing is complete. Punchlist work is commencing. The project is expected to be done by mid-December 2019.

Punchlist work is continuing. The project is expected to be done by mid-January.

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 continues basic Act 537 planning work.

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.

Nothing new to report.

Saybrooke

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

Nothing new to report.

St. Andrews Brae

Nothing to report.

Upland Farms

Columbia Gas is planning cathodic protection work within its right-of-way through a portion of Upland Farms and Waynebrook. ARRO reviewed the work plan drawings and provided information to Columbia Gas regarding the Authority's disposal fields and Little Conestoga Pump Station force main bordering the planned work area.

Waynebrook

The last house service line in the development was tested on October 20, 2015. ARRO received Waynebrook Open Space parcel legal descriptions and drip field record plans for review. ARRO reviewed three Waynebrook Open Space parcel legal descriptions and had no comments to them.

ARRO reviewed the drip field record plans and transmitted comments to Cutler. Subsequently, revised drip field record plans were submitted, reviewed and approved by ARRO. ARRO requested Cutler submit Waynebrook record drawings as part of dedication. Drawings were received from Cutler, but they were not record drawings. ARRO informed Cutler again to provide record drawings. ARRO received an October 12, 2016 email from Cutler stating submission of record drawings will be in the near future and asking if all legal descriptions and easements were provided for the project. ARRO will review the email's questions and respond to Cutler. ARRO and Authority counsel have reviewed documentation prepared by Cutler for dedication of the Waynebrook sanitary sewer facilities. ARRO is preparing a letter recommending acceptance of sanitary sewer dedication. ARRO prepared a letter recommending acceptance of the sanitary sewer to be dedicated. ARRO has reminded Cutler to submit the approved sanitary sewer and disposal fields record drawings in the forms required by the Authority's Specifications.

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.

Nothing new to report.

Village of Eagle

160/180 Park Road (Gunner Properties) - ARRO reviewed and commented on the sanitary sewer plans submitted to the Township on June 14, 2017 for the connection of 160/180 Park Road to the Route 100 Regional WWTP sanitary sewer system. ARRO reviewed revised sanitary sewer plans submitted to the Township on August 3, 2017. ARRO sent a letter to the Authority approving the revised plans. ARRO received updated Preliminary/Final Land Development Plans on October 17, 2017 for review. ARRO issued an October 31, 2017 comments letter to the updated Preliminary/Final Land Development Plans, received on October 17, 2017, requesting additional information on proposed bathroom facilities to determine the sanitary sewer capacity that will need to be purchased. ARRO reviewed a request to allow installation of an 8" saddle on the existing 12" sewer main in lieu of 8" x 12" cut-in wye as shown on the Developer's approved design drawings. The request was denied unless further information is supplied supporting the request's feasibility. ARRO reviewed and accepted installation of an 8" saddle on the existing 12" sewer main in lieu of 8" x 12" cut-in wye. A preconstruction meeting for the project was held on January 11, 2018. On February 20, 2018, the Developer's contractor installed an 8" saddle on the existing 12" sewer main in Park Road. The

contractor also started installing sewer within the site. ARRO is preparing a letter to the Authority in response to the capacity request from the Developer. ARRO is reviewing the sanitary sewer portion of a conditional use application for additional development at 160/180 Park Road. ARRO completed a review of the sanitary sewer portion of a conditional use application for additional development at 160/180 Park Road and submitted a May 28, 2019 letter to the Township. ARRO recommends an additional 8.66 EDUs of capacity should be purchased for the proposed use. ARRO prepared a July 23, 2019 comments letter to the Preliminary/Final Plans for Eagle Village Parking Expansion as prepared by DL Howell, dated July 3, 2019. An additional 8.5 EDUs need to be purchased for the proposed use and a SFPM will be required. The Board of Supervisors granted approval of the Plans at their August 19, 2019 meeting. PADEP sent an August 19, 2019 letter stating no Sewage Facilities Planning Modules are required for expansion of the 160 Park Road parking lot.

Nothing new to report.

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, 2109 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 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 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 to prepare and will submit a sanitary sewer grant application under the Pennsylvania Department of Community & Economic Development H2O PA grant program for 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.

Windsor Baptist Church – A Preliminary Plan – Land Development Plan was submitted for a 3-story building expansion to the church. ARRO prepared an April 4, 2019 letter to the Township with its comments to the sanitary sewer portion of the project. ARRO reviewed the Land Development Plan Revision No. 1, dated April 18, 2019, and received by ARRO July 1, 2019. ARRO prepared a July 1, 2019 letter to the Township with comments to the sanitary sewer portion of the plan.

Nothing new to report.

241 Park Road LLC (McQueen)

E. B. Walsh transmitted a September 2010 Grading and Utility Plan and a sanitary sewer Details drawing to ARRO. On October 10, 2019 E. B. Walsh informed ARRO that as yet no updated SFPM documents have been submitted for the project.

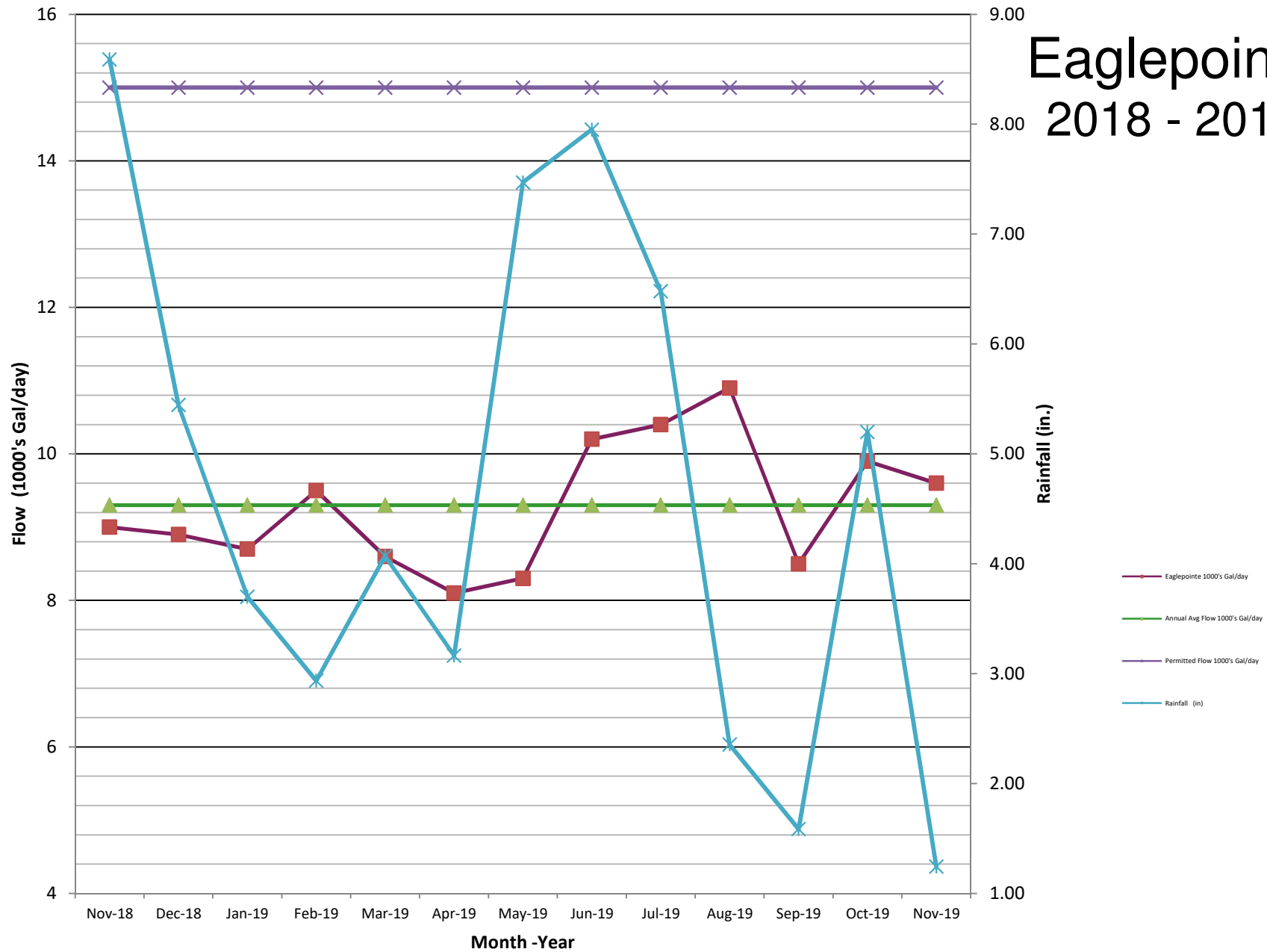
Nothing new to report.

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

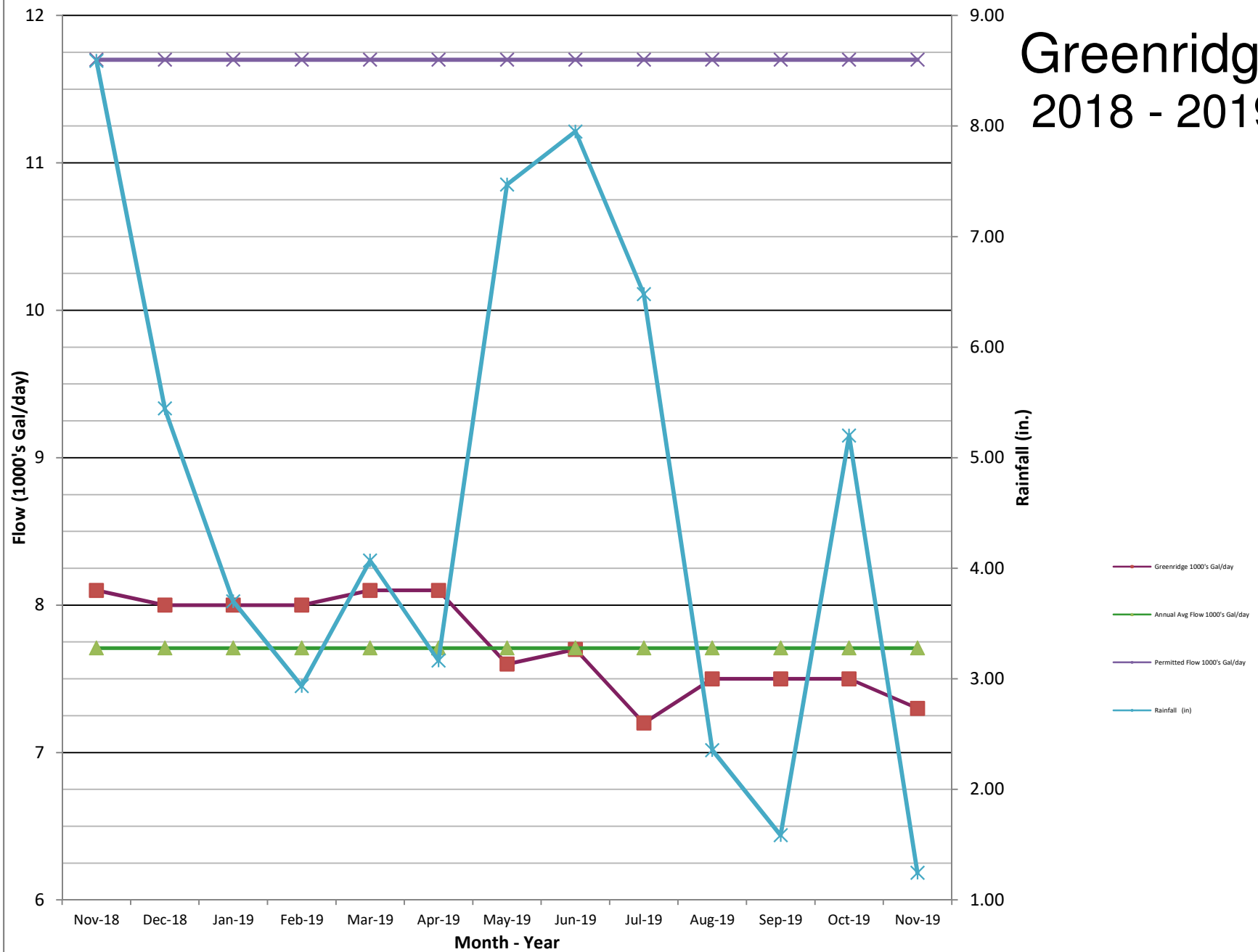
UPPER UWCHLAN MUNICIPAL AUTHORITY
WASTEWATER TREATMENT PLANTS
MONTHLY AVERAGE DAILY FLOWS

Month - Year		Average Daily Flow (MGD)							Rainfall (in)
		Eaglepointe	Greenridge	Lakeridge	Marsh Harbour	Route 100	Saybrooke	St. Andrews	
Nov-18		0.00900	0.00810	0.02980	0.04730	0.34890	0.00790	0.00260	8.59
Dec-18		0.00890	0.00800	0.03170	0.04500	0.35840	0.00800	0.00270	5.45
Jan-19		0.00870	0.00800	0.03470	0.04560	0.36600	0.00760	0.00270	3.70
Feb-19		0.00950	0.00800	0.02940	0.04410	0.36780	0.00800	0.00250	2.94
Mar-19		0.00860	0.00810	0.02860	0.04420	0.38600	0.00800	0.00240	4.07
Apr-19		0.00810	0.00810	0.02670	0.04070	0.36500	0.00820	0.00260	3.17
May-19		0.00830	0.00760	0.02820	0.04250	0.35720	0.00820	0.00260	7.47
Jun-19		0.01020	0.00770	0.02310	0.03990	0.34300	0.00750	0.00200	7.95
Jul-19		0.01040	0.00720	0.02330	0.04040	0.34700	0.00790	0.00170	6.48
Aug-19		0.01090	0.00750	0.02250	0.03820	0.32830	0.00800	0.00140	2.36
Sep-19		0.00850	0.00750	0.02110	0.03630	0.33150	0.00720	0.00140	1.59
Oct-19		0.00990	0.00750	0.02120	0.03730	0.32760	0.00790	0.00250	5.20
Nov-19		0.00960	0.00730	0.02270	0.03850	0.33940	0.00790	0.00240	1.25
Annual Avg Flow =		0.00930	0.00771	0.02610	0.04106	0.35143	0.00787	0.00224	
Permitted Flow =		0.01500	0.01170	0.04000	0.07600	0.60000	0.00920	0.00360	

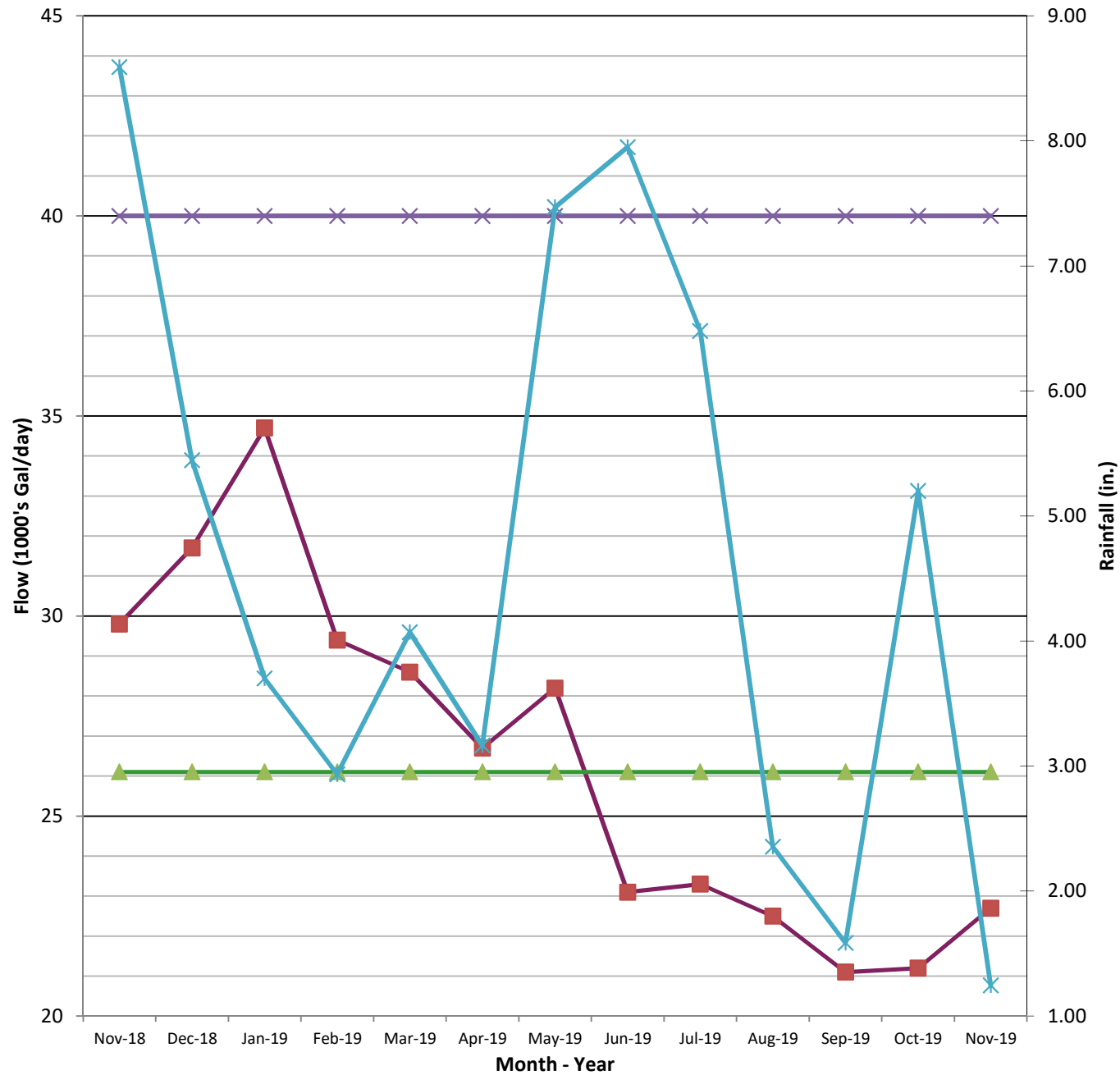
Eaglepointe 2018 - 2019



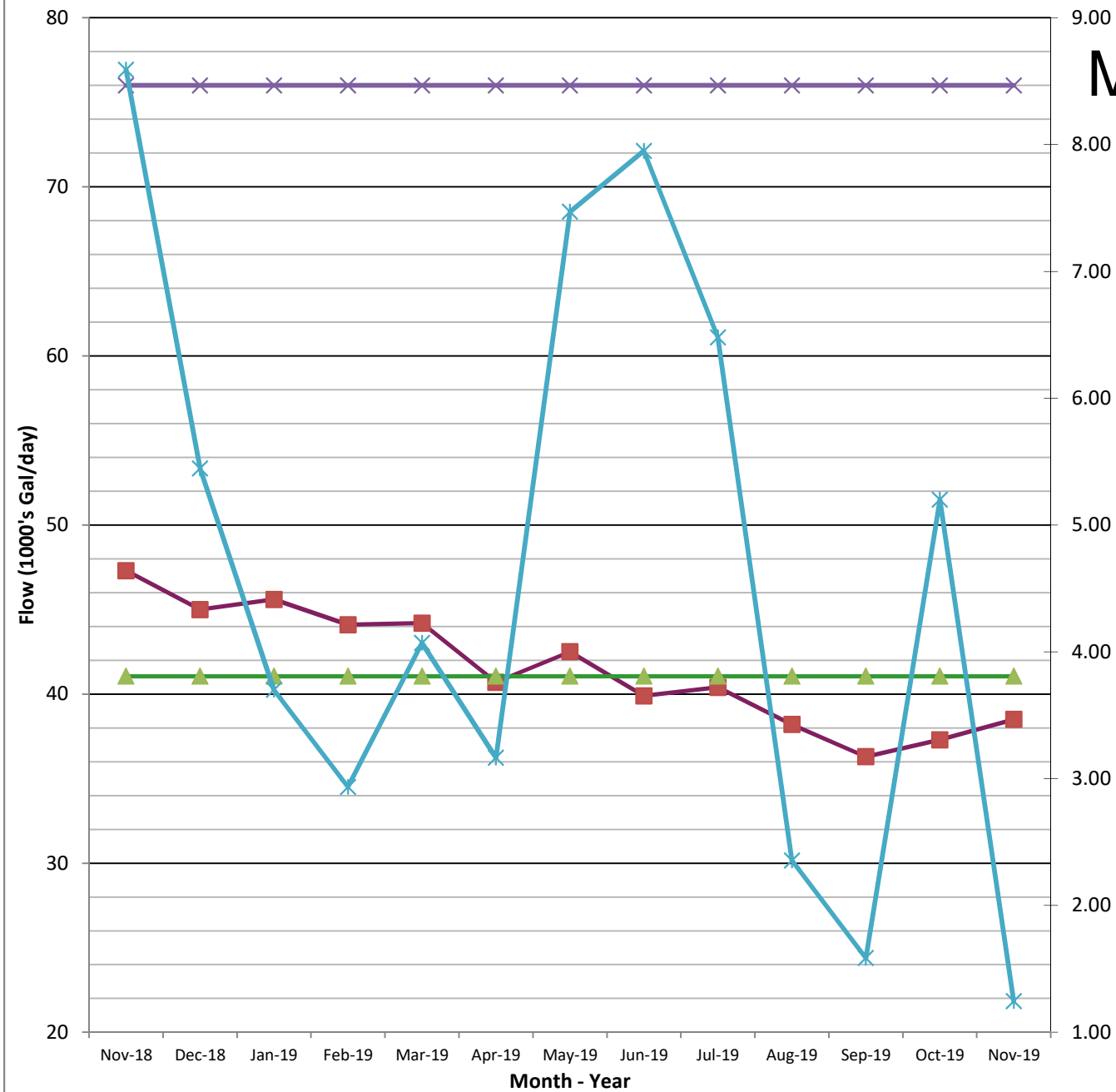
Greenridge 2018 - 2019



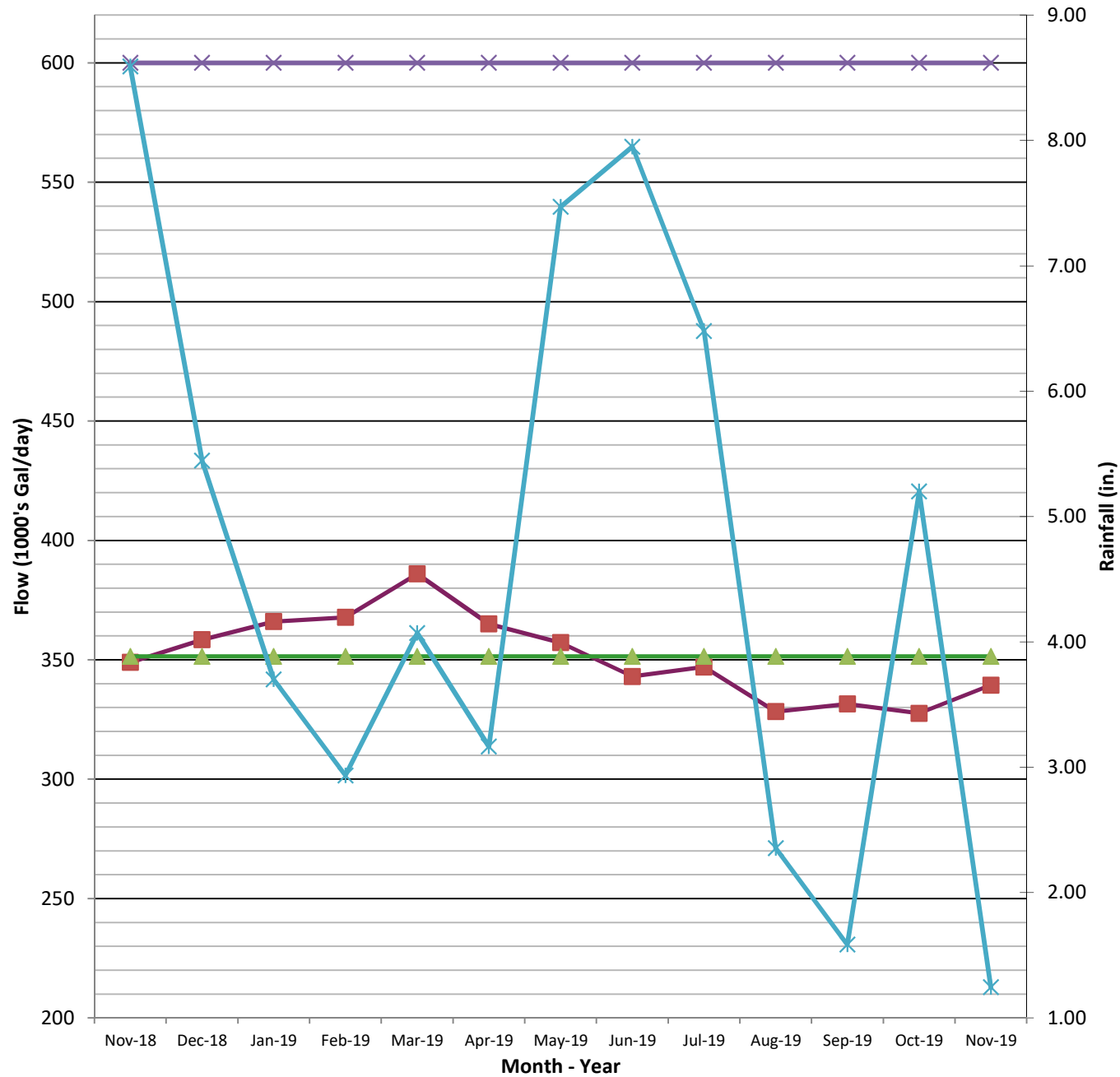
Lakeridge 2018 - 2019



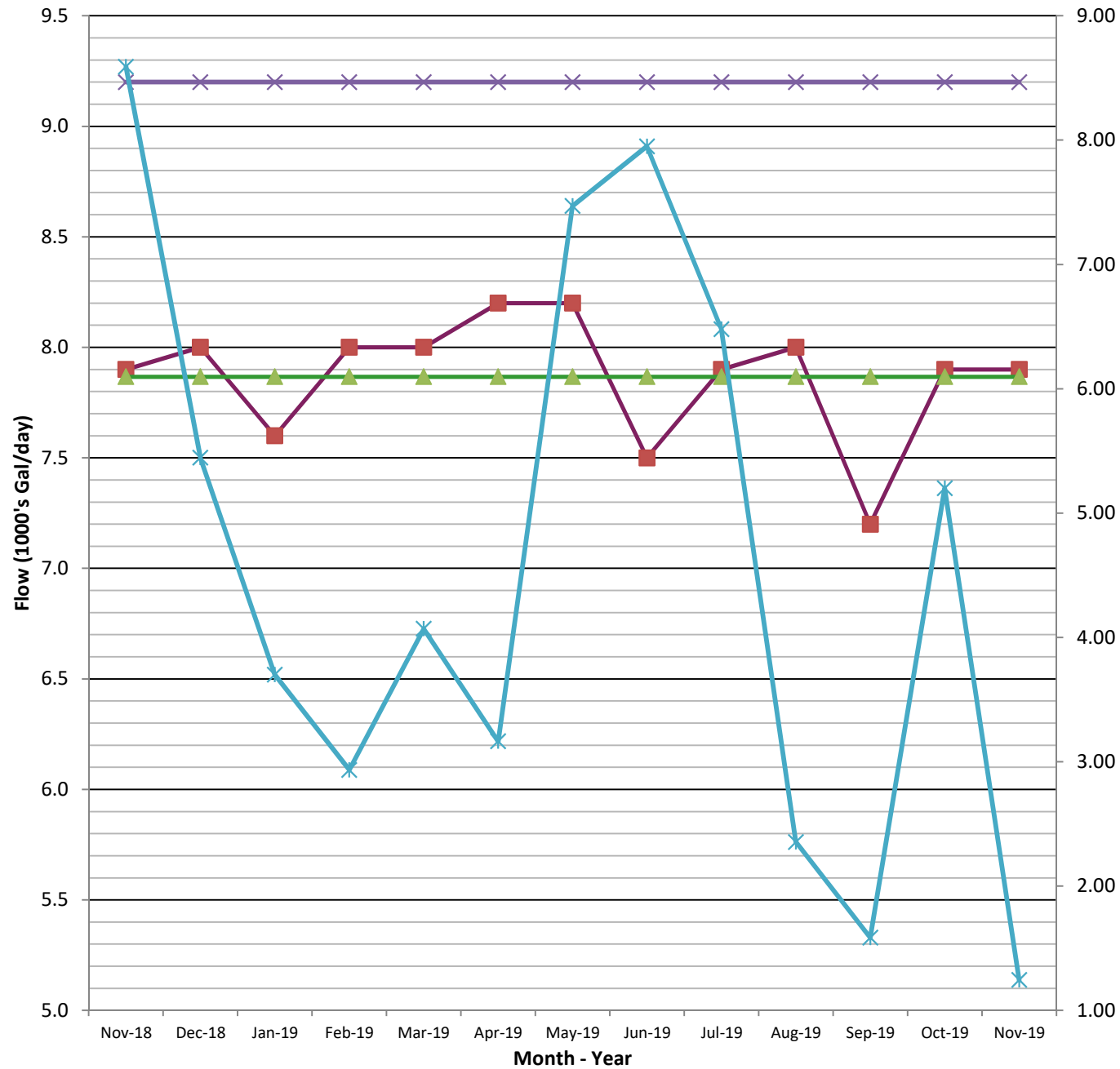
Marsh Harbour 2018 - 2019



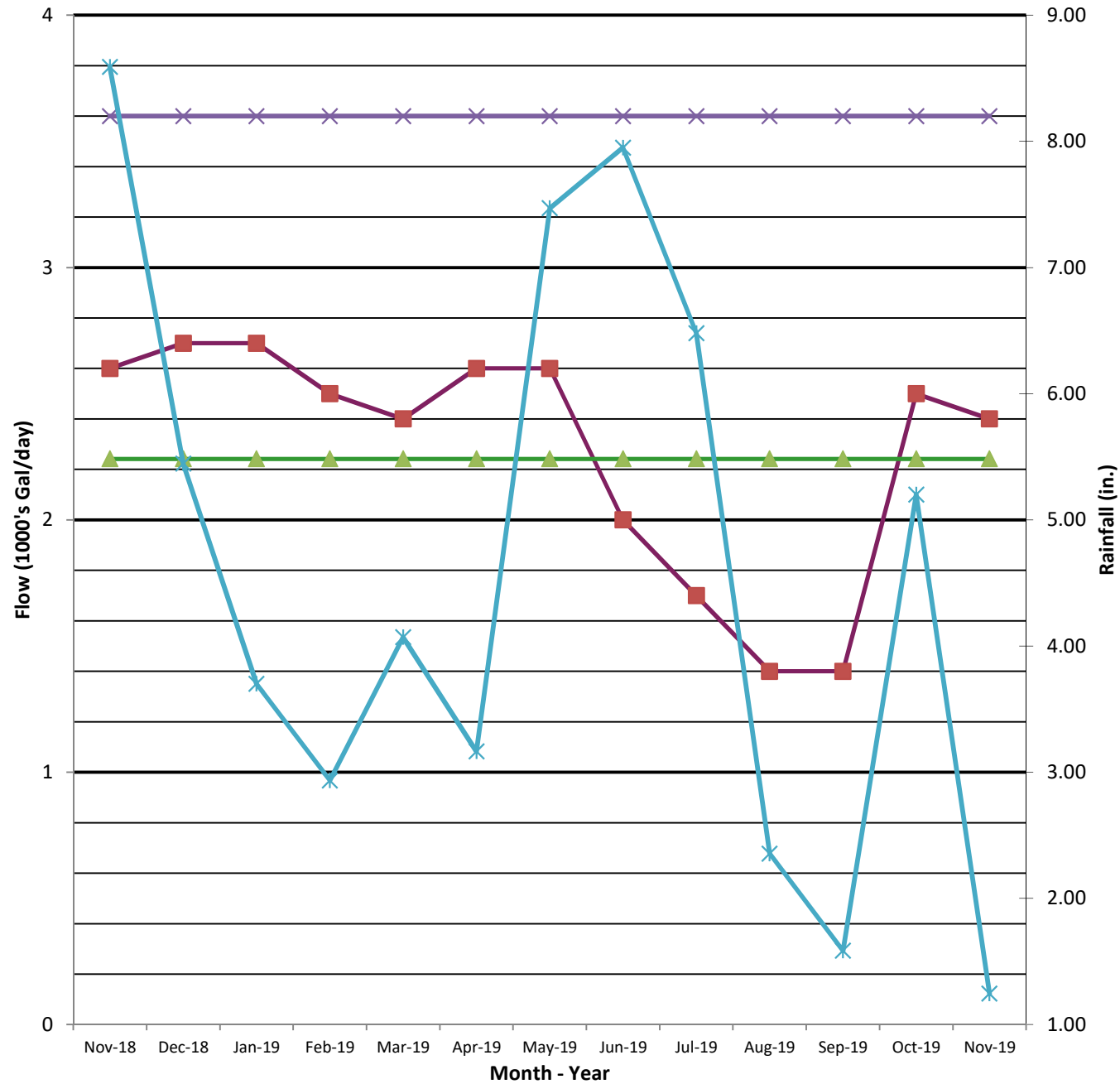
Route 100 2018 - 2019



Saybrooke 2018 - 2019



St. Andrews 2018 - 2019





To: Municipal Authority Members

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

Re: Authority Administrator's Report

Date: December 12, 2019

Activities for the month include:

- A. Communication with WWTF Operator and Township Staff regarding operational and maintenance issues.
- B. Responded to resident, developer and real estate agent sewer service inquiries and septic tank issues.
- C. Preparation of administrative documents for the Authority meeting packet and for the Authority files.
- D. Communication with McKee, Solicitor and Authority regarding Phase III of the Route 100 WWTF and Agreement.
- E. Communication with Randy DiLibero regarding his proposed sewer extension to the Eaglepointe WWTF and revisions to the design.
- F. Communication with Township regarding Municipal Authority projects status.
- G. Communication with WAWA, Clean Water and ARRO regarding discharge to the Eaglepointe WWTF.
- H. Communication with the Developer and ARRO regarding the Jankowski connection.
- I. Communication with ARRO and contractors regarding the Lakeridge Sludge Holding Tank Project.
- J. Preparation of Draft 2020 Operating and Capital Budgets.

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



**NOVEMBER 2019 REPORT
UUT MUNICIPAL AUTHORITY
PUBLIC WORKS DEPARTMENT**

The following projects are underway:

Ongoing:

- Locks were spot checked at all pump stations. All have been secure.
- Spot checks continue and all visitors are still using the sign-in sheets at all properties.

Public Works continues to work on the properties as follows:

Complete:

- Rte. 100 WWTP
 - 1. General cleanup at this location
- Byers Station Effluent PS
 - 1. General cleaning of station
 - 2. Odor investigation – was found not to be the station
- Byers Station Influent PS
 - 1. General cleaning of station
- Ewing PS
 - 1. General cleaning of station
- Ewing West Vincent PS
 - 1. General cleaning of station
- Ewing Tract Effluent Disposal System
 - 1. No work orders for this location
 - 2. Cleaned station
- Eagle Hunt
 - 1. Cleaning of this location

- **Windsor Ridge**
 - 1. **General cleaning**
- **Saybrook WWTP**
 - 1. **General cleaning of station**
- **Seabury**
 - 1. **There are currently no work orders for this facility.**
- **Yarmouth PS1**
 - 1. **There are currently no work orders for this facility.**
- **Yarmouth PS2**
 - 1. **There are currently no work orders for this facility.**
- **St Andrews Brae**
 - 1. **General cleaning of station**
- **St Andrews Brae PS (at St Andrews intersection)**
 - 1. **There are currently no work orders for this facility.**
- **Reserve Lagoon**
 - 1. **General cleaning of station**
- **Reserve at Eagle PS1**
 - 1. **General cleaning**
- **Reserve at Eagle PS 2**
 - 1. **General cleaning of station**
- **Upland Farms PS/ Reserve at Waynebrook**
 - 1. **There are currently no work orders for this facility.**
- **Greenridge**
 - 1. **General cleaning of station**
- **Stonehedge**
 - 1. **General cleaning of station**
- **Marsh Harbour WWTP**
 - 1. **Repairs on walls continue as time allows**
 - 2. **Safety Painting**
 - 3. **General cleaning and trash removal**
- **Marsh Harbour PS**
 - 1. **There are no work orders for this station**

- **Meadowcreek**
 1. There are currently work orders for this facility.
 2. The planting is done
 3. A drainage system was installed, and we are waiting on Easement paperwork for maintenance.
- **Eaglepointe**
 1. Trash collection and cleaning
 2. The rag issue continues here.
- **Heron Hill PS**
 1. There are currently no work orders for this facility.
- **Lakeridge WWTP**
 1. General cleaning and trash removal
 2. Tank project still underway.
- **Lakeridge Pump Station**
 1. The station has been cleaned and painted.
 2. Sludge tank has been evacuated properly, filled with stone and capped off with concrete.
- **Eagle Farms Rd PS (WV)**
 1. General cleaning of station
- **Little Conestoga Rd PS**
 1. There are currently no work orders for this facility.
 2. General cleaning
- **Eagle Manor PS (Dorothy Ln)**
 1. There are currently no work orders for this facility.
- **Garrison Dr. (spray field pump station #1)**
 1. There are currently no work orders for this facility.
- **Garrison Dr. (spray field pump station #2)**
 1. There are currently no work orders for this facility.
- **Public Works continues to respond to Pa 1-calls. UUT responded to 71 PA 1-Call tickets during the month of November.**

**Respectfully submitted,
Michael G. Heckman
Director of Public Works
Upper Uwchlan Township**



**UPPER UWCHLAN TOWNSHIP MUNICIPAL AUTHORITY
CHESTER COUNTY
COMMONWEALTH OF PENNSYLVANIA**

2020 Budget

**Budget Presented – December 17, 2019
Budget Approved – January 14, 2020**

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About the Upper Uwchlan Township Municipal Authority

Organization

The Upper Uwchlan Township Municipal Authority (“Authority”) was incorporated by 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>
Donald B. Carlson	Chairman	12/31/2023
Hal Harper	Vice-Chairman	12/31/2023
Robert Watts	Member	12/31/2022
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 and 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.

2019 Accomplishments and Our Goals for 2020

What was accomplished in 2019

In 2019, the Authority's quarterly sewer rates were not increased and remained at \$190 per quarter. While there were not many major projects that broke ground over the course of the calendar year, the Authority did secure funding to refinance debt associated with the Series of 2014 General Obligation Bond are for projects that are on schedule for 2020 and beyond (discussed in additional detail below).

In 2018, the Authority initiated a fencing project that improved safety and security at several wastewater facilities, including the Eaglepointe WWTP, the Lakeridge WWTP effluent disposal sand mounds and absorption trenches, and the Reserve at Eagle effluent storage lagoon and spray fields. Construction was completed in 2019.

In 2019, construction associated with the project to relocate the existing sludge holding tank at the Lakeridge WWTP, occurred. 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.

External repairs of reinforced concrete effluent storage tanks located at three sites in Upper Uwchlan Township were completed; these sites are: Eagle Hunt Effluent Storage Tank, Windsor Ridge Effluent Storage Tank and Upland Farms Effluent Storage Tank.

The repair and rehabilitation of the Marsh Harbour control building was completed, as well as repairs to berms at the Route 100 Wastewater Treatment Facility and Reserve at Eagle lagoons.

What is planned for 2020

As previously stated, in 2019 the Authority secured funding in the amount of \$5.105 million for projects that are scheduled to take place in 2020 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.
- \$1.1 million for the Byers Road Phase II collection system expansion
 - 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 is anticipated to be publicly bid in February of 2020, and construction is expected to begin in April of 2020.
- \$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 of design of a collection system in this area.

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 2020.

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.

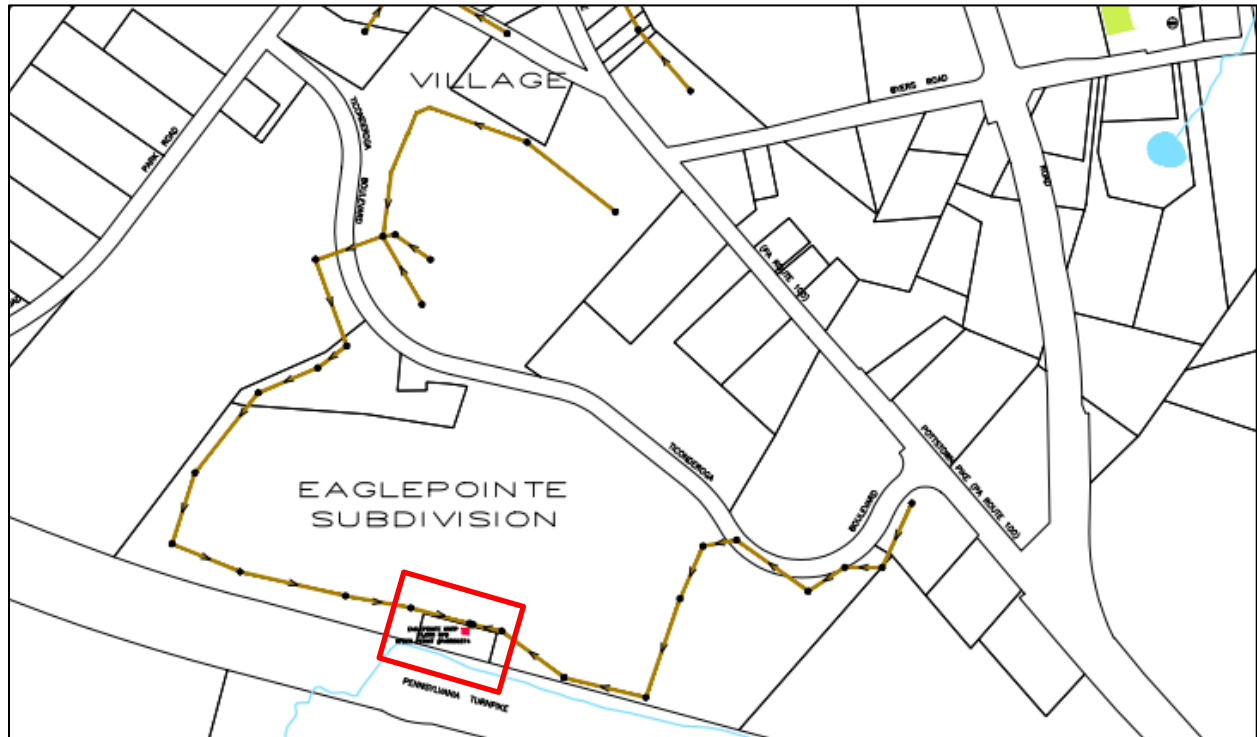
Basis of Budgeting

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.



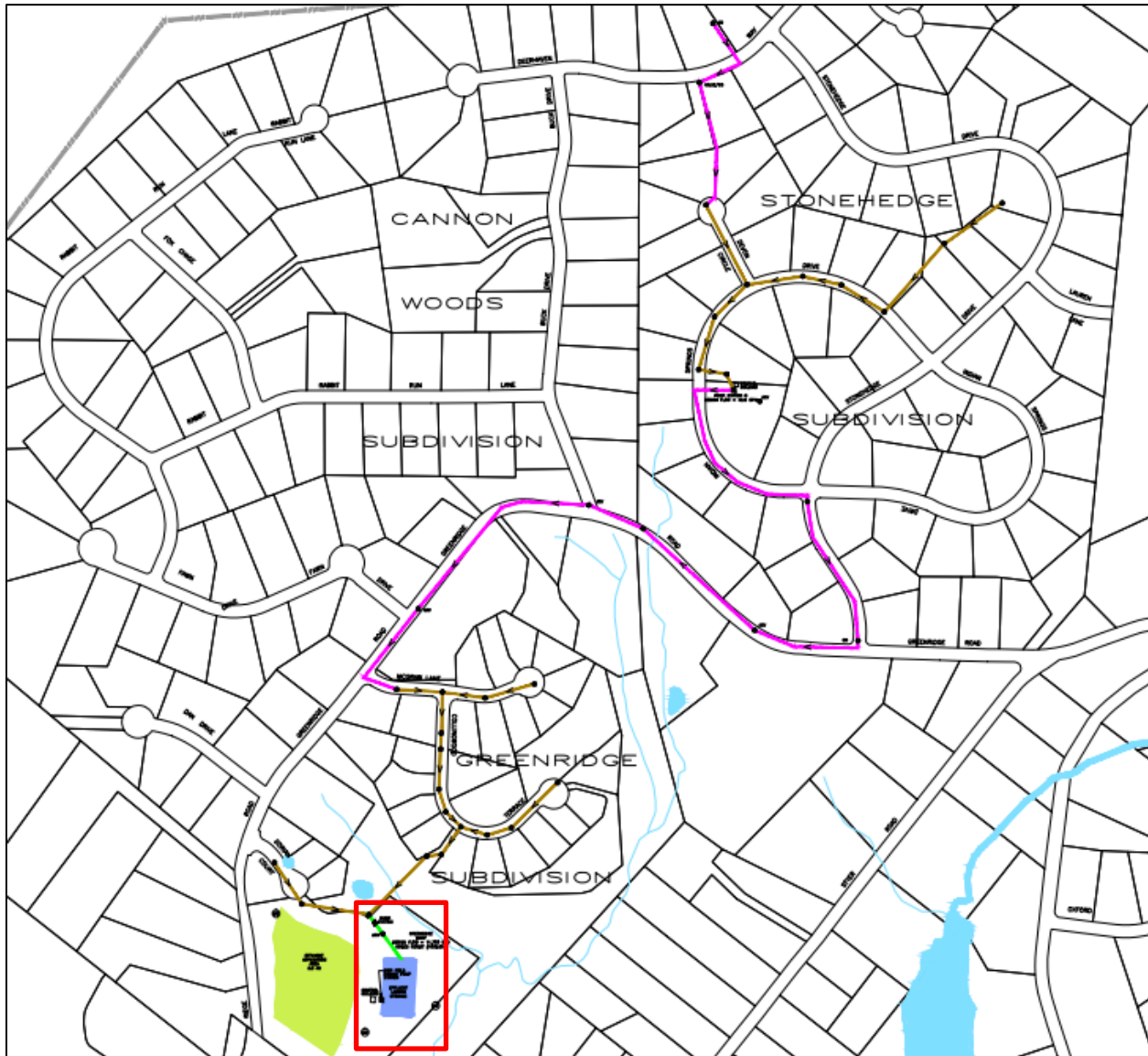
Eaglepointe Wastewater System Map

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.



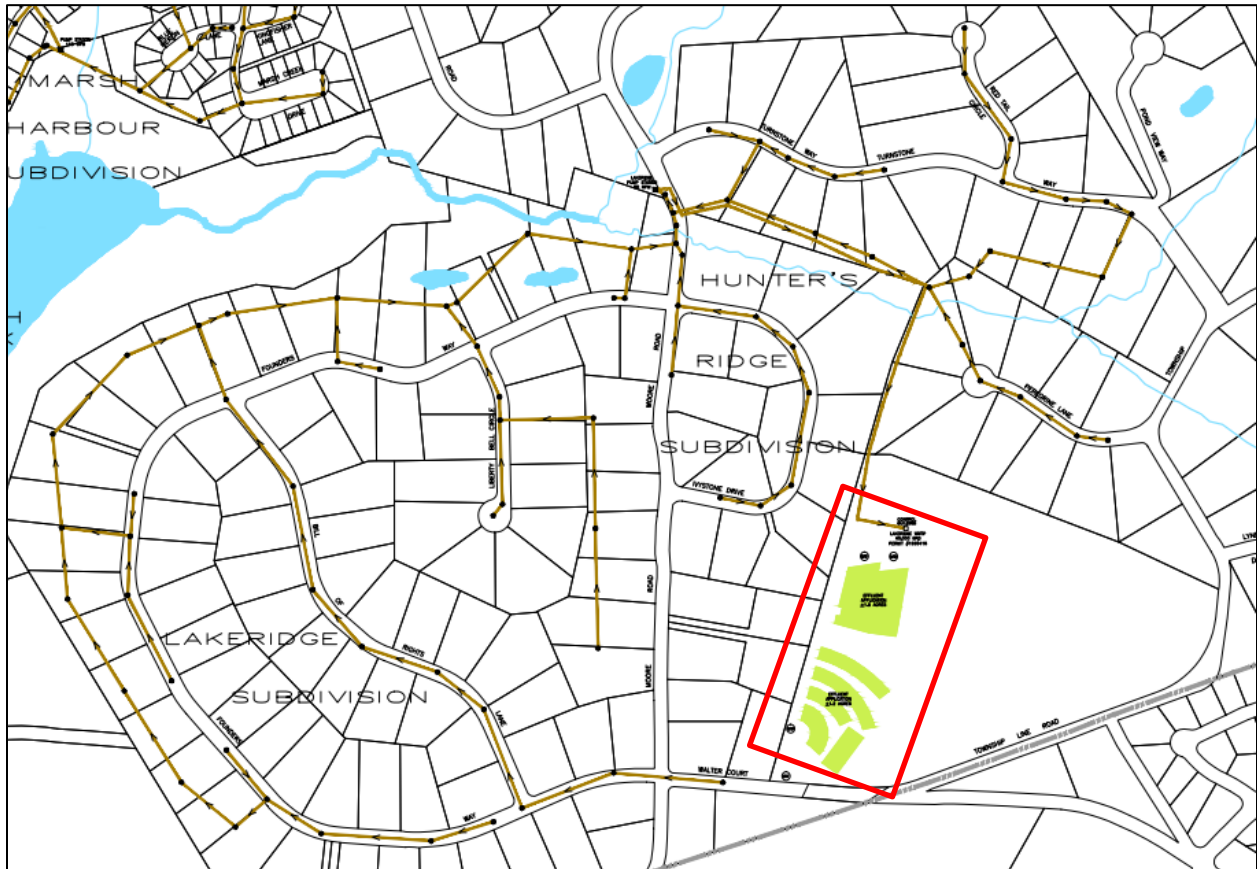
Greenridge Wastewater System Map

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.



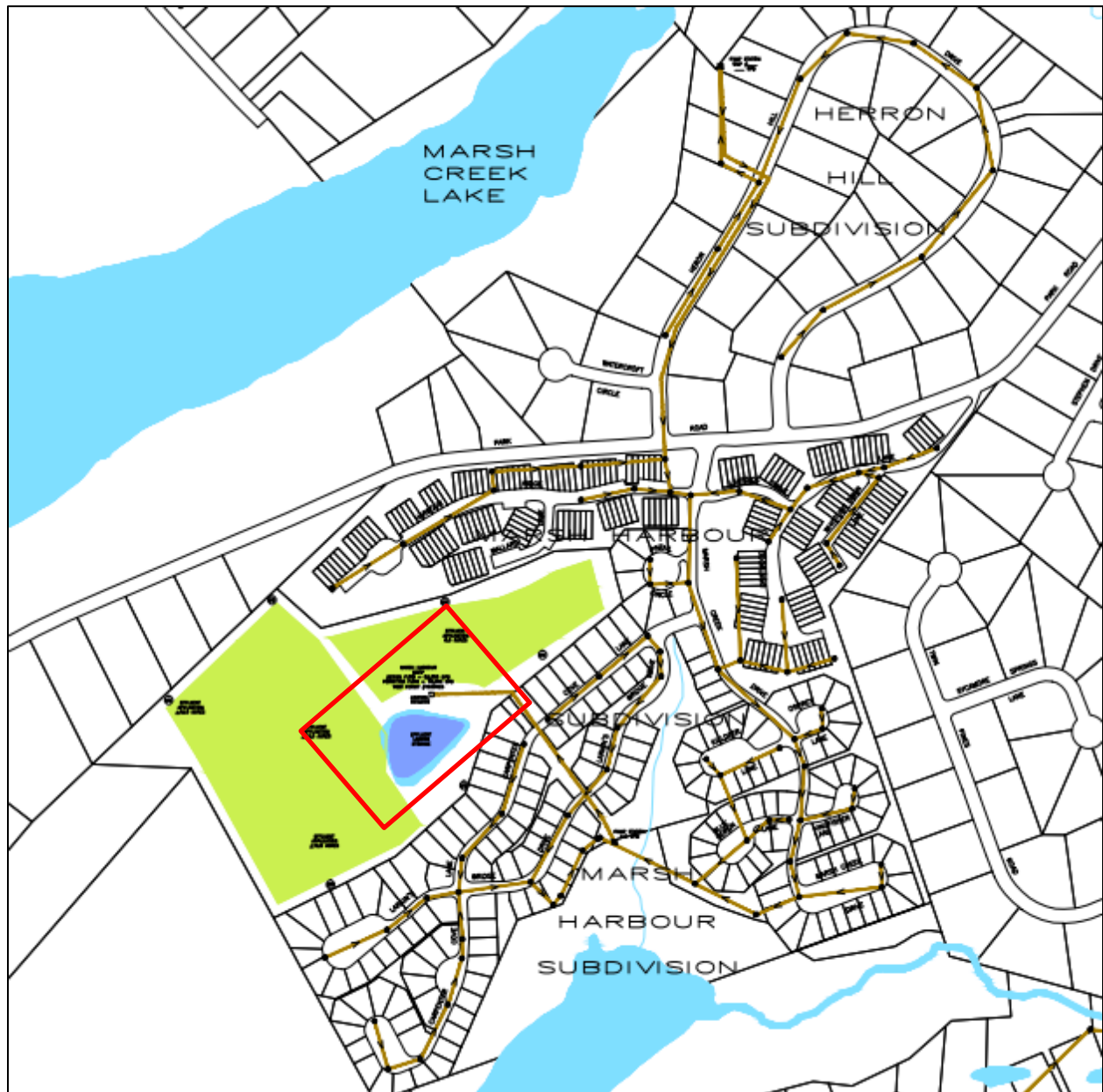
Lakeridge Wastewater System Map

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 home 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.



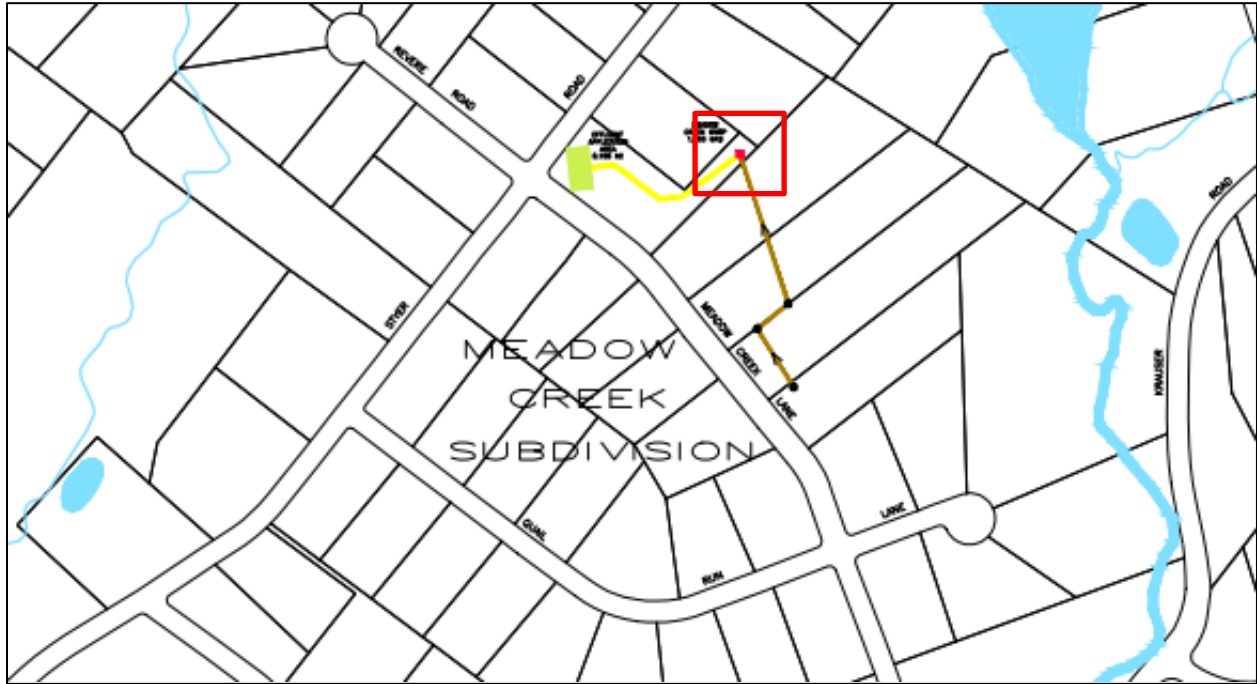
Marsh Harbour Wastewater System Map

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.

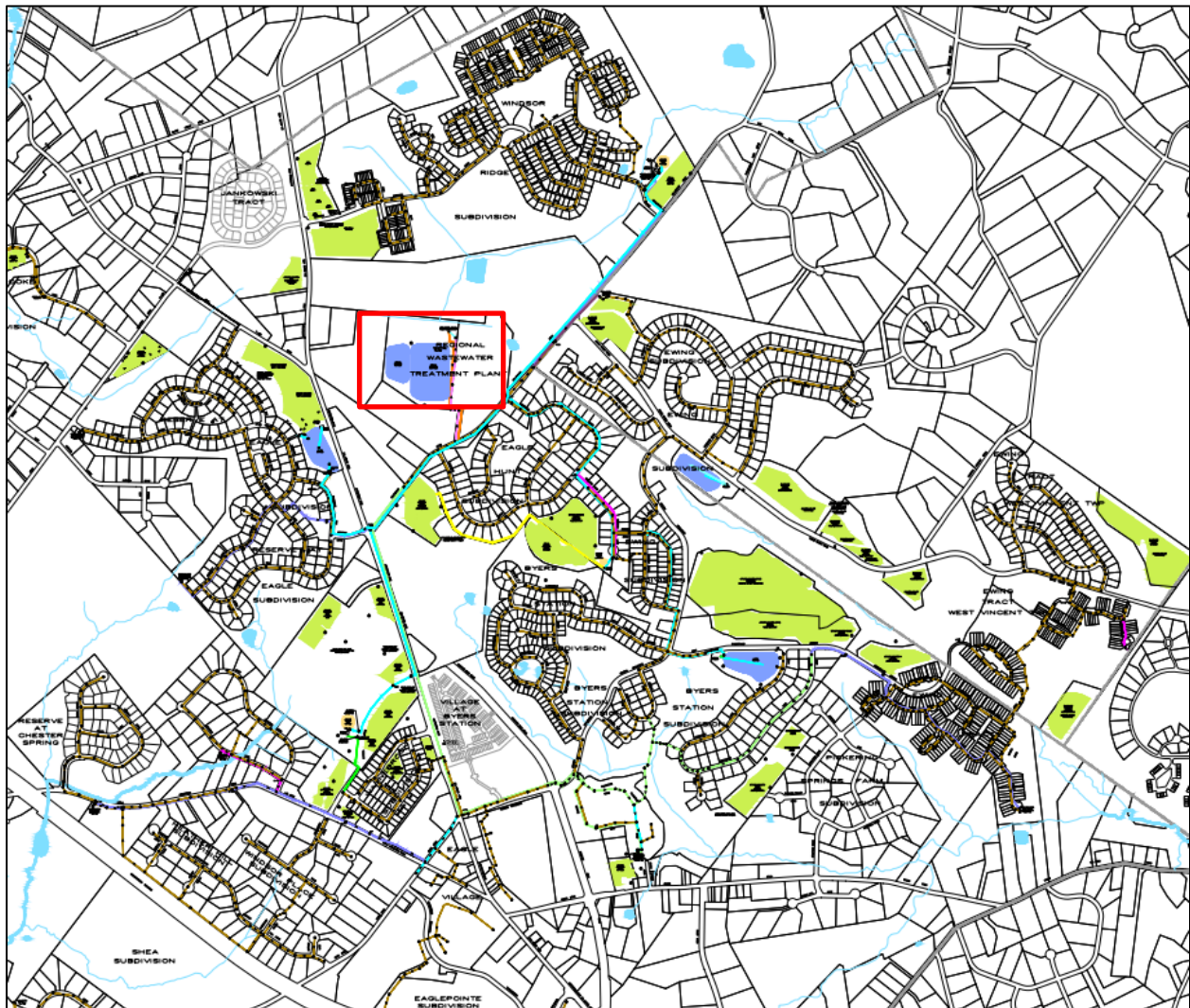
Route 100 Regional WWTP Phase II:

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.



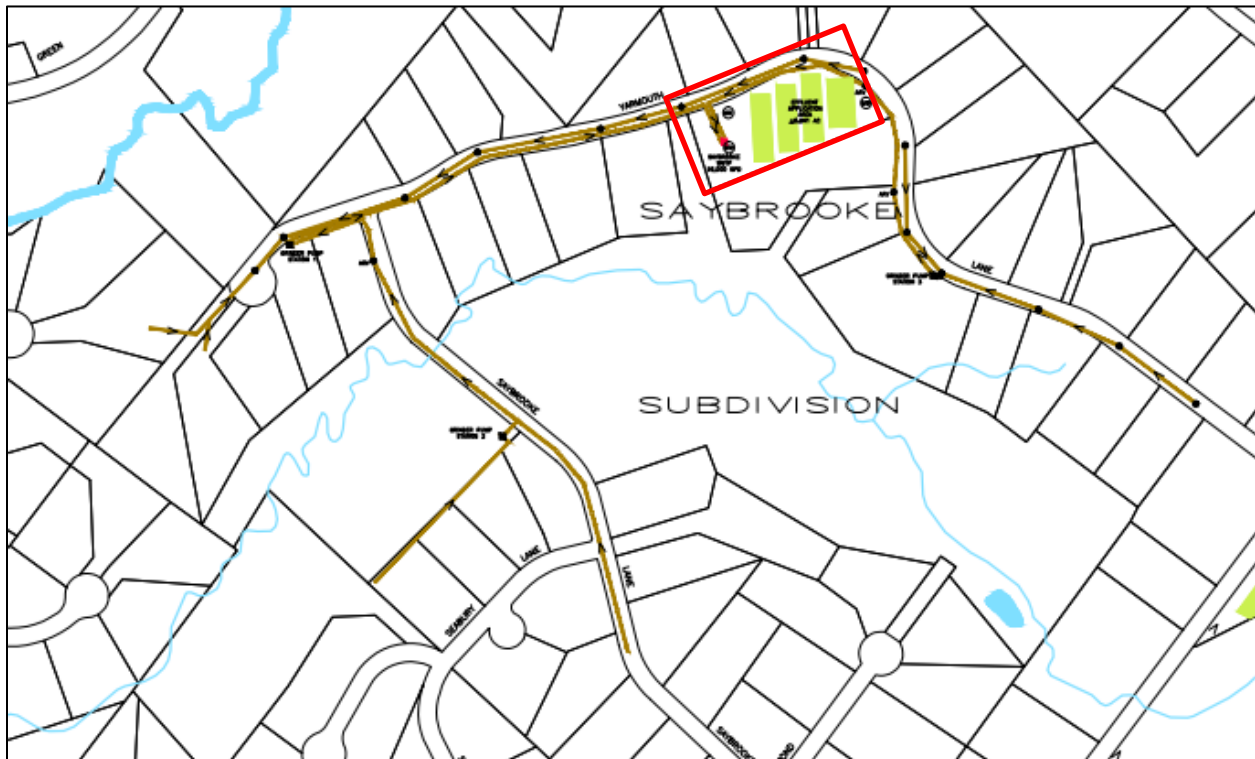
Route 100 Regional Wastewater System Map

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 WWTP property under PA DEP WQM Permit No. 1593413.



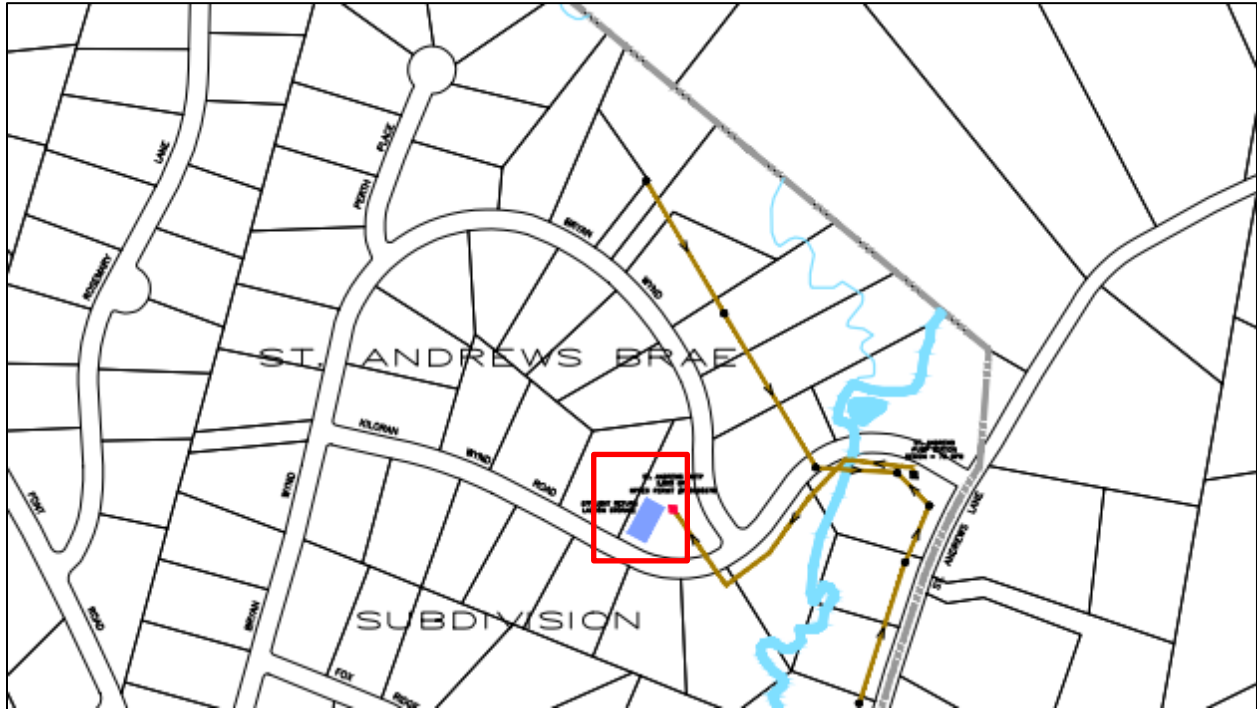
Saybrooke Wastewater System Map

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 2020 BUDGET and FIVE YEAR PROJECTION

	2017 Actual (audited)	2018 Actual (audited)	YTD 2019 (thru 10/31)	2019 Budget	\$ Over Budget	% of Budget	2020 Budget	2021 Budget	2022 Budget	2023 Budget	2024 Budget
Income											
300 Revenues											
06-340-000-000 Interest Income	7,811	17,267	123,129	15,000	108,129	721%	80,000	60,000	50,000	50,000	30,000
06-365-000-000 Usage Fees - Residential	1,924,864	2,140,967	1,716,745	2,139,571	(422,826)	-20%	2,293,851	2,464,851	2,586,451	2,651,051	2,658,651
06-365-000-001 Usage Fees - Commercial	113,285	91,041	92,117	100,000	(7,883)	-8%	-	100,000	100,000	120,000	120,000
06-365-000-010 Connection Fees	139,413	31,256	25,875	2,543,000	(2,517,125)	-99%	1,622,250	1,968,750	945,000	157,500	157,500
06-370-000-000 Misc Revenue	174,949	-	-	1,000	(1,000)	-100%	1,000	1,000	1,000	1,000	1,000
06-393-000-100 Proceeds from Long Term Debt	-	-	-	5,393,221	(5,393,221)	0%	-	-	-	-	-
06-395-000-000 Refund of Prior Year Expenditures	-	-	-	-	-	0%	-	-	-	-	-
06-395-000-100 Transfer from Sewer Fund	-	-	-	-	-	-	-	-	-	-	-
06-395-000-100 Transfer from Sewer Fund	385,000	-	-	-	-	0%	-	-	-	-	-
Total Income	2,745,322	2,280,531	1,957,866	10,191,792	(2,840,705)	494%	3,997,101	4,594,601	3,682,451	2,979,551	2,967,151
Expense											
General											
06-400-000-001 Administration	212,464	211,283	228,723	241,246	(12,523)	-5%	273,821	282,036	290,497	299,212	308,188
06-400-000-002 Authority Administrator	123,249	121,855	108,686	120,000	(11,314)	-9%	120,000	120,000	100,000	103,000	106,090
06-400-000-003 Professional Fees	3,001	7,533	-	12,000	(12,000)	-100%	12,000	12,000	13,000	14,000	14,000
06-400-000-200 Admin Supplies	10	-	150	1,000	(850)	-85%	1,000	1,030	1,061	1,093	1,126
06-400-000-341 Advertising	-	3,408	68	5,000	(4,932)	-99%	5,000	2,000	2,000	2,000	2,000
06-400-000-352 Insurance - Liability	8,133	4,661	3,575	5,545	(1,970)	-36%	5,370	5,531	5,697	5,868	6,044
06-400-000-355 Bank Fees	530	205	275	650	(375)	-58%	650	650	650	650	650
06-402-000-450 Audit Fees	5,050	5,300	5,550	5,450	100	2%	5,450	5,600	5,750	5,900	6,050
06-404-000-000 Legal Fees	19,969	15,202	7,391	20,800	(13,409)	-64%	25,000	25,000	25,000	25,000	25,000
06-406-000-100 Utility Billing Costs	18,530	8,079	10,904	10,000	904	9%	12,000	12,000	12,000	12,000	12,000
06-408-000-000 Engineering Fees	166,097	127,632	354,921	150,000	204,921	137%	175,000	175,000	175,000	175,000	175,000
Total General Expenses	557,033	505,158	720,243	571,691	148,552	26%	635,291	640,847	630,655	643,722	656,147
Building Expenses											
06-409-000-031 Lawn Care	11,528	1,194	-	5,000	(5,000)	-100%	5,000	5,000	5,000	5,000	5,000
06-409-000-032 Telephone	13,228	14,923	12,021	15,000	(2,979)	-20%	15,000	15,000	15,000	15,000	15,000
06-409-000-035 Insurance - Property	-	6,974	10,726	8,756	1,970	22%	11,078	11,632	12,213	12,824	13,465
06-409-000-036 Electric	204,222	250,538	194,982	250,000	(55,018)	-22%	250,000	250,000	250,000	250,000	250,000
06-409-000-037 Water	6,366	11,628	16,733	25,000	(8,267)	-33%	20,000	20,000	20,000	20,000	20,000
06-409-000-052 Building Maintenance & Repair	600	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	1,014	259	16,011	5,000	11,011	220%	15,000	15,000	15,000	15,000	15,000
06-409-000-427 Waste Disposal	-	-	250	-	-	-	-	-	-	-	-
Total Building Expenses	236,958	287,030	250,473	318,756	(68,283)	-21%	326,078	326,632	327,213	327,824	328,465
Operations											
06-420-000-020 Supplies	11,076	19,287	48,324	20,000	28,324	142%	50,000	50,000	50,000	50,000	50,000
06-420-000-022 Chemicals	7,377	10,680	9,539	15,000	(5,461)	-36%	15,000	20,000	20,000	20,000	20,000
06-420-000-023 Propane & Fuel Oil	467	4,649	851	5,000	(4,149)	-83%	5,000	5,000	5,000	5,000	5,000
06-420-000-025 Maintenance & Repair	134,712	98,619	75,677	120,000	(44,323)	-37%	120,000	120,000	120,000	120,000	120,000
06-420-000-030 Testing	35,664	42,973	28,274	40,000	(11,726)	-29%	35,000	35,000	35,000	35,000	35,000
06-420-000-031 Pump and Haul	59,530	50,600	47,904	50,000	(2,096)	-4%	50,000	45,000	40,000	40,000	40,000
06-420-000-032 Vegetation Management	16,256	10,228	18,056	20,000	(1,944)	-10%	20,000	20,000	20,000	20,000	20,000
06-420-000-035 Permits	2,967	3,768	2,366	5,000	(2,634)	-53%	5,000	5,000	5,000	5,000	5,000
06-420-000-042 Dues and Memberships	2,100	2,100	10	2,500	(2,490)	-100%	-	-	-	-	-
06-420-000-045 Contracted Services	119,358	142,952	134,964	135,000	(36)	0%	150,000	150,000	150,000	150,000	150,000
06-420-000-048 Misc Expenses	-	27,070	1,299	10,000	(8,701)	-87%	10,000	10,000	10,000	10,000	10,000
06-420-000-235 Vehicle Maintenance	-	3,910	39	2,000	(1,961)	-98%	2,000	2,000	2,000	2,000	2,000
06-420-000-329 PA One Call	-	1,541	1,042	2,500	(1,458)	-58%	2,500	2,500	2,500	2,500	2,500
Total Operations	389,507	418,377	368,345	427,000	(58,655)	-14%	464,500	464,500	459,500	459,500	459,500

Upper Uwchlan Municipal Authority
2020 BUDGET and FIVE YEAR PROJECTION

	2017 Actual (audited)	2018 Actual (audited)	YTD 2019 (thru 10/31)	2019 Budget	\$ Over Budget	% of Budget	2020 Budget	2021 Budget	2022 Budget	2023 Budget	2024 Budget
06-483-000-000 Capital Repair	2,497	-	605,487	50,000	555,487	1111%	50,000	50,000	50,000	50,000	50,000
06-483-000-100 Capital Construction	-	-	-	1,500,000	-	0%	1,500,000	2,500,000	2,000,000	-	-
06-492-000-000 Start Up Costs	-	-	-	-	-	0%	-	-	-	-	-
06-493-000-083 Depreciation	56,406	87,514	-	50,000	(50,000)	-100%	100,000	100,000	100,000	100,000	100,000
Total Misc. Expenses	58,903	87,514	605,487	1,600,000	505,487	32%	1,650,000	2,650,000	2,150,000	150,000	150,000
06-492-000-020 Transfer to Water Resource Protection F	-	-	-	-	-	0%	-	-	-	-	-
Tapping Fee Reimbursement	-	-	-	-	-	0%	-	-	-	-	-
	-	-	-	-	-	#DIV/0!	-	-	-	-	-
Total Expenses	1,242,401	1,298,079	1,944,548	2,917,447	(972,899)	-33%	3,075,869	4,081,979	3,567,368	1,581,046	1,594,113
Net Income before Operations Agreement	1,502,921	982,452	13,318	7,274,345	(7,261,027)	-100%	921,232	512,622	115,083	1,398,505	1,373,038
Other											
06-471-000-010 Operations Mgt Agree-2014 Bonds	364,562	364,339	280,631	369,213	(88,582)	-24%	-	-	-	-	-
06-471-000-020 Operations Mgt Agree-2019 Bonds	-	-	81,267	190,681	(109,414)	-57%	237,494	236,744	235,994	235,244	239,344
06-471-000-030 Operations Mgt Agree-2019A Bonds	-	-	-	-	-	0%	335,300	336,200	337,000	332,700	334,475
Total Other	364,562	364,339	361,898	559,894	(197,996)	-35%	572,794	572,944	572,994	567,944	573,819
Net Income after Operations Agreement	1,138,359	618,113	(348,580)	6,714,451	(7,063,031)	-105%	348,438	(60,321)	(457,911)	830,561	799,219

**Upper Uwchlan Township Municipal Authority
2020 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2020 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 2020 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 2020 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
Repave WWTP Driveway ¹				1	EA	\$20,000.00	\$20,000.00
Pine Tree Removal ¹				1	LS	\$4,000.00	\$4,000.00
							\$0.00
Total Estimated Cost:							\$24,000.00

Notes:

1. Estimated Cost as provided by Department of Public Works

**Upper Uwchlan Township Municipal Authority
2020 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2020 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
Repave WWTP Driveway ¹				1	EA	\$20,000.00	\$20,000.00
Replace SBR Blower				1	LS	\$11,000.00	\$11,000.00
Pine Tree Removal ²				1	LS	\$5,000.00	\$5,000.00
Total Estimated Cost:							\$36,000.00

Notes:

1. Estimated Cost as provided by the Department of Public Works
2. Estimated Cost per recent bidding documents - this cost may vary based on caliper and height of trees

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 2020 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	\$18.20	\$5,460.00
Spare pump for remote pump stations ²				4	LS	\$10,900.00	\$43,600.00
Total Estimated Cost:							\$49,060.00

Notes:

1. Quantity is approximate and may change upon closer inspection
2. Spare pumps are required at the Windsor Ridge, Ewing West Vincent, Ewing Tract, and Reserve at Eagle 2 pump stations. Estimated cost per WWTP operator Brain Norris.

**Upper Uwchlan Township Municipal Authority
2020 Capital Budget Equipment Replacement Recommendations**

The following are recommendations for replacement or maintenance of equipment and facilities for the year 2020 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:

- There are no recommendations for replacement or capital maintenance of equipment for the year 2020 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:

- There are no recommendations for replacement or capital maintenance of equipment for the year 2020 at this wastewater system.

2020 Summary Capital Budget Replacement Costs

UUTMA Wastewater Facility Equipment Recommendations	
Eaglepointe Wastewater System	\$0.00
Greenridge Wastewater System	\$0.00
Lakeridge Wastewater System	\$24,000.00
Marsh Harbour Wastewater System	\$36,000.00
Meadow Creek Wastewater System	\$0.00
Route 100 Wastewater System	\$49,060.00
Saybrooke Wastewater System	\$0.00
St. Andrew's Brae Wastewater System	\$0.00
Act 537 Plan Update	\$65,220.00
Byers Road Sanitary Sewer Extension	\$1,100,000.00
Miscellaneous Budgetary Items	
System - UCC Code Updates	\$30,000.00
Capital Equipment Purchases shared with Twp	\$19,200.00
System - Misc. Capital Purchases	\$25,000.00
Total Cost:	\$1,348,480.00

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

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 charged 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.

GLOSSARY, cont'd

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.

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



VIA ELECTRONIC MAIL

December 11, 2019

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

Trappe Office
350 West Main Street
Suite 200
Trappe, PA 19426
O 610-495-2103

RE: Upper Uwchlan Township Municipal Authority
Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement
Contract LSHT – A – General Construction – Blooming Glen Contractors, Inc.
Payment Application No. 7
ARRO No. 10270.53

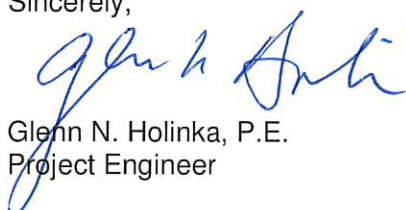
Dear Gentlemen:

Please find enclosed a copy of Lakeridge Sludge Holding Tank Replacement for Payment Application No. 7 in the amount of \$33,065.28 submitted by Blooming Glen Contractors, Inc. for work completed through November 12, 2019. This application includes partial payments work associated with startup, existing tank decommissioning, and miscellaneous work in the yard.

We recommend that the Authority approve payment to Blooming Glen Contractors, Inc. in the amount of \$33,065.28, which represents the value of the work completed less five percent (5%) retainage in accordance with the terms of the Agreement and less previous payments.

If you have any questions, please feel free to contact me at glenn.holinka@arroconsulting.com or by telephone at 484.294.4351.

Sincerely,



Glenn N. Holinka, P.E.
Project Engineer

GNH

Enclosure

C: Gwen Jonik – Upper Uwchlan Township (via email)
Jill Bukata – Upper Uwchlan Township (via email)
Sandy Diffendal – Upper Uwchlan Township (via email)
Kyle Taylor - Blooming Glen Contractors, Inc. (via email)
G. Matthew Brown, P.E., DEE – ARRO (via email)
Glenn N. Holinka P.E. – ARRO (via email)

APPLICATION FOR PAYMENT NO.7

69

TO (OWNER): Upper Uwchlan Township PROJECT NO.: LHST-A PERIOD TO: 11/18/19

FROM (CONTRACTOR): Blooming Glen Contractors, Inc.-Water & Wastewater Services Division CONTRACT DATE: 12/17/18

CONTRACT FOR: Site Work-Lakeridge Sludge Holding Tank

PAGE 1 OF 2

CHANGE ORDER SUMMARY		ADDITIONS	DELETIONS
Change Orders approved in previous months by Owner			
TOTAL			-\$1,491.68
Approved this Month			
Number	Date Approved		
COR002	05/28/19 Time Extension		
TOTALS			
Net change by Change Orders			-\$1,491.68

1. ORIGINAL CONTRACT SUM	\$ \$520,500.00
2. Net change by Change Orders	\$ (\$1,491.68)
3. CONTRACT SUM TO DATE (Line 1±2)	\$ \$519,008.32
4. TOTAL COMPLETED TO DATE (Columns B+C on Page 2)	\$ \$446,740.45
5. RETAINAGE: <u>5</u> % of Completed Work	\$ \$22,337.02
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5)	\$ \$424,403.43
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Application)	\$ \$391,338.15
8. CURRENT AMOUNT DUE	\$ \$33,065.28
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)	\$ \$94,604.89

CONTRACTOR'S CERTIFICATION:

The undersigned Contractor certifies that (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied to discharge in full all obligations of Contractor incurred in connection with Work covered by prior Applications for Payment numbered 1 through _ inclusive and that such payments have been made in compliance with the Pennsylvania Prompt Pay Act, Act 142 of 1994; (2) title to all materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment, free and clear of all liens, claims, security interests and encumbrances (except such as covered by Bond acceptable to Owner indemnifying Owner against any such lien, claim, security interest, or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective, as that term is defined in the Contract Documents.

Dated 12/11/19 2019

Blooming Glen Contractors, Inc.-Water & Wastewater Services Division

By Carly Henry CONTRACTOR
Carly Henry, President/Asst. Sect.

Jennifer S. Kratz

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
JENNIFER S. KRATZ, Notary Public
Skeppack Twp., Montgomery County
My Commission Expires July 25, 2020

Payment of the above CURRENT AMOUNT DUE is recommended.

Dated December 11, 2019

By John H. Hinc ARRO CONSULTING, INC.
ENGINEER

(Authorized Signature)

APPLICATION FOR PAYMENT NO.7

CONTRACT FOR: Site Work-Lakeridge Sludge Holding Tank

PERIOD TO: 11/18/19

Project # LHST-A

PAGE 2 OF 2

Item No.	DESCRIPTION OF WORK	CONTRACTOR's Schedule of Values - A				WORK COMPLETED			
						Previous Applic - B		This Period - C	
1	Bonds & Insurance	LS	\$11,895.00	1	\$11,895.00	1	\$11,895.00		
2	Mobilization	LS	\$2,900.00	1	\$2,900.00	1	\$2,899.10		
3	Demobilization	LS	\$1,555.00	1	\$1,555.00				
4	As-Builts & Close-Out	LS	\$1,166.00	1	\$1,166.00				
5	Excavate & Shore For Precast	LS	\$57,570.00	1	\$57,570.00	1	\$57,570.00		
6	Backfill Vault, Remove Shoring	LS	\$18,386.00	1	\$18,386.00	0.95	\$17,466.70	0.05	\$919.30
7	Backfill Sludge Pit & New Floor	LS	\$8,968.00	1	\$8,968.00	0	\$0.00	1	\$8,968.00
8	Furnish & Set Precast Tank	LS	\$80,088.00	1	\$80,088.00	1	\$80,088.00		
9	Pour in Place Vault Concrete	LS	\$7,851.00	1	\$7,851.00	1	\$7,851.00		
10	F&I Hatches	LS	\$11,107.00	1	\$11,107.00	1	\$11,107.00		
11	Mechanical Work, Sludge Tank	LS	\$120,524.00	1	\$120,524.00	0.95	\$114,497.80	0.05	\$6,026.20
12	Mechanical Work, Odor Control	LS	\$35,671.00	1	\$35,671.00	0.95	\$33,887.45	0.05	\$1,783.55
13	Replace Blower	LS	\$13,879.00	1	\$13,879.00	0.95	\$13,185.05	0.05	\$693.95
14	Replace Unit Heaters	LS	\$12,900.00	1	\$12,900.00	1	\$12,900.00		
15	Demolition of Sludge Pit	LS	\$23,518.00	1	\$23,518.00	0	\$0.00	0.55	\$12,934.90
16	Yard Piping to New Vault	LS	\$17,569.00	1	\$17,569.00	1	\$17,569.00		
17	Yard Piping Connections	LS	\$14,813.00	1	\$14,813.00	0.95	\$14,072.35	0.05	\$740.65
18	Temp & Perm Fence Work	LS	\$14,820.00	1	\$14,820.00				
19	Electrical Trench Work	LS	\$10,863.00	1	\$10,863.00	1	\$10,863.00		
20	Bollards	LS	\$2,739.00	1	\$2,739.00	0	\$0.00	1	\$2,739.00
21	Grass Restoration	LS	\$4,922.00	1	\$4,922.00				
22	Asphalt	LS	\$25,479.00	1	\$25,479.00				
23	E&S	LS	\$7,157.00	1	\$7,157.00	0.85	\$6,083.45		
24	Unclassified Excavation	CY	\$94.00	10	\$940.00				
25	2A Backfill	CY	\$56.00	10	\$560.00				
26	Misc Concrete	CY	\$434.00	5	\$2,170.00				
27	Rock Removal	CY	\$299.00	10	\$2,990.00				
28	Permits & Inspections	LS	\$7,500.00	1	\$7,500.00				
Totals					\$520,500.00		\$411,934.90		\$34,805.55
CO No.	CHANGE ORDERS								
1	Adjust Location of Sludge Tank	LS	-1491.68	1	-1491.68				
2	Time Extension 05/21/19	LS	0		0				
Totals			-1491.68		-1491.68				



VIA ELECTRONIC MAIL

December 10, 2019

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

Trappe Office
350 West Main Street
Suite 200
Trappe, PA 19426
O 610-495-2103

RE: Upper Uwchlan Township Municipal Authority
Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement
Contract LSHT – B – Electrical Construction – Eastern Environmental Contractors, Inc.
Payment Application No. 4
ARRO No. 10270.53

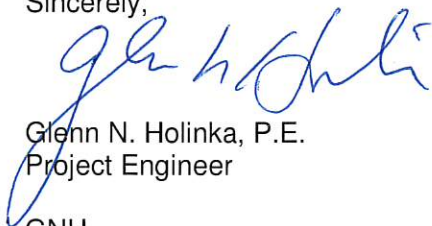
Dear Gentlemen:

Please find enclosed a copy of Lakeside Sludge Tank Replacement for Payment Application No. 4 in the amount of \$8,807.54 submitted by Eastern Environmental Contractors, Inc. for work completed through November 30, 2019. This application includes partial payments work associated with the continued installation and connection of electrical wiring and devices and demobilization.

We recommend that the Authority approve payment to Eastern Environmental Contractors, Inc. in the amount of \$8,807.54, which represents the value of the work completed less five percent (5%) retainage in accordance with the terms of the Agreement and less previous payments.

If you have any questions, please feel free to contact me at glenn.holinka@arroconsulting.com or by telephone at 484.294.4351.

Sincerely,



Glenn N. Holinka, P.E.
Project Engineer

GNH
Enclosure

C: Gwen Jonik – Upper Uwchlan Township (via email)
Jill Bukata – Upper Uwchlan Township (via email)
Sandy Diffendal – Upper Uwchlan Township (via email)
Kyle Taylor - Blooming Glen Contractors, Inc. (via email)
G. Matthew Brown, P.E., DEE – ARRO (via email)
Glenn N. Holinka P.E. – ARRO (via email)

APPLICATION FOR PAYMENT NO. Four

72

TO (OWNER): Upper Uwchlan Township Municipal Authority PROJECT NO.: 10270.53 PERIOD TO: 11/1/19 to 11/30/19
140 Pottstown Pike, Chester Springs, PA

FROM (CONTRACTOR): Eastern Environmental Contractors, Inc. CONTRACT DATE: 12/27/18
6304 5th Street, PO Box 278 Green Lane, PA 18054

CONTRACT FOR: Upper Uwchlan Township, Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement

PAGE 1 OF 2

CHANGE ORDER SUMMARY		ADDITIONS	DELETIONS
Change Orders approved in previous months by Owner			
TOTAL		\$5,150.01	
Approved this Month			
Number	Date Approved		
3	5/28/2019		
2	5/28/2019		
TOTALS			
Net change by Change Orders		\$5,150.01	

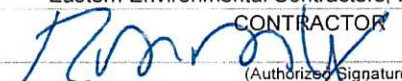
1. ORIGINAL CONTRACT SUM	\$ 59,350.00
2. Net change by Change Orders	\$ 5,150.01
3. CONTRACT SUM TO DATE (Line 1±2)	\$ 64,500.01
4. TOTAL COMPLETED TO DATE (Columns B+C on Page 2)	\$ 54,350.01
5. RETAINAGE: 5% of Completed Work	\$ 2,717.50
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5)	\$ 51,632.51
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Application)	\$ 42,824.97
8. CURRENT AMOUNT DUE	\$ 8,807.54
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)	\$ 12,867.50

CONTRACTOR'S CERTIFICATION:

The undersigned Contractor certifies that (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied to discharge in full all obligations of Contractor incurred in connection with Work covered by prior Applications for Payment numbered 1 through _ inclusive and that such payments have been made in compliance with the Pennsylvania Prompt Pay Act, Act 142 of 1994; (2) title to all materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment, free and clear of all liens, claims, security interests and encumbrances (except such as covered by Bond acceptable to Owner indemnifying Owner against any such lien, claim, security interest, or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective, as that term is defined in the Contract Documents.

Dated 30-Nov, 2019

Eastern Environmental Contractors, Inc.

By  CONTRACTOR
(Authorized Signature)

Payment of the above CURRENT AMOUNT DUE is recommended.

Dated December 10, 2019

ARRO CONSULTING, INC.

By  ENGINEER
(Authorized Signature)

APPLICATION FOR PAYMENT NO. Four

CONTRACT FOR: Upper Uwchlan Township, Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement

PERIOD TO: 11/1/19 to 11/30/19

Project # 10270.53

PAGE 2 OF 2

Item No.	DESCRIPTION OF WORK	CONTRACTOR's Schedule of Values - A				WORK COMPLETED			
		Unit	Unit Price	Quantity	Ext. Price	Previous Applic - B		This Period - C	
						Quantity	Amount	Quantity	Amount
1	Mobilization	lump	\$ 2,967.00	1	\$ 2,967.00	0.2	\$ 593.40	0.8	\$ 2,373.60
2	Demolition	lump	\$ 3,550.00	1	\$ 3,550.00	0.2	\$ 710.00	0.8	\$ 2,840.00
3	Install Electrical Equipment	lump	\$ 15,800.00	1	\$ 15,800.00	0.95	\$15,010.00	0.05	\$ 790.00
4	Install Buried Conduit	lump	\$ 6,000.00	1	\$ 6,000.00	1	\$ 6,000.00	0	\$ -
5	Install Conduit & Wire	lump	\$ 20,883.00	1	\$ 20,883.00	0.95	\$19,838.85	0.05	\$ 1,044.15
6	As-builts & Closeout	lump	\$ 2,650.00	1	\$ 2,650.00	0	\$ -	0	\$ -
7	Permit Allowance	lump	\$ 7,500.00	1	\$ 7,500.00	0	\$ -		\$ -
Totals					\$ 59,350.00		\$42,152.25		\$ 7,047.75
CO No.	CHANGE ORDERS								
1	Tank Location Adjustment	Lump	\$ 1,491.68	1	\$ 1,491.68	0	\$ -	1	\$ 1,491.68
2	No cost time extension		0		0				
3	New feed for heater circuits	Lump	\$ 3,658.33	1	\$ 3,658.33	0.8	\$ 2,926.66	0.2	\$ 731.67
Totals			\$ 5,150.01		\$ 5,150.01		\$ 2,926.66		\$ 2,223.35