



AGENDA

May 28, 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: April 23, 2019 | 2 |
| III. | Approval of Payments: May 2019 | 4 |
| IV. | Authority Administration Reports | |
| | A. Clean Water, Inc. Monthly Report | 16 |
| | B. ARRO Consulting Monthly Report | 18 |
| | C. Authority Administrator's Report | 43 |
| | 1. Dan O'Brien, RBC Capital Markets | 44 |
| | D. Public Works Department Report | 58 |
| V. | Open Session | |
| VI. | Next Meeting Date: June 25, 2019 ~ 7:30 p.m. | |
| | Location: Temporary Township Administration Office
415 Eagleview Boulevard, Suite 116, Exton, 19341 | |
| VII. | Adjournment | |



MEETING MINUTES

April 23, 2019

7:30 PM

DRAFT

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

Call to Order

D. Carlson called the meeting to order at 7:10 PM. The meeting was held at Pickering Valley Elementary School to accommodate residents for a public information session on the Byers Road, Milford Farm Sewer Extension.

Public Meeting: Byers Road, Milford Farms Sewer Extension

Following an introduction of the projects by D. Carlson, M. Brown reviewed the scope of each project, who would be affected, the estimated schedule and the current status of determining costs to homeowners. The forum was then open for questions by the audience. The Board and M. Brown responded to the various questions noting that the information that was presented would be summarized on the Authority website and any additional information would be posted and sent to the homeowners via letters. The Public Meeting concluded at approximately 8:15 PM.

Approval of Minutes

Draft minutes of the March 26, 2019 meeting were presented. W. Quinn made a motion to approve the minutes as amended. L. Schack seconded. It was so moved.

Approval of Payments

Following questions and a brief discussion, a motion was made by H. Harper to approve the payments for April 2019. W. Quinn seconded. It was so moved. Following a brief discussion, H. Harper made a motion to accept in good faith the Balance Sheet and Revenue and Expenses Reports as prepared by the Township Treasure. 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. D. Carlson suggested that due to the length of the Public Meeting that review and acceptance of the reports should wait till the May meeting. It was the consensus of the Board to do so.

The Authority then went into Executive Session to discuss legal and personnel matters at 8:20 PM. The Authority returned to regular session at 8:32 PM.

M. Brown provided an update on the Rose delinquent account which included a summary of his discussion with the Authority Solicitor. The recommendation was to refund an additional \$3,250.54 in late fees paid by the Roses based upon the date the Township/Authority was notified of their bankruptcy. Mrs. Rose indicated the Solicitor for the Township was advised prior to that. M. Brown noted that the Township had not, but he would check with the Township Solicitor to determine if any additional refund could be rendered. B. Watts then moved to refund the \$3,250.54 of late fees to the Roses with the stipulation that M. Brown would research to determine if the Township Solicitor had in fact been notified of the bankruptcy earlier. H. Harper seconded. It was so moved.

M. Brown discussed briefly additional fence repair needed at the Reserve at Eagle, a small noise abatement project at the Eaglepointe WWTF and the planning difficulties regarding the McKee project and John Venziale from PADEP.

M. Brown then presented Change Order No. 1 for the Lakeridge Sludge Tank project. It included a price reduction of \$1,491.68. B. Watts moved, seconded by L. Schack to approve the Change Order. It was so moved.

M. Brown then requested if he could hold a luncheon for the Township Staff who worked hard and diligently on behalf of the Authority. This was to include both office and field staff. B. Watts moved, seconded by L. Schack to approve the luncheon. It was so moved.

Open Session

No further public comment was made.

Next Meeting Date: May 28, 2019 - 7:30 PM

D. Carlson 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, D. Carlson moved, seconded by W. Quinn to adjourn the meeting at 8:50PM.

Respectfully submitted,

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

May 24, 2019
01:23 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: 1855 to 1889
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
1855	05/28/19	21ST 21st CENTURY MEDIA PHILLY	68.49		2007
1856	05/28/19	ABROSE ALEX and BRIDGET ROSE	3,341.32		2007
1857	05/28/19	AJBLO010 A.J. BLOSENSKI	250.00		2007
1858	05/28/19	ALSGROUP ALS GROUP USA, CORP	3,774.60		2007
1859	05/28/19	AQUAP010 AQUA PA	1,671.69		2007
1860	05/28/19	ARROC010 ARRO CONSULTING, INC.	60,935.69		2007
1861	05/28/19	BARBA010 BARBACANE THORNTON & COMPANY	200.00		2007
1862	05/28/19	CHRISFRA FRANTZ, CHRISTOPHER	336.00		2007
1863	05/28/19	CLEANWAT CLEAN WATER, INC.	6,355.00		2007
1864	05/28/19	COUNT010 COUNTRY ESTATE FENCE, INC.	157.00		2007
1865	05/28/19	DECKM010 DECKMAN ELECTRIC, INC.	14,892.46		2007
1866	05/28/19	DYNAT010 DYNA TECH INDUSTRIES LTD	1,921.00		2007
1867	05/28/19	EAGLHARD EAGLE HARDWARE	34.48		2007
1868	05/28/19	EDMUN010 EDMUNDS & ASSOCIATES, INC.	1,284.33		2007
1869	05/28/19	INKS0010 INK'S DISPOSAL SERVICE, INC.	1,375.00		2007
1870	05/28/19	KRUPA010 KRUPANSKY FENCE CO., LLC	888.52		2007
1871	05/28/19	MARSH020 MARSH CREEK SIGNS	196.00		2007
1872	05/28/19	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC	12,182.57		2007
1873	05/28/19	MCI00001 MCI COMM SERVICE	44.91		2007
1874	05/28/19	MJREIDER M. J. REIDER ASSOCIATES, INC.	1,074.50		2007
1875	05/28/19	MSSER040 M & S SERVICE COMPANY, INC.	998.00		2007
1876	05/28/19	MULLS010 MULL'S ELECTRIC, INC.	3,465.56		2007
1877	05/28/19	OROUR010 O'ROURKE & SONS, INC	118.00		2007
1878	05/28/19	PECO0010 PECO	18,447.43		2007
1879	05/28/19	PENNS080 PENNSYLVANIA ONE CALL	222.09		2007
1880	05/28/19	PIKEL020 PIKELAND CONSTRUCTION	2,830.00		2007
1881	05/28/19	PIPEX020 PIPE XPRESS, INC.	227.96		2007
1882	05/28/19	POSTM010 POSTMASTER UWCHLAND	67.00		2007
1883	05/28/19	PRED0010 PREDOC	5,737.44		2007
1884	05/28/19	PROMAX PRO MAX FENCE SYSTEMS	12,626.00		2007
1885	05/28/19	RMEQU010 R & M EQUIPMENT COMPANY	1,270.00		2007
1886	05/28/19	SWEETWAT SWEETWATER NATURAL PRODUCTS LL	40.00		2007
1887	05/28/19	VERIZ010 VERIZON	2,063.60		2007
1888	05/28/19	VERIZFIO VERIZON	284.80		2007
1889	05/28/19	WGMALDEN W. G. MALDEN	571.45		2007

Report Totals	Paid	Void	Amount Paid	Amount Void
Checks:	35	0	159,952.89	0.00
Direct Deposit:	0	0	0.00	0.00
Total:	35	0	159,952.89	0.00

May 24, 2019
01:21 PM

Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 1

Batch Id: LHAINES Batch Type: C Batch Date: 05/28/19 Checking Account: MA MERIDIAN G/L Credit: Expenditure G/L Credit
Generate Direct Deposit: N

Check No.	Check Date	Vendor # Name	Payment Amt	Street 1 of Address to be printed on Check	Charge Account	Account Type	Status	Seq	Acct
PO #	Enc Date	Item Description		Description					
19-00712	05/28/19	21ST 21st CENTURY MEDIA PHILLY	68.49	21ST CENTURY MEDIA - PHILLY CL					
	05/28/19	1 ma - meeting location change	68.49	06-400-000-341	Advertising	Expenditure	Aprv	1	1
19-00741	05/28/19	ABROSE ALEX and BRIDGET ROSE	3,341.32	2016 GARRISON DRIVE					
	05/28/19	1 resident refund	3,341.32	06-499-000-000	Reconciliation Discrepancies	Expenditure	Aprv	120	1
19-00715	05/28/19	AJBLO010 A.J. BLOSENSKI	250.00	P.O. BOX 392					
	05/28/19	1 waste disposal - 711 dorian	250.00	06-409-000-427	Waste Disposal	Expenditure	Aprv	27	1
19-00716	05/28/19	ALSGROUP ALS GROUP USA, CORP	1,484.40	P.O. BOX 975444					
	05/28/19	1 marsh harbor	1,484.40	06-420-000-030	Testing	Expenditure	Aprv	28	1
19-00716	05/28/19	2 ewing tract	276.60	06-420-000-030	Testing	Expenditure	Aprv	29	1
19-00716	05/28/19	3 eagle hunt	471.90	06-420-000-030	Testing	Expenditure	Aprv	30	1
19-00716	05/28/19	4 windsor ridge	889.80	06-420-000-030	Testing	Expenditure	Aprv	31	1
19-00716	05/28/19	5 greenridge	651.90	06-420-000-030	Testing	Expenditure	Aprv	32	1
			3,774.60						
19-00714	05/28/19	AQUAP010 AQUA PA	17.20	PO BOX 70279					
	05/28/19	1 prescott dr	17.20	06-409-000-037	Water	Expenditure	Aprv	12	1
19-00714	05/28/19	2 100 milford road	17.20	06-409-000-037	Water	Expenditure	Aprv	13	1
19-00714	05/28/19	3 100 prescott drive	17.20	06-409-000-037	Water	Expenditure	Aprv	14	1
19-00714	05/28/19	4 meadow creek lane	17.20	06-409-000-037	Water	Expenditure	Aprv	15	1
19-00714	05/28/19	5 flagstone road	17.20	06-409-000-037	Water	Expenditure	Aprv	16	1
19-00714	05/28/19	6 prospect hill blvd	31.72	06-409-000-037	Water	Expenditure	Aprv	17	1
19-00714	05/28/19	7 528 walter court	26.88	06-409-000-037	Water	Expenditure	Aprv	18	1
19-00714	05/28/19	8 325 fellowship road	1,381.18	06-409-000-037	Water	Expenditure	Aprv	19	1
19-00714	05/28/19	9 658 collingwood terr	49.40	06-409-000-037	Water	Expenditure	Aprv	20	1
19-00714	05/28/19	10 241 fellowship road	17.20	06-409-000-037	Water	Expenditure	Aprv	21	1

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Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 2

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
19-00714	05/28/19	11 29 yarmouth lane	10.51	06-409-000-037 Water	Expenditure	Aprv	22	1
19-00714	05/28/19	12 2680 primrose court	17.20	06-409-000-037 Water	Expenditure	Aprv	23	1
19-00714	05/28/19	13 381 lcr	17.20	06-409-000-037 Water	Expenditure	Aprv	24	1
19-00714	05/28/19	14 111 dorothy lane	17.20	06-409-000-037 Water	Expenditure	Aprv	25	1
19-00714	05/28/19	15 1120 sunderland ave	17.20	06-409-000-037 Water	Expenditure	Aprv	26	1
			1,671.69					
05/28/19 ARROC010 ARRO CONSULTING, INC.				108 WEST AIRPORT ROAD				
19-00713	05/28/19	1 project 9310.32 ww system admi	10,544.00	06-400-000-002 Authority Administrator	Expenditure	Aprv	2	1
19-00713	05/28/19	2 project 17000 consulting	11,387.94	06-408-000-000 Engineering Fees	Expenditure	Aprv	3	1
19-00713	05/28/19	3 project 10270.48 byers rd	2,763.08	06-408-000-000 Engineering Fees	Expenditure	Aprv	4	1
19-00713	05/28/19	4 project 10270.53 lakeridge	2,679.00	06-408-000-000 Engineering Fees	Expenditure	Aprv	5	1
19-00713	05/28/19	5 project 10270.56 route 100 map	11,329.95	06-408-000-000 Engineering Fees	Expenditure	Aprv	6	1
19-00713	05/28/19	6 project 10270.57 storage tanks	7,541.35	06-408-000-000 Engineering Fees	Expenditure	Aprv	7	1
19-00713	05/28/19	7 project 10270.61 act 537 plan	1,559.25	06-408-000-000 Engineering Fees	Expenditure	Aprv	8	1
19-00713	05/28/19	8 project 10270.64 milford farms	10,927.15	06-408-000-000 Engineering Fees	Expenditure	Aprv	9	1
19-00713	05/28/19	9 project 10270.65 act 537 plan	1,716.50	06-408-000-000 Engineering Fees	Expenditure	Aprv	10	1
19-00713	05/28/19	10 project 10270.67 reuse develop	487.47	06-408-000-000 Engineering Fees	Expenditure	Aprv	11	1
			60,935.69					
05/28/19 BARBA010 BARBACANE THORNTON & COMPANY				200 SPRINGER BUILDING				
19-00717	05/28/19	1 2018 audit fees	200.00	06-402-000-450 Audit Fees	Expenditure	Aprv	33	1
			200.00					
05/28/19 CHRISFRA FRANTZ, CHRISTOPHER				PO BOX 557				
19-00724	05/28/19	1 april sewer collections	336.00	06-404-000-000 Legal Fees	Expenditure	Aprv	46	1
			336.00					
05/28/19 CLEANWAT CLEAN WATER, INC.				170 DALLAS STREET				
19-00718	05/28/19	1 monthly wwtp operations	6,355.00	06-420-000-045 Contracted Services	Expenditure	Aprv	34	1
			6,355.00					
05/28/19 COUNT010 COUNTRY ESTATE FENCE, INC.				35 SENN DRIVE				
19-00719	05/28/19	1 greenridge-split rail fencing	157.00	06-420-000-045	Expenditure	Aprv	35	1

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Upper Uwchlan Township
Check Payment Batch Verification Listing

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Check No.	Check Date	Vendor # Name	Payment Amt	Street 1 of Address to be printed on Check	Charge Account	Account Type	Status	Seq	Acct
PO #	Enc Date	Item Description			Description				
			157.00	Contracted Services					
19-00721	05/28/19	DECKM010 DECKMAN ELECTRIC, INC.		49 W. FRONT STREET					
05/28/19	05/28/19	1 eaglepointe - new century Shp	425.78	06-409-000-260	Expenditure	Aprv	38	1	
				Building Supplies & Small Tools					
19-00721	05/28/19	2 marsh harbor - aerobic motor	2,098.50	06-409-000-260	Expenditure	Aprv	39	1	
				Building Supplies & Small Tools					
19-00721	05/28/19	3 rt 100 - rebuilt motor	4,350.00	06-409-000-260	Expenditure	Aprv	40	1	
				Building Supplies & Small Tools					
19-00721	05/28/19	4 saybrooke - myers pump	3,181.08	06-409-000-260	Expenditure	Aprv	41	1	
				Building Supplies & Small Tools					
19-00721	05/28/19	5 eaglepointe - flygt pump	4,769.10	06-409-000-260	Expenditure	Aprv	42	1	
				Building Supplies & Small Tools					
19-00721	05/28/19	6 capacitor	68.00	06-409-000-260	Expenditure	Aprv	43	1	
				Building Supplies & Small Tools					
			14,892.46						
19-00720	05/28/19	DYNAT010 DYNA TECH INDUSTRIES LTD		120 N 25TH STREET					
05/28/19	05/28/19	1 rt 100 plant service	1,047.00	06-420-000-025	Expenditure	Aprv	36	1	
				Maintenance & Repair					
19-00720	05/28/19	2 rt 100 plant service	874.00	06-420-000-025	Expenditure	Aprv	37	1	
				Maintenance & Repair					
			1,921.00						
19-00723	05/28/19	EAGLHARD EAGLE HARDWARE							
05/28/19	05/28/19	1 ma - limestone	34.48	06-420-000-020	Expenditure	Aprv	45	1	
				Supplies					
			34.48						
19-00722	05/28/19	EDMUN010 EDMUNDS & ASSOCIATES, INC.		301 A TILTON ROAD					
05/28/19	05/28/19	1 q2 sewer bill prep	1,284.33	06-406-000-100	Expenditure	Aprv	44	1	
				Utility Billing Costs					
			1,284.33						
19-00725	05/28/19	INKS0010 INK'S DISPOSAL SERVICE, INC.		564 NORTH MANOR ROAD					
05/28/19	05/28/19	1 eaglepointe cleaned, pumped	1,375.00	06-420-000-025	Expenditure	Aprv	47	1	
				Maintenance & Repair					
			1,375.00						
19-00726	05/28/19	KRUPA010 KRUPANSKY FENCE CO., LLC		12 RUSSELL CT.					
05/28/19	05/28/19	1 high privacy inserts	888.52	06-420-000-020	Expenditure	Aprv	48	1	
				Supplies					
			888.52						
19-00729	05/28/19	MARSH020 MARSH CREEK SIGNS		P.O. BOX 371					
05/28/19	05/28/19	1 711 dorian court signs	196.00	06-420-000-020	Expenditure	Aprv	75	1	
				Supplies					
			196.00						
19-00727	05/28/19	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC		920 SOUTH BOLMAR STREET					
05/28/19	05/28/19	1 windsor ridge	1,089.34	06-420-000-031	Expenditure	Aprv	49	1	

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Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 4

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
19-00727	05/28/19	2 eaglepointe	219.94	Pump & Haul 06-420-000-031	Expenditure	Aprv	50	1
19-00727	05/28/19	3 eaglepointe	404.69	Pump & Haul 06-420-000-031	Expenditure	Aprv	51	1
19-00727	05/28/19	4 kiloran wynd	983.75	Pump & Haul 06-420-000-031	Expenditure	Aprv	52	1
19-00727	05/28/19	5 route 100 wwtp	77.63	Pump & Haul 06-420-000-031	Expenditure	Aprv	53	1
19-00727	05/28/19	6 route 100 wwtp	2,633.82	Pump & Haul 06-420-000-031	Expenditure	Aprv	54	1
19-00727	05/28/19	7 eaglepointe	404.69	Pump & Haul 06-420-000-031	Expenditure	Aprv	55	1
19-00727	05/28/19	8 eaglepointe	404.69	Pump & Haul 06-420-000-031	Expenditure	Aprv	56	1
19-00727	05/28/19	9 route 100 wwtp	1,053.53	Pump & Haul 06-420-000-031	Expenditure	Aprv	57	1
19-00727	05/28/19	10 route 100 wwtp	77.63	Pump & Haul 06-420-000-031	Expenditure	Aprv	58	1
19-00727	05/28/19	11 eaglepointe	3,868.22	Pump & Haul 06-420-000-031	Expenditure	Aprv	59	1
19-00727	05/28/19	12 route 100 wwtp	77.63	Pump & Haul 06-420-000-031	Expenditure	Aprv	60	1
19-00727	05/28/19	13 eaglepointe	404.69	Pump & Haul 06-420-000-031	Expenditure	Aprv	61	1
19-00727	05/28/19	14 route 100 wwtp	77.63	Pump & Haul 06-420-000-031	Expenditure	Aprv	62	1
19-00727	05/28/19	15 eaglepointe	404.69	Pump & Haul 06-420-000-031	Expenditure	Aprv	63	1
			<u>12,182.57</u>					
				05/28/19 MCI00001 MCI COMM SERVICE				
19-00732	05/28/19	1 telephone	44.91	PO BOX 15043 06-409-000-032	Expenditure	Aprv	78	1
			<u>44.91</u>	Telephone				
				05/28/19 MJREIDER M. J. REIDER ASSOCIATES, INC.				
19-00728	05/28/19	1 st. andrews	108.50	107 ANGELICA STREET 06-420-000-030	Expenditure	Aprv	64	1
19-00728	05/28/19	2 lakeridge	122.50	Testing 06-420-000-030	Expenditure	Aprv	65	1
19-00728	05/28/19	3 eaglepointe	150.50	Testing 06-420-000-030	Expenditure	Aprv	66	1
19-00728	05/28/19	4 marsh harbor	122.50	Testing 06-420-000-030	Expenditure	Aprv	67	1
19-00728	05/28/19	5 saybrooke	108.50	Testing 06-420-000-030	Expenditure	Aprv	68	1
19-00728	05/28/19	6 reserve,eagle hunt,byers,ewing	56.00	Testing 06-420-000-030	Expenditure	Aprv	69	1
19-00728	05/28/19	7 saybrooke	42.00	Testing 06-420-000-030	Expenditure	Aprv	70	1
19-00728	05/28/19	8 greenridge	108.50	Testing 06-420-000-030	Expenditure	Aprv	71	1

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
19-00728	05/28/19	9 rt 100 wwtp	108.50	Testing 06-420-000-030	Expenditure	Aprv	72	1
19-00728	05/28/19	10 st. andrews	119.00	Testing 06-420-000-030	Expenditure	Aprv	73	1
19-00728	05/28/19	11 eaglepointe	28.00	Testing 06-420-000-030	Expenditure	Aprv	74	1
			<u>1,074.50</u>	Testing				
05/28/19 MSSER040 M & S SERVICE COMPANY, INC.				1220 VALLEY FORGE ROAD #16				
19-00731	05/28/19	1 windsor ridge - transducer	998.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	77	1
			<u>998.00</u>					
05/28/19 MULLS010 MULL'S ELECTRIC, INC.				357 MAIN STREET				
19-00730	05/28/19	1 lakeridge - rebuild pump	3,465.56	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	76	1
			<u>3,465.56</u>					
05/28/19 OROUR010 O'ROURKE & SONS, INC				992 S. BOLMAR STREET				
19-00733	05/28/19	1 angle 3/16	118.00	06-420-000-020 Supplies	Expenditure	Aprv	79	1
			<u>118.00</u>					
05/28/19 PEC00010 PECO				PO BOX 37629				
19-00740	05/28/19	1 304 fellowship road	39.47	06-409-000-036 Electric	Expenditure	Aprv	93	1
19-00740	05/28/19	2 2500 eagle farms road	634.24	06-409-000-036 Electric	Expenditure	Aprv	94	1
19-00740	05/28/19	3 seabury lane	27.80	06-409-000-036 Electric	Expenditure	Aprv	95	1
19-00740	05/28/19	4 primrose court	827.92	06-409-000-036 Electric	Expenditure	Aprv	96	1
19-00740	05/28/19	5 prescott drive	330.67	06-409-000-036 Electric	Expenditure	Aprv	97	1
19-00740	05/28/19	6 meadow creek lane	35.23	06-409-000-036 Electric	Expenditure	Aprv	98	1
19-00740	05/28/19	7 301 pottstown pike	682.54	06-409-000-036 Electric	Expenditure	Aprv	99	1
19-00740	05/28/19	8 kristines way	210.39	06-409-000-036 Electric	Expenditure	Aprv	100	1
19-00740	05/28/19	9 711 dorian road	474.63	06-409-000-036 Electric	Expenditure	Aprv	101	1
19-00740	05/28/19	10 111 dorothy lane	48.60	06-409-000-036 Electric	Expenditure	Aprv	102	1
19-00740	05/28/19	11 dorlan drive	1,311.11	06-409-000-036 Electric	Expenditure	Aprv	103	1
19-00740	05/28/19	12 381 lcr	142.35	06-409-000-036 Electric	Expenditure	Aprv	104	1
19-00740	05/28/19	13 st. andrews road	35.10	06-409-000-036 Electric	Expenditure	Aprv	105	1
19-00740	05/28/19	14 park road	1,580.75	06-409-000-036 Electric	Expenditure	Aprv	106	1

May 24, 2019
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Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 6

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
19-00740	05/28/19	15 55 pottstown pike	537.35	Electric 06-409-000-036	Expenditure	Aprv	107	1
19-00740	05/28/19	16 yarmouth lane	236.24	Electric 06-409-000-036	Expenditure	Aprv	108	1
19-00740	05/28/19	17 sunderland avenue	1,667.69	Electric 06-409-000-036	Expenditure	Aprv	109	1
19-00740	05/28/19	18 kiloran wynd	95.19	Electric 06-409-000-036	Expenditure	Aprv	110	1
19-00740	05/28/19	19 flagstone road	1,028.35	Electric 06-409-000-036	Expenditure	Aprv	111	1
19-00740	05/28/19	20 yarmouth lane	27.51	Electric 06-409-000-036	Expenditure	Aprv	112	1
19-00740	05/28/19	21 140 pottstown pike	148.13	Electric 06-409-000-036	Expenditure	Aprv	113	1
19-00740	05/28/19	22 275 fellowship road	6,934.03	Electric 06-409-000-036	Expenditure	Aprv	114	1
19-00740	05/28/19	23 heron hill drive	88.17	Electric 06-409-000-036	Expenditure	Aprv	115	1
19-00740	05/28/19	24 indian springs drive	56.69	Electric 06-409-000-036	Expenditure	Aprv	116	1
19-00740	05/28/19	25 yarmouth lane	159.92	Electric 06-409-000-036	Expenditure	Aprv	117	1
19-00740	05/28/19	26 cassandra lane	103.94	Electric 06-409-000-036	Expenditure	Aprv	118	1
19-00740	05/28/19	27 fellowship road	983.42	Electric 06-409-000-036	Expenditure	Aprv	119	1
			<u>18,447.43</u>					
19-00738	05/28/19	PENNS080 PENNSYLVANIA ONE CALL 1 monthly activity	222.09	P.O. BOX 640407 06-420-000-329 PA One Call	Expenditure	Aprv	91	1
			<u>222.09</u>					
19-00736	05/28/19	PIKEL020 PIKELAND CONSTRUCTION 1 marsh harbor force main sleeve	2,830.00	PO BOX 687 06-420-000-045 Contracted Services	Expenditure	Aprv	89	1
			<u>2,830.00</u>					
19-00739	05/28/19	PIPEX020 PIPE XPRESS, INC. 1 pvc coupling, plug	227.96	817 E WASHINGTON STREET 06-420-000-020 Supplies	Expenditure	Aprv	92	1
			<u>227.96</u>					
19-00737	05/28/19	POSTM010 POSTMASTER UWCHLAND 1 mailbox rental - 6 mos	67.00	101 FELLOWSHIP ROAD 06-406-000-100 Utility Billing Costs	Expenditure	Aprv	90	1
			<u>67.00</u>					
19-00735	05/28/19	PRED0010 PREDOC 1 381 lcr backflow	95.00	14 CHRISEVYN LANE 06-420-000-025 Maintenance & Repair	Expenditure	Aprv	81	1

May 24, 2019
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Upper Uwchlan Township
Check Payment Batch Verification Listing

Page No: 7

Check No. PO #	Check Date Enc Date	Vendor # Name Item Description	Payment Amt	Street 1 of Address to be printed on Check Charge Account Description	Account Type	Status	Seq	Acct
19-00735	05/28/19	2 eaglepointe - jammed pumps	435.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	82	1
19-00735	05/28/19	3 saybrooke - pump repair	700.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	83	1
19-00735	05/28/19	4 eaglepointe - pump repair	280.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	84	1
19-00735	05/28/19	5 103 indian springs road	375.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	85	1
19-00735	05/28/19	6 103 indian springs road	2,263.59	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	86	1
19-00735	05/28/19	7 eaglepointe - jammed pump	280.00	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	87	1
19-00735	05/28/19	8 route 100 wwtp - backflow test	1,308.85	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	88	1
			5,737.44					
19-00734	05/28/19	1 wwtf fence installations #3	12,626.00	2621 CENTRE AVENUE 06-483-000-000 Capital Repair	Expenditure	Aprv	80	1
			12,626.00					
19-00742	05/28/19	1 eaglepointe - silencers	1,270.00	PO BOX 937 06-420-000-025 Maintenance & Repair	Expenditure	Aprv	121	1
			1,270.00					
19-00743	05/28/19	1 screened topsoil	40.00	976 POTTSTOWN PIKE 06-420-000-020 Supplies	Expenditure	Aprv	122	1
			40.00					
19-00744	05/28/19	1 april & may telephone	2,063.60	PO BOX 28000 06-409-000-032 Telephone	Expenditure	Aprv	123	1
			2,063.60					
19-00745	05/28/19	1 april & may - internet	284.80	PO BOX 15124 06-409-000-032 Telephone	Expenditure	Aprv	124	1
			284.80					
19-00746	05/28/19	1 ma - labor	571.45	P.O. BOX 196 06-420-000-025 Maintenance & Repair	Expenditure	Aprv	125	1
			571.45					
Checks:	<u>Count</u> 35	<u>Line Items</u> 125	<u>Amount</u> 159,952.89					

There are NO errors or warnings in this listing.

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

ASSETS

Cash

06-100-000-010	General Checking - Fulton Bank	\$	30,213.03
06-100-000-015	General Checking - Meridian Bank		299,186.78
06-100-000-020	General Checking - WIPP		599,462.32
06-106-000-002	Tap-in Fee Account		317,405.11
06-110-000-100	Fulton Bank Bond Proceeds - ICS		-
06-110-000-200	Fulton Bank Bond Proceeds - MMDA		5,242,788.82
	Total Cash		6,489,056.06

PSDLAF Investments:

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

Accounts Receivable

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

Other Current Assets

06-130-000-001	Due from MA Capital Fund		-
06-130-000-002	Due from UUT General Fund		-
06-130-000-003	Due from UUT Capital Fund		-
06-130-000-004	Due from Solid Waste Fund		1,831.79
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		1,831.79

Fixed Assets

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

Other Long Term Assets

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

Total Assets	\$	9,789,544.87
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Upper Uwchlan Township Municipal Authority
Balance Sheet
As of April 30, 2019

LIABILITIES AND FUND BALANCE

		<u>Current Liabilities</u>	
06-200-000-020	Accounts Payable	-	
06-230-000-010	Due to UUT General Fund	88,482.00	
06-230-000-020	Due to UUT Capital Fund	-	
06-230-000-021	Due to MA Capital Fund	-	
06-230-000-030	Due to Solid Waste Fund	13,731.31	
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	60,935.69	
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	65,507.36	
		<hr/>	
		Total Current Liabilities	228,931.36
		<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)	5,202,875.58	
		<hr/>	
		Total Equity	9,560,613.51
		Total Fund Balance	9,560,613.51
		Total Liabilities & Fund Balance	\$ 9,789,544.87

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

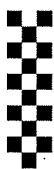
For the Period Ended April 30, 2019

	Actual 2019 YTD	Budget 2019	% of Budget	Actual 2018 <i>(unaudited)</i>	Budget 2018
<u>REVENUES</u>					
06-340-000-000 Interest Income	45,468.82	15,000.00	303.1%	17,267.16	7,300.00
06-365-000-000 Usage Fees Residential	624,816.50	2,139,571.00	29.2%	2,134,169.13	2,027,640.00
06-365-000-001 Usage Fees Commercial	28,354.60	100,000.00	28.4%	91,041.25	101,014.00
06-365-000-010 Tapping Fees	-	2,543,000.00	0.0%	31,255.74	2,176,350.00
06-370-000-000 Misc revenue	-	1,000.00	0.0%	208.16	1,000.00
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!	1,200.00	-
06-395-000-100 Transfer from Sewer Fund	-	-	#DIV/0!	-	-
TOTAL REVENUES	\$ 5,904,195.99	\$ 10,191,792.00	57.9%	\$ 2,275,141.44	\$ 4,313,304.00
<u>EXPENDITURES</u>					
<u>General:</u>					
06-400-000-001 Administration	88,482.00	241,246.00	36.7%	211,283.23	234,219.00
06-400-000-002 Authority Administrator	32,830.75	120,000.00	27.4%	121,587.22	120,000.00
06-400-000-003 Professional Fees	-	12,000.00	0.0%	7,532.74	12,000.00
06-400-000-200 Admin Supplies	-	1,000.00	0.0%	-	1,000.00
06-400-000-341 Advertising	-	5,000.00	0.0%	3,408.44	1,000.00
06-400-000-352 Insurance - Liability	3,575.25	5,545.00	64.5%	4,660.52	2,337.00
06-400-000-355 Bank Fees	8.00	650.00	1.2%	205.44	650.00
06-402-000-450 Audit Fees	3,550.00	5,450.00	65.1%	5,300.00	5,200.00
06-404-000-000 Legal Fees	2,908.86	20,800.00	14.0%	15,747.84	20,800.00
06-406-000-100 Utility Billing Costs	5,284.87	10,000.00	0.0%	8,078.94	18,000.00
06-408-000-000 Engineering Fees	136,786.45	150,000.00	91.2%	127,631.98	150,000.00
06-408-000-100 Reimbursable Engineering Fees	-	-	#DIV/0!	-	-
	273,426.18	571,691.00	47.8%	505,436.35	565,206.00
<u>Building Expenses:</u>					
06-409-000-031 Lawn Care	-	5,000.00	0.0%	1,194.24	7,500.00
06-409-000-032 Telephone	3,583.45	15,000.00	23.9%	14,923.35	15,000.00
06-409-000-035 Insurance	3,575.25	8,756.00	40.8%	6,974.00	9,297.00
06-409-000-036 Electric	89,047.25	250,000.00	35.6%	232,078.16	250,000.00
06-409-000-037 Water	3,386.06	25,000.00	13.5%	11,627.58	25,000.00
06-409-000-052 Bldg Maint & Repair	-	10,000.00	0.0%	1,513.72	8,000.00
06-409-000-260 Building Supplies & Small Tools	1,118.17	5,000.00	22.4%	259.00	15,000.00
06-409-000-427 Waste Disposal	-	-	#DIV/0!	-	-
	100,710.18	318,756.00	31.6%	268,570.05	329,797.00
<u>Operations:</u>					
06-420-000-020 Supplies	3,804.98	20,000.00	19.0%	14,379.21	20,000.00
06-420-000-022 Chemicals	936.43	15,000.00	6.2%	10,679.56	15,450.00
06-420-000-023 Propane and Fuel Oil	851.42	5,000.00	17.0%	4,649.20	2,575.00
06-420-000-025 Maintenance & Repair	29,652.48	120,000.00	24.7%	92,719.43	120,000.00
06-420-000-030 Testing	7,027.19	40,000.00	17.6%	42,970.95	40,000.00
06-420-000-031 Pump & Haul	13,964.90	50,000.00	27.9%	50,600.31	50,000.00
06-420-000-032 Vegetation Management	-	20,000.00	0.0%	10,227.69	20,000.00
06-420-000-035 Permits	1,526.00	5,000.00	30.5%	3,768.00	5,000.00
06-420-000-042 Dues and Memberships	10.00	2,500.00	0.4%	2,100.00	2,500.00
06-420-000-045 Contracted Services	88,491.23	135,000.00	65.5%	141,411.30	135,000.00
06-420-000-048 Misc expenses	30.39	10,000.00	0.3%	40,102.26	5,000.00
06-420-000-235 Vehicle Maintenance	38.94	2,000.00	1.9%	3,910.00	2,000.00
06-420-000-329 PA One Call	589.99	2,500.00	23.6%	1,541.45	2,500.00
	146,923.95	427,000.00	34.4%	419,059.36	420,025.00

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

**For the Period Ended April 30, 2019
(Continued)**

		Actual 2019 YTD	Budget 2019	% of Budget	Actual 2018 <i>(unaudited)</i>	Budget 2018
	<u>Capital:</u>					
06-472-000-100	Bond Interest Expense - 2019 bonds	65,507.36	190,681.00	34.4%	-	-
06-483-000-000	Capital Repair	22,821.99	50,000.00	45.6%	177,458.14	30,000.00
06-483-000-100	Capital Construction		1,500,000.00			
06-493-000-083	Depreciation		50,000.00	0.0%	-	36,000.00
		88,329.35	1,790,681.00	4.9%	177,458.14	66,000.00
Total Expenditures before Operations Agreement and Tran:		\$ 609,389.66	\$ 3,108,128.00	19.6%	\$ 1,370,523.90	\$ 1,381,028.00
Net Income before Operations Agreement and Transfers		\$ 5,294,806.33	\$ 7,083,664.00	74.7%	904,617.54	2,932,276.00
	<u>Other:</u>					
06-471-000-010	Operations Agreement Fee to UUT	91,930.75	369,213.00	24.9%	364,339.21	364,463.00
		91,930.75	369,213.00	24.9%	364,339.21	414,463.00
06-492-000-010	Transfer to Sewer Fund	-	-	#DIV/0!	-	-
06-492-000-020	Transfer to Water Resource Protection F	-	-	#DIV/0!	-	-
06-492-000-030	Transfer to UUT Capital Fund	-	-	#DIV/0!	-	-
		-	-	#DIV/0!	-	-
TOTAL EXPENDITURES		\$ 701,320.41	\$ 3,477,341.00	20.2%	\$ 1,734,863.11	\$ 1,795,491.00
OPERATING INCOME		\$ 5,202,875.58	\$ 6,714,451.00	77.5%	\$ 540,278.33	\$ 2,517,813.00



Clean Water, Inc.

170 Dallas St.
Box 475
Atglen, Pa. 19310

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

May 23, 2019

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

RE: Report for the May 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 March. Information items are current

Route 100

Spray and drip continues to increase as conditions warrant. We had Predoc out to swap a pump at the Eagle Manor pump station. One of the pumps for Reserve at Eagle 1 station was pulled due to high amps and was sent to Deckmans. The cost to rebuild is \$6700.00. A new one is nearly \$19,000. I repaired a broken riser at Reserve at Eagle spray field. The field was cut at Ewing West Vincent. That field is very thin, I am going to start looking into having that field over seeded, I had to pay the farmer to cut the field since there was no harvest. He will bill me then I will just bill you for the services. Mulls Electric was out to assist with diagnosing a problem I was having with the control circuit for the SBR blowers at rt 100. I also will be reporting a slight total nitrogen violation for April. I suspect it is seasonal in nature. The result was just over the permitted limit of 14 mg/l. Larry Hepner was out recently to collect soil samples for the crop management reports. Dynatec completed all repairs to the generator. Ehrlich was out to spray the banks of all the lagoon sites for week control

Eaglepoint

Plant is running well. The pump mentioned last month that was sent to Deckmans was not worth rebuilding. A new one was ordered and will be installed shortly. The sound suppression unit for the blower was installed. The installation of the silencers created an increase in brake horse power of the 5 hp motor that exceeded amp limits for the motor. A new 7.5 hp motor was installed. Univar will be delivering Delpac chemical shortly for phosphorus removal. I will be reporting a very slight violation for phosphorus. We were just over the .5 mg/l limit with a result of .55. I showed Brian O that the discharge line is cracked somewhere after the cl2 basin. It will be repaired soon.

St. Andrews Brae

Plant is running fine. Inks was out to clean clarifier baffle and haul sludge.

Clean Water, Inc. Wastewater Treatment Specialists

Marsh Harbour

Plant continues to run fine. We had to swap out the lagoon aerator again. I suspect though it can not be proven, that it had something to do with the shut off of service during the side walk project. The next day after they shut us down , I had to reset many things within the system. The spray fields here should be cut shortly. I added aqua shade to the lagoon for algae control I had a resident at 522 Larkins Bridge call about a wet spot in their back yard. They back up against the property. I tested the water for phos and ammonia, both were negative. I suspect it is a spring break out as a result of the abnormal rain fall.

Saybrooke

Plant is running fine. McGovern's was out to haul sludge. One of the effluent dosing pumps was pulled and sent to Deckmans for rebuild.

Lakeridge

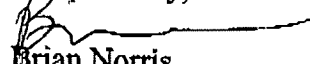
Plant is running well. Predoc has begun cleaning the beds, but have not finished.

Greenridge

Drip continues here. This field will be cut shortly

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

Respectfully,


Brian Norris

Clean Water, Inc. Wastewater Treatment Specialists



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

MEMORANDUM

TO: Upper Uwchlan Township Municipal Authority

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

RE: Project Status Report

PROJECT NO.: 17000.00

DATE: May 22, 2019

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

Byers Station

Village at Byers Station (5C), Lot #1 Townhouse Parcel: At Byers Station Lot 5C ARRO is providing assistance to Toll with regards to capacity needs in determining sanitary sewer flow estimation for various potential building uses. ARRO is reviewing the Village at Byers Station (5C) sanitary sewer system package prepared by Bohler Engineering for Executive Land Holdings, LP. ARRO will be submitting review comments to the Township. ARRO completed its review of the Village at Byers Station (5C) sanitary sewer system package and submitted review comments to the Township. Revised Village at Byers Station (5C) sanitary sewer plans, dated September 12, 2016, was submitted to ARRO for review. ARRO completed its review of the plans and will issue a review comments letter to the Township by September 23, 2016. ARRO reviewed a Sewage Facilities Planning Module exemption package for The Village at Byers Station (5C). The package was signed and returned to the Township for forwarding to the Developer's engineer who will submit the package to PADEP. ARRO reviewed the full Village at Byers Station (5C) Planning Module package and returned it to the Township. The Township forwarded Components 4B and 4C to the Chester County Board of Health and Chester County Planning Commission for completion. ARRO issued a May 5, 2017 review letter to the Township with comments to the March 17, 2017 Subdivision and Amended Final PRD Plans for the Parcel 5C project. PADEP issued a June 9, 2017 Administrative Incompleteness review letter listing three items missing from the Sewage Facilities Planning Module submission. ARRO is assisting the Developer with responses to PADEP comments. PADEP issued a July 7, 2017 Administrative Incompleteness review letter for the Parcel 5C project listing one item regarding the sanitary sewer capacity. ARRO is assisting the Developer with a response to the PADEP comment. PADEP issued an August 3, 2017 letter approving the Official Plan revision for the 121 townhouses on Parcel 5C. ARRO reviewed the latest revision to the Land Development drawings and transmitted comments to Toll's engineer regarding showing the force main piping within the Station Boulevard sanitary easement. 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 revised also revised sanitary sewer capacity request of 15,195 gpd.

As of May 22, 2019 no formal submission of the revised layout and sanitary sewer request has been submitted to the Township.

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.

Nothing new to report.

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.

Effluent storage tank repairs are in progress. Approximately fifty percent of the work at the Eagle Hunt tank is complete as of May 22, 2019.

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.

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.

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.

ARRO prepared a June 13, 2018 memo to the Authority Administrator with findings regarding proposed residential recreational trails near existing Ewing Tract – West Vincent spray field sites. ARRO had its surveyor prepare plans and legal descriptions for the paved walking trail easements through Ewing Tract – West Vincent Spray Fields #2, #3 and #5. The plans and descriptions were transmitted to Toll Brothers on October 23, 2018.

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.

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 (SFPM) and is working on the sanitary sewer review. The Authority Administrator signed the SFPM Component 3 Sections G and J. The Board of Supervisors approved the SFPM resolution at the April 16, 2018 meeting. The developer's engineer stated in an April 17 email to the Authority Administrator that the SFPM is close to being submitted to PADEP for review. The Sewage Facilities Planning Module was send 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)

ARRO reviewed the sanitary sewer portion of the latest Final Subdivision/Land Development Plan and sent a January 14, 2016 letter to the Township stating all previous comments were addressed and recommending approval of the Plan. PADEP sent a March 18, 2016 letter to the Township with the approval of the Official Plan revision for the 61-unit Frame Property. ARRO reviewed the sanitary sewer escrow quantities prepared by Toll Brothers for Frame Property and found it acceptable. ARRO prepared a May 11, 2016 recommendation letter that was sent to the Township. Toll Brothers informed ARRO that they were hoping to settle on the property shortly and start construction in July. ARRO is preparing the Little Conestoga Road HOP for Toll. ARRO prepared and submitted to PennDOT the Little Conestoga Road HOP for Toll Brothers. Toll said PennDOT must issue the HOP before settlement on the property can take place. 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) remains to be done. 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.

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.

ARRO is working on a capacity analysis of the Greenridge Wastewater Treatment Plant.

On April 25, 2019 ARRO conducted a pre-construction meeting for the Open Community project. The Developer will attempt to use the lateral connection installed during the original Greenridge sanitary sewer installation work done in 2005.

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.

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.

Marsh Harbour

ARRO is continuing its evaluation of the Marsh Harbour WWTP access road and its stormwater requirements. ARRO completed its evaluation of the access road and stormwater requirements and submitted the evaluation to the Authority Administrator.

ARRO was put on notice by Allan Myers Contractors that work would begin on the Park Road Trail project in early March 2019. The Authority's Heron Hill Pump Station 2" PVC force main crosses under the walking path and road stormwater improvements. ARRO will be onsite February 21, 2019 when Allen Myers does hydro-excavation to locate the force main and check if the force main will interfere with proposed stormwater improvements. Pikeland Construction will be called upon to relocate the force main, if required. On February 21, 2019 ARRO was present during hydro-excavation when the Heron Hill Pump Station force main pipe was located in the shoulder of Park Road. From field survey it was determined that the force main will pass under the Trail Project's proposed stormwater piping. The Heron Hill force main was determined to be too close to the Trail Project's stormwater piping. On April 12, 2019 Pikeland Construction installed a 6" diameter ductile iron casing pipe around the force main.

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 working on an alternate energy assessment project for the Route 100 WWTP. Wind and solar energy sources are being evaluated. The final evaluation will be presented to the Board at the July 2018 meeting.

ARRO completed paperwork for the Route 100 WWTP Phase 2 post-construction stormwater management Notice of Termination as required by Chester County Conservation District (CCCD) and submitted the paperwork to Chester County for recording.

ARRO completed preparation of the 2018 Route 100 Regional Wastewater Treatment Plant Chapter 94 report and submitted the report to PADEP on March 28, 2019.

ARRO is continuing to work on digitizing features from all the satellite WWTPs.

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 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 completed paperwork for the Phase 2 Collection System post-construction stormwater management Notice of Termination as required by CCCD and submitted it to Chester County for recording.

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.

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.

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) – ARRO is reviewing the sanitary sewer portion of the Final Land Development Plan resubmission for the 44 unit townhouse project. ARRO reviewed the sanitary sewer portion of the second Final Land Development Plan submission, dated December 28, 2015, and sent a comment letter to the Township dated January 26, 2016. ARRO is currently reviewing the third submission of the Plan received February 12, 2016. ARRO reviewed the third submission, dated February 12, 2016, and sent a comment letter to the Township dated February 23, 2016. A revised Sewerage Facilities Planning Module for 33 EDUs was submitted by D. L. Howell & Associates, Inc., which ARRO reviewed and the Authority Administrator signed. The signed Module was returned to D. L.

Howell. ARRO reviewed another submission of the Final Land Development Plan and in a July 5, 2016 letter transmitted its comments to the Township. Sanitary sewer from the property was redesigned to connect to the new sanitary sewer in Cambridge Road in Windsor Place. ARRO reviewed another submission of the Final Land Development Plan and in a July 5, 2016 letter transmitted its comments to the Township. Sanitary sewer from the property was redesigned to connect to the new sanitary sewer in Cambridge Road in Windsor Place. ARRO transmitted review comments to the Developer's engineer regarding the planned sanitary sewer connection to the new sanitary sewer in Cambridge Road in Windsor Place. ARRO is reviewing the Sewage Facilities Planning Modules for the project. SFPM Component 4A was completed by the Township. Components 4B and 4C were completed by Chester County and sent to the Township. Sections G1, G2 and J were completed. The Township returned all of the SFPM completed information to the Developer's Engineer to prepare the appropriate copies for submission to PADEP. Additional SFPM information was provided to PADEP in response to their April 5, 2017 requests. 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.

McHugh Minor Subdivision Plan – ARRO reviewed a proposed 3-lot subdivision plan with individual on-lot disposal systems. ARRO prepared a September 6, 2016 review comments letter and transmitted it to the Township. ARRO reviewed the subdivision Sewage Facilities Planning Modules (SFPM) and the Township sent them on to Chester County for completion of Components 4B and 4C. The Township provided the completed Components 4A, 4B and 4C to the applicant's consultant to assemble the complete SFPMs for the Board of Supervisors to adopt a Resolution for submission to PADEP. PADEP issued a July 7, 2017 Administrative Incompleteness review letter for the subdivision plan listing two items. ARRO is assisting the Developer with a response to the PADEP comment. ARRO sent a September 19, 2017 email to PADEP with responses to PADEP's recent Administrative Incompleteness letter. Regarding the SFPM, an Authority letter, dated October 11, 2017, was sent to PADEP informing them that the Township is not involved in the ownership of private on-lot septic system. ARRO responded to a subsequent email from PADEP on October 30, 2017 with a draft Septage Management Ordinance that is currently under Township review. ARRO is endeavoring to obtain a status from PADEP to its last correspondence to PADEP. ARRO contacted PADEP and the Department wants either an executed O&M agreement with the property owner and Township OR a Township enacted Septage Management Ordinance. The SFPM will not be acted on until one or the other is submitted to the Department.

Nothing new to report.

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.

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 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 final sanitary sewer design drawings for project.

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.

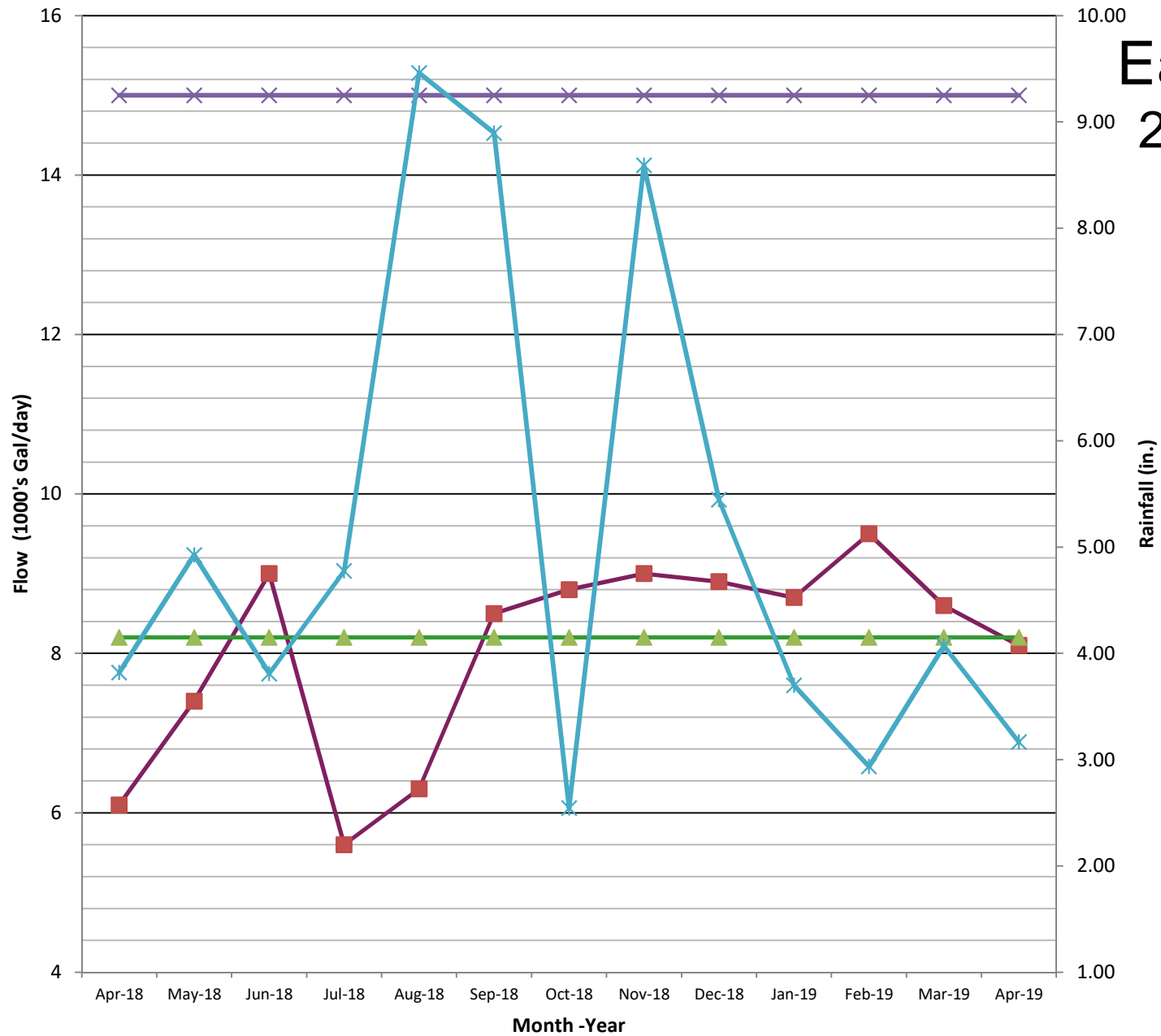
Nothing new to report.

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

**UPPER UWCHLAN MUNICIPAL AUTHORITY
WASTEWATER TREATMENT PLANTS
MONTHLY AVERAGE DAILY FLOWS**

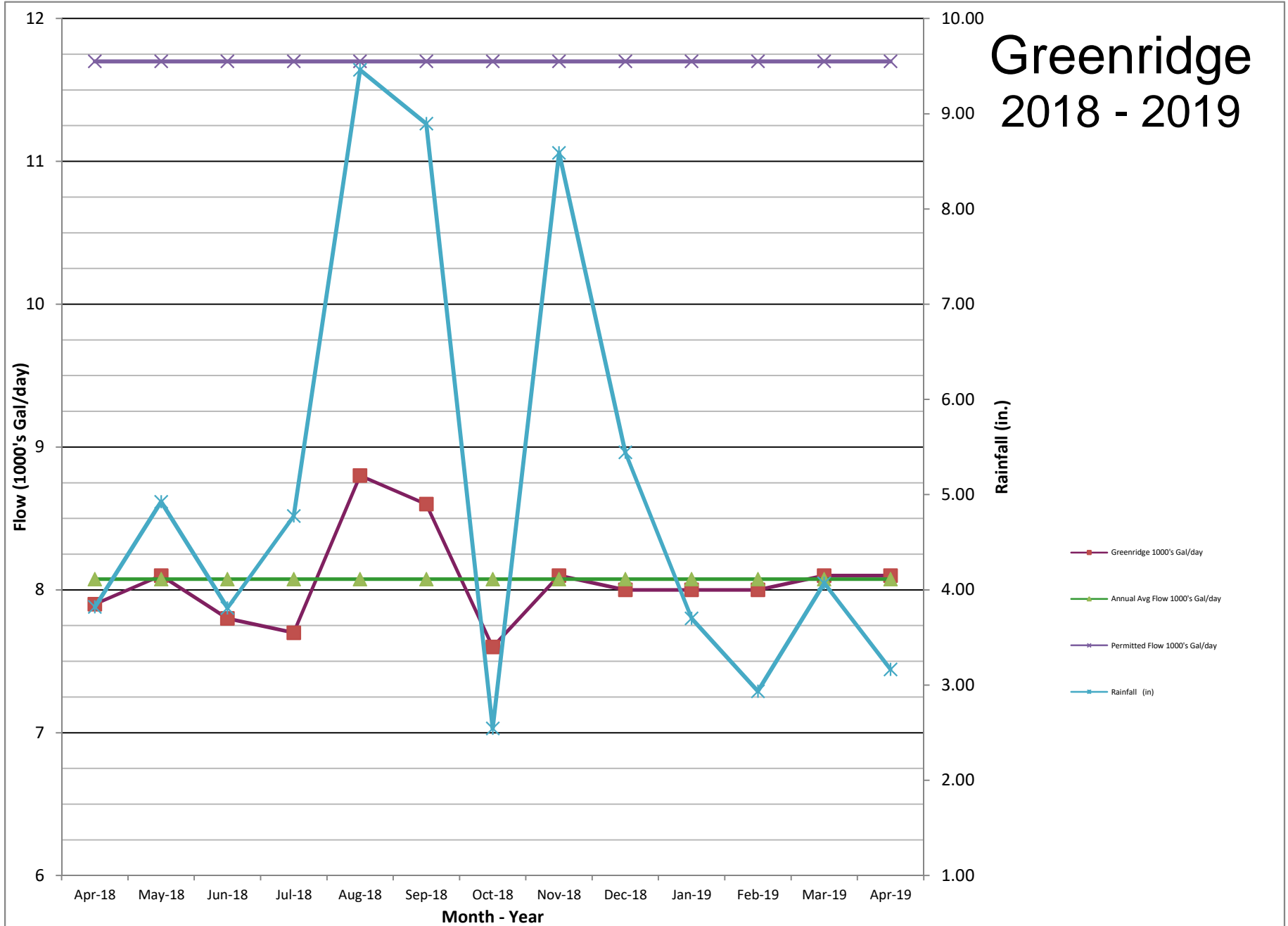
Month - Year		Average Daily Flow (MGD)							Rainfall (in)
		Eaglepointe	Greenridge	Lakeridge	Marsh Harbour	Route 100	Saybrooke	St. Andrews	
Apr-18		0.00610	0.00790	0.02560	0.04010	0.32180	0.00750	0.00270	3.82
May-18		0.00740	0.00810	0.02650	0.04020	0.33400	0.00750	0.00250	4.93
Jun-18		0.00900	0.00780	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
Annual Avg Flow =		0.00820	0.00808	0.02757	0.04169	0.34481	0.00774	0.00252	
Permitted Flow =		0.01500	0.01170	0.04000	0.07600	0.60000	0.00920	0.00360	

Eaglepointe 2018 - 2019

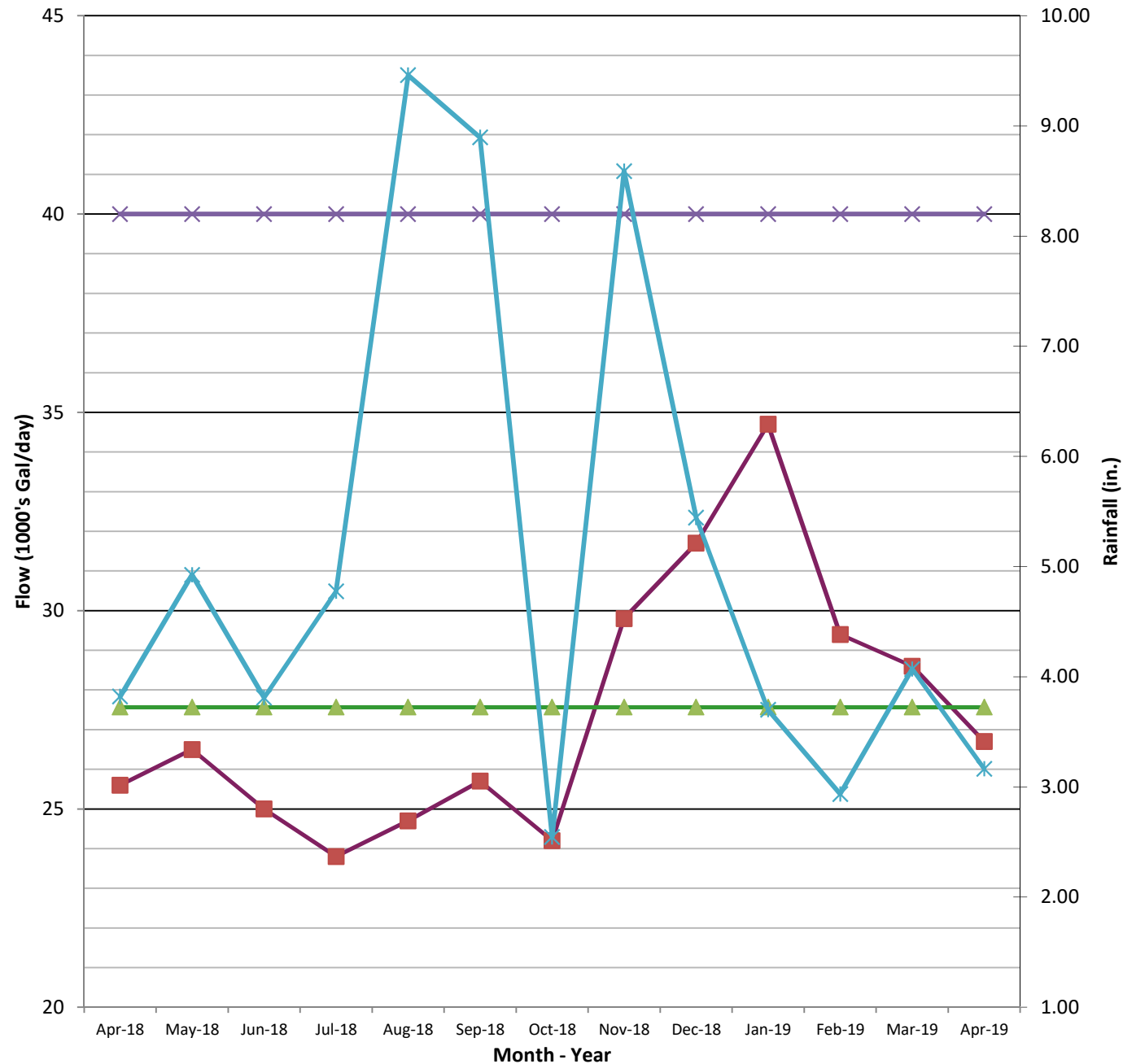


**CarSense
started flow
to Eaglepointe
on June 1, 2018.**

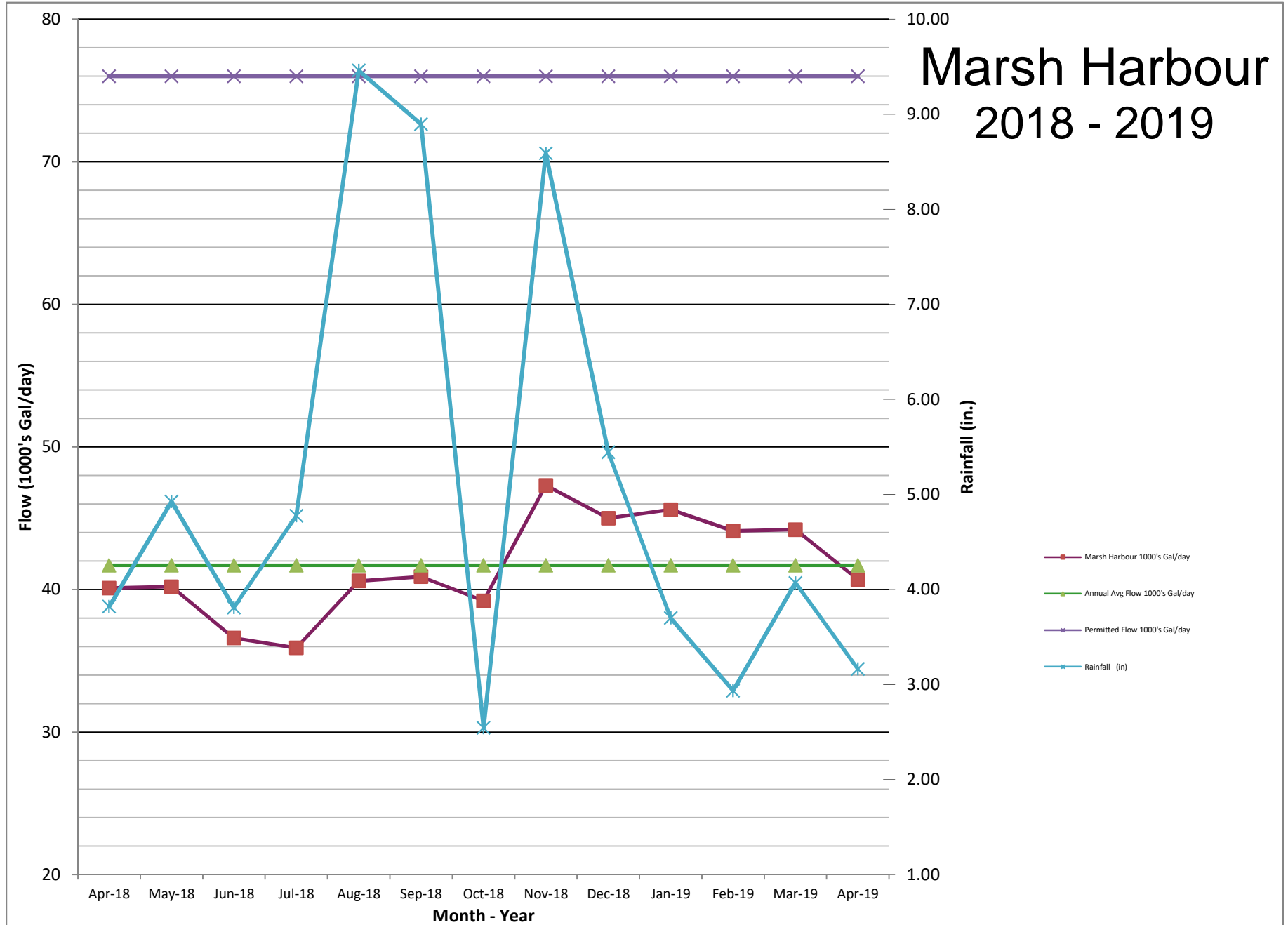
Greenridge 2018 - 2019



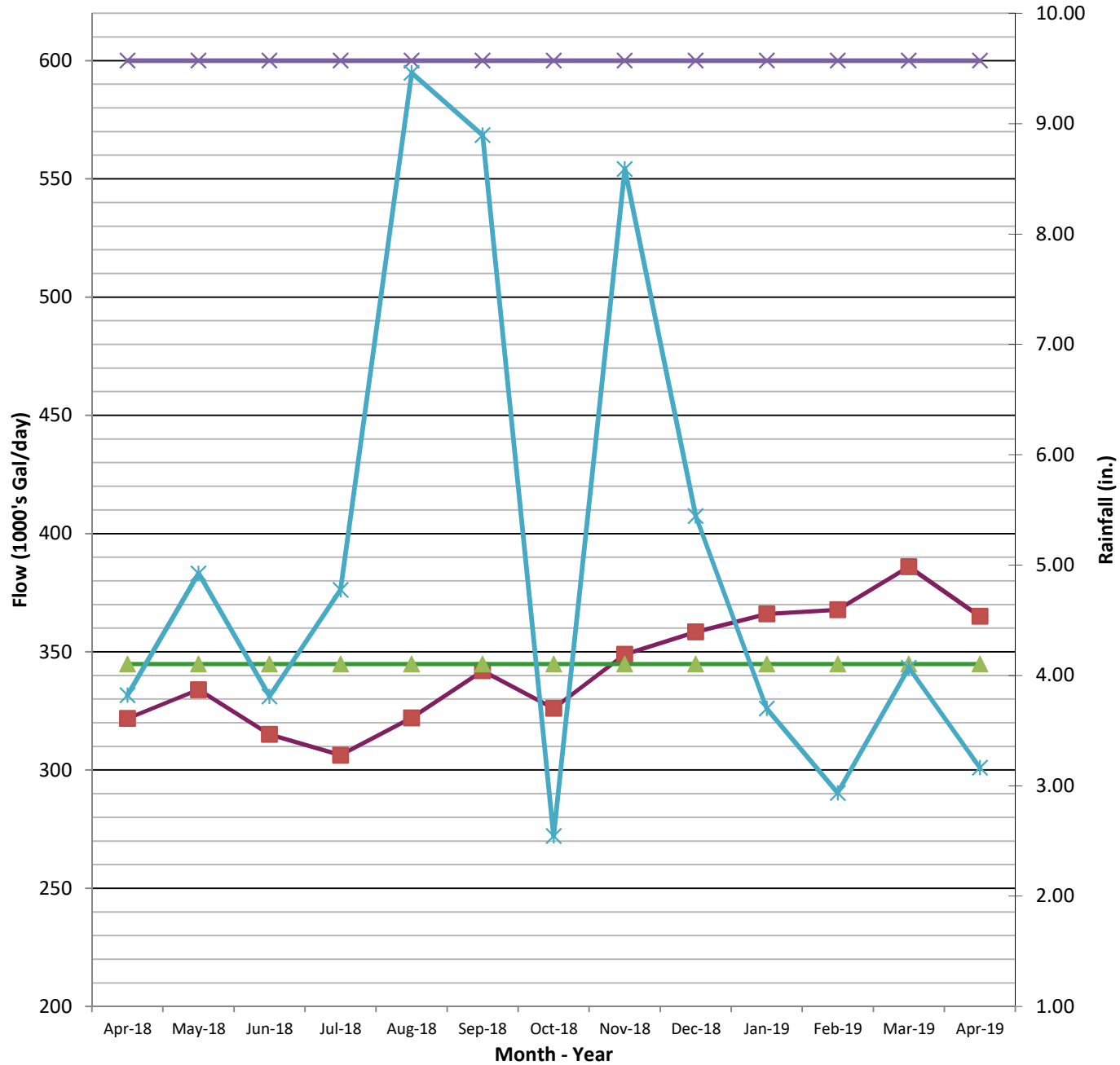
Lakeridge 2018 - 2019



Marsh Harbour 2018 - 2019



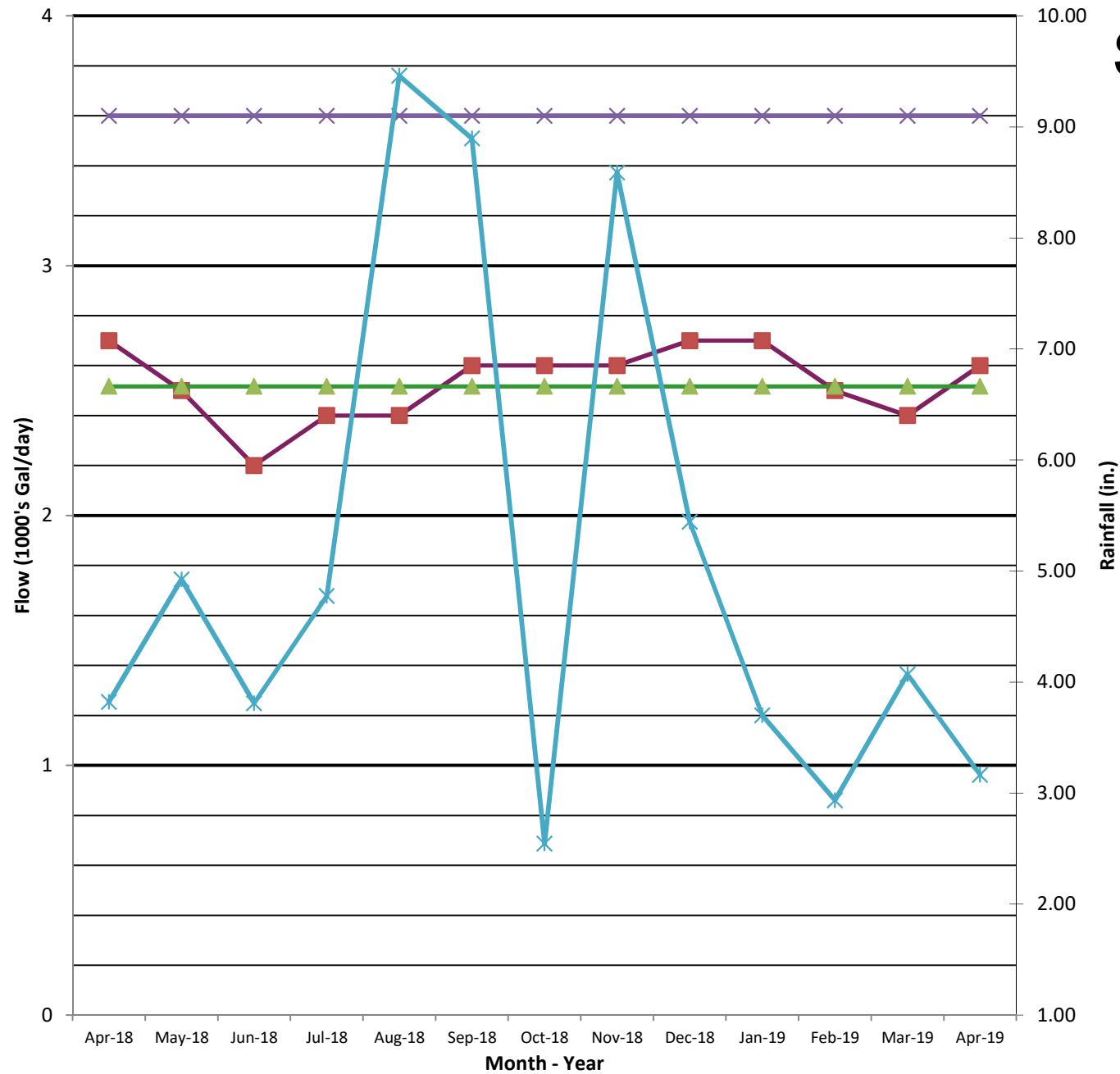
Route 100 2018 - 2019



Saybrooke 2018 - 2019



St. Andrews 2018 - 2019





To: Municipal Authority Members

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

Re: Authority Administrator's Report

Date: May 23, 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 Byers Road and Milford Farms.
- E. Communication with ARRO and Contractors regarding the Lakeridge Sludge Holding Tank Project.
- F. Communication with Township, Operator and Insurance carrier regarding the power outage at the Route 100 WWTF.
- G. Review of delinquent accounts and late fees for select customers.
- H. Communication with McKee regarding the PADEP planning document resubmission.
- I. Communication with Township and ARRO regarding new/alternate disposal facility acquisition.

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

Refunding Review & Market Update presented to Upper Uwchlan Township Municipal Authority, Chester County, PA



May 28, 2019

STRICTLY PRIVATE AND CONFIDENTIAL

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RBC Capital Markets

Table of Contents

1. Financing Review
2. Market Update

Financing Review

SECTION 1



RBC Capital Markets

Township's Existing Debt Profile

Upper Uwchlan Township - General Obligation Debt Service							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Period Ending	Series of 2014 (GO Bonds-Sewer)	Fulton Bank Loan Twp. Gen. Fund	2019 GO Bonds Sewer Portion	2019 GO Bonds Township Portion	(Columns 2 + 4) Total Sewer	(Columns 3 + 5) Total Twp.	(Columns 6 + 7) Combined Total
12/31/2019	369,213	55,458	190,681	314,850	559,894	370,309	930,203
12/31/2020	366,812	55,458	237,494	353,375	604,306	408,833	1,013,139
12/31/2021	368,013	55,458	236,744	354,500	604,757	409,958	1,014,715
12/31/2022	369,112		235,994	410,500	605,106	410,500	1,015,606
12/31/2023	364,863		235,244	410,000	600,107	410,000	1,010,107
12/31/2024	365,262		239,344	413,250	604,606	413,250	1,017,856
12/31/2025	365,240		238,294	411,200	603,534	411,200	1,014,734
12/31/2026	364,885		237,244	409,000	602,129	409,000	1,011,129
12/31/2027	369,188		235,844	409,200	605,032	409,200	1,014,232
12/31/2028	368,000		234,444	409,000	602,444	409,000	1,011,444
12/31/2029	368,800		233,044	413,400	601,844	413,400	1,015,244
12/31/2030	369,200		231,644	412,200	600,844	412,200	1,013,044
12/31/2031	369,200		235,244	410,600	604,444	410,600	1,015,044
12/31/2032	368,800		233,644	408,600	602,444	408,600	1,011,044
12/31/2033	368,000		237,044	411,200	605,044	411,200	1,016,244
12/31/2034	366,800		235,244	413,200	602,044	413,200	1,015,244
12/31/2035	365,200		238,444	409,600	603,644	409,600	1,013,244
12/31/2036	368,200		236,444	410,600	604,644	410,600	1,015,244
12/31/2037	365,600		234,444	411,000	600,044	411,000	1,011,044
12/31/2038	367,600		232,444	410,800	600,044	410,800	1,010,844
12/31/2039	364,000		240,444		604,444		604,444
12/31/2040			603,119		603,119		603,119
12/31/2041			601,650		601,650		601,650
12/31/2042			604,600		604,600		604,600
12/31/2043			601,200		601,200		601,200
12/31/2044			602,200		602,200		602,200
12/31/2045			602,400		602,400		602,400
12/31/2046			601,800		601,800		601,800
12/31/2047			600,400		600,400		600,400
12/31/2048			603,200		603,200		603,200
	7,711,988	166,375	10,329,975	8,006,075	18,041,963	8,172,451	26,214,414
Original Par Amount:	\$5,955,000	\$262,623	\$5,280,000	\$5,470,000			
Par Outstanding:	\$5,450,000	\$207,185	\$5,280,000	\$5,470,000			
Call Provision:	12/01/2019	N/A	06/01/2026	06/01/2026			
Maturity Date:	12/01/2039	2021	12/01/2048	12/01/2038			
Final Coupon:	4.000%	2.790%	4.000%	4.000%			
Purpose:	NM (Sewer)	Street Sweeper Lease Payments	NM - Sewer Projects	NM - Twp. Bldng. Projects			
Self-Liquidating:	Yes	No	Yes	No	Yes	No	Partially
Bank Qualified:	Yes	Yes	No	No			
Notes:							

NM=New Money; CR=Current Refunding; AR=Advance Refunding

Note: Yearly debt service amounts represent total debt service paid during the year.

Executive Summary

- 2014 General Obligation Bonds
 - Original Par Amount: \$5,955,000
 - Outstanding Par Amount: \$5,275,000
 - Outstanding Callable Par Amount: \$5,090,000
 - Call Date: 12/1/19
 - **Purpose: Purchase of sewer capacity and construction of sewer infrastructure**
 - **Self-Liquidating (sewer revenues)**
 - Bank-Qualified
 - Final Maturity: 12/1/39
 - Final Coupon: 4.00%; Average Coupon of Refunded Bonds of 3.8%
 - The Township is rated “Aa1” by Moody’s

- Refunding Review: Based on estimated current market conditions and assuming a bond pricing on or around 8/1/19, a bank-qualified current refunding of the callable 2014 Bonds would produce:
 - **Level Savings Structure - net present value savings of \$380,853, or 7.5% of refunded principal amount. Budgetary/Cash Flow savings would total approximately \$490,000 (9.6%), averaging approximately \$23,000 per year through 2039**
 - **Up-Front Savings Structure - net present value savings of \$374,635, or 7.4% of refunded principal amount. Budgetary/Cash Flow savings would total approximately \$384,000 (7.5%)**
 - 2019: \$48,000
 - 2020: \$195,000
 - 2021: \$126,000
 - 2022 through 2039: \$0

NOTE: Refunding review assumes substantially the same structure as the refunded obligation, and includes the effect on savings across a range of interest rates. Interest rates are based on estimated current market conditions and are subject to change. Information regarding bank qualification is subject to the opinion of bond counsel.

Comparison – Level vs. Up-Front Savings

LEVEL SAVINGS				
Cash Flow Savings				
FY Ending	Prior D/S	Refunding D/S	Savings	PV Savings
12/31/2019	88,406	65,056	23,350	23,190
12/31/2020	366,813	344,800	22,013	21,381
12/31/2021	368,013	344,250	23,763	22,456
12/31/2022	369,113	346,650	22,463	20,680
12/31/2023	364,863	343,650	21,213	19,029
12/31/2024	365,263	340,450	24,813	21,649
12/31/2025	365,240	342,050	23,190	19,714
12/31/2026	364,885	341,550	23,335	19,298
12/31/2027	369,188	344,800	24,388	19,617
12/31/2028	368,000	342,750	25,250	19,757
12/31/2029	368,800	345,550	23,250	17,702
12/31/2030	369,200	348,050	21,150	15,670
12/31/2031	369,200	345,250	23,950	17,230
12/31/2032	368,800	347,300	21,500	15,050
12/31/2033	368,000	344,050	23,950	16,283
12/31/2034	366,800	340,650	26,150	17,272
12/31/2035	365,200	342,100	23,100	14,840
12/31/2036	368,200	343,250	24,950	15,573
12/31/2037	365,600	344,100	21,500	13,049
12/31/2038	367,600	344,650	22,950	13,533
12/31/2039	364,000	339,900	24,100	13,808
Total	\$ 7,431,181	\$ 6,940,856	\$ 490,325	\$ 376,780

Savings Summary	
PV of savings from cash flow	\$ 376,780
Additional Proceeds	4,073
Net PV Savings	\$ 380,853

UPFRONT SAVINGS				
Cash Flow Savings				
FY Ending	Prior D/S	Refunding D/S	Savings	PV Savings
12/31/2019	88,406	39,919	48,488	48,153
12/31/2020	366,813	164,675	202,138	195,379
12/31/2021	368,013	234,525	133,488	125,516
12/31/2022	369,113	366,525	2,588	2,445
12/31/2023	364,863	363,125	1,738	1,648
12/31/2024	365,263	364,525	738	763
12/31/2025	365,240	365,525	(285)	(95)
12/31/2026	364,885	364,650	235	336
12/31/2027	369,188	372,450	(3,263)	(2,448)
12/31/2028	368,000	364,800	3,200	2,629
12/31/2029	368,800	372,150	(3,350)	(2,383)
12/31/2030	369,200	369,050	150	238
12/31/2031	369,200	370,800	(1,600)	(1,024)
12/31/2032	368,800	367,250	1,550	1,178
12/31/2033	368,000	368,550	(550)	(279)
12/31/2034	366,800	364,550	2,250	1,554
12/31/2035	365,200	365,400	(200)	(62)
12/31/2036	368,200	370,950	(2,750)	(1,653)
12/31/2037	365,600	366,050	(450)	(231)
12/31/2038	367,600	366,000	1,600	966
12/31/2039	364,000	365,650	(1,650)	(929)
Total	\$ 7,431,181	\$ 7,047,119	\$ 384,063	\$ 371,702

Savings Summary	
PV of savings from cash flow	\$ 371,702
Additional Proceeds	2,933
Net PV Savings	\$ 374,635

NOTE: Refunding review assumes substantially the same structure as the refunded obligation, and includes the effect on savings across a range of interest rates. Interest rates are based on estimated current market conditions and are subject to change. Information regarding bank qualification is subject to the opinion of bond counsel.

Financing Review – Bank-Qualified Current Refunding of Callable 2014 Bonds – Level Savings

Summary of Refunding Results

Pricing Date	08/01/2019
Settlement Date	09/01/2019
Call Date	12/01/2024
Par Amount of Refunded Bonds	\$ 5,090,000
Par Amount of Refunding Bonds	\$ 5,120,000
True Interest Cost (TIC)	2.87%
Present Value Savings (\$)	\$ 380,853
Present Value Savings (%)	7.48%

Sources and Uses of Funds

Sources:	
Par Amount	\$ 5,120,000
Original Issue Premium	117,354
Total Sources	\$ 5,237,354
Uses:	
Refunding Deposit	\$ 5,147,562
Estimated Costs of Issuance (including UW fee)	85,720
Additional Proceeds	4,073
Total Uses	\$ 5,237,354

Interest Rate Sensitivity Analysis

Present Value of 0.01% (1 bp) change	\$3,265
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Cash Flow Savings

FY Ending	Prior D/S	Refunding D/S	Savings	PV Savings
12/31/2019	88,406	65,056	23,350	23,190
12/31/2020	366,813	344,800	22,013	21,381
12/31/2021	368,013	344,250	23,763	22,456
12/31/2022	369,113	346,650	22,463	20,680
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12/31/2029	368,800	345,550	23,250	17,702
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Total	\$ 7,431,181	\$ 6,940,856	\$ 490,325	\$ 376,780

Savings Summary

PV of savings from cash flow	\$ 376,780
Additional Proceeds	4,073
Net PV Savings	\$ 380,853

NOTE: Refunding review assumes substantially the same structure as the refunded obligation, and includes the effect on savings across a range of interest rates. Interest rates are based on estimated current market conditions and are subject to change. Information regarding bank qualification is subject to the opinion of bond counsel.

Financing Review – Bank-Qualified Current Refunding of Callable 2014 Bonds – Up-Front Savings

Summary of Refunding Results	
Pricing Date	08/01/2019
Settlement Date	09/01/2019
Call Date	12/01/2024
Par Amount of Refunded Bonds	\$ 5,090,000
Par Amount of Refunding Bonds	\$ 5,120,000
True Interest Cost (TIC)	2.88%
Present Value Savings (\$)	\$ 374,635
Present Value Savings (%)	7.36%

Sources and Uses of Funds	
Sources:	
Par Amount	\$ 5,120,000
Original Issue Premium	116,087
Total Sources	\$ 5,236,087
Uses:	
Refunding Deposit	\$ 5,147,434
Estimated Costs of Issuance (including UW fee)	85,720
Additional Proceeds	2,933
Total Uses	\$ 5,236,087

Interest Rate Sensitivity Analysis	
Present Value of 0.01% (1 bp) change	\$3,432

Cash Flow Savings				
FY Ending	Prior D/S	Refunding D/S	Savings	PV Savings
12/31/2019	88,406	39,919	48,488	48,153
12/31/2020	366,813	164,675	202,138	195,379
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12/31/2025	365,240	365,525	(285)	(95)
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Total	\$ 7,431,181	\$ 7,047,119	\$ 384,063	\$ 371,702

Savings Summary	
PV of savings from cash flow	\$ 371,702
Additional Proceeds	2,933
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NOTE: Refunding review assumes substantially the same structure as the refunded obligation, and includes the effect on savings across a range of interest rates. Interest rates are based on estimated current market conditions and are subject to change. Information regarding bank qualification is subject to the opinion of bond counsel.

Estimated/Potential Financing Timeline

Date	Activity
5/20	-Township Board Meeting – RBCCM Presentation
5/28	-Authority Board Meeting - RBCCM Presentation
6/10 – Week of	-RBCCM begins preparation of Preliminary Official Statement (POS) and sends information request to Township and Authority for updates; Bond Counsel advertises in local newspaper Township's intention to consider adopting Bond Ordinance
6/17	-Township Board meeting – Presentation of Parameters Bond Purchase Proposal and adoption of Parameters Bond Ordinance. Bond Counsel advertises in local newspaper Township's adopted Bond Ordinance in days after meeting
6/24 – Week of	-Township and Authority provide updated information for POS; RBCCM circulates draft POS to working group; RBCCM submits to Moody's for rating
7/8 – Week of	-Rating preparation call with RBCCM/Township/Authority; rating call with Moody's
7/15 – Week of	-Receive rating report from Moody's
7/22 – Week of	-POS is published/printed and RBCCM begins marketing Bonds to investors
7/29 – Week of	-Price Bond issue (sell to investors and lock-in interest rates) -Distribute draft Official Statement (OS) -File debt proceedings with the Department of Community & Economic Development (DCED) including application to exclude the Bonds as self-liquidating from dedicated sewer revenues
8/5 – Week of	-Print and mail OS
8/26 – Week of	-Distribute closing documents; receive DCED approval
9/2 – Week of	-Bond Settlement/Closing

Market Update

SECTION 2



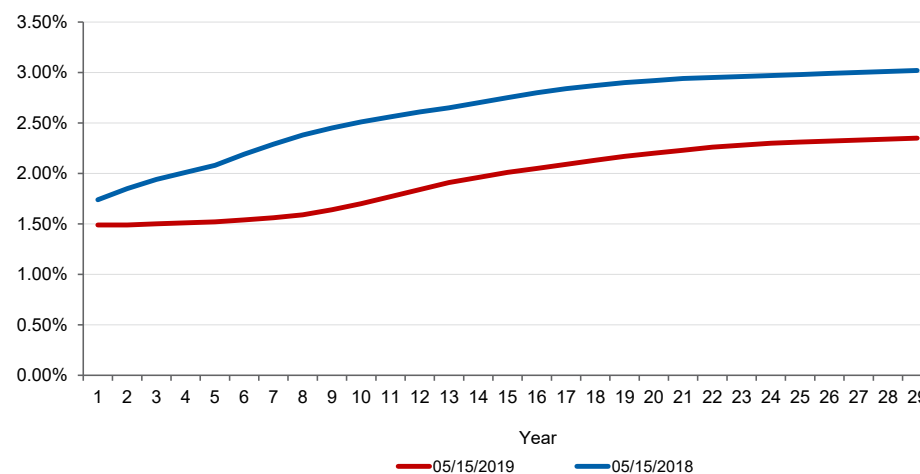
RBC Capital Markets

Long-Term Market

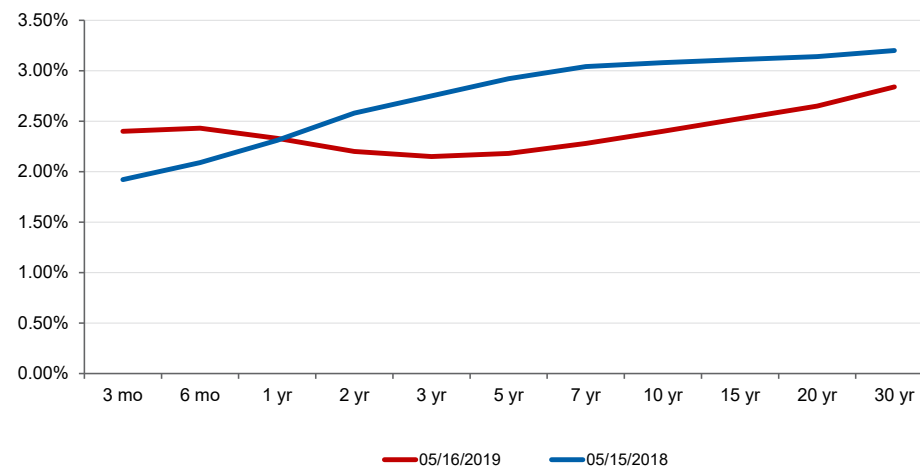
Market Overview

- With last week's economic calendar providing mixed signals on the condition of the economy, the US-China trade dispute drove the sentiment in the fixed income markets, moving yields broadly lower. Municipals generally outperformed Treasuries once again last week, particularly in the shorter maturity ranges. Last week's new issue calendar was somewhat heavier than in prior weeks, but the market easily absorbed the supply as heavy municipal bond mutual fund inflows continued unabated. By the end of the week, US Treasuries were nine basis points lower in the five year range, eight basis points lower in the ten year range and six basis points lower in the thirty year range. The Municipal Market Data AAA yield closed the week seven basis points lower in the two and five year ranges, and three basis points lower in both the ten year range and thirty year ranges. Municipal/Treasury yield ratios closed the week approximately one percentage point lower than the prior week's levels from the five to thirty year maturity ranges.

Municipal GO "AAA" MMD Yield Curve Changes



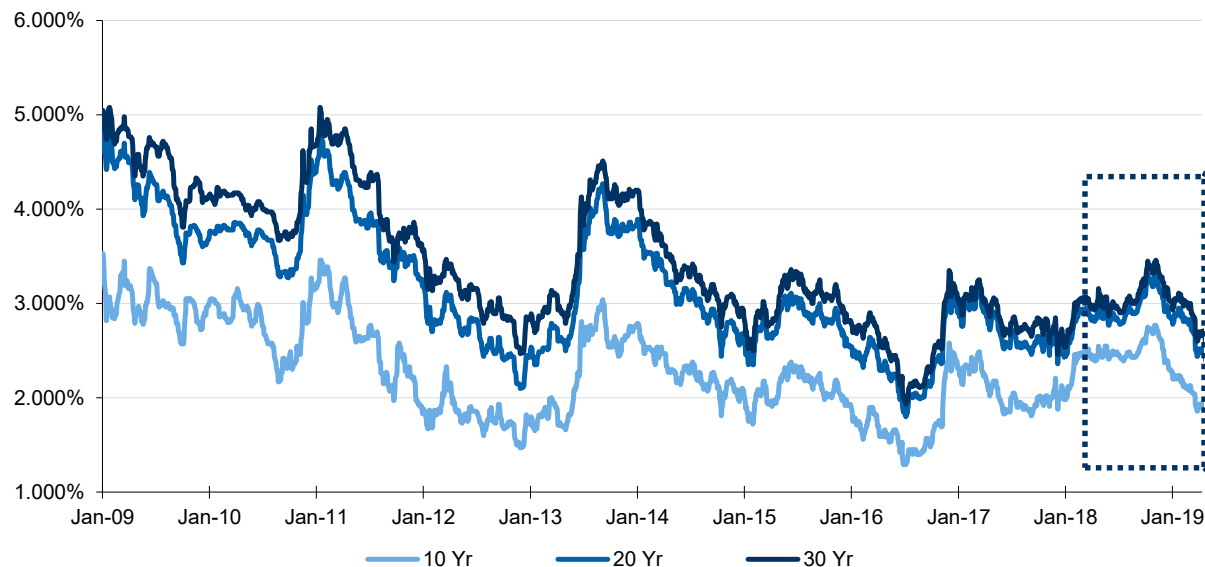
U.S. Treasury Yield Curve Changes



Current Municipal Market Conditions: “AAA” MMD

After closing at 2.43% the previous week, the 30-year “AAA” MMD decreased 3 bps from May 10 – May 17, closing at the current rate of 2.40%

“AAA” MMD January 1, 2009 to Present



Shift in “AAA” MMD Since May 2018



January 1, 2009 to Present

	10 Year	20 Year	30 Year
Maximum	3.530%	4.890%	5.080%
Minimum	1.290%	1.800%	1.930%
Current	1.720%	2.240%	2.400%

Shift in 30-year “AAA” MMD

2012	2013	2014	2015	2016	2017	2018
-0.740%	1.330%	-1.340%	-0.010%	0.270%	-0.510%	0.470%

May 1, 2018 to Present

	10 Year	20 Year	30 Year
Maximum	2.770%	3.310%	3.460%
Minimum	1.700%	2.200%	2.360%
Average	2.336%	2.861%	3.005%

Source: TM3, Thomson Reuters
10, 20, and 30 year “AAA” MMD shown to represent different average lives of municipal transactions
Rates as of May 17, 2019

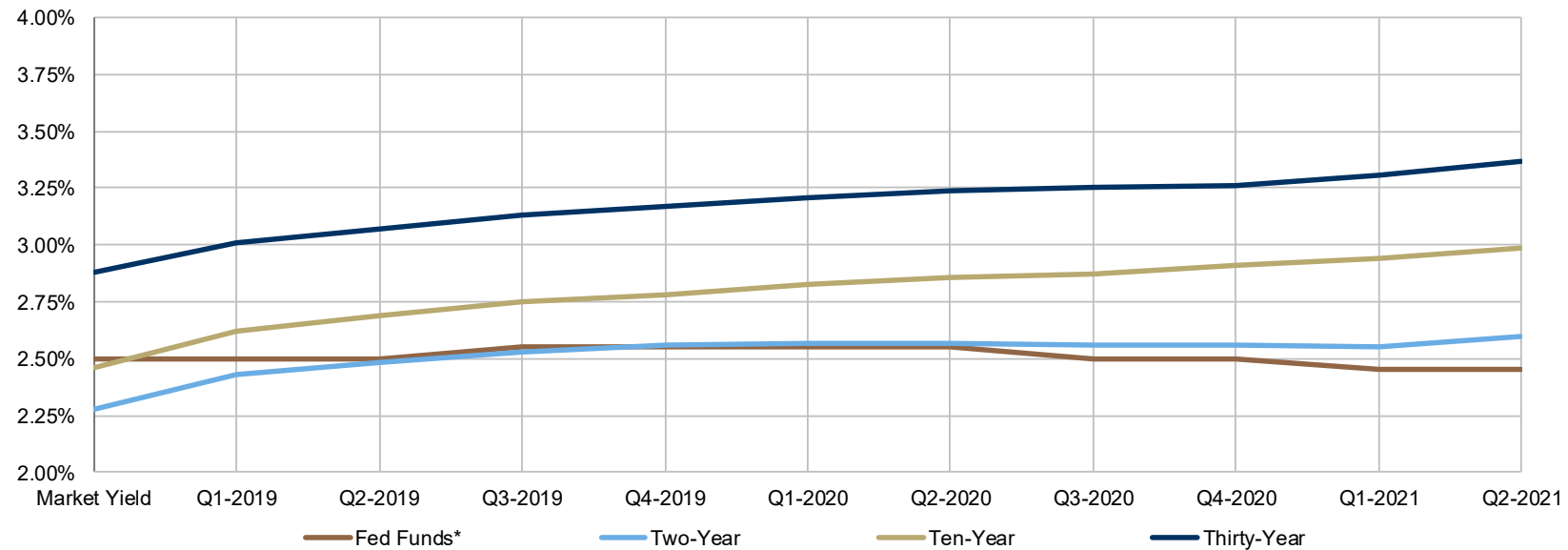
Interest Rate Forecast

Bloomberg Median Taxable Interest Rate Forecast ^[1] As of May 7, 2019

	Current	Forecast									
	Market Yield	Q1-2019	Q2-2019	Q3-2019	Q4-2019	Q1-2020	Q2-2020	Q3-2020	Q4-2020	Q1-2021	Q2-2021
Fed Funds*	2.50%	2.50%	2.50%	2.55%	2.55%	2.55%	2.55%	2.50%	2.50%	2.45%	2.45%
Two-Year	2.28%	2.43%	2.48%	2.53%	2.56%	2.57%	2.57%	2.56%	2.56%	2.55%	2.60%
Ten-Year	2.46%	2.62%	2.69%	2.75%	2.78%	2.83%	2.86%	2.87%	2.91%	2.94%	2.99%
Thirty-Year	2.88%	3.01%	3.07%	3.13%	3.17%	3.21%	3.24%	3.25%	3.26%	3.31%	3.37%

^[1] Consists of economic forecasts and projections from approximately 60 investment banking firms and financial institutions.

*For these purposes, indicates upper bound of Fed Funds range.



Recent Fed Funds Rate History													
	Lower Bound			Upper Bound				Lower Bound			Upper Bound		
July 2006 - Sept. 2007:	5.25%	- to -	5.25%		December 2017:	1.25%	- to -	1.50%					
December 2008:	0.00%	- to -	0.25%		March 2018:	1.50%	- to -	1.75%					
December 2015:	0.25%	- to -	0.50%		June 2018:	1.75%	- to -	2.00%					
December 2016:	0.50%	- to -	0.75%		September 2018:	2.00%	- to -	2.25%					
March 2017:	0.75%	- to -	1.00%		December 2018:	2.25%	- to -	2.50%					
June 2017:	1.00%	- to -	1.25%										

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**MAY 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. Installed new LED lighting fixtures to all buildings that required them from outage damage
 2. General cleaning of station and office
 3. The materials have arrived for the repairs of the water infiltration from groundwater in Building 2A. We will use water stop epoxy to repair the infiltration into the area.
 4. Painting continues
 5. New backflow preventer has been installed
- Byers Station Effluent PS
 1. General cleaning of station
 2. Replaced entrance gate
- 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
 2. Aqua accidentally left the water off to this plant while doing repairs. Issue was resolved and water is on again
- **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.
- **Greenridge**
 1. Fence has been replaced.
 2. Sign has been replaced
 3. Gate has been adjusted and secured.
- **Stonehedge**
 1. General cleaning of station
 2. Replaced check valve and piping to septic unit. The piping had rusted out due to its age. Our guys worked with PreDoc on this repair. Top soil and seeding still need to be done.

- **Marsh Harbour WWTP**
 - 1. General cleaning and trash removal
 - 2. The nonworking light fixture outside the plant was replaced with a new LED fixture.
- **Marsh Harbour PS**
 - 1. There are no work orders for this station
- **Meadowcreek**
 - 1. There are currently work orders for this facility.
 - 2. Regrading due to silt buildup will be done this month
 - 3. Area around this plant has been cleaned up and new inexpensive landscaping will follow.
 - 4. New supports for the electrical boxes are needed and will be done soon.
 - 5. Fence privacy slats are being installed
 - 6. The pipe through the berm will be replaced
- **Eaglepointe**
 - 1. Trash collection and cleaning
 - 2. Brian Norris is replacing the blower motors
 - 3. Working on noise reduction from the motors at this plant.
 - 4. Silencers are being installed now.
- **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 92 PA 1-Call tickets during the month of March.**

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