



AGENDA

July 23, 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: May 28, 2019	2
III.	Approval of Payments: June 2019 July 2019	4
IV.	Executive Session re: legal matters	
V.	Authority Administration Reports	
	A. Clean Water, Inc. Monthly Report	17
	B. ARRO Consulting Monthly Report	19
	C. Authority Administrator's Report	42
	D. Public Works Department Report	43
VI.	Open Session	
VII.	Next Meeting Date: August 27, 2019 ~ 7:30 p.m.	
	Location: Temporary Township Administration Office 415 Eagleview Boulevard, Suite 116, Exton 19341	
VIII.	Adjournment	



MEETING MINUTES

May 28, 2019

7:30 PM

DRAFT

In Attendance: D. Carlson, Chairman (by telephone), H. Harper, Vice-Chairman, L. Schack, Member, W. Quinn, Member, G. Matthew Brown, P.E., DEE, Authority Administrator, Brady Flaharty, P.E., ARRO Consulting, Inc.

Call to Order

H. Harper called the meeting to order at 7:34 PM.

Miscellaneous Issues

Dan O'Brien from RBC Capital Markets presented a proposal for refinancing the 2014 General Obligation Bonds issued by the Township for sewer system improvements.

Following a brief discussion and question and answer period, L. Schack moved to recommend to the Township to go forward with the refinancing following the level savings option. W. Quinn seconded. It was so moved.

At 8:09 PM, the Authority called for a brief Executive Session to discuss potential legal matters. The Executive Session ended at 8:21 PM.

Alex and Bridget Rose were in attendance relative to their request for a refund of late fees during their bankruptcy. The Authority offered a refund of \$3,341.32 as a final settlement of the late fees. Mr. and Mrs. Rose accepted the offer, acknowledged that was the final settlement and thanked the Authority Board for their reconsideration. M. Brown noted a check for that amount was included with the payments for the month to be approved.

Approval of Minutes

Draft minutes of the April 23, 2019 meeting were presented. D. Carlson made a motion to approve the minutes as submitted. W. Quinn seconded. It was so moved.

Approval of Payments

Following questions and a brief discussion, a motion was made by W. Quinn to approve the payments for May 2019 and to accept in good faith the Balance Sheet and Revenue and Expenses Reports as prepared by the Township Treasurer. L. Schack seconded the motion. It was so moved.

Authority Administration Reports

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

M. Brown noted the Task Activity Report had been approved by PADEP and a grant application was submitted for the new Township Act 537 Plan.

M. Brown then presented Change Order No. 2 for the General Contractor, Eastern Environmental, on the Lakeridge Sludge Tank project. It included a time extension of 90 days due to a delay in the manufacturer's delivery date. W. Quinn moved, seconded by D. Carlson to approve the Change Order. It was so moved. M. Brown then presented Change Orders No. 2 and 3 for the Electrical Contractor, Blooming Glen, on the Lakeridge Sludge Tank project. Change Order No. 2 mirrored the time extension of 90 days approved for the General Contractor. Change Order No. 3 was for an increase in cost of \$3,658.33 due to additional replacement of wiring and conduit found to be badly corroded during the demolition portion of the project. W. Quinn moved to approve both Change orders. L. Schack seconded. It was so moved.

D. Carlson noted the replacement of the fence at the Greenridge WWTF was a very good job, complimenting Township Staff and the contractor.

Open Session

No further public comment was made.

Next Meeting Date: June 25, 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, W. Quinn moved, seconded by L. Schack to adjourn the meeting at 8:45 PM.

Respectfully submitted,

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

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02:06 PM

Upper Uwchlan Township
Check Register By Check Id

Page No: 1

Range of Checking Accts: MA MERIDIAN to MA MERIDIAN Range of Check Ids: 1918 to 1945
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
1918	06/25/19	PROMAX PRO MAX FENCE SYSTEMS	476.21	2033
1919	07/23/19	AQUAP010 AQUA PA	1,210.19	2047
1920	07/23/19	ARROC010 ARRO CONSULTING, INC.	52,231.72	2047
1921	07/23/19	BARBA010 BARBACANE THORNTON & COMPANY	1,700.00	2047
1922	07/23/19	BUCKL010 BUCKLEY, BRION, MCGUIRE, MORRI	420.00	2047
1923	07/23/19	CHRISFRA FRANTZ, CHRISTOPHER	463.50	2047
1924	07/23/19	CLEANWAT CLEAN WATER, INC.	11,155.00	2047
1925	07/23/19	COMMO010 COMMONWEALTH OF PENNSYLVANIA	490.00	2047
1926	07/23/19	COMMO030 COMMONWEALTH OF PENNSYLVANIA	100.00	2047
1927	07/23/19	DECKM010 DECKMAN ELECTRIC, INC.	1,881.00	2047
1928	07/23/19	DELTRUST DELAWARE VALLEY PROP&LIA TRST	3,575.25	2047
1929	07/23/19	DJRCATTI DJR CATTLE COMPANY	813.00	2047
1930	07/23/19	EAGLHARD EAGLE HARDWARE	59.45	2047
1931	07/23/19	INKS0010 INK'S DISPOSAL SERVICE, INC.	735.00	2047
1932	07/23/19	MAPLEDIR MAPLE DIRECT INC	1,400.50	2047
1933	07/23/19	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC	6,682.19	2047
1934	07/23/19	MJREIDER M. J. REIDER ASSOCIATES, INC.	1,032.50	2047
1935	07/23/19	PEC00010 PECO	17,117.83	2047
1936	07/23/19	PENNS080 PENNSYLVANIA ONE CALL	123.18	2047
1937	07/23/19	PRED0010 PREDOC	1,015.61	2047
1938	07/23/19	QUTNNCO QUINN CONSTRUCTION, INC	61,707.26	2047
1939	07/23/19	SHRWILWC THE SHERWIN WILLIAMS CO.	34.60	2047
1940	07/23/19	STAPLADV STAPLES ADVANTAGE	69.68	2047
1941	07/23/19	SWEETWAT SWEETWATER NATURAL PRODUCTS LL	36.00	2047
1942	07/23/19	VERIZ010 VERIZON	1,074.46	2047
1943	07/23/19	VERIZFIO VERIZON	132.40	2047
1944	07/25/19	ALSGROUP ALS GROUP USA, CORP	3,977.70	2048
1945	07/25/19	AQUAPA AQUA PA	75.00	2048

Report Totals	<u>Paid</u>	<u>Void</u>	<u>Amount Paid</u>	<u>Amount Void</u>
Checks:	28	0	169,789.23	0.00
Direct Deposit:	0	0	0.00	0.00
Total:	28	0	169,789.23	0.00

Range of Checking Accts: MA MERIDIAN to MA MERIDIAN Range of Check Ids: 1918 to 1945
 Report Type: All Checks Report Format: Detail Check Type: Computer: Y Manual: Y Dir Deposit: Y 5

Check #	Check Date	Vendor	Amount	Paid	Charge Account	Account Type	Reconciled/Void	Ref	Num
PO #	Item	Description					Contract	Ref Seq	Acct
1918	06/25/19	PROMAX PRO MAX FENCE SYSTEMS							2033
19-00895	1	wwtf fence installations-final	476.21		06-483-000-000	Expenditure		1	1
					Capital Repair				
1919	07/23/19	AQUAP010 AQUA PA							2047
19-01038	1	119 prescott drive	18.00		06-409-000-037	Expenditure		71	1
					Water				
19-01038	2	100 milford road	18.00		06-409-000-037	Expenditure		72	1
					Water				
19-01038	3	100 prescott drive	18.00		06-409-000-037	Expenditure		73	1
					Water				
19-01038	4	meadow creek lane	19.00		06-409-000-037	Expenditure		74	1
					Water				
19-01038	5	308 flagstone road	18.00		06-409-000-037	Expenditure		75	1
					Water				
19-01038	6	1 prospect hill blvd	51.00		06-409-000-037	Expenditure		76	1
					Water				
19-01038	7	528 walter court	19.19		06-409-000-037	Expenditure		77	1
					Water				
19-01038	8	325 fellowship road	850.00		06-409-000-037	Expenditure		78	1
					Water				
19-01038	9	658 collingwood terr	51.00		06-409-000-037	Expenditure		79	1
					Water				
19-01038	10	241 fellowship road	18.00		06-409-000-037	Expenditure		80	1
					Water				
19-01038	11	29 yarmouth lane	18.00		06-409-000-037	Expenditure		81	1
					Water				
19-01038	12	425 hemlock lane	40.00		06-409-000-037	Expenditure		82	1
					Water				
19-01038	13	2680 primrose court	18.00		06-409-000-037	Expenditure		83	1
					Water				
19-01038	14	381 lcr	18.00		06-409-000-037	Expenditure		84	1
					Water				
19-01038	15	111 dorothy lane	18.00		06-409-000-037	Expenditure		85	1
					Water				
19-01038	16	1120 sunderland ave	18.00		06-409-000-037	Expenditure		86	1
					Water				
			1,210.19						
1920	07/23/19	ARROC010 ARRO CONSULTING, INC.							2047
19-01014	1	project 9310.32 ww system admi	9,480.75		06-400-000-002	Expenditure		1	1
					Authority Administrator				
19-01014	2	project 10270.48 byers rd	477.00		06-408-000-000	Expenditure		2	1
					Engineering Fees				
19-01014	3	project 10270.53 lakeridge	1,199.00		06-408-000-000	Expenditure		3	1
					Engineering Fees				
19-01014	4	project 10270.56 rt 100 map	18,032.50		06-408-000-000	Expenditure		4	1
					Engineering Fees				
19-01014	5	project 10270.57 effluent tank	5,344.39		06-408-000-000	Expenditure		5	1
					Engineering Fees				

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Check #	Check Date	Vendor	Amount Paid Charge Account			Reconciled/Void	Ref	Ref Num	6
PO #	Item	Description	Account Type	Contract	Ref Seq	Acct			
1920	ARRO CONSULTING, INC.	Continued							
19-01014	6	project 10270.61 act 537	151.75	06-408-000-000		Expenditure	6	1	
				Engineering Fees					
19-01014	7	project 10270.64 milford farms	7,050.00	06-408-000-000		Expenditure	7	1	
				Engineering Fees					
19-01014	8	project 10270.66 route 100	1,142.25	06-408-000-000		Expenditure	8	1	
				Engineering Fees					
19-01014	9	project 10270.68 act 537	1,905.25	06-408-000-000		Expenditure	9	1	
				Engineering Fees					
19-01014	10	project 10270.69 disposal fiel	2,540.50	06-408-000-000		Expenditure	10	1	
				Engineering Fees					
19-01014	11	project 17000.00	4,908.33	06-408-000-000		Expenditure	11	1	
				Engineering Fees					
			52,231.72						
1921	07/23/19	BARBA010 BARBACANE THORNTON & COMPANY							
19-01017	1	2018 final billing	1,700.00	06-402-000-450		Expenditure	2047		
				Audit Fees			22	1	
1922	07/23/19	BUCKL010 BUCKLEY, BRION, MCGUIRE, MORRI							
19-01018	1	ma- sewer collections	420.00	06-404-000-000		Expenditure	2047		
				Legal Fees			23	1	
1923	07/23/19	CHRISFRA FRANTZ, CHRISTOPHER							
19-01022	1	ma - frame/ tapping fee	463.50	06-404-000-000		Expenditure	2047		
				Legal Fees			33	1	
1924	07/23/19	CLEANWAT CLEAN WATER, INC.							
19-01021	1	monthly operations	11,155.00	06-420-000-045		Expenditure	2047		
				Contracted Services			32	1	
1925	07/23/19	COMM0010 COMMONWEALTH OF PENNSYLVANIA							
19-01019	1	route 100 reginal wwt	100.00	06-420-000-035		Expenditure	2047		
				Permits			24	1	
19-01019	2	eaglepointe	65.00	06-420-000-035		Expenditure	2047		
				Permits			25	1	
19-01019	3	greenridge	65.00	06-420-000-035		Expenditure	2047		
				Permits			26	1	
19-01019	4	lakeridge	65.00	06-420-000-035		Expenditure	2047		
				Permits			27	1	
19-01019	5	marsh harbor	65.00	06-420-000-035		Expenditure	2047		
				Permits			28	1	
19-01019	6	saybrooke	65.00	06-420-000-035		Expenditure	2047		
				Permits			29	1	
19-01019	7	st. andrews	65.00	06-420-000-035		Expenditure	2047		
				Permits			30	1	
			490.00						
1926	07/23/19	COMM0030 COMMONWEALTH OF PENNSYLVANIA							
19-01020	1	marsh creek sp	100.00	06-420-000-035		Expenditure	2047		
				Permits			31	1	

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Check #	Check Date	Vendor	Amount Paid	Charge Account	Reconciled/Void	Ref Num		
PO #	Item	Description			Account Type	Contract	Ref Seq	Acct
1927	07/23/19	DECKM010 DECKMAN ELECTRIC, INC.					2047	
19-01024	1	aerator motor	1,881.00	06-420-000-020 Supplies	Expenditure		35	1
1928	07/23/19	DELTRUST DELAWARE VALLEY PROP&LIA TRST					2047	
19-01025	1	ma - property insurance	2,189.10	06-409-000-035 Insurance	Expenditure		36	1
19-01025	2	ma - liability insurance	1,386.15	06-409-000-035 Insurance	Expenditure		37	1
			3,575.25					
1929	07/23/19	DJRCATTL DJR CATTLE COMPANY					2047	
19-01023	1	29 acres sprayed - ewing	813.00	06-420-000-045 Contracted Services	Expenditure		34	1
1930	07/23/19	EAGLHARD EAGLE HARDWARE					2047	
19-01026	1	ma - grass/weed killer	21.99	06-420-000-020 Supplies	Expenditure		38	1
19-01026	2	ma - rake	17.99	06-420-000-020 Supplies	Expenditure		39	1
19-01026	3	ma - flat maso	12.98	06-420-000-020 Supplies	Expenditure		40	1
19-01026	4	ma - wire block brush	6.49	06-420-000-020 Supplies	Expenditure		41	1
			59.45					
1931	07/23/19	INKS0010 INK'S DISPOSAL SERVICE, INC.					2047	
19-01027	1	eaglepointe ps service	735.00	06-420-000-025 Maintenance & Repair	Expenditure		42	1
1932	07/23/19	MAPLEDIR MAPLE DIRECT INC					2047	
19-01039	1	2019 Q3 sewer bill postage	1,400.50	06-406-000-100 Utility Billing Costs	Expenditure		87	1
1933	07/23/19	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC					2047	
19-01028	1	lakeridge	1,564.00	06-420-000-031 Pump & Haul	Expenditure		43	1
19-01028	2	saybrooke	351.90	06-420-000-031 Pump & Haul	Expenditure		44	1
19-01028	3	eaglepointe	404.69	06-420-000-031 Pump & Haul	Expenditure		45	1
19-01028	4	route 100	77.63	06-420-000-031 Pump & Haul	Expenditure		46	1
19-01028	5	eaglepointe	1,765.97	06-420-000-031 Pump & Haul	Expenditure		47	1
19-01028	6	route 100 wtp	475.78	06-420-000-031 Pump & Haul	Expenditure		48	1
19-01028	7	route 100 wtp	2,042.22	06-420-000-031 Pump & Haul	Expenditure		49	1
			6,682.19					

Check #	Check Date	Vendor	Amount Paid		Reconciled/Void	Ref Num		
PO #	Item	Description			Account Type	Contract	Ref Seq	Acct
1934	07/23/19	MJREIDER M. J. REIDER ASSOCIATES, INC.						2047
19-01029	1	eaglepointe	42.00	06-420-000-030 Testing	Expenditure		50	1
19-01029	2	st. andrews	136.50	06-420-000-030 Testing	Expenditure		51	1
19-01029	3	reserve,eagle hunt,byers,ewing	56.00	06-420-000-030 Testing	Expenditure		52	1
19-01029	4	marsh harbor	122.50	06-420-000-030 Testing	Expenditure		53	1
19-01029	5	eaglepointe	150.50	06-420-000-030 Testing	Expenditure		54	1
19-01029	6	rt 100 wtp	108.50	06-420-000-030 Testing	Expenditure		55	1
19-01029	7	lakeridge	108.50	06-420-000-030 Testing	Expenditure		56	1
19-01029	8	greenridge	108.50	06-420-000-030 Testing	Expenditure		57	1
19-01029	9	st. andrews	77.00	06-420-000-030 Testing	Expenditure		58	1
19-01029	10	st. andrews	14.00	06-420-000-030 Testing	Expenditure		59	1
19-01029	11	saybrooke	108.50	06-420-000-030 Testing	Expenditure		60	1
			1,032.50					
1935	07/23/19	PECO0010 PECO						2047
19-01040	1	304 fellowship road	147.79	06-409-000-036 Electric	Expenditure		88	1
19-01040	2	2500 eagle farms road	463.24	06-409-000-036 Electric	Expenditure		89	1
19-01040	3	seabury lane	30.62	06-409-000-036 Electric	Expenditure		90	1
19-01040	4	primrose court	814.35	06-409-000-036 Electric	Expenditure		91	1
19-01040	5	100 prescott drive	301.05	06-409-000-036 Electric	Expenditure		92	1
19-01040	6	meadow creek lane	38.49	06-409-000-036 Electric	Expenditure		93	1
19-01040	7	301 pottstown pike	521.11	06-409-000-036 Electric	Expenditure		94	1
19-01040	8	kristines way	118.97	06-409-000-036 Electric	Expenditure		95	1
19-01040	9	711 dorian road	313.42	06-409-000-036 Electric	Expenditure		96	1
19-01040	10	111 dorothy lane	72.83	06-409-000-036 Electric	Expenditure		97	1
19-01040	11	dorlan drive	1,722.54	06-409-000-036 Electric	Expenditure		98	1
19-01040	12	381 lcr	167.24	06-409-000-036 Electric	Expenditure		99	1
19-01040	13	milford road	28.91	06-409-000-036 Electric	Expenditure		100	1

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Upper Uwchlan Township
Check Register By Check Id

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Check #	Check Date	Vendor	Amount Paid Charge Account			Reconciled/Void Ref Num		
PO #	Item	Description	Account Type	Contract	Ref Seq	Acct		
1935	PEC0	st. andrews road	Continued					
19-01040	14	st. andrews road	39.24	06-409-000-036		Expenditure	101	1
				Electric				
19-01040	15	park road	1,290.72	06-409-000-036		Expenditure	102	1
				Electric				
19-01040	16	55 pottstown pike	603.98	06-409-000-036		Expenditure	103	1
				Electric				
19-01040	17	yarmouth lane	331.37	06-409-000-036		Expenditure	104	1
				Electric				
19-01040	18	sunderland ave	1,678.10	06-409-000-036		Expenditure	105	1
				Electric				
19-01040	19	kiloran wynd drive	167.86	06-409-000-036		Expenditure	106	1
				Electric				
19-01040	20	flagstone road	639.30	06-409-000-036		Expenditure	107	1
				Electric				
19-01040	21	yarmouth lane	38.77	06-409-000-036		Expenditure	108	1
				Electric				
19-01040	22	140 pottstown pike	166.26	06-409-000-036		Expenditure	109	1
				Electric				
19-01040	23	275 fellowship road	6,387.39	06-409-000-036		Expenditure	110	1
				Electric				
19-01040	24	heron hill drive	87.94	06-409-000-036		Expenditure	111	1
				Electric				
19-01040	25	indian springs drive	94.60	06-409-000-036		Expenditure	112	1
				Electric				
19-01040	26	yarmouth lane	77.63	06-409-000-036		Expenditure	113	1
				Electric				
19-01040	27	cassandra lane	82.65	06-409-000-036		Expenditure	114	1
				Electric				
19-01040	28	fellowship road	691.46	06-409-000-036		Expenditure	115	1
				Electric				
			17,117.83					
1936	07/23/19	PENNS080 PENNSYLVANIA ONE CALL						
19-01031	1	monthly activity fees	123.18	06-420-000-329		Expenditure	2047	
				PA One Call			62	1
1937	07/23/19	PRED0010 PREDOC						
19-01032	1	425 hemlock lane	95.00	06-420-000-025		Expenditure	2047	
				Maintenance & Repair			63	1
19-01032	2	darrell drive wwtw	695.61	06-420-000-025		Expenditure	64	1
				Maintenance & Repair				
19-01032	3	eaglepointe wwtw	225.00	06-420-000-025		Expenditure	65	1
				Maintenance & Repair				
			1,015.61					
1938	07/23/19	QUINNCO QUINN CONSTRUCTION, INC						
19-01030	1	effluent tank rehab - pymt #2	61,707.26	06-483-000-000		Expenditure	2047	
				Capital Repair			61	1
1939	07/23/19	SHRWLWC THE SHERWIN WILLIAMS CO.						
19-01035	1	ma - paint	34.60	06-420-000-020		Expenditure	2047	
				Supplies			68	1

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Upper Uwchlan Township
Check Register By Check Id

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Check #	Check Date	Vendor	Reconciled/Void	Ref Num		
PO #	Item	Description	Account Type	Contract	Ref Seq	Acct
1940	07/23/19	STAPLADV STAPLES ADVANTAGE				
19-01033	1	ma - record book	69.68	06-400-000-200	Expenditure	2047
				Admin Supplies		66 1
1941	07/23/19	SWEETWAT SWEETWATER NATURAL PRODUCTS LL				
19-01034	1	meadow creek clean fill	36.00	06-420-000-020	Expenditure	2047
				Supplies		67 1
1942	07/23/19	VERIZ010 VERIZON				
19-01036	1	july - telephone	1,074.46	06-409-000-032	Expenditure	2047
				Telephone		69 1
1943	07/23/19	VERIZF10 VERIZON				
19-01037	1	internet	132.40	06-409-000-032	Expenditure	2047
				Telephone		70 1
1944	07/25/19	ALSGROUP ALS GROUP USA, CORP				
19-01015	1	byers station	616.50	06-420-000-030	Expenditure	2048
				Testing		1 1
19-01015	2	ewing - wv	138.30	06-420-000-030	Expenditure	2 1
				Testing		
19-01015	3	marsh harbor	889.80	06-420-000-030	Expenditure	3 1
				Testing		
19-01015	4	byers station	13.00	06-420-000-030	Expenditure	4 1
				Testing		
19-01015	5	upland farms	701.50	06-420-000-030	Expenditure	5 1
				Testing		
19-01015	6	st. elizabeth	474.90	06-420-000-030	Expenditure	6 1
				Testing		
19-01015	7	byers station	739.80	06-420-000-030	Expenditure	7 1
				Testing		
19-01015	8	byers station	123.30	06-420-000-030	Expenditure	8 1
				Testing		
19-01015	9	upland farms	280.60	06-420-000-030	Expenditure	9 1
				Testing		
			3,977.70			
1945	07/25/19	AQUAPA AQUA PA				
19-01016	1	Q2 commerical readings	75.00	06-406-000-100	Expenditure	2048
				Utility Billing Costs		10 1

Report Totals	Paid	Void	Amount Paid	Amount Void
Checks:	28	0	169,789.23	0.00
Direct Deposit:	0	0	0.00	0.00
Total:	28	0	169,789.23	0.00

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

11

ASSETS

	<u>Cash</u>	
06-100-000-010	General Checking - Fulton Bank	\$ 86,657.37
06-100-000-015	General Checking - Meridian Bank	295,741.24
06-100-000-020	General Checking - WIPP	502,885.72
06-106-000-002	Tap-in Fee Account	318,706.06
06-110-000-100	Fulton Bank Bond Proceeds - ICS	-
06-110-000-200	Fulton Bank Bond Proceeds - MMDA	<u>5,264,298.57</u>
	Total Cash	6,468,288.96
	<u>PSDLAF Investments:</u>	
06-109-000-003	CD Program	-
06-109-000-004	Full Flex	<u>183.84</u>
		183.84
	Total Investments	183.84
	<u>Accounts Receivable</u>	
06-145-000-001	Usage Fees Receivable	280,273.23
06-145-000-002	Capital Assessment Receivable	-
06-147-000-000	Misc Accounts Receivable	<u>546.00</u>
	Total Accounts Receivable	280,819.23
	<u>Other Current Assets</u>	
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	2,609.08
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	2,609.08
	<u>Fixed Assets</u>	
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)	<u>234,000.00</u>
	Total Fixed Assets	1,368,360.71
	<u>Other Long Term Assets</u>	
06-162-000-002	Excess Treatment Capacity	<u>1,649,293.24</u>
	Total Other Long Term Assets	1,649,293.24
	Total Assets	\$ 9,769,555.06

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

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LIABILITIES AND FUND BALANCE

<u>Current Liabilities</u>		
06-200-000-020	Accounts Payable	-
06-230-000-010	Due to UUT General Fund	65,295.59
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	(13,754.10)
06-230-000-040	Due to Water Resource Protection Fund	-
06-230-000-050	Due to Sewer Fund	-
06-230-000-060	Due to Developer's Escrow Fund	-
06-240-000-000	Accrued Expenses	52,591.72
06-241-000-100	Retainage on Phase II Construction Project	-
06-245-000-000	Due to Customers	275.00
06-258-000-100	Interest Payable - 2019 Bonds	17,916.30
	Total Current Liabilities	122,324.51

<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)	5,289,492.62
	Total Equity	9,647,230.55
	Total Fund Balance	9,647,230.55
	Total Liabilities & Fund Balance	\$ 9,769,555.06

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended June 30, 2019

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	Actual 2019 YTD	Budget 2019	% of Budget	Actual 2018 (Audited)	Budget 2018
REVENUES					
06-340-000-000	Interest Income	71,582.52	15,000.00	477.2%	17,267.00
06-365-000-000	Usage Fees Residential	1,111,741.11	2,139,571.00	52.0%	2,140,967.00
06-365-000-001	Usage Fees Commercial	52,074.80	100,000.00	52.1%	91,041.00
06-365-000-010	Tapping Fees	-	2,543,000.00	0.0%	31,256.00
06-370-000-000	Misc revenue	-	1,000.00	0.0%	-
06-393-000-100	Proceeds from Long Tern Debt	5,205,556.07	5,393,221.00	96.5%	-
06-395-000-000	Refund of Prior Year Expenditures	-	-	#DIV/0!	-
06-395-000-100	Transfer from Sewer Fund	-	-	#DIV/0!	-
	TOTAL REVENUES	\$ 6,440,954.50	\$ 10,191,792.00	63.2%	\$ 2,280,531.00
	\$ 4,313,304.00				
EXPENDITURES					
<u>General:</u>					
06-400-000-001	Administration	130,469.39	241,246.00	54.1%	211,283.00
06-400-000-002	Authority Adminstrator	63,501.50	120,000.00	52.9%	121,855.00
06-400-000-003	Professional Fees	-	12,000.00	0.0%	7,533.00
06-400-000-200	Admin Supplies	-	1,000.00	0.0%	-
06-400-000-341	Advertising	68.49	5,000.00	1.4%	3,408.00
06-400-000-352	Insurance - Liability	3,575.25	5,545.00	64.5%	4,661.00
06-400-000-355	Bank Fees	27.00	650.00	4.2%	205.00
06-402-000-450	Audit Fees	3,850.00	5,450.00	70.6%	5,300.00
06-404-000-000	Legal Fees	4,327.01	20,800.00	20.8%	15,202.00
06-406-000-100	Utility Billing Costs	6,636.20	10,000.00	0.0%	8,079.00
06-408-000-000	Engineering Fees	225,375.81	150,000.00	150.3%	127,632.00
06-408-000-100	Reimbursable Engineering Fees	-	-	#DIV/0!	-
	437,830.65	571,691.00	76.6%	505,158.00	565,206.00
<u>Building Expenses:</u>					
06-409-000-031	Lawn Care	-	5,000.00	0.0%	1,194.00
06-409-000-032	Telephone	7,209.67	15,000.00	48.1%	14,923.00
06-409-000-035	Insurance	3,575.25	8,756.00	40.8%	6,974.00
06-409-000-036	Electric	127,104.37	250,000.00	50.8%	250,538.00
06-409-000-037	Water	6,926.46	25,000.00	27.7%	11,628.00
06-409-000-052	Bldg Maint & Repair	-	10,000.00	0.0%	1,514.00
06-409-000-260	Building Supplies & Small Tools	16,010.63	5,000.00	320.2%	259.00
06-409-000-427	Waste Disposal	250.00	-	#DIV/0!	-
	161,076.38	318,756.00	50.5%	287,030.00	329,797.00
<u>Operations:</u>					
06-420-000-020	Supplies	19,335.54	20,000.00	96.7%	19,287.00
06-420-000-022	Chemicals	3,050.48	15,000.00	20.3%	10,680.00
06-420-000-023	Propane and Fuel Oil	851.42	5,000.00	17.0%	4,649.00
06-420-000-025	Maintenance & Repair	55,352.71	120,000.00	46.1%	98,619.00
06-420-000-030	Testing	16,558.59	40,000.00	41.4%	42,973.00
06-420-000-031	Pump & Haul	32,495.32	50,000.00	65.0%	50,600.00
06-420-000-032	Vegetation Management	-	20,000.00	0.0%	10,228.00
06-420-000-035	Permits	1,546.00	5,000.00	30.9%	3,768.00
06-420-000-042	Dues and Memberships	10.00	2,500.00	0.4%	2,100.00
06-420-000-045	Contracted Services	88,248.23	135,000.00	65.4%	142,952.00
06-420-000-048	Misc expenses	30.39	10,000.00	0.3%	27,070.00
06-420-000-235	Vehicle Maintenance	38.94	2,000.00	1.9%	3,910.00
06-420-000-329	PA One Call	422.58	2,500.00	16.9%	1,541.00
	217,940.20	427,000.00	51.0%	418,377.00	420,025.00

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

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For the Period Ended June 30, 2019
(Continued)

		Actual 2019 YTD	Budget 2019	% of Budget	Actual 2018	Budget 2018
<u>Capital:</u>						
06-472-000-100	Bond Interest Expense - 2019 bonds	99,183.68	190,681.00	52.0%	-	-
06-483-000-000	Capital Repair	143,500.22	50,000.00	287.0%	-	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
		<u>242,683.90</u>	<u>1,790,681.00</u>	<u>13.6%</u>	<u>87,514.00</u>	<u>66,000.00</u>
Total Expenditures before Operations Agreement and Transf		\$ 1,059,531.13	\$ 3,108,128.00	34.1%	\$ 1,298,079.00	\$ 1,381,028.00
Net Income before Operations Agreement and Transfers						
		\$ 5,381,423.37	\$ 7,083,664.00	76.0%	982,452.00	2,932,276.00
<u>Other:</u>						
06-471-000-010	Operations Agreement Fee to UUT	91,930.75	369,213.00	24.9%	364,339.00	364,463.00
		<u>91,930.75</u>	<u>369,213.00</u>	<u>24.9%</u>	<u>364,339.00</u>	<u>414,463.00</u>
06-492-000-010	Transfer to Sewer Fund	-	-	#DIV/0!	-	-
06-492-000-020	Transfer to Water Resource Protection Fu	-	-	#DIV/0!	-	-
06-492-000-030	Transfer to UUT Capital Fund	-	-	#DIV/0!	-	-
		<u>-</u>	<u>-</u>	<u>#DIV/0!</u>	<u>-</u>	<u>-</u>
TOTAL EXPENDITURES		\$ 1,151,461.88	\$ 3,477,341.00	33.1%	\$ 1,662,418.00	\$ 1,795,491.00
OPERATING INCOME						
		\$ 5,289,492.62	\$ 6,714,451.00	78.8%	\$ 618,113.00	\$ 2,517,813.00

Upper Uwchlan Township Municipal Authority
Sewer Billings

Month to Month Change in Receivables and Collections

	June 2019	May 2019	Change
Beginning Receivable Balance	265,481.68	265,481.68	-
<u>Billings:</u>			
Calculated charges billed	1,109,893.95	1,104,930.92	(4,963.03)
Billing adjustments	(1,075.04)	(66.49)	1,008.55
Late payment penalty	53,776.50	24,924.03	(28,852.47)
Adjustments	-	-	-
	1,428,077.09	1,395,270.14	(32,806.95)
<u>Less:</u>			
Collections*	1,177,541.83	1,101,482.63	(76,059.20)
Receivable balance, month end	250,535.26	293,787.51	43,252.25

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

Upper Uwchlan Township Municipal Authority
Sewer Billings

Month to Month Change in Delinquent Accounts

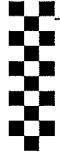
(accounts that have had a balance in excess of \$380 for 2 or more quarters)

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	6/30/2018	12/31/2018	2/28/2019	3/31/2019	4/30/2019	5/31/2019	6/30/2019
Number of delinquent accounts	135	148	166	133	110	176	151
Total delinquent balance	193,505	206,093	214,399	186,466	173,778	221,151	211,591

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



Clean Water, Inc.

170 Dallas St.
Box 475
Atglen, Pa. 19310

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

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July 21, 2019

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

RE: Report for the July meeting.

Dear Authority,

Enclosed you will find copies of the monthly reports that were submitted to the DEP on your behalf. The reports are for May. Information items are current

Route 100

Spray and drip continues. We continue to dodge regular rain and down right down pours to keep on schedule with harvests. Presently we are in the middle of harvesting Upland farms. Ewing West Vincent will be cut again, and again sprayed with a broad leaf killer. It is expected the reseed will happen in late August or September where needed. Windsor Ridge has been shut down for cut and harvest. I will be ordering a new UPS unit for the regional control pc for the SBR. I ordered a supply of Aqua Shade for algae control for the lagoons.

Eaglepoint

Plant is running well. The influent pumps continue to be clogging more frequently than expected. We did get notice that Wawa will be installing screens in their line. There was a chemical delivery by Univar.

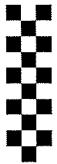
St. Andrews Brae

Plant is running fine. Inks was out to haul sludge. I ordered and received chlorine tablets from USA Bluebook.

Marsh Harbour

Plant continues to run fine. The field was cut and harvested. There were some risers broken and will be repaired. The mixer issues mentioned last month was found to be a turtle clogging aerator. It was removed. Mulls was out to install one of the spray pumps that had been rebuilt a while back. McGovern cleaned the influent pump station. I have asked Ehrlich to add the lagoon toits schedule for weed control for the lagoon sides. We swapped out the cellular hot spot from Verizon to AT and T without a hitch at the Herron Hill station.

Clean Water, Inc. Wastewater Treatment Specialists



Saybrooke

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Plant is running fine. There were no operational issues to report. McGovern removed sludge
Lakeridge

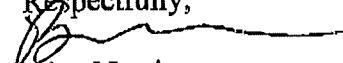
Plant is running well. Predoc continues to clean the beds. The new sludge tank has been set. It
was quite impressive to see.

Greenridge

Drip has resumed.

I want to mention that Tim's crew has been super responsive in weed eating etc around the
nozzles and sites. It is much appreciated. That is all for now, please call with any questions.

Respectfully,


Brian Norris

MEMORANDUM

TO: Upper Uwchlan Township Municipal Authority

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

RE: Project Status Report

PROJECT NO.: 17000.00

DATE: July 17, 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.

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.

Eagle Hunt

ARRO has started preparing contract documents for recommended repairs to the Eagle Hunt effluent storage tank as contained in the August 2016 tank inspection report. ARRO conducted a site visit with Dutchland to review and discuss proposed tank repairs. ARRO is in the process of generating contract drawings and specifications for the proposed tank repairs. ARRO is completing Effluent Storage Tank Repair bid documents for bidding by the end of

October 2018. ARRO completed the Effluent Storage Tank Repair bid documents. The project will be put out to bid the week of November 26, 2018. ARRO placed the Effluent Storage Tank Repair project on PennBid on December 7, 2018. Bids are due January 10, 2019. Effluent Storage Tank Repair project bids were received on January 10, 2019. ARRO made a recommendation to the Authority to award the contract to Quinn Construction. On March 5, 2019 ARRO sent a Notice of Intent to Award to Quinn Construction and now is waiting for the return of contract documents from Quinn. On March 5, 2019 ARRO sent a Notice of Intent to Award to Quinn Construction and now is waiting for the return of contract documents from Quinn. Effluent Storage Tank Repair contract documents were received from Quinn Construction. The project pre-construction meeting was held on April 17, 2019. Approximately fifty percent of the work at the Eagle Hunt tank is complete as of May 22, 2019. Effluent storage tank repairs are complete. The Contractor is preparing record as-built drawings for the project.

ARRO prepared Change Order No. 1 reconciling the final cost of the Effluent Storage Tank Rehabilitation project to \$161,170.50.

Eaglepointe

Wastewater Treatment Plant and Sanitary Sewer System:

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

ARRO is reviewing a request for additional wastewater disposal to the Eaglepointe WWTP from a current tenant (Hohmann & Barnard, Inc.) in the J. Loew building onsite. The Authority Administrator approved the J. Loew tenant's request for additional wastewater disposal. ARRO sent Hohmann & Barnard a copy of the Regulations for the Discharge of Non-Residential Waste (NRW) resolution along with a copy of the Non-Residential Waste Discharge permit application for the additional disposal. Hohmann & Barnard, Inc. submitted its NRW permit application. ARRO is preparing the NRW permit for Hohmann & Barnard. ARRO prepared the Hohmann & Barnard NRW permit and sent it to H&B on May 22, 2019.

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.

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 NRWD 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.

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.

Toll Brothers started construction of the Sunderland Avenue East roadway connecting Eagle Farms Road to Rainer Road in Ewing Tract – West Vincent. On November 8, 2018 ARRO made a request to Toll Brothers to install the 3" PVC Spray Distribution force main beneath the roadway as shown on the original land development plans.

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.

Nothing new to report.

Fetter Farm Tract (McKee)

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 (SFFPM) and is working on the sanitary sewer review. The Authority Administrator signed the SFFPM Component 3 Sections G and J. The Board of Supervisors approved the SFFPM resolution at the April 16, 2018 meeting. The developer's engineer stated in an April 17 email to the Authority Administrator that the SFFPM 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.

Nothing new to report.

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.

Nothing new to report.

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.

Nothing new to report.

Jankowski

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.

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.

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 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 compiled costs to repair the damage from the 2018 Route 100 WWTP frozen pipe bursting event. Costs were transmitted to the Authority Administrator on April 30, 2019.

ARRO submitted the Act 537 Planning Grant Application to the Pennsylvania Department of Community and Economic Development on May 23, 2019.

ARRO is reevaluating the Route 100 WWTP sanitary sewer system treatment and disposal capacity summary taking into account Toll's sold capacity for Byers 5C Commercial and the treatment and disposal requirements for Byers 6C sold by Toll to Vantage Point.

ARRO has initiated preliminary layout design for two potential 18-acre drip fields on the South Chester Springs Road parcel (the Bennett property).

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 CFA Board meeting.

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

ARRO has started preparing contract documents for recommended repairs to the Upland Farms effluent storage tank as contained in the August 2016 tank inspection report. ARRO conducted a site visit with Dutchland to review and discuss proposed tank repairs. ARRO is in the process of generating contract drawings and specifications for the proposed tank repairs. ARRO is completing Effluent Storage Tank Repair bid documents for bidding by the end of October 2018. ARRO completed the Effluent Storage Tank Repair bid documents. The project will be put out to bid the week of November 26, 2018. ARRO placed the Effluent Storage Tank Repair project on PennBid on December 7, 2018. Bids are due January 10, 2019. Effluent Storage Tank Repair project bids were received on January 10, 2019. ARRO made a recommendation to the Authority to award the contract to Quinn Construction. On March 5, 2019 ARRO sent a Notice of Intent to Award to Quinn Construction and now is waiting for the return of contract documents from Quinn. Effluent Storage Tank Repair contract documents were received from Quinn Construction. The project pre-construction meeting was held on April 17, 2019. Effluent storage tank repairs were completed at Windsor Ridge and are underway at Eagle Hunt. Repairs to the Upland Farm tank will be done after work at Eagle Hunt is finished. Effluent storage tank repairs are complete. The Contractor is preparing record as-built drawings for the project.

ARRO prepared Change Order No. 1 reconciling the final cost of the Effluent Storage Tank Rehabilitation project to \$161,170.50

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

ARRO has started preparing contract documents for recommended repairs to the Windsor Ridge effluent storage tank as contained in the August 2016 tank inspection report. ARRO conducted a site visit with Dutchland to review and discuss proposed tank repairs. ARRO is in the process of generating contract drawings and specifications for the proposed tank repairs. ARRO is completing Effluent Storage Tank Repair bid documents for bidding by the end of October 2018. ARRO completed the Effluent Storage Tank Repair bid documents. The project will be put out to bid the week of November 26, 2018. ARRO placed the Effluent Storage Tank Repair project on PennBid on December 7, 2018. Bids are due January 10, 2019. Effluent Storage Tank Repair project bids were received on January 10, 2019. ARRO made a recommendation to the Authority to award the contract to Quinn Construction. On March 5, 2019 ARRO sent a Notice of Intent to Award to Quinn Construction and now is waiting for the return of contract documents from Quinn. Effluent Storage Tank Repair contract documents were received from Quinn Construction. The project pre-construction meeting was held on April 17, 2019. Effluent storage tank repairs were completed by May 20, 2019. The Contractor is preparing record as-built drawings for the project.

ARRO prepared Change Order No. 1 reconciling the final cost of the Effluent Storage Tank Rehabilitation project to \$161,170.50.

Miscellaneous

Eagleview Wastewater Treatment Plant – Per PADEP, Upper Uwchlan Township is expected to participate in Uwchlan Township's Act 537 planning study for the Eagleview Wastewater Treatment Plant. ARRO provided a Scope of Work and Cost Estimate for the Township's participation in the Act 537 planning study to Uwchlan Township. ARRO is proceeding with the Township's portion of the Act 537 planning study. ARRO completed drafting its portion of the Act 537 Eagleview Special Study and submitted the draft to Uwchlan Township for review and comment. On May 13, 2015 ARRO conducted an audit of the existing Eagleview WWTP. ARRO evaluated the plant capacity and prepared a report of findings in June 2015. ARRO has Gannett Fleming's Act 537 Plan Revision under review with comments forthcoming in September 2016. ARRO completed its review of the Gannett Fleming Act 537 Plan Revision and sent a September 19, 2016 letter to the Township with eight comments to the Plan Revision. PADEP issued a March 17, 2017 letter requesting additional information before reviewing and acting upon the Eagleview Wastewater Treatment Plant Act 537 Plan Update Revision.

Nothing new to report.

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, 2018, 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.

House service line installations are still proceeding.

Marsh Lea Subdivision – ARRO reviewed a proposed 27-lot subdivision plan with individual on-lot disposal systems. ARRO prepared a September 13, 2016 review comments letter and transmitted it to the Township. ARRO reviewed the Sewage Facilities Planning Modules and they were sent to Chester County by the Township. Component 4 B was completed by the Planning Commission, but Component 4C hasn't been returned. SFPM Component 4A was completed by the Township. Component 4B was completed by Chester County Planning Commission and Component 4C was completed by Chester County Health Board and both components were sent to the Township. The Township returned all of the SFPM completed information to the Developer's Engineer to prepare the appropriate copies for submission to PADEP. ARRO transmitted comments to the Township regarding the developer's March 8, 2017 Marsh Lea Subdivision Plans. PADEP sent an Administrative Incompleteness Review Letter, dated August 9, 2017 to the Township. ARRO is assisting with responses to the PADEP letter. Evans Mill on its own transmitted a September 5, 2017 letter to PADEP with responses to PADEP's August 9, 2017 Administrative Incompleteness review letter. After review of the September 5, 2017 letter, PADEP sent a September 28, 2017 email to Evans Mill and the Township requesting additional information for the SFPM. Evans Mill transmitted a September 29, 2017 response email back to PADEP. PADEP issued a November 17, 2017 letter approving the 27-lot residential subdivision SFPM. Evans Mill provided a response to PADEP regarding the SFPM in early October 2018. PADEP issued its SFPM approval letter, dated October 31, 2018, for the 27-lot residential subdivision.

Nothing 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 us.

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.

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.

Nothing new to report on the Byers Road sanitary sewer extension SFPM.

ARRO has restarted the design of a sewer extension across Route 100 near Byers Road.

Profound Technologies (125 Little Conestoga Road) - On November 12, 2018 Profound Technologies submitted a building expansion land development plan. Profound Technologies already paid a Capacity Fee for 222 gallons per day (gpd) for its original building. The expansion project SFPM mailer shows an increase in the sewage flows to 350 gpd. ARRO is reviewing the building expansion land development plan and the proposed sewage flows to be generated from the expansion. ARRO prepared and sent to the Township a December 19, 2018 letter with comments to the building expansion land development plan and the proposed sewage flows to be generated from the expansion. ARRO recommended that 228 gpd (1.01 EDUs) be purchased for the project. ARRO reviewed the March 25, 2019 revision to the Land Development Plans. ARRO prepared an April 8, 2019 letter to the Township with its comments to the sanitary sewer portion of the project.

Nothing new to report.

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.

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

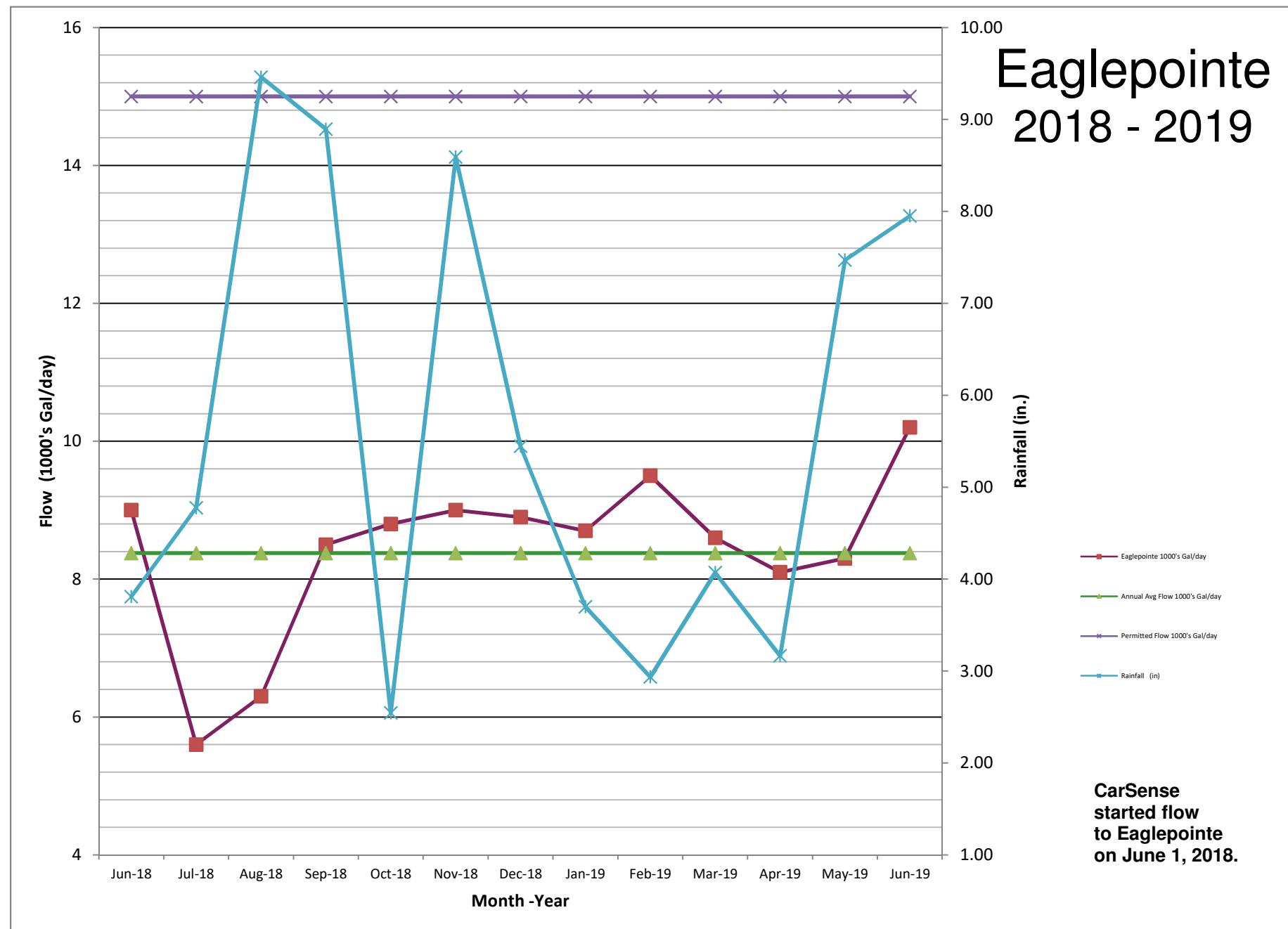
UPPER UWCHLAN MUNICIPAL AUTHORITY
WASTEWATER TREATMENT PLANTS

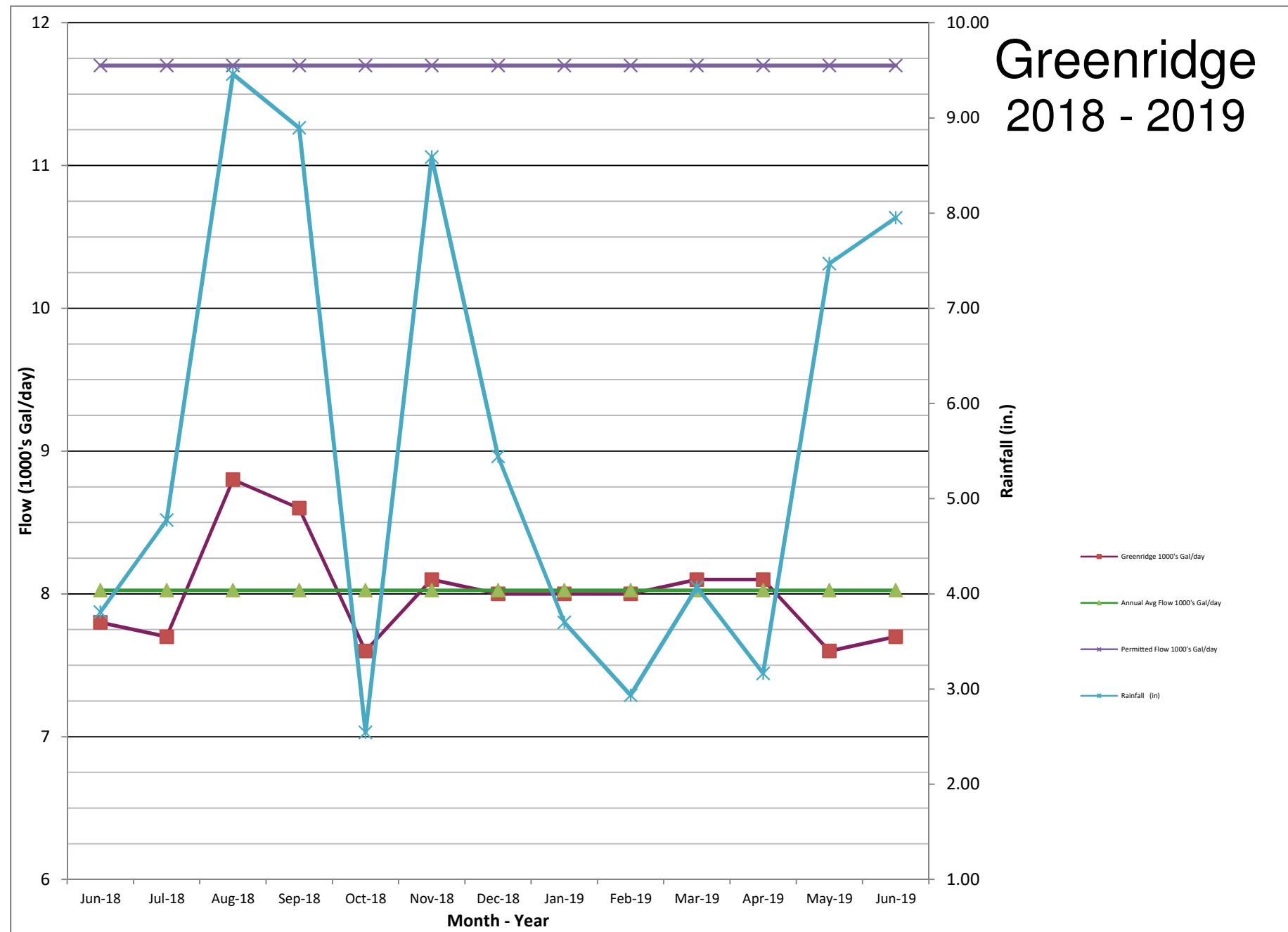
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MONTHLY AVERAGE DAILY FLOWS

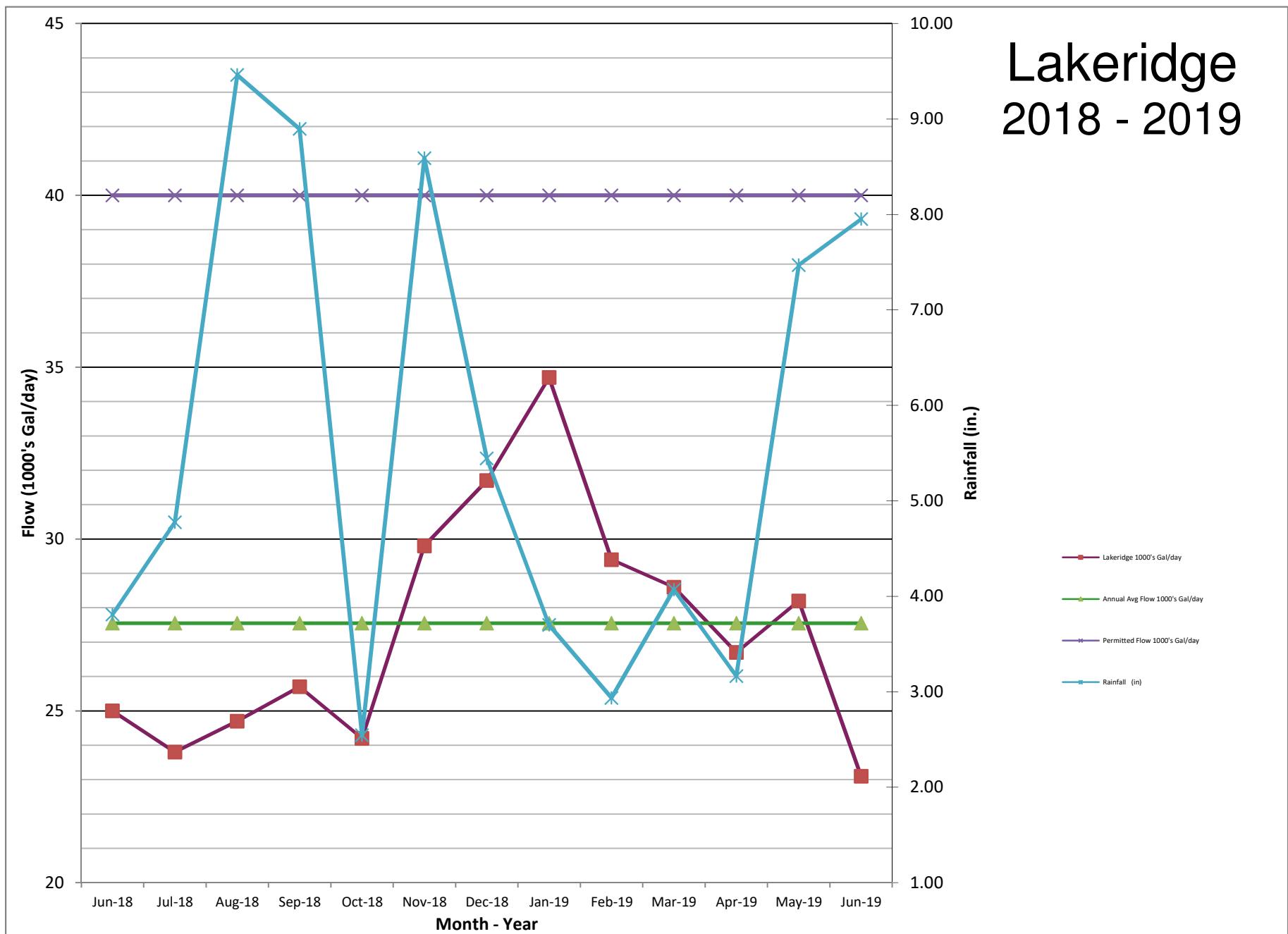
Month - Year		Average Daily Flow (MGD)							Rainfall (in)
		Eaglepointe	Greenridge	Lakeridge	Marsh Harbour	Route 100	Saybrooke	St. Andrews	
Jun-18		0.00900	0.00780	0.02500	0.03660	0.31510	0.00730	0.00220	3.81
Jul-18		0.00560	0.00770	0.02380	0.03590	0.30630	0.00790	0.00240	4.78
Aug-18		0.00630	0.00880	0.02470	0.04060	0.32210	0.00670	0.00240	9.46
Sep-18		0.00850	0.00860	0.02570	0.04090	0.34200	0.00790	0.00260	8.90
Oct-18		0.00880	0.00760	0.02420	0.03920	0.32610	0.00790	0.00260	2.55
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
Annual Avg Flow =		0.00838	0.00803	0.02755	0.04216	0.34907	0.00782	0.00251	
Permitted Flow =		0.01500	0.01170	0.04000	0.07600	0.60000	0.00920	0.00360	

Eaglepointe 2018 - 2019



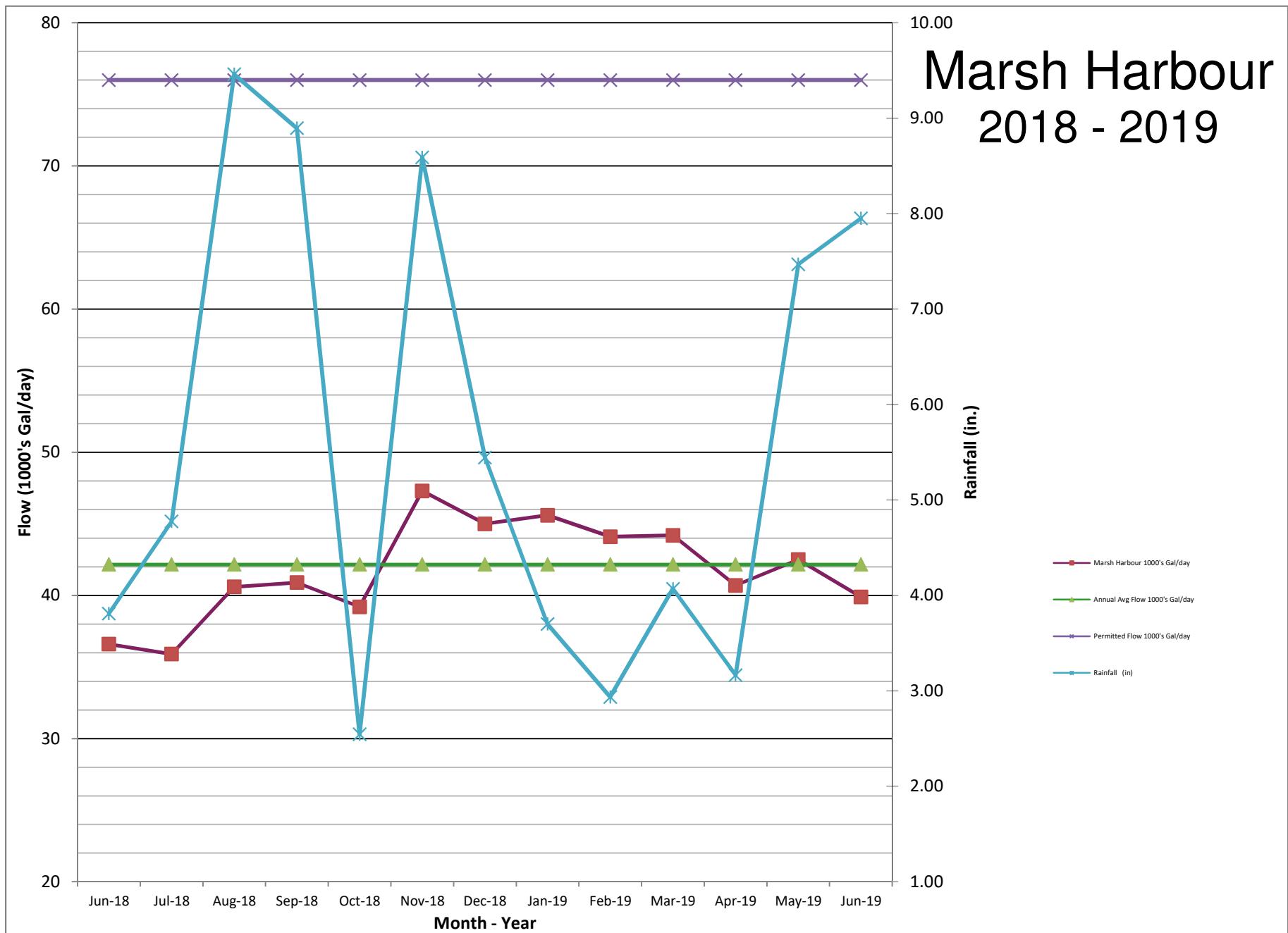


Lakeridge 2018 - 2019



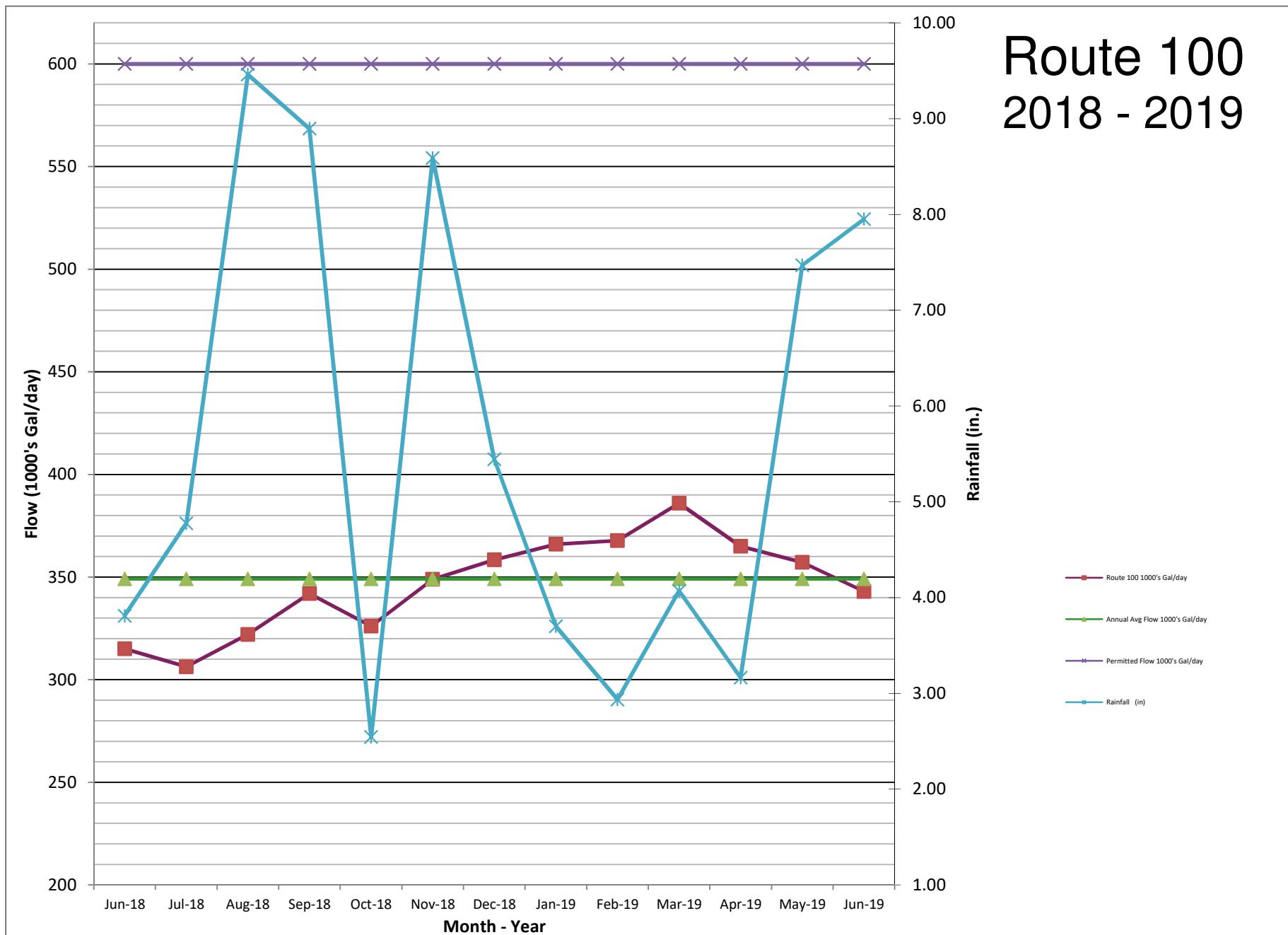
Marsh Harbour

2018 - 2019

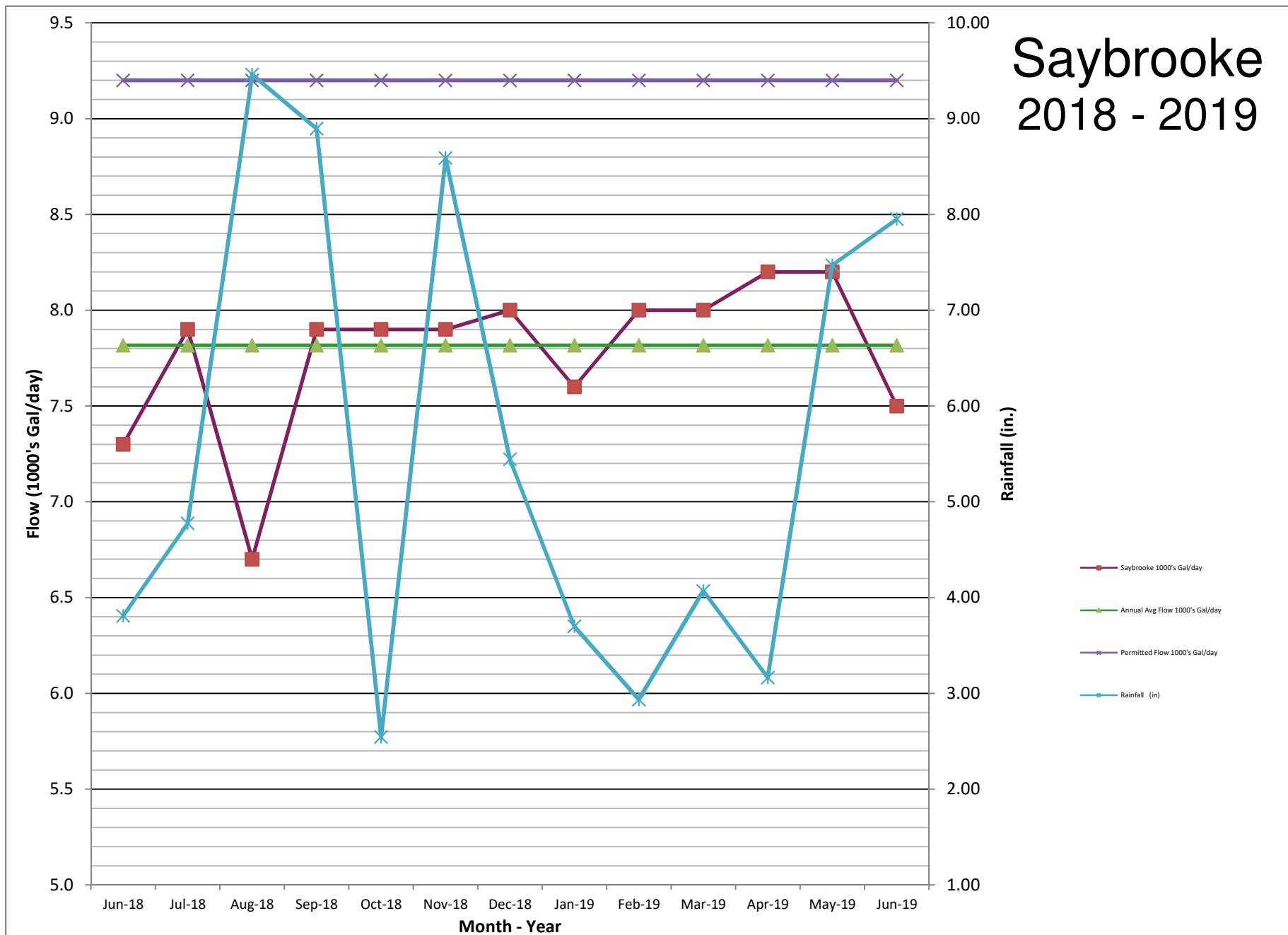


Route 100

2018 - 2019

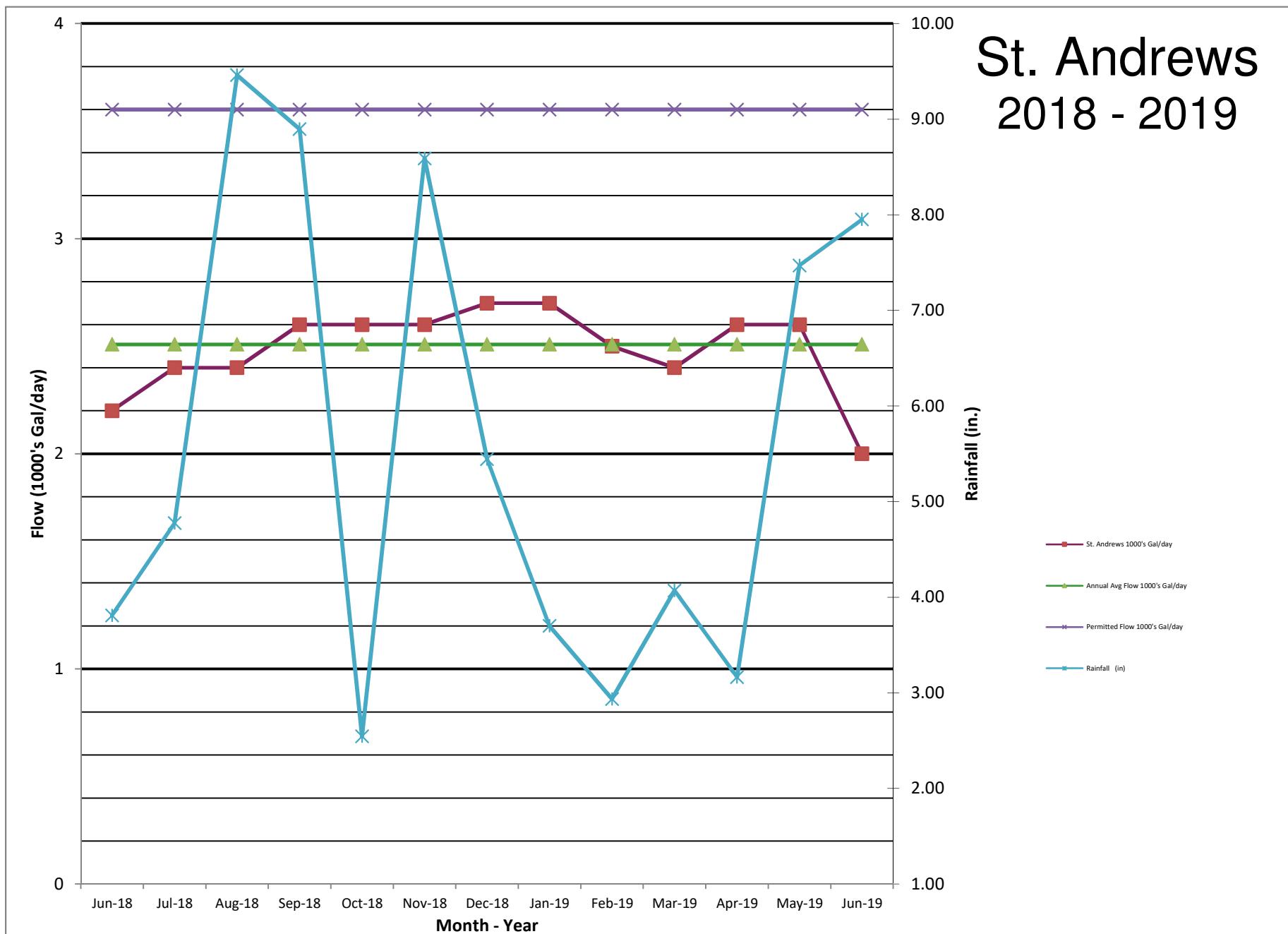


Saybrooke 2018 - 2019



St. Andrews

2018 - 2019





To: Municipal Authority Members
From: G. Matthew Brown, P.E., DEE
Re: Authority Administrator's Report
Date: July 17, 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 residents and PADEP regarding the sewer extensions proposed for McKee/Fetters, Byers Road and Milford Farms.
- E. Communication with ARRO and Contractors regarding the Lakeridge Sludge Holding Tank and the Effluent Holding Tank Repair Projects.
- F. Communication with McKee regarding additional disposal area in West Vincent Township.
- G. Communication with the Operator and ARRO regarding the rag issue at the Eaglepointe WWTF.

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



JULY 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.

Brian Owens continues on the properties as follows:

Complete:

- Rte. 100 WWTP
 - 1. General cleanup at this location
- Byers Station Effluent PS
 - 1. General cleaning of 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
- Eagle Hunt
 - 1. Cleaning of this location
- Windsor Ridge
 - 1. General cleaning

- **Saybrooke 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.
 2. A backflow preventer was be needed after the installation.
- **Greenridge**
 1. General cleaning of station
- **Stonehedge**
 1. General cleaning of station
- **Marsh Harbour WWTP**
 1. 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. All weeds and vines have been removed and new stone has been placed at this facility.
 3. Re-grading due to silt buildup will be done this month but due to rain we have not been able to get an excavator in there.

4. Area around this plant has been cleaned up and new concrete pad was placed for the electric panel
5. All other concrete has been pressure washed.
6. The electric panel has been realigned and painted
7. New supports for the electrical boxes are complete
8. Fence privacy slats are installed and complete
9. The pipe through the berm is replaced re-grading still needs done.

- **Eaglepointe**
 1. Trash collection and cleaning
- **Heron Hill PS**
 1. There are currently no work orders for this facility.
- **Lakeridge WWTP**
 1. General cleaning and trash removal
 2. Awaiting new tank project.
- **Lakeridge Pump Station**
 1. The station has been cleaned and painted.
- **Eagle Farms Rd PS (WV)**
 1. General cleaning of station
- **Little Conestoga Rd PS**
 1. There are currently no work orders for this facility.
- **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 70 PA 1-Call tickets during the month of June.**

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