



AGENDA

February 26, 2019

7:30 p.m.

[Packet Page #](#)

- I. Call to Order
- II. Approval of Minutes: January 15, 2019
- III. Approval of Payments: February 2019 2
- IV. Authority Administration Reports
 - A. Clean Water, Inc. Monthly Report 14
 - B. ARRO Consulting Monthly Report 16
 - C. Authority Administrator's Report 41
 - 1. Consideration of Bids – Effluent Storage Tank Repairs 42
 - 2. Septage Management Ordinance - Update 44
 - D. Public Works Department Report 63
- V. Open Session
- VI. Next Meeting Date: March 26, 2019 ~ 7:30 p.m.
- VII. Adjournment

Range of checking Accts: MA MERIDIAN to MA MERIDIAN Range of check Ids: 1773 to 1805
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
1773	01/31/19	MAPLEDIR MAPLE DIRECT INC	1,317.12		1935
1774	02/26/19	ALSGROUP ALS GROUP USA, CORP	1,409.80		1950
1775	02/26/19	AQUAP010 AQUA PA	901.67		1950
1776	02/26/19	AQUAPA AQUA PA	75.00		1950
1777	02/26/19	ARROC010 ARRO CONSULTING, INC.	44,927.89		1950
1778	02/26/19	BLOOMGLE BLOOMING GLEN CONTRACTORS	11,934.00		1950
1779	02/26/19	BUCKL010 BUCKLEY, BRION, MCGUIRE, MORR!	2,234.19		1950
1780	02/26/19	CHRISFRA FRANTZ, CHRISTOPHER	168.00		1950
1781	02/26/19	CLEANWAT CLEAN WATER, INC.	6,355.00		1950
1782	02/26/19	DECKM010 DECKMAN ELECTRIC, INC.	4,576.00		1950
1783	02/26/19	DELCH010 DELCHESTER PUBLIC WORKS ASSOC!	10.00		1950
1784	02/26/19	DYNAT010 DYNA TECH INDUSTRIES LTD	1,206.00		1950
1785	02/26/19	EAGLHARD EAGLE HARDWARE	340.57		1950
1786	02/26/19	EDMUN010 EDMUNDS &ASSOCIATES, INC.	1,263.41		1950
1787	02/26/19	HOPKINS HOPKINS &SCOTT, INC	19,500.00		1950
1788	02/26/19	INKS0010 INK'S DISPOSAL SERVICE, INC.	690.00		1950
1789	02/26/19	LUDWIO60 LUDWIG'S CORNER SUPPLY CO.	274.97		1950
1790	02/26/19	MCGOV020 MCGOVERN ENVIRONMENTAL, LLC	7,244.13		1950
1791	02/26/19	MCI00001 MCI COMM SERVICE	1.37		1950
1792	02/26/19	MJREIDER M. J. REIDER ASSOCIATES, INC.	1,263.50		1950
1793	02/26/19	MULLS010 MULL'S ELECTRIC, INC.	3,362.20		1950
1794	02/26/19	PEC00010 PECO	18,694.05		1950
1795	02/26/19	PENNS080 PENNSYLVANIA ONE CALL	93.32		1950
1796	02/26/19	PIKEL020 PIKELAND CONSTRUCTION	19,904.00		1950
1797	02/26/19	PIPEL020 PIPE LINE PLASTICS, INC	245.89		1950
1798	02/26/19	PRED0010 PREDOC	279.68		1950
1799	02/26/19	RCDAVIS R.C. DAVIS CO. INC.	1,079.19		1950
1800	02/26/19	UPPER070 UPPER UWCHLAN TOWNSHIP	58,822.11		1950
1801	02/26/19	UPPERESC UPPER UWCHLAN TOWNSHIP ESCROW	515.00		1950
1802	02/26/19	VERIZ010 VERIZON	1,082.61		1950
1803	02/26/19	VERIZFIO VERIZON	132.40		1950
1804	02/26/19	VILLAO10 VILLAGE MEDICAL CENTER	155.00		1950
1805	02/26/19	WGMALDEN W. G. MALDEN	1,588.20		1950

Report Totals	<u>Paid</u>	<u>void</u>	<u>Amount Paid</u>	<u>Amount void</u>
checks:	33	0	211,646.27	0.00
Direct Deposit:	0	0	0.00	0.00
Total: ==33	0	0	211,646.27	0.00

Batch Id: LHAINES Batch Type: C Batch Date: 02/26/19 checking Account: MAMERIDIAN G/L credit: Expenditure G/L credit
Generate Direct Deposit: N

Check No. PO#	check Date Enc Date	vendor# Item Description	Name	Payment Amt	Street 1 of Address to be printed on check charge Account Description	Account Type	Status	seq	Acct
02/26/19 ALSGROUP ALS GROUP USA, CORP					P.O. BOX 975444				
19-00241	02/26/19	1	saybrooke	331.90	06-420-000-030 Testing	Expenditure	Aprv	18	1
19-00241	02/26/19	2	lake ridge	606.00	06-420-000-030 Testing	Expenditure	Aprv	19	1
19-00241	02/26/19	3	greenridge	471.90	06-420-000-030 Testing	Expenditure	Aprv	20	1
				1,409.80					
02/26/19 AQUAP010 AQUA PA					PO BOX 70279				
19-00240	02/26/19	1	528 walter court	21.20	06-409-000-037 Water	Expenditure	Aprv	3	1
19-00240	02/26/19	2	111 dorothy lane	17.20	06-409-000-037 water	Expenditure	Aprv	4	1
19-00240	02/26/19	3	381 lcr	17.20	06-409-000-037 Water	Expenditure	Aprv	5	1
19-00240	02/26/19	4	1120 sunderland ave	21.12	06-409-000-037 Water	Expenditure	Aprv	6	1
19-00240	02/26/19	5	2680 primrose court	22.20	06-409-000-037 water	Expenditure	Aprv	7	1
19-00240	02/26/19	6	325 fellowship road	551.07	06-409-000-037 water	Expenditure	Aprv	8	1
19-00240	02/26/19	7	658 collingwood terrace	55.20	06-409-000-037 water	Expenditure	Aprv	9	1
19-00240	02/26/19	8	119 prescott drive	17.20	06-409-000-037 water	Expenditure	Aprv	10	1
19-00240	02/26/19	9	100 milford road	17.20	06-409-000-037 water	Expenditure	Aprv	11	1
19-00240	02/26/19	10	meadow creek lane	17.20	06-409-000-037 water	Expenditure	Aprv	12	1
19-00240	02/26/19	11	prospect hill blvd	55.20	06-409-000-037 water	Expenditure	Aprv	13	1
19-00240	02/26/19	12	100 prescott drive	22.20	06-409-000-037 water	Expenditure	Aprv	14	1
19-00240	02/26/19	13	308 flagstone road	22.20	06-409-000-037 water	Expenditure	Aprv	15	1
19-00240	02/26/19	14	29 yarmouth lane	23.08	06-409-000-037 water	Expenditure	Aprv	16	1
19-00240	02/26/19	15	241 fellowship road	22.20	06-409-000-037 water	Expenditure	Aprv	17	1
				901.67					
02/26/19 AQUAPA AQUA PA					ATTN: PA GENERAL ACCOUNTING				
19-00243	02/26/19	1	2018 q4 meter readings	75.00	06-406-000-100 Utility Billing Costs	Expenditure	Aprv	31	1
				75.00					
02/26/19 ARROC010 ARRO CONSULTING, INC.					108 WEST AIRPORT ROAD				
19-00242	02/26/19	1	project 9310.32 WWS admin	12,225.50	06-400-000-002	Expenditure	Aprv	21	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
19-00242	02/26/19	2 project 10270.48 byers road	532.75	Authority Administrator 06-408-000-000 Engineering Fees	Expenditure	Aprv	22	1
19-00242	02/26/19	3 project 10270.46 marsh harbor	285.00	06-408-000-000 Engineering Fees	Expenditure	Aprv	23	1
19-00242	02/26/19	4 project 10270.53 lakeridge	2,673.28	06-408-000-000 Engineering Fees	Expenditure	Aprv	24	1
19-00242	02/26/19	5 project 10270.56 route 100 map	1,824.00	06-408-000-000 Engineering Fees	Expenditure	Aprv	25	1
19-00242	02/26/19	6 project 10270.61 act 537 plan	932.50	06-408-000-000 Engineering Fees	Expenditure	Aprv	26	1
19-00242	02/26/19	7 project 10270.64 milford farms	17,871.36	06-408-000-000 Engineering Fees	Expenditure	Aprv	27	1
19-00242	02/26/19	8 project 10270.41 reserve	664.67	06-408-000-000 Engineering Fees	Expenditure	Aprv	28	1
19-00242	02/26/19	9 project 10270.57 storage tanks	6,834.83	06-408-000-000 Engineering Fees	Expenditure	Aprv	29	1
19-00242	02/26/19	10 project 17000.00 consulting	1,084.00	06-408-000-000 Engineering Fees	Expenditure	Aprv	30	1
			44,927.89					
19-00268	02/26/19	BLOOMGLE BLOOMING GLEN CONTRACTORS 1 lakeridge tank replacements	11,934.00	901 MINS! TRAIL 06-483-000-000 capital Repair	Expenditure	Aprv	97	1
			11,934.00					
19-00244	02/26/19	BUCKL010 BUCKLEY, BRION, MCGUIRE, MORR! 1 sewer collections - january	1,117.99	118 W. MARKET STREET 06-404-000-000 Legal Fees	Expenditure	Aprv	32	1
19-00244	02/26/19	2 sewer collections - february	1,116.20	06-404-000-000 Legal Fees	Expenditure	Aprv	33	1
			2,234.19					
19-00246	02/26/19	CHRISFRA FRANTZ, CHRISTOPHER 1 ma - legal fees	168.00	PO BOX 557 06-404-000-000 Legal Fees	Expenditure	Aprv	35	1
			168.00					
19-00245	02/26/19	CLEANWAT CLEAN WATER, INC. 1 IWltp monthly operations	6,355.00	170 DALLAS STREET 06-420-000-045 contracted services	Expenditure	Aprv	34	1
			6,355.00					
19-00249	02/26/19	DECKM010 DECKMAN ELECTRIC, INC. 1 new - goulds sewage pump	1,656.00	49 W. FRONT STREET 06-420-000-025 Maintenance &Repair	Expenditure	Aprv	38	1
19-00249	02/26/19	2 new - marathon motor	335.00	06-420-000-025 Maintenance &Repair	Expenditure	Aprv	39	1
19-00249	02/26/19	3 bake stator &bearings	1,720.00	06-420-000-025 Maintenance &Repair	Expenditure	Aprv	40	1
19-00249	02/26/19	4 bake stator, switch &motor	865.00	06-420-000-025 Maintenance &Repair	Expenditure	Aprv	41	1

check No. PO#	check Date Enc Date	vendor# Item Description	Name	Payment Amt	street 1 of Address to be printed on check charge Account Description	Account Type	Status	seq	Acct
				4,576.00					
19-00247	02/26/19	1	2019 membership dues - owens	10.00	ATIN: ARTHUR ROTHE P. E. 06-420-000-042 Dues and Memberships	Expenditure	Aprv	36	1
				10.00					
19-00248	02/26/19	1	route 100 plant	1,206.00	120 N 25TH STREET 06-420-000-025 Maintenance &Repair	Expenditure	Aprv	37	1
				1,206.00					
19-00251	02/26/19	1	ma - power cord	31.47	06-420-000-020 supplies	Expenditure	Aprv	43	1
19-00251	02/26/19	2	ma - ball valve, union, nipple	62.97	06-420-000-020 supplies	Expenditure	Aprv	44	1
19-00251	02/26/19	3	ma - bulb, control, cord	58.35	06-420-000-020 supplies	Expenditure	Aprv	45	1
19-00251	02/26/19	4	ma - heaters, facuet extension	155.96	06-420-000-020 supplies	Expenditure	Aprv	46	1
19-00251	02/26/19	5	ma - hardware	4.84	06-420-000-020 supplies	Expenditure	Aprv	47	1
19-00251	02/26/19	6	ma - valves	26.98	06-420-000-020 supplies	Expenditure	Aprv	48	1
				340.57					
19-00250	02/26/19	1	2018 q4 sewer bill prep	1,263.41	301 A TILTON ROAD 06-406-000-100 Utility Billing Costs	Expenditure	Aprv	42	1
				1,263.41					
19-00252	02/26/19	1	route surveys in twp	19,500.00	207 FRANKLIN AVENUE 06-420-000-045 contracted services	Expenditure	Aprv	49	1
				19,500.00					
19-00253	02/26/19	1st.	andrews/lakeridge/prospect	690.00	564 NORTH MANOR ROAD 06-420-000-025 Maintenance &Repair	Expenditure	Aprv	50	1
				690.00					
19-00254	02/26/19	1	ma - fitting, batteries	30.56	1230 POTTSTOWN PIKE 06-420-000-020 supplies	Expenditure	Aprv	51	1
19-00254	02/26/19	2	ma - spray paint, rope, pulley	229.42	06-420-000-020 supplies	Expenditure	Aprv	52	1
19-00254	02/26/19	3	ma - toilet fill kit	14.99	06-420-000-020 supplies	Expenditure	Aprv	53	1
				274.97					
	02/26/19		MCGOV020 MCGOVERN ENVIRONMENTAL, LLC		920 SOUTH BOLMAR STREET				

Check NO. PO#	Check Date Enc Date	Vendor# Item Description	Name	Payment Amt	Street 1 of Address to be printed on check charge Account Description	Account Type	Status	seq	Acct
19-00255	02/26/19	1	eaglepointe	219.94	06-420-000-031 Pump &Haul	Expenditure	Aprv	54	1
19-00255	02/26/19	2	route 100	77.63	06-420-000-031 Pump &Haul	Expenditure	Aprv	55	1
19-00255	02/26/19	3	route 100	77.63	06-420-000-031 Pump &Haul	Expenditure	Aprv	56	1
19-00255	02/26/19	4	eaglepointe	404.69	06-420-000-031 Pump &Haul	Expenditure	Aprv	57	1
19-00255	02/26/19	5	route 100	77.63	06-420-000-031 Pump &Haul	Expenditure	Aprv	58	1
19-00255	02/26/19	6	eaglepointe	404.69	06-420-000-031 Pump &Haul	Expenditure	Aprv	59	1
19-00255	02/26/19	7	route 100	77.63	06-420-000-031 Pump &Haul	Expenditure	Aprv	60	1
19-00255	02/26/19	8	eaglepointe	404.69	06-420-000-031 Pump &Haul	Expenditure	Aprv	61	1
19-00255	02/26/19	9	marsh harbor	320.85	06-420-000-031 Pump &Haul	Expenditure	Aprv	62	1
19-00255	02/26/19	10	route 100	77.63	06-420-000-031 Pump &Haul	Expenditure	Aprv	63	1
19-00255	02/26/19	11	eaglepointe	404.69	06-420-000-031 Pump &Haul	Expenditure	Aprv	64	1
19-00255	02/26/19	12	route 100	1,580.29	06-420-000-031 Pump &Haul	Expenditure	Aprv	65	1
19-00255	02/26/19	13	route 100	2,633.82	06-420-000-031 Pump &Haul	Expenditure	Aprv	66	1
19-00255	02/26/19	14	eaglepointe	404.69	06-420-000-031 Pump &Haul	Expenditure	Aprv	67	1
19-00255	02/26/19	15	route 100	77.63	06-420-000-031 Pump &Haul	Expenditure	Aprv	68	1
				7,244.13					
02/26/19 MCI00001 MCI COMM SERVICE					PO BOX 15043				
19-00257	02/26/19	1	telephone	1.37	06-409-000-032 Telephone	Expenditure	Aprv	81	1
				1.37					
02/26/19 MJREIDER M. J. REIDER ASSOCIATES, INC.					107 ANGELICA STREET				
19-00256	02/26/19	1st.	andrews brae	77.00	06-420-000-030 Testing	Expenditure	Aprv	69	1
19-00256	02/26/19	2	reserve,eagle hunt,ewing,byers	56.00	06-420-000-030 Testing	Expenditure	Aprv	70	1
19-00256	02/26/19	3	rt 100 wwtp	108.50	06-420-000-030 Testing	Expenditure	Aprv	71	1
19-00256	02/26/19	4	marsh harbor	122.50	06-420-000-030 Testing	Expenditure	Aprv	72	1
19-00256	02/26/19	5	greenridge	108.50	06-420-000-030 Testing	Expenditure	Aprv	73	1
19-00256	02/26/19	6	saybrooke	42.00	06-420-000-030 Testing	Expenditure	Aprv	74	1
19-00256	02/26/19	7	lakeridge	122.50	06-420-000-030 Testing	Expenditure	Aprv	75	1

check No. PO#	check Date Enc Date	Vendor# Item Description	Name	Payment Amt	street 1 of Address to be printed on check charge Account Description	Account Type	Status	Seq	Acct
19-00256	02/26/19	8	eaglepointe	150.50	06-420-000-030 Testing	Expenditure	Aprv	76	1
19-00256	02/26/19	9	st. andrews brae	150.50	06-420-000-030 Testing	Expenditure	Aprv	77	1
19-00256	02/26/19	10	saybrooke	108.50	06-420-000-030 Testing	Expenditure	Aprv	78	1
19-00256	02/26/19	11	st. andrews brae	108.50	06-420-000-030 Testing	Expenditure	Aprv	79	1
19-00256	02/26/19	12	saybrooke	108.50	06-420-000-030 Testing	Expenditure	Aprv	80	1
				1,263.50					
02/26/19 MULLS010 MULL'S ELECTRIC, INC.					357 MAIN STREET				
19-00258	02/26/19	1st.	andrews wwtp - repair	629.50	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	82	1
19-00258	02/26/19	2	rt 100 wwtp - water damage	2,732.70	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	83	1
				3,362.20					
02/26/19 PEC00010 PECO					PO BOX 37629				
19-00269	02/26/19	1	304 fellowship road	313.11	06-409-000-036 Electric	Expenditure	Aprv	98	1
19-00269	02/26/19	2	2500 eagle farms road	587.30	06-409-000-036 Electric	Expenditure	Aprv	99	1
19-00269	02/26/19	3	seabury lane	12.72	06-409-000-036 Electric	Expenditure	Aprv	100	1
19-00269	02/26/19	4	primrose court	670.87	06-409-000-036 Electric	Expenditure	Aprv	101	1
19-00269	02/26/19	5	100 prescott drive	658.61	06-409-000-036 Electric	Expenditure	Aprv	102	1
19-00269	02/26/19	6	meadow creek lane	9.83	06-409-000-036 Electric	Expenditure	Aprv	103	1
19-00269	02/26/19	7	301 pottstown pike	1,963.57	06-409-000-036 Electric	Expenditure	Aprv	104	1
19-00269	02/26/19	8	kristines/milford	234.84	06-409-000-036 Electric	Expenditure	Aprv	105	1
19-00269	02/26/19	9	711 doriane road	553.80	06-409-000-036 Electric	Expenditure	Aprv	106	1
19-00269	02/26/19	10	111 dorothy lane	70.69	06-409-000-036 Electric	Expenditure	Aprv	107	1
19-00269	02/26/19	11	dorlan drive	1,372.01	06-409-000-036 Electric	Expenditure	Aprv	108	1
19-00269	02/26/19	12	381 lcr	284.52	06-409-000-036 Electric	Expenditure	Aprv	109	1
19-00269	02/26/19	13	milford road	7.44	06-409-000-036 Electric	Expenditure	Aprv	110	1
19-00269	02/26/19	14	st. andrews road	35.62	06-409-000-036 Electric	Expenditure	Aprv	111	1
19-00269	02/26/19	15	park road	1,160.65	06-409-000-036 Electric	Expenditure	Aprv	112	1
19-00269	02/26/19	16	55 pottstown pike	409.26	06-409-000-036 Electric	Expenditure	Aprv	113	1

check No. PO#	check Date Enc Date	vendor# Item Description	Name	Payment Amt	Street 1 of Address to be printed on check charge Account Description	Account Type	Status	seq	Acct
19-00269	02/26/19	17	yarmouth lane	593.41	06-409-000-036 Electric	Expenditure	Aprv	114	1
19-00269	02/26/19	18	sunderlane avenue	170.44	06-409-000-036 Electric	Expenditure	Aprv	115	1
19-00269	02/26/19	19	kiloran wynd	191.89	06-409-000-036 Electric	Expenditure	Aprv	116	1
19-00269	02/26/19	20	flagstone road	832.28	06-409-000-036 Electric	Expenditure	Aprv	117	1
19-00269	02/26/19	21	yarmouth lane	22.86	06-409-000-036 Electric	Expenditure	Aprv	118	1
19-00269	02/26/19	22	140 pottstown pike	381.40	06-409-000-036 Electric	Expenditure	Aprv	119	1
19-00269	02/26/19	23	275 fellowship road	6,513.62	06-409-000-036 Electric	Expenditure	Aprv	120	1
19-00269	02/26/19	24	heron hill drive	93.47	06-409-000-036 Electric	Expenditure	Aprv	121	1
19-00269	02/26/19	25	indian springs drive	183.90	06-409-000-036 Electric	Expenditure	Aprv	122	1
19-00269	02/26/19	26	yarmouth lane	79.62	06-409-000-036 Electric	Expenditure	Aprv	123	1
19-00269	02/26/19	27	cassandra lane	489.42	06-409-000-036 Electric	Expenditure	Aprv	124	1
19-00269	02/26/19	28	fellowship road	796.90	06-409-000-036 Electric	Expenditure	Aprv	125	1
				18,694.05					
02/26/19 PENNS080 PENNSYLVANIA ONE CALL					P.O. BOX 640407				
19-00260	02/26/19	1	PA one call - monthly activity	93.32	06-420-000-329 PA one call	Expenditure	Aprv	87	1
				93.32					
02/26/19 PIKEL020 PIKELAND CONSTRUCTION					PO BOX 687				
19-00261	02/26/19	1	marsh harbor building repairs	16,840.00	06-420-000-045 contracted services	Expenditure	Aprv	88	1
19-00261	02/26/19	2	marsh harbor building repairs	3,064.00	06-420-000-045 contracted services	Expenditure	Aprv	89	1
				19,904.00					
02/26/19 PIPEL020 PIPE LINE PLASTICS, INC					901 CAMARO RUN DRIVE				
19-00259	02/26/19	1	rt 100 supplies	193.95	06-420-000-020 supplies	Expenditure	Aprv	84	1
19-00259	02/26/19	2	rt 100 supplies	8.17	06-420-000-020 supplies	Expenditure	Aprv	85	1
19-00259	02/26/19	3	rt 100 supplies	43.77	06-420-000-020 supplies	Expenditure	Aprv	86	1
				245.89					
02/26/19 PRED0010 PREDOC					14 CHRISEVYN LANE				
19-00262	02/26/19	1	windsor ridge ps repairs	279.68	06-420-000-025 Maintenance & Repair	Expenditure	Aprv	90	1
				279.68					

February 22, 2019
01:52 PM

upper Uwchlan Township
check Payment Batch verification Listing

Page No: 7

check No. PO#	check Date Enc Date	vendor# Item Description	Name	Payment Amt	street 1 of Address to be printed on check charge Account Description	Account Type	status	seq	Acct
02/26/19 RCDAVIS R.C. DAVIS CO, INC.									
19-00263	02/26/19	1	ma - bond material	1,079.19	80 SMITH STREET 06-420-000-030 Testing	Expenditure	Aprv	91	1
				<u>1,079.19</u>					
02/26/19 UPPER070 UPPER UWCHLAN TOWNSHIP									
19-00239	02/26/19	1	admin fees q4 2018	58,822.11	140 POTTSTOWN PIKE 06-400-000-001 Administration	Expenditure	Aprv	2	1
				<u>58,822.11</u>					
02/26/19 UPPERESC UPPER UWCHLAN TOWNSHIP ESCROW									
19-00238	02/26/19	1	ma to escrow	515.00	140 POTTSTOWN PIKE 06-495-000-000 Expense Reclass	Expenditure	Aprv	1	1
				<u>515.00</u>					
02/26/19 VERIZ010 VERIZON									
19-00264	02/26/19	1	february telephone	1,082.61	PO BOX 28000 06-409-000-032 Telephone	Expenditure	Aprv	92	1
				<u>1,082.61</u>					
02/26/19 VERIZFIO VERIZON									
19-00266	02/26/19	1	internet	132.40	PO BOX 15124 06-409-000-032 Telephone	Expenditure	Aprv	94	1
				<u>132.40</u>					
02/26/19 VILLA010 VILLAGE MEDICAL CENTER									
19-00265	02/26/19	1	owens, physical/vaccine	155.00	625 N POTTSTOWN PIKE 06-420-000-045 contracted Services	Expenditure	Aprv	93	1
				<u>155.00</u>					
02/26/19 WGMALDEN W. G. MALDEN									
19-00267	02/26/19	1	service repair	335.95	P.O. BOX 196 06-420-000-025 Maintenance &Repair	Expenditure	Aprv	95	1
19-00267	02/26/19	2	service repair &lifier	1,252.25	06-420-000-025 Maintenance &Repair	Expenditure	Aprv	96	1
				<u>1,588.20</u>					
<hr/>									
checks:	<u>count</u>	<u>Line Items</u>	<u>Amount</u>						
	32	125	210,329.15						

There are NO errors or warnings in this listing.

Upper Uwchlan Township Municipal Authority

Balance Sheet

As of January 31, 2019

ASSETS

<u>Cash</u>		
06-100-000-010	General Checking - Fulton Bank	\$ 45,212.27
06-100-000-015	General Checking - Meridian Bank	321,172.21
06-100-000-020	General Checking - WIPP	446,229.95
06-106-000-002	Tap-in Fee Account	315,516.47
06-110-000-100	Fulton Bank Bond Proceeds - ICS	64.18
06-110-000-200	Fulton Bank Bond Proceeds - MMDA	5,211,499.13
	Total Cash	6,339,694.21
<u>PSDLAF Investments:</u>		
06-109-000-003	CD Program	-
06-109-000-004	Full Flex	180.08
		180.08
	Total Investments	180.08
<u>Accounts Receivable</u>		
06-145-000-001	Usage Fees Receivable	275,243.20
06-145-000-002	Capital Assessment Receivable	-
06-147-000-000	Misc Accounts Receivable	546.00
	Total Accounts Receivable	275,789.20
<u>Other Current Assets</u>		
06-130-000-001	Due from MA Capital Fund	-
06-130-000-002	Due from UUT General Fund	208.16
06-130-000-003	Due from UUT Capital Fund	-
06-130-000-004	Due from Solid Waste Fund	1,277.63
06-130-000-005	Due from Stormwater Fund	-
06-130-000-006	Due from Sewer Fund	234,000.00
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	235,485.79
<u>Fixed Assets</u>		
06-162-000-001	Fixed Assets	1,360,193.65
06-162-000-050	Accumulated Depreciation	(315,301.16)
06-163-000-100	Phase I Construction Project (CIP)	
	Total Fixed Assets	1,044,892.49
<u>Other Long Term Assets</u>		
06-162-000-002	Excess Treatment Capacity	1,649,293.24
	Total Other Long Term Assets	1,649,293.24
Total Assets		\$ 9,545,335.01

Upper Uwchlan Township Municipal Authority

Balance Sheet

As of January 31, 2019

LIABILITIES AND FUND BALANCE

Current Liabilities

06-200-000-020	Accounts Payable	-
06-230-000-010	Due to UUT General Fund	80,942.61
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	19,738.22
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	515.00
06-240-000-000	Accrued Expenses	44,927.89
06-241-000-100	Retainage on Phase II Construction Project	-
06-245-000-000	Due to Customers	275.00
	Total Current Liabilities	146,398.72

Equity

06-272-000-001	Opening Bal Equity	753,500.35
06-272-000-002	Retained Earnings	3,509,739.33
	Current Period Net Income (Loss)	5,135,696.61
	Total Equity	9,398,936.29

Total Fund Balance	9,398,936.29
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Total Liabilities & Fund Balance	\$ 9,545,335.01
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Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended January 31, 2019

	Actual 2019YTD	Budget 2019	% of Budget	Actual 2018 (unaudited)	Budget 2018
REVENUES					
06-340-000-000 Interest Income	7,935.73	15,000.00	52.9%	17,267.16	7,300.00
06-365-000-000 Usage Fees Residential	36,108.55	2,139,571.00	1.7%	2,134,169.13	2,027,640.00
06-365-000-001 Usage Fees Commercial	-	100,000.00	0.0%	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 Term Debt	5,205,556.07	5,393,221.00	96.5%	-	-
06-395-000-000 Refund of Prior Year Expenditures	-	-	IIDIV/01	1,200.00	-
06-395-000-100 Transfer from Sewer Fund	-	-	IIDIV/01	-	-
TOTAL REVENUES	\$ 5,249,600.35	\$ 10,191,792.00	51.5%	\$ 2,275,141.44	\$ 4,313,304.00
EXPENDITURES					
06-400-000-001 Administration	22,120.50	241,246.00	9.2%	211,283.23	234,219.00
06-400-000-002 Authority Administrator	12,225.50	120,000.00	10.2%	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	-	5,545.00	0.0%	4,660.52	2,337.00
06-400-000-355 Bank Fees	2.00	650.00	0.3%	205.44	650.00
06-402-000-450 Audit Fees	-	5,450.00	0.0%	5,300.00	5,200.00
06-404-000-000 Legal Fees	105.00	20,800.00	0.5%	15,747.84	20,800.00
06-406-000-100 Utility Billing Costs	1,317.12	10,000.00	0.0%	8,078.94	18,000.00
06-408-000-000 Engineering Fees	32,702.39	150,000.00	21.8%	127,631.98	150,000.00
06-408-000-100 Reimbursable Engineering Fees	-	-	IIDIV/01	-	-
	68,472.51	571,691.00	12.0%	505,436.35	565,206.00
05-409-000-031 Lawn Care	-	5,000.00	0.0%	1,194.24	7,500.00
06-409-000-032 Telephone	1,039.52	15,000.00	6.9%	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
05-409-000-036 Electric	25,465.56	250,000.00	10.2%	232,078.16	250,000.00
06-409-000-037 Water	361.31	25,000.00	1.4%	11,527.58	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	-	5,000.00	0.0%	259.00	15,000.00
06-409-000-427 waste Disposal	-	-	IIDIV/01	-	-
	30,441.64	318,756.00	9.6%	268,570.05	329,797.00
operations:					
06-420-000-020 Supplies	439.75	20,000.00	2.2%	14,379.21	20,000.00
06-420-000-022 Chemicals	-	15,000.00	0.0%	10,679.56	15,450.00
06-420-000-023 Propane and Fuel Oil	-	5,000.00	0.0%	4,649.20	2,575.00
06-420-000-025 Maintenance & Repair	2,860.57	120,000.00	2.4%	92,719.43	120,000.00
06-420-000-030 Testing	-	40,000.00	0.0%	42,970.95	40,000.00
06-420-000-031 Pump & Haul	-	50,000.00	0.0%	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	400.00	5,000.00	8.0%	3,768.00	5,000.00
06-420-000-042 Dues and Memberships	-	2,500.00	0.0%	2,100.00	2,500.00
05-420-000-045 Contracted Services	11,650.00	135,000.00	8.6%	141,411.30	135,000.00
06-420-000-048 Misc expenses	-	10,000.00	0.0%	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	76.54	2,500.00	3.1%	1,541.45	2,500.00
	15,465.80	427,000.00	3.6%	419,059.36	420,025.00

Upper Uwchlan Township Municipal Authority
Statement of Revenues and Expenditures

For the Period Ended January 31, 2019
(Continued)

		Actual 2019YTD	Budget 2019	%of Budget	Actual 2018 <i>/unaudited</i>	Budget 2018
	<u>Capital:</u>					
06-483-000-000	Capital Repair	{476.21}	50,000.00	-1.0%	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
		(476.21)	1,600,000.00	0.0%	177,458.14	66,000.00
Total Expenditures before Operations Agreement and Transl		\$ 113,903.74	\$ 2,917,447.00	3.9%	\$ 1,370,523.90	\$ 1,381,028.00
Net Income before Operations Agreement and Transfers		\$ 5,135,696.61	\$ 7,274,345.00	70.6%	904,617.54	2,932,276.00
	<u>Other:</u>					
06-471-000-010	Operations Agreement Fee to UUT	-	369,213.00	0.0%	364,339.21	364,463.00
	Operations Agreement Fee to UUT-new d,	-	190,681.00			50,000.00
		-	559,894.00	0.0%	364,339.21	414,463.00
06-492-000-010	Transfer to Sewer Fund	-	-	II DIV/01	-	-
06-492-000-020	Transfer to Water Resource Protection Fu	-	-	II DIV/01	-	-
06-492-000-030	Transfer to UUT Capital Fund	-	-	II DIV/01	-	-
		-	-	II DIV/01	-	-
TOTAL EXPENDITURES		\$ 113,903.74	\$ 3,477,341.00	3.3%	\$ 1,734,863.11	\$ 1,795,491.00
OPERATING INCOME		\$ 5,135,696.61	\$ 6,714,451.00	76.5%	\$ 540,278.33	\$ 2,517,813.00

I

Clean Water, Inc.

170 Thilth1q St.
Box 475
A11tc!!., Pa. 19310

Phone 610-593-5710
F x 610-593-6311

February 21, 2019

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

RE: Report for the February 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 December. Information items are current

Route 100

On Friday February 1 there was a power surge thru the transformer that caused the transfer switches for the generator to blow along with several operational components and relays for the generator. This surge also caused the skada system to blow as well. We also had the water service freeze and break causing the pump room and area to flood. This was caused by the heaters in that room not providing adequate or consistent heat in that room evidently. Matt Brown can explain the surge issue much more intelligently as it relates to the extreme cold temperatures. We still await an itemized cost estimate for insurance claim, and some of the boards for the transfer switch are on back order. Brian Owens has repaired the broken water

Eaglepoint

Plant is running well. Inks Disposal was called to help clean up a sand filter.

St. Andrews Brae

We recently had a DEP inspection here. In preparation for that, Inks was called to do some clean up. The flow meter is reading high, Malden was called to try and diagnose.

Marsh Harbour

We continue to spray as conditions warrant. The lagoon is about ½ full.

Clean Water, Inc. Wastewater Treatment Specialists

Saybrooke

Predoc began the annual bed cleaning recently during some milder weather. They will be back to complete at a later date. I also was having some problems with a check valve in the dosing station for the beds. It was replaced. The filter dose pump mentioned previously has been reinstalled.

Lakewood

Plant is running just fine. The Pa one call mentioned last month was for line location. Work will not begin on the sludge tank project until spring. We still are waiting for the permit (mewal).

Greenridge

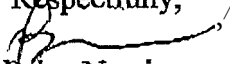
Drip continues here. We had a DEP inspection here also.

Additional Information

Good news regarding Deckman Electric. They found a buyer for the shop and it will remain opened and all staffing will stay in place. We will be providing Chapter 94 reports for review shortly.

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

Respectfully,



Brian Norris



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

MEMORANDUM

TO: Upper Uwchlan Township Municipal Authority

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

RE: Project Status Report

PROJECT NO.: 17000.00

DATE: February 20, 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.

Nothing new to report.

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.

Eaglepointe

Wastewater Treatment Plant and Sanitary Sewer System: ARRO prepared plans and specifications for a new chain-link fencing around the wastewater treatment plant. Bids for new fencing at the Eaglepointe WWTP were received on June 22, 2018. ARRO prepared a June 25, 2018 recommendation to award letter to the Township. A notice to proceed has been issued to ProMax Fencing and ARRO is waiting for ProMax to submit its contract documents. The fencing pre-construction meeting was held on August 3, 2018. Chain-link privacy fencing installation work is to begin after the completion of fencing at the Lakeridge WWTP. Trees and brush have been removed and the chain-link fence and gate were installed as of October 12, 2018. Chain-link fencing installation work is complete. Fencing installation project closeout paperwork was sent to the Authority for execution.

Eaglepointe sanitary sewer easement survey was authorized to proceed on December 15, 2017. The surveyor will prepare plot plans and legal descriptions for all easements encompassing gravity sanitary sewer at the subdivision. ARRO received and returned comments to the surveyor's preliminary easement plans on April 23, 2018. On November 7, 2018, ARRO received and reviewed the final plot plans and legal descriptions for all the easements encompassing the gravity sewer. The plans and description have been found to be acceptable.

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 in the J. Loew building onsite.

The Authority Administrator approved the request for additional wastewater disposal from the J. Loew tenant. ARRO sent the tenant a copy of the Non-Residential Wastewater Disposal resolution along with a permit application for the additional disposal.

CarSense: ARRO received a telephone call from CarSense's engineer regarding a request to include additional flow to the sanitary sewer system from a proposed carwash facility. ARRO is awaiting a formal written request of the proposal. ARRO received a written request from

CarSense's engineer to introduce additional flow from a proposed carwash facility into the Eaglepointe sanitary sewer system. ARRO responded that the estimated 2,208 gallon flow from CarSense would be acceptable provided an oil/water separator and a sampling facility be installed. CarSense's engineer expects to have sewer plans and planning module application materials for submission to the Township within two weeks. ARRO reviewed the CarSense sewer plans and planning module application materials and transmitted comments to each to CarSense's engineer by letter dated September 20, 2017. ARRO reviewed the CarSense engineer's latest revised sewer plans. ARRO prepared a November 28, 2017 letter accepting the latest revised sewer plans. CarSense has secured a general contractor for the sanitary sewer work. ARRO is assisting the contractor regarding the contractor's submission of shop drawings for the project. ARRO reviewed and approved the sanitary sewer shop drawings. The project preconstruction meeting was held on April 10, 2018. Onsite sanitary sewer installation began in mid-April 2018. 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 will meet 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. ARRO transmitted its sanitary sewer evaluation to Dilibero on April 20, 2018. ARRO has been responding to sanitary sewer related questions from Dilibero's sewer contractor.

Nothing new to report.

Ewing Tract

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

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.

Nothing new to report.

Fetter Farm Tract (McKee)

ARRO received a request from a developer engineer for information on available treatment capacity to serve the Tract and met with the Township Manager and developer engineer on September 18, 2012, to discuss treatment capacity and conveyance to the Route 100 WWTP. On August 5, 2014 a meeting with held at the Township Building with The McKee Group to discuss the active adult community proposed by the Developer for the property. A subsequent meeting was held at the Township Building on August 14, 2014 with the Township, Developer and Authority Administrator to discuss sewage flows and disposal. ARRO reviewed a Conditional Use Plan for Fetter's Property prepared for McKee-Millford Associates, LP, dated October 12, 2016. ARRO prepared a review letter to the Township, dated November 8, 2016. The Developer is proposing 375 Housing Units, which will produce 62,675 gallons per day of sanitary sewer flow. The Developer is proposing participation in upgrades to the Route 100 Regional WWTP facility that will trigger the Phase 3 expansion of the WWTP. A review of the capacity within the downstream collection and conveyance system is required to determine the extent of improvements necessary to accept the proposed sewage flow. Preliminary Subdivision/Land Development Plans were submitted to ARRO and are currently under review. The Plans call for 375 mixed Single Family, Twin and Triple units and a Community Center to be built in the subdivision. The subdivision will connect to the Reserve at Eagle by way of Prescott Drive and to the Reserve at Chester Springs by way of Radek Court. The sanitary sewer disposal requirements are calculated to be 62,675 gpd. On-site drip disposal capacity is calculated to be 42,643 gpd, and the off-site sewage disposal requirement is 20,032 gpd. The combination gravity and low pressure sanitary sewer systems will be directed to the Reserve at Eagle Pump Station No. 1 off Prescott Drive. Preliminary Subdivision/Land Development Plans were submitted and reviewed by ARRO. ARRO comments were submitted in an April 10, 2017 letter to the Township. ARRO is in the process of reviewing the June 15, 2017 resubmission of the Preliminary Subdivision/Land Development Application. ARRO reviewed the June 15, 2017 resubmission of the Preliminary Subdivision/Land Development Plan and submitted comments to the plan in a July 10, 2017 letter to the Township. ARRO also reviewed the subdivision's low pressure sewer system design calculations and submitted comments to the design in a July 12, 2017 letter to the Township. ARRO reviewed an August 1, 2017 revision to the low pressure sewer system design calculations and drawings and submitted an August 16, 2017 letter to the Township with comments to the revision materials. ARRO has started an evaluation of the Reserve at Eagle Pump Station No. 1 to ascertain its capability to accept the Fetter Tract design sanitary sewer disposal requirements. ARRO received revised Preliminary Subdivision/Land Development Plans on September 14, 2017. ARRO reviewed the Plans and sent an October 3, 2017 review comments letter to the Township. ARRO continues an evaluation of the Reserve at Eagle Pump Station No. 1 to ascertain its capability to accept the Fetter Tract design sanitary sewer disposal requirements. The evaluation is substantially complete with the exception of emergency generator assessment. ARRO continues an evaluation of Upland Farms drip disposal to ascertain the facility's capability to store and dispose the Fetter Tract effluent. ARRO reviewed the Sewage Facilities Planning Module (SFPM) and is working on the sanitary sewer review. The Authority Administrator signed the SFPM Component 3 Sections G and J. The Board of Supervisors approved the SFPM resolution at the April 16, 2018 meeting. The developer's engineer stated in an April 17 email to the Authority Administrator that the SFMP is close to being submitted to PADEP for review. The Sewage Facilities Planning Module was 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 each new home is continuing.

On February 11, 2019, ARRO received the sanitary sewer televising video and reports from Toll Brothers' contractor. ARRO is currently reviewing the video and reports.

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 Upattinas 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.

ARRO met with the 403 Greenridge Road property owner and his contractor on April 30, 2018 regarding the proposed installation of a sanitary sewer grinder pump to connect to the Stonehedge force main that runs to the Greenridge WWTP sanitary sewer system. ARRO reviewed the 403 Greenridge Road Public Sewer Connection Plan prepared by Evans Mill Environmental for a sanitary sewer grinder pump to connect to the Stonehedge force main. The Plan was approved on June 20, 2018.

ARRO is working on a capacity analysis of the wastewater treatment plant.

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.

Lakeridge

ARRO has prepared plans and specifications for fencing around the WWTP's sand mounds. Bids for new fencing around the Lakeridge WWTP disposal fields were received on June 22, 2018. ARRO prepared a June 25, 2018 recommendation to award letter to the Township. A notice to proceed has been issued to ProMax Fencing and ARRO is waiting for ProMax to submit its contract drawings. The fencing pre-construction meeting was held on August 3, 2018. Submittals for vinyl fencing were approved and ordered. Fencing installation work is to begin on August 27, 2018. Fencing installation work around the disposal beds is complete. Fencing installation project closeout paperwork was sent to the Authority for execution.

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.

ARRO prepared and sent to Clean Water on June 12, 2018 the 5-Year Groundwater Monitoring Geotechnical Comprehensive Report for inclusion in Clean Water's Lakeridge WWTP WQM permit renewal package submission to PADEP.

Sludge Tank project shop drawings are being reviewed. The Blooming Glen Contractors project schedule says construction will start in April 2019.

Marsh Harbour

ARRO prepared plans and specifications for miscellaneous repairs to the Marsh Harbour WWTP control building. ARRO has completed specifications and an opinion of probable cost for the wastewater treatment plant's Control Building exterior repairs and the project is ready to be put out to bid. A proposal of \$16,840 was received from Pikeland Construction for replacing the Control Building roofing, soffit, fascia, gutters and siding, and also repairing a deteriorated Chlorine Room exterior door frame. The Control Building roofing, soffit, fascia, and gutters work is tentatively scheduled to begin on December 17, 2018. The Control Building roofing replacement was completed on January 4, 2019 with soffit, fascia and gutter metal work remaining to be completed.

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 that work would begin on the Park Road walking path in March 2019. The Authority's Heron Hill Pump Station force main will cross the walking path and road stormwater improvements. ARRO will be onsite February 21, 2019 when the contractor does hydroexcavation to locate the force main to check if the force main will interfere with proposed stormwater improvements.

Reserve at Eagle

ARRO prepared plans and specifications for lagoon and spray field fencing. Bids for new fencing at the Reserve at Eagle storage lagoon were received on June 22, 2018. ARRO prepared a June 25, 2018 recommendation to award letter to the Township. A notice to proceed has been issued to ProMax Fencing and ARRO is waiting for ProMax to submit its

contract drawings. The fencing pre-construction meeting was held on August 3, 2018. Submittals for vinyl fencing were approved and ordered. Fencing installation work is 30% complete. Fencing installation work is complete. Fencing installation project closeout paperwork was sent to the Authority for execution.

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 prepared the DRBC permit renewal application. ARRO submitted the DRBC permit renewal application on August 3, 2017. ARRO received a March 12, 2018 email from DRBC stating the Route 100 WWTP renewal Docket should be presented and acted upon at the next Commission hearing. ARRO received and responded to a DRBC March 30, 2018 email question. DRBC stated the draft Docket is being prepared. On May 1, 2018, ARRO received a draft of the DRBC Docket. On June 14, 2018, ARRO received the DRBC renewal Docket for the Route 100 WWTP.

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 prepared the annual Route 100 Regional WWTP groundwater monitoring report and transmitted it to PADEP by letter dated June 19, 2018. PADEP approved the June 19, 2018 annual groundwater monitoring report by letter dated August 14, 2018.

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

ARRO is reevaluating Route 100 WWTP wind energy sources utilizing very small turbines.

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 completed paperwork for the CCCD post-construction stormwater management Notice of Termination and submitted it to the Chester County for recording.

ARRO started preparation of the 2018 Route 100 Regional Wastewater Treatment Plant Chapter 94 report.

Route 100 WWTP – Phase III

ARRO is reviewing the Route 100 Regional WWTP pad-mounted transformer's capacity in planning for the Phase III of the WWTP expansion. On February 12, 2018, ARRO met with a PECO representative at the WWTP to inspect the capacity of the WWTP's existing transformer and review the Phase III project. After ARRO reviewed the transformer data provided by PECO along with additional anticipated Phase III loadings ARRO concluded that the existing transformer will need to be upgraded. On May 3, 2018 ARRO completed a preliminary cost opinion for the Phase III construction.

Nothing new to report.

Saybrooke

ARRO prepared plans for a gravity and grinder pump system for 55 Yarmouth Lane and is getting a price from a contractor for the project. ARRO prepared revised plans for a gravity and grinder pump system at 55 Yarmouth Lane. Columbia Gas has approved the portion of the plans that crosses its easement area. ARRO awaits approval of the plans by the property owners. ARRO received approval from the 55 Yarmouth Lane property owners for the proposed gravity and grinder pump system. ARRO is obtaining costs from contractors for the work. ARRO completed the 5-Year Comprehensive Groundwater Evaluation for inclusion with the WQM permit renewal application being prepared by Clean Water. ARRO is attempting to contact the 55 Yarmouth Lane property owner to determine if and when the sewer connection needs to be completed. The meeting with the 55 Yarmouth Lane property owners to determine if and when the sewer connection needs to be completed was conducted on December 8, 2016. ARRO is preparing plans and specifications for miscellaneous repairs to the Saybrooke WWTP control building. ARRO prepared specifications for repairs to the Saybrooke WWTP control building roof. A contractor quote of \$5,800.00 was received for the specified work. ARRO met with the 55 Yarmouth Lane property owners to discuss the proposed grinder pump system and also emailed to the property owners two contractor quotes for the work. ARRO is obtaining proposals for repairs to the wastewater treatment plant's Control Building roof. ARRO obtained wastewater treatment plant Control Building roof replacement proposals and submitted the costs to the Authority Administrator. The project was approved and ARRO directed the contractor to proceed. ARRO prepared the annual Saybrooke WWTP groundwater monitoring report and transmitted it to PADEP by letter dated June 19, 2018. PADEP approved the June 19, 2018 annual groundwater monitoring report by letter dated August 10, 2018. New roofing was installed on the Control Building on August 24, 2018.

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

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.

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.

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

Nothing new to report.

Montesano Brothers Italian Market and Catering - ARRO reviewed a Conditional Use application for expansion of the Market to provide outdoor seating. ARRO sent an October 10, 2017 review letter to the Township with comments that included a review of current sewage flows and an estimate of two (2) EDUs in additional sanitary sewer flow would be generated with the expansion. ARRO attended an October 16, 2017 Conditional Use Hearing on the application. ARRO will be attending the continued Conditional Use Hearing scheduled for December 18, 2017.

Nothing new to report.

Byers Road Sanitary Sewer Extension - ARRO preliminary planning for sanitary sewer along Byers Road between Pottstown Pike and Senn Drive was submitted to the Authority Administrator for review and comment. ARRO is preparing the Sewage Facilities Planning Module Component 3M for the sanitary sewer along Byers Road between Pottstown Pike and Senn Drive. ARRO received a completed Component 4A from the Township on October 19, 2017. At the request of the Chester County Health Department, on January 9, 2018, ARRO sent another Sewage Facilities Planning Module Component 3M letter to CCHD for the sanitary sewer extension along Byers Road between Pottstown Pike and Senn Drive. In February 2018 letters were sent to the property owners who will be connected to the new Byers Road sanitary sewer informing them that the project's survey will be commencing. ARRO is continuing to prepare drawings and construction specifications for the sanitary sewer extension. The project's survey work was completed in early March 2018. ARRO has the survey information for inclusion in the plans. ARRO has the design plans and specifications in the final stage of completion. ARRO submitted the highway occupancy permit to PennDOT on April 16, 2018. There were no public comments to the sewage facilities planning module (SFPM) and the Board of Supervisors passed a resolution approving the submission of the SFPM to PADEP. ARRO submitted the Sewage Facilities Planning Module to PADEP on April 27, 2018. Comments from PADEP are expected within sixty (60) days. PennDOT has approved the highway occupancy permit plans and requires payment of \$810 for inspection observation prior to release of the permit. PADEP transmitted its comments to the Sewage Facilities Planning Module by letter dated June 21, 2018. ARRO is in the process of addressing each of the PADEP comments. The PennDOT Highway Occupancy Permit for the project has been received. ARRO submitted an August 6, 2018 letter to PADEP addressing each PADEP comment from its Sewage Facilities Planning Module review letter, dated June 21, 2018. PADEP transmitted a September 5, 2018 letter with additional comments to Sewage Facilities Planning Module. ARRO submitted a response letter addressing each concern on October 17, 2018. PADEP transmitted a November 14, 2018 letter with additional comments to the Sewage Facilities Planning Module. ARRO is reviewing the letter and will address each comment in a future letter. The Authority Administrator sent a December 20, 2018 letter to PADEP containing responses to PADEP's November 14, 2018 comments to the Sewage Facilities Planning Module.

ARRO sent an email to PADEP in January 2019 requesting approval of the Sewage Facilities Planning Module. As of February 20, 2019 no response has been forthcoming.

ARRO is studying the feasibility 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

Nothing new to report.

Milford Farms – ARRO had survey completed on Surrey Lane and Carriage Drive and portions of Font Road and Milford Road as preliminary work for sanitary sewer design along these roads. ARRO completed a preliminary design of gravity sewer for Surrey Lane, Carriage Drive and the portion of Font Road between Surrey and Carriage. ARRO prepared presentation graphics of the proposed sewer for the Authority Administrator.

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

UPPER UWCHLAN MUNICIPAL AUTHORITY

WASTEWATER TREATMENT PLANTS

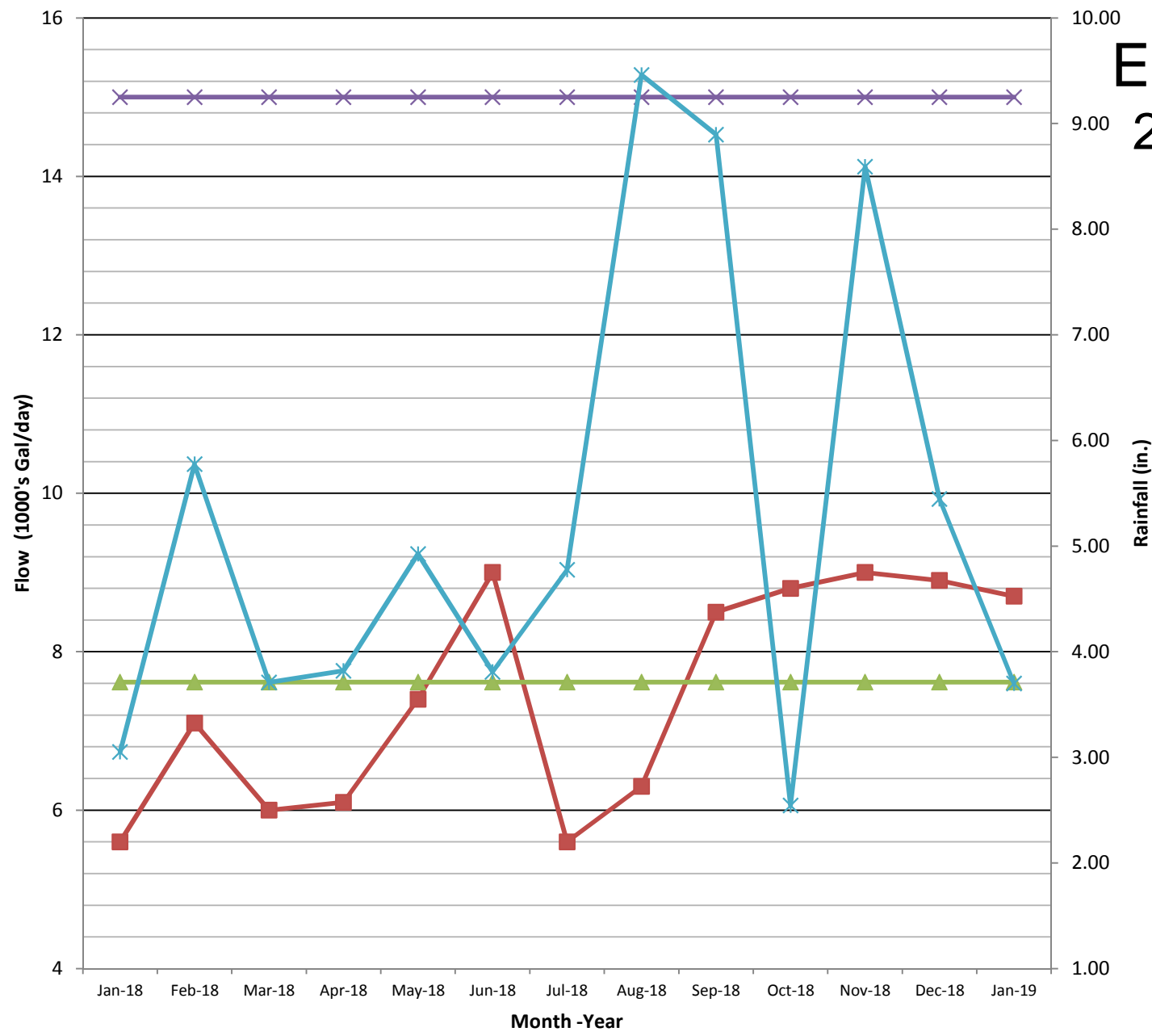
MONTHLY AVERAGE DAILY FLOWS

Month - Year		Average Daily Flow (MGD)							Rainfall (in)
		Eaglepointe	Greenridge	Lakeridge	Marsh Harbour	Route 100	Saybrooke	St. Andrews	
Jan-18		0.00560	0.00770	0.02770	0.03920	0.30760	0.00770	0.00200	3.05
Feb-18		0.00710	0.00750	0.02900	0.04240	0.33180	0.00820	0.00260	5.78
Mar-18		0.00600	0.00670	0.02850	0.04200	0.33400	0.00770	0.00250	3.71
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

Annual Avg Flow =	0.00762	0.00790	0.02743	0.04132	0.33388	0.00768	0.00254
Permitted Flow =	0.01500	0.01170	0.04000	0.07600	0.60000	0.00920	0.00360

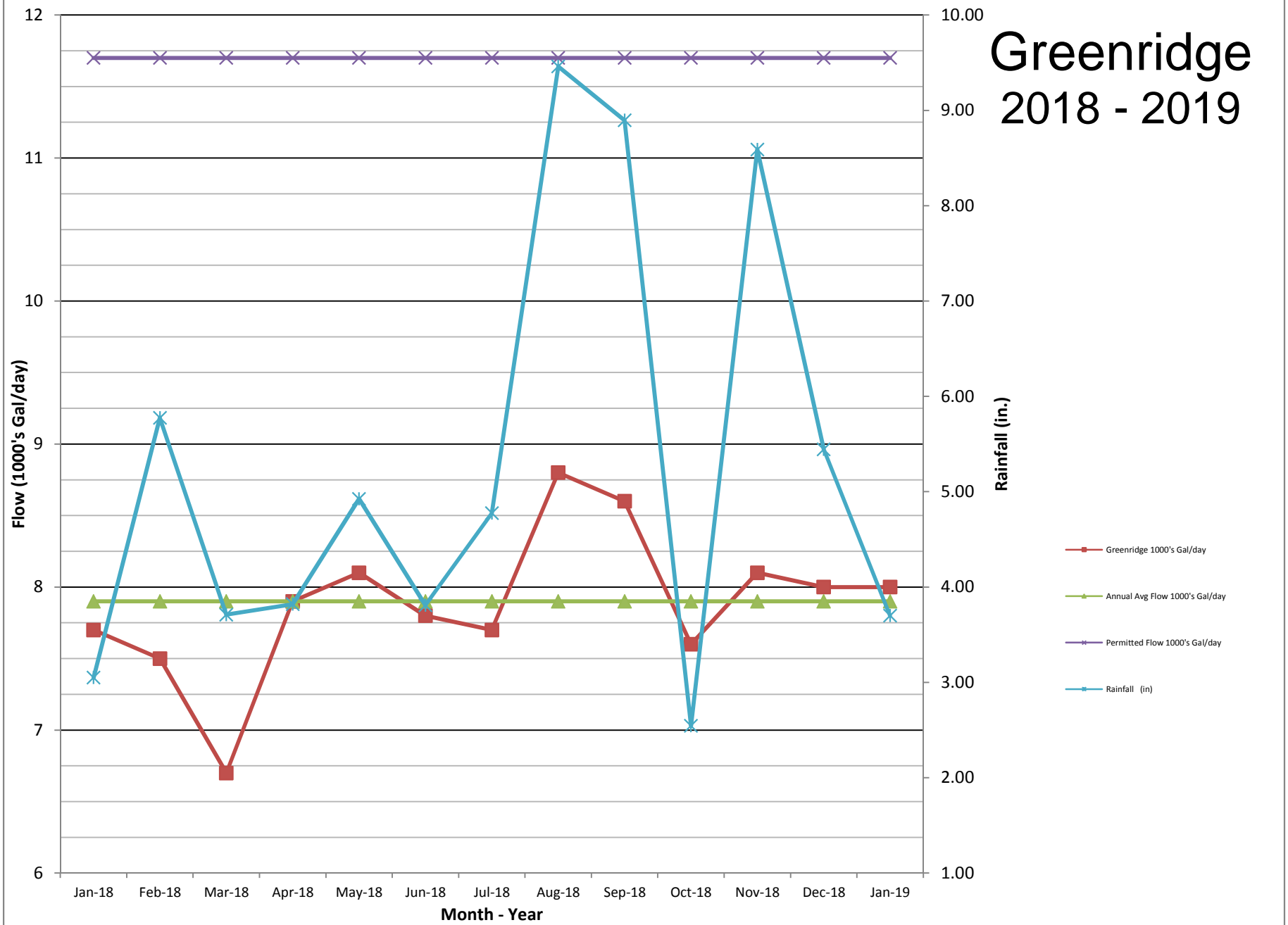
Permitted Flow as of October 2015 = 0.60000

Eaglepointe 2018 - 2019

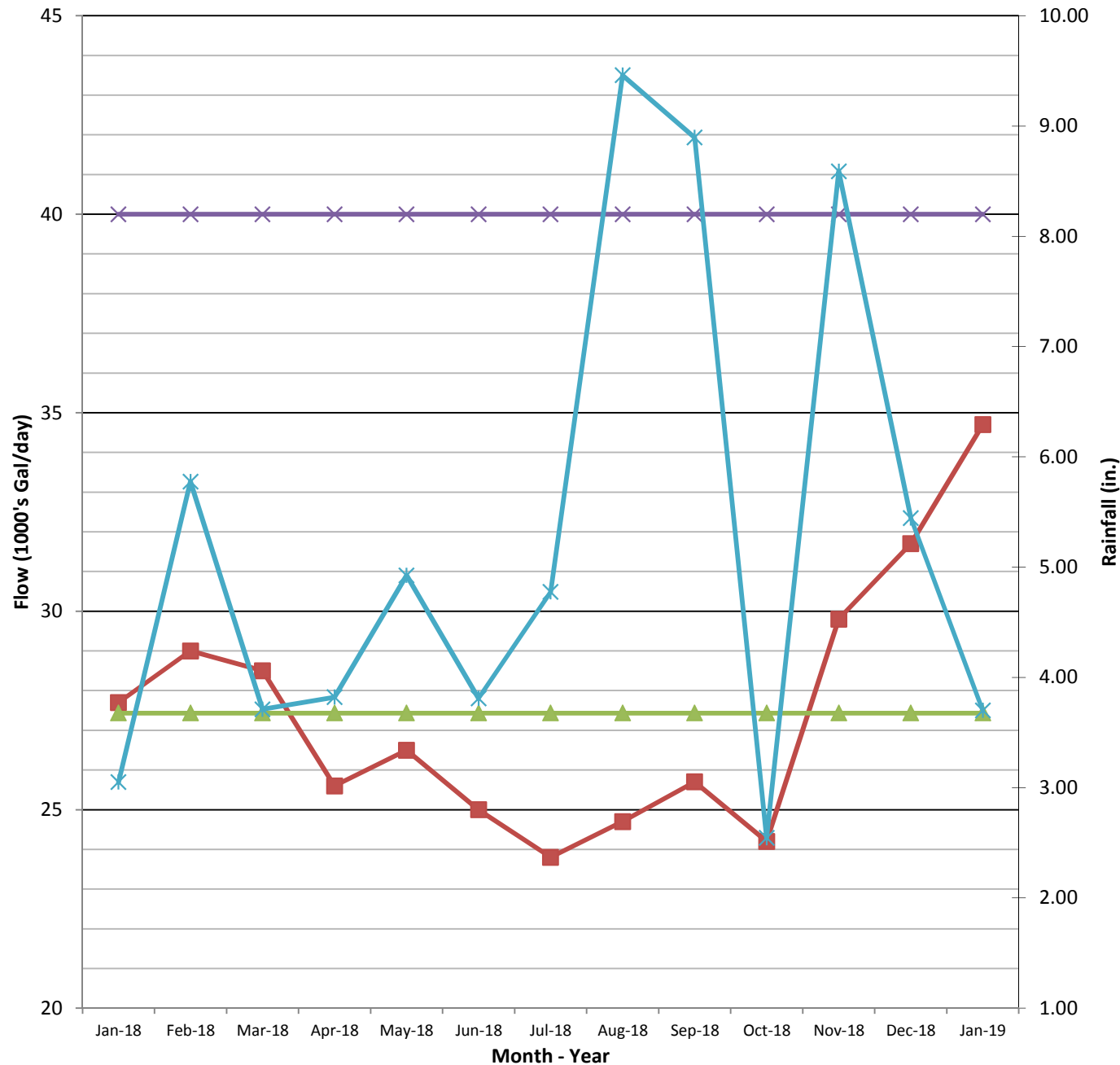


**CarSense
started flow
to Eaglepointe
on June 1, 2018.**

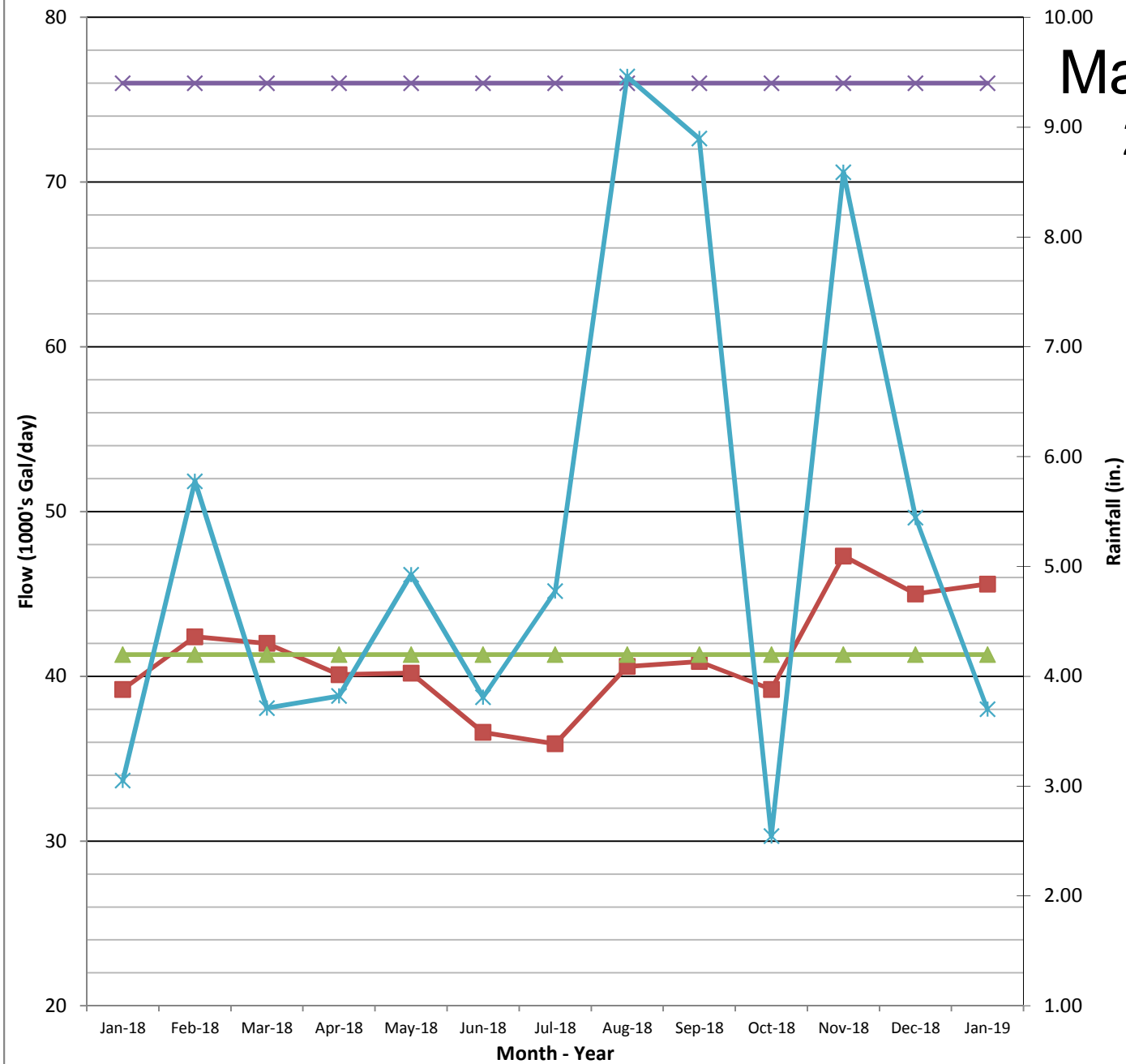
Greenridge 2018 - 2019



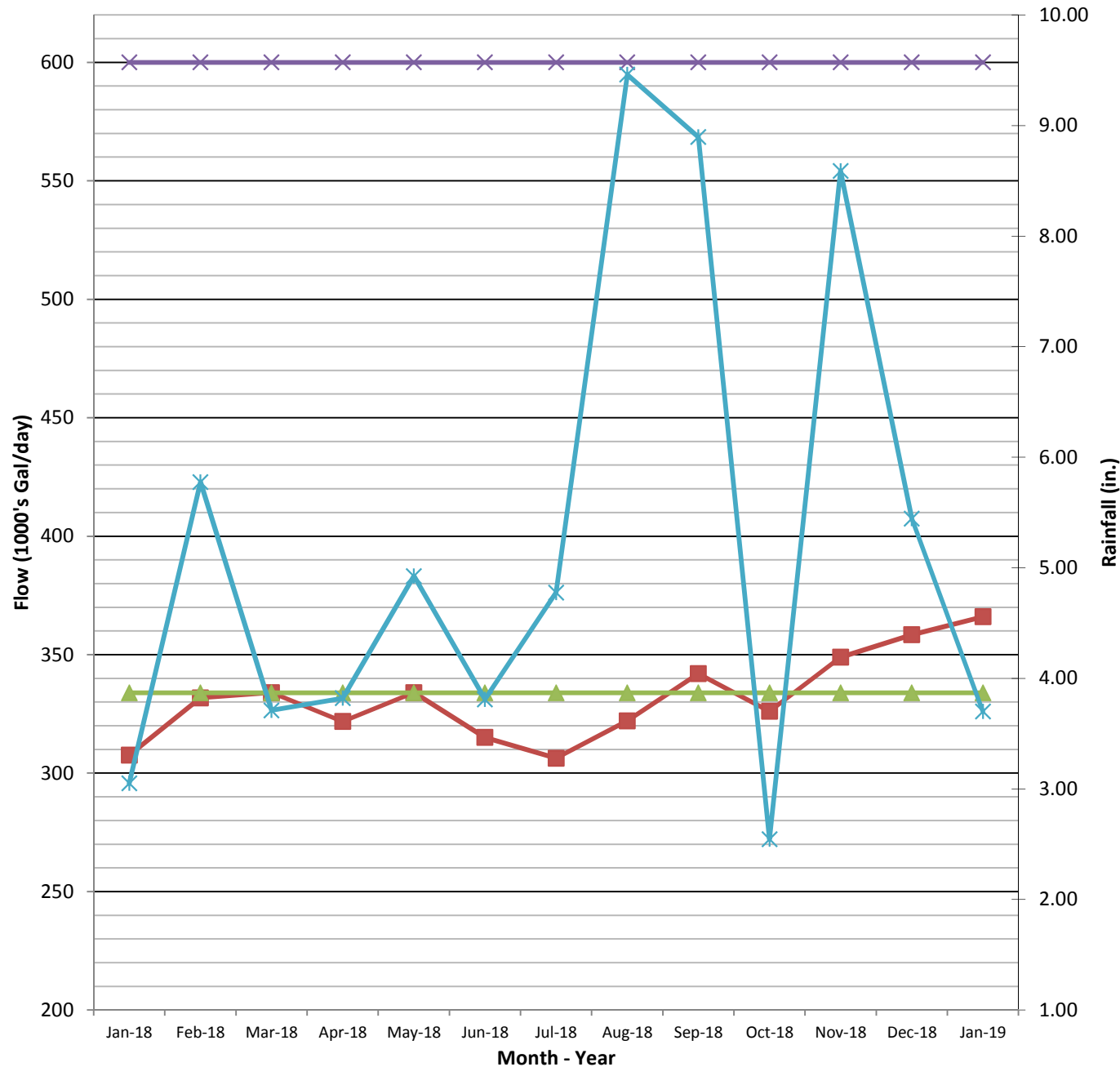
Lakeridge 2018 - 2019



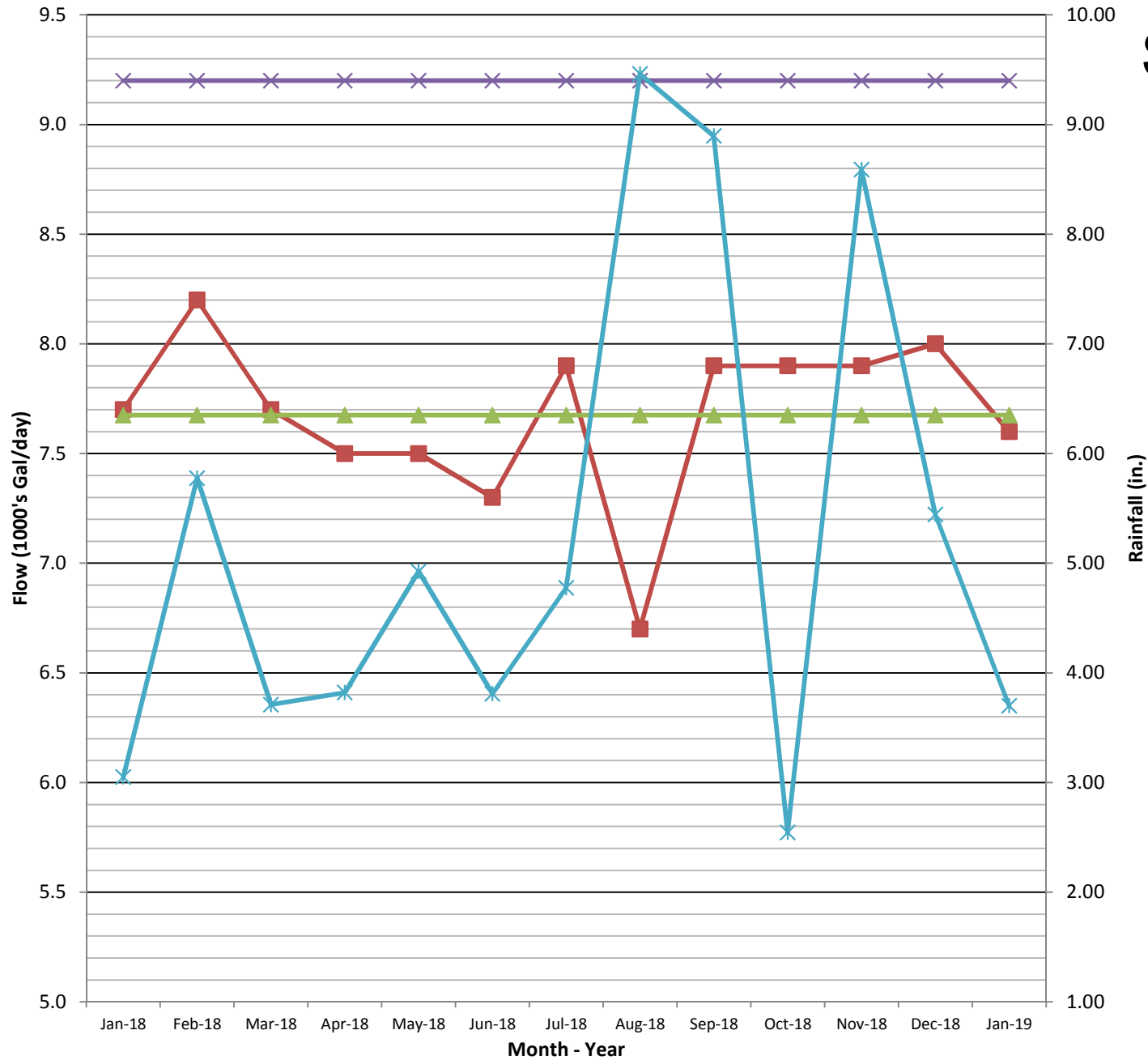
Marsh Harbour 2018 - 2019



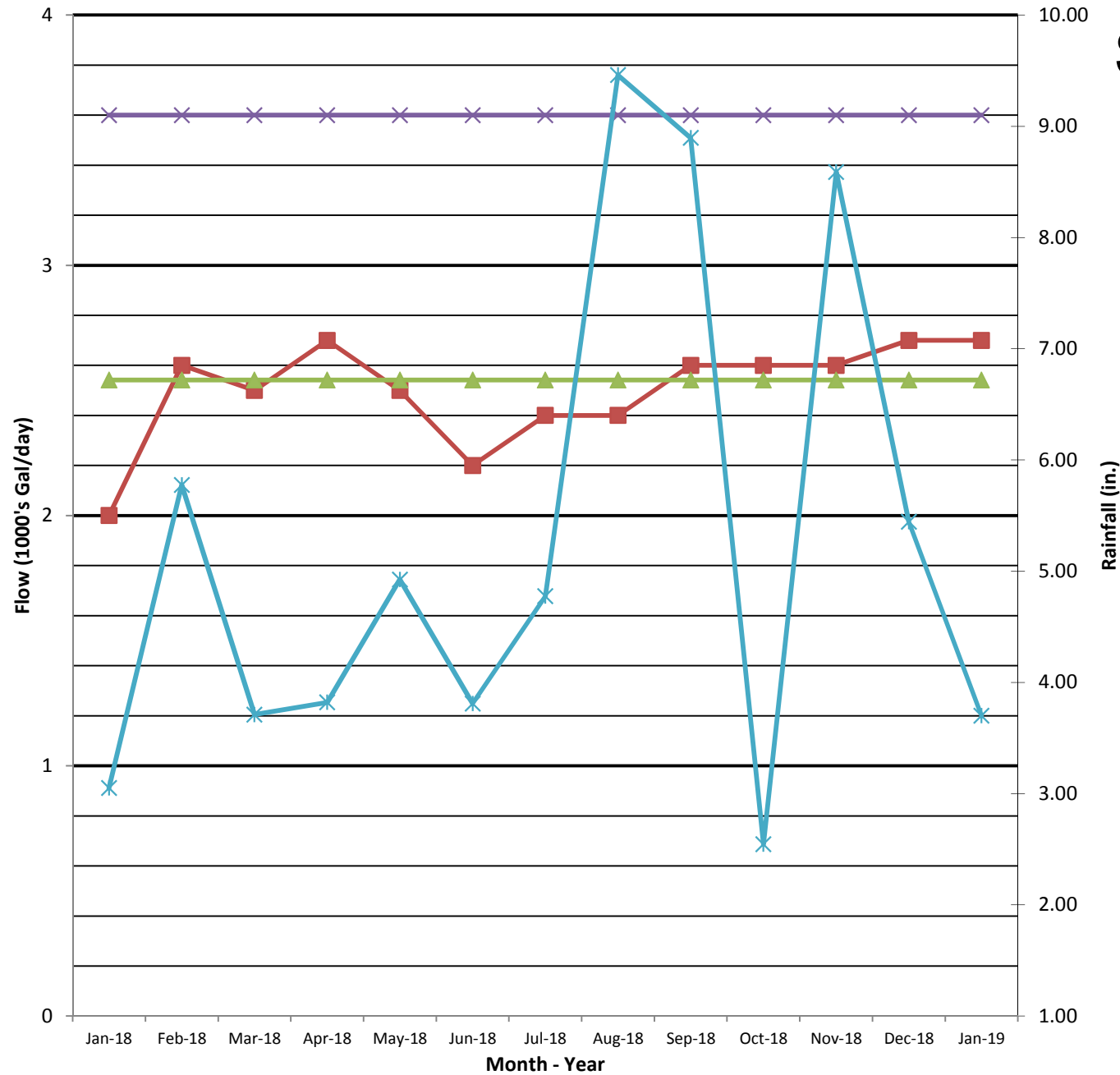
Route 100 2018 - 2019



Saybrooke 2018 - 2019



St. Andrews 2018 - 2019





To: Municipal Authority Members

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

Re: Authority Administrator's Report

Date: February 21, 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 regarding the proposed Septage Management Ordinance.
- E. Communication with the Contractors and ARRO regarding the concrete tank repair project.
- F. Communication with ARRO and contractors regarding the Lakeridge Sludge Holding Tank Project.
- G. Communication with Township, Operator and Insurance carrier regarding the power outage at the Route 100 WWTF.
- H. Communication with DEP regarding a new Act 537 Plan for the Township.
- I. Communication with residents regarding the Milford Road and Byers Road sewer extensions.

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

West Chester Office

1450 E. Boot Road
Bldg. 100, Suite 100-B
West Chester, PA 19380
0 484-999-6150

VIA EMAIL

January 23, 2019

G. Matthew Brown, P.E., D.E.E., Authority Administrator
Upper Uwchlan Township Municipal Authority
140 Pottstown Pike
Chester Springs, PA 19425

RE: Effluent Storage Tanks Rehabilitation
General Construction Contract
Bid Recommendation
ARRO No. 10270.57

Dear Mr. Brown:

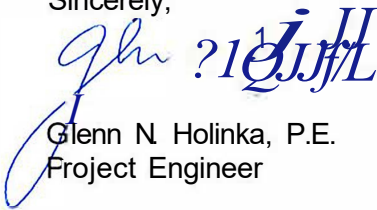
ARRO has reviewed the Bidding Documents, which were opened on January 10, 2019, for the above referenced project for compliance with the Bidding Requirements.

We recommend that the contract be awarded to the lowest qualified bidder, Quinn Construction, Inc., for the initial Contract Price of \$169,380.50, which includes Contingency Bid Item 6 listed on the Bid Form. Use of and payment for contingency items, during construction, will require prior written authorization by Owner or Engineer.

Award the Contract is subject to the Bidder submitting all of the documents listed in the Instructions to Bidders, including but not limited to documentation that Bidder's company is a corporation registered the Department of State of the Commonwealth of Pennsylvania, and any other documents required by Owner prior to award of a Contract. I await approval at the February 26 Authority meeting prior to notifying Quinn Construction, Inc. with the intent to award.

Enclosed is a copy of the bid tabulation for your reference and use. Due to the viewing size, I suggest that the table be printed on 11" x 17" paper for optimum viewing.

Sincerely,



Glenn N. Holinka, P.E.
Project Engineer

Enclosure

Cc: Cary Vargo - Township Manager
Gwen Janik - UUT (via email)
John A. Mott, P.E. - ARRO (via email)
File (w/encl.)

UPPER UWCHLAN TOWNSHIP MUNICIPAL AUTHORITY
EFFLUENT STORAGE TANKS REHABILITATION
GENERAL CONSTRUCTION CONTRACT BID TABULATION
JANUARY 10, 2019 @ 10:00 A.M.
ARRO PROJECT NO. 10270.57
2019.01.23

Item No.	Description	Unit	Est. Qty.	QUINN		DUTCHLAND, INC		ALLEGHENY RESTORATION, INC		I.K. STOLTZFUS SERVICE CORP.		JP SMITH CONTRACTORS, INC		BILL ANSKIS CO., INC		MAR-ALLEN CONCRETE PRODUCTS, INC		Avg. Unit Price of Low Three Bidders	Avg. Unit Price of All Bidders
				Unit Price	Extended Price	Unit Price	Extended Price	Unit Price	Extended Price	Unit Price	Extended Price	Unit Price	Extended Price	Unit Price	Extended Price	Unit Price	Extended Price		
1a	EH.1.01, Walls; Remove and replace failing wall to roof joint sealant.	LF	176	\$ 23.00	\$ 4,048.00	\$ 22.00	\$ 3,872.00	\$ 11.48	\$ 2,020.48	\$ 85.00	\$ 14,960.00	\$ 67.53	\$ 11,885.28	\$ 15.00	\$ 2,640.00	\$ 63.00	\$ 11,088.00	\$ 18.83	\$ 41.00
1b	EH.1.02, Walls; Clean and grout efflorescence areas at wall panel vertical joints.	EA	4	\$ 342.00	\$ 1,368.00	\$ 295.00	\$ 1,180.00	\$ 2,267.50	\$ 9,070.00	\$ 750.00	\$ 3,000.00	\$ 965.25	\$ 3,861.00	\$ 160.00	\$ 640.00	\$ 403.00	\$ 1,612.00	\$ 968.17	\$ 740.39
1c	EH.1.03, Roof; Clean and patch damaged lifting lug grout.	EA	9	\$ 70.00	\$ 630.00	\$ 31.50	\$ 283.50	\$ 150.00	\$ 1,350.00	\$ 125.00	\$ 1,125.00	\$ 598.00	\$ 5,382.00	\$ 105.00	\$ 945.00	\$ 257.00	\$ 2,313.00	\$ 83.83	\$ 190.93
1d	EH.1.04, Roof; Clean and patch fragmented jacking pocket grout.	EA	4	\$ 152.00	\$ 608.00	\$ 2,385.00	\$ 9,540.00	\$ 150.00	\$ 600.00	\$ 250.00	\$ 1,000.00	\$ 1,359.54	\$ 5,438.16	\$ 185.00	\$ 740.00	\$ 413.00	\$ 1,652.00	\$ 895.67	\$ 699.22
1e	EH.1.05, Roof; Repair panel corner spill at iron joint.	EA	1	\$ 113.00	\$ 113.00	\$ 155.00	\$ 155.00	\$ 1,500.00	\$ 1,500.00	\$ 250.00	\$ 250.00	\$ 1,331.46	\$ 1,331.46	\$ 250.00	\$ 250.00	\$ 1,430.00	\$ 1,430.00	\$ 589.33	\$ 718.49
1f	EH.1.06, Roof; Repair panel spill at iron joint.	EA	1	\$ 200.00	\$ 200.00	\$ 155.00	\$ 155.00	\$ 1,500.00	\$ 1,500.00	\$ 200.00	\$ 200.00	\$ 1,331.46	\$ 1,331.46	\$ 220.00	\$ 220.00	\$ 1,218.00	\$ 1,218.00	\$ 618.33	\$ 689.21
1g	EH.1.07, Roof; Repair panel spill at radial joint.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1h	EH.1.08, Roof; Remove and replace radial joint sealant.	LF	2,158	\$ 8.50	\$ 18,343.00	\$ 12.50	\$ 26,975.00	\$ 12.83	\$ 27,687.14	\$ 16.50	\$ 35,607.00	\$ 16.26	\$ 35,089.08	\$ 32.00	\$ 69,056.00	\$ 38.50	\$ 83,083.00	\$ 11.28	\$ 19.58
1i	EH.1.09, Roof; Remove and replace grout (iron joint).	LF	76	\$ 66.00	\$ 5,016.00	\$ 62.00	\$ 4,712.00	\$ 70.00	\$ 5,320.00	\$ 75.00	\$ 5,700.00	\$ 107.60	\$ 8,177.60	\$ 125.00	\$ 9,500.00	\$ 158.00	\$ 12,008.00	\$ 66.00	\$ 94.80
1j	EH.1.10, Roof; Remove and replace peeling sealant (iron joint).	LF	76	\$ 22.00	\$ 1,672.00	\$ 35.00	\$ 2,660.00	\$ 70.00	\$ 5,320.00	\$ 50.00	\$ 3,800.00	\$ 61.50	\$ 4,674.00	\$ 15.00	\$ 1,140.00	\$ 159.00	\$ 12,084.00	\$ 42.33	\$ 58.93
1k	EH.1.11, Roof; Remove and replace damaged roof to wall anchor pocket sealant.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1l	EH.1.12, Roof; Patch panel rib edge spill.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2a	WR.1.01, Walls; Remove and replace failing wall to roof joint sealant.	LF	426	\$ 23.00	\$ 9,798.00	\$ 22.00	\$ 9,372.00	\$ 11.48	\$ 4,890.48	\$ 85.00	\$ 36,210.00	\$ 55.66	\$ 23,711.16	\$ 15.00	\$ 6,390.00	\$ 59.75	\$ 25,453.50	\$ 18.83	\$ 38.84
2b	WR.1.02, Walls; Clean and grout efflorescence areas at wall panel vertical joints.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2c	WR.1.03, Roof; Clean and patch damaged lifting lug grout.	EA	48	\$ 70.00	\$ 3,360.00	\$ 31.50	\$ 1,512.00	\$ 150.00	\$ 7,200.00	\$ 125.00	\$ 6,000.00	\$ 271.53	\$ 13,033.44	\$ 105.00	\$ 5,040.00	\$ 176.00	\$ 8,448.00	\$ 83.83	\$ 132.72
2d	WR.1.04, Roof; Clean and patch fragmented jacking pocket grout.	EA	6	\$ 152.00	\$ 912.00	\$ 2,385.00	\$ 14,310.00	\$ 150.00	\$ 900.00	\$ 250.00	\$ 1,500.00	\$ 906.40	\$ 5,438.40	\$ 185.00	\$ 1,110.00	\$ 438.00	\$ 2,628.00	\$ 895.67	\$ 638.06
2e	WR.1.05, Roof; Repair panel corner spill at iron joint.	EA	41	\$ 113.00	\$ 4,633.00	\$ 155.00	\$ 6,355.00	\$ 150.00	\$ 6,150.00	\$ 250.00	\$ 10,250.00	\$ 303.66	\$ 12,450.06	\$ 250.00	\$ 10,250.00	\$ 249.00	\$ 10,209.00	\$ 139.33	\$ 210.09
2f	WR.1.06, Roof; Repair panel spill at iron joint.	EA	6	\$ 200.00	\$ 1,200.00	\$ 155.00	\$ 930.00	\$ 150.00	\$ 900.00	\$ 200.00	\$ 1,200.00	\$ 303.66	\$ 1,821.96	\$ 220.00	\$ 1,320.00	\$ 383.00	\$ 2,298.00	\$ 168.33	\$ 230.24
2g	WR.1.07, Roof; Repair panel spill at radial joint.	EA	18	\$ 86.00	\$ 1,548.00	\$ 155.00	\$ 2,790.00	\$ 150.00	\$ 2,700.00	\$ 200.00	\$ 3,600.00	\$ 303.66	\$ 5,465.88	\$ 220.00	\$ 3,960.00	\$ 385.00	\$ 6,930.00	\$ 130.33	\$ 214.24
2h	WR.1.08, Roof; Remove and replace radial joint sealant.	LF	2,763	\$ 8.50	\$ 23,485.50	\$ 12.50	\$ 34,537.50	\$ 12.83	\$ 35,449.29	\$ 16.50	\$ 45,589.50	\$ 15.63	\$ 43,185.69	\$ 32.00	\$ 88,416.00	\$ 36.00	\$ 99,468.00	\$ 11.28	\$ 19.14
2i	WR.1.09, Roof; Remove and replace grout (iron joint).	LF	154	\$ 66.00	\$ 10,164.00	\$ 62.00	\$ 9,548.00	\$ 70.00	\$ 10,780.00	\$ 75.00	\$ 11,550.00	\$ 78.90	\$ 12,150.60	\$ 125.00	\$ 19,250.00	\$ 160.00	\$ 24,640.00	\$ 66.00	\$ 90.99
2j	WR.1.10, Roof; Remove and replace peeling sealant (iron joint).	LF	154	\$ 22.00	\$ 3,388.00	\$ 35.00	\$ 5,390.00	\$ 70.00	\$ 10,780.00	\$ 50.00	\$ 7,700.00	\$ 31.77	\$ 4,892.58	\$ 15.00	\$ 2,310.00	\$ 169.00	\$ 26,026.00	\$ 42.33	\$ 56.11
2k	WR.1.11, Roof; Remove and replace damaged roof to wall anchor pocket sealant.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2l	WR.1.12, Roof; Patch panel rib edge spill.	EA	3	\$ 526.00	\$ 1,578.00	\$ 225.00	\$ 675.00	\$ 300.00	\$ 900.00	\$ 200.00	\$ 600.00	\$ 2,662.92	\$ 7,988.76	\$ 155.00	\$ 465.00	\$ 195.00	\$ 585.00	\$ 350.33	\$ 609.13
2m	WR.1.13, Wall; Repair fragmented wall panel corner.	EA	1	\$ 1,739.00	\$ 1,739.00	\$ 890.00	\$ 890.00	\$ 300.00	\$ 300.00	\$ 500.00	\$ 500.00	\$ 2,843.10	\$ 2,843.10	\$ 155.00	\$ 155.00	\$ 572.00	\$ 572.00	\$ 976.33	\$ 999.87
2n	WR.1.14, Roof; Patch roof panel hole cavity.	EA	1	\$ 1,739.00	\$ 1,739.00	\$ 235.00	\$ 235.00	\$ 300.00	\$ 300.00	\$ 300.00	\$ 300.00	\$ 2,843.10	\$ 2,843.10	\$ 620.00	\$ 620.00	\$ 180.00	\$ 180.00	\$ 758.00	\$ 888.16
3a	UF.1.01, Walls; Remove and replace failing wall to roof joint sealant.	LF	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3b	UF.1.02, Walls; Clean and grout efflorescence areas at wall panel vertical joints.	EA	23	\$ 342.00	\$ 7,866.00	\$ 295.00	\$ 6,785.00	\$ 800.00	\$ 18,400.00	\$ 750.00	\$ 17,250.00	\$ 501.58	\$ 11,536.34	\$ 155.00	\$ 3,565.00	\$ 273.00	\$ 6,279.00	\$ 479.00	\$ 445.23
3c	UF.1.03, Roof; Clean and patch damaged lifting lug grout.	EA	7	\$ 70.00	\$ 490.00	\$ 31.50	\$ 220.50	\$ 150.00	\$ 1,050.00	\$ 125.00	\$ 875.00	\$ 598.00	\$ 4,186.00	\$ 105.00	\$ 735.00	\$ 334.00	\$ 2,338.00	\$ 83.83	\$ 201.93
3d	UF.1.04, Roof; Clean and patch fragmented jacking pocket grout.	EA	6	\$ 152.00	\$ 912.00	\$ 2,385.00	\$ 14,310.00	\$ 150.00	\$ 900.00	\$ 250.00	\$ 1,500.00	\$ 1,359.54	\$ 8,157.24	\$ 185.00	\$ 1,110.00	\$ 419.00	\$ 2,514.00	\$ 895.67	\$ 700.08
3e	UF.1.05, Roof; Repair panel corner spill at iron joint.	EA	2	\$ 113.00	\$ 226.00	\$ 155.00	\$ 310.00	\$ 1,500.00	\$ 3,000.00	\$ 250.00	\$ 500.00	\$ 625.65	\$ 1,251.30	\$ 250.00	\$ 500.00	\$ 492.00	\$ 984.00	\$ 589.33	\$ 483.66
3f	UF.1.06, Roof; Repair panel spill at iron joint.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3g	UF.1.07, Roof; Repair panel spill at radial joint.	EA	17	\$ 86.00	\$ 1,462.00	\$ 155.00	\$ 2,635.00	\$ 150.00	\$ 2,550.00	\$ 200.00	\$ 3,400.00	\$ 625.65	\$ 10,636.05	\$ 220.00	\$ 3,740.00	\$ 192.00	\$ 3,264.00	\$ 130.33	\$ 232.66
3h	UF.1.08, Roof; Remove and replace radial joint sealant.	LF	2,428	\$ 8.50	\$ 20,638.00	\$ 12.50	\$ 30,350.00	\$ 12.83	\$ 31,151.24	\$ 16.50	\$ 40,062.00	\$ 16.05	\$ 38,969.40	\$ 32.00	\$ 77,696.00	\$ 37.50	\$ 91,050.00	\$ 11.28	\$ 19.41
3i	UF.1.09, Roof; Remove and replace grout (iron joint).	LF	147	\$ 66.00	\$ 9,702.00	\$ 62.00	\$ 9,114.00	\$ 70.00	\$ 10,290.00	\$ 75.00	\$ 11,025.00	\$ 78.90	\$ 11,598.30	\$ 125.00	\$ 18,375.00	\$ 141.50	\$ 20,800.50	\$ 66.00	\$ 88.34
3j	UF.1.10, Roof; Remove and replace peeling sealant (iron joint).	LF	147	\$ 22.00	\$ 3,234.00	\$ 35.00	\$ 5,145.00	\$ 70.00	\$ 10,290.00	\$ 50.00	\$ 7,350.00	\$ 31.77	\$ 4,670.19	\$ 15.00	\$ 2,205.00	\$ 145.00	\$ 21,315.00	\$ 42.33	\$ 52.68
3k	UF.1.11, Roof; Remove and replace damaged roof to wall anchor pocket sealant.	EA	7	\$ 154.00	\$ 1,078.00	\$ 15.50	\$ 108.50	\$ 50.00	\$ 350.00	\$ 75.00	\$ 525.00	\$ 1,683.13	\$ 11,781.91	\$ 95.00	\$ 665.00	\$ 285.00	\$ 1,995.00	\$ 73.17	\$ 336.80
3l	UF.1.12, Roof; Patch panel rib edge spill.	EA	7	\$ 526.00	\$ 3,682.00	\$ 225.00	\$ 1,575.00	\$ 150.00	\$ 1,050.00	\$ 200.00	\$ 1,400.00	\$ 1,663.74	\$ 11,646.18	\$ 155.00	\$ 1,085.00	\$ 206.00	\$ 1,442.00	\$ 300.33	\$ 446.53
3m	UF.1.13, Wall; Repair roof panel corner fragment.	EA	1	\$ 1,739.00	\$ 1,739.00	\$ 890.00	\$ 890.00	\$ 150.00	\$ 150.00	\$ 400.00	\$ 400.00	\$ 2,696.85	\$ 2,696.85	\$ 155.00	\$ 155.00	\$ 571.00	\$ 571.00	\$ 926.33	\$ 943.12
4	Furnish and Install Soil Erosion Control.	LS	1	\$ 8,048.00	\$ 8,048.00	\$ 3,320.00	\$ 3,320.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ 3,100.00	\$ 3,100.00	\$ 6,398.00	\$ 6,398.00	\$ 4,789.33	\$ 4,195.14
5	Restore Seeded Areas.	LS	1	\$ 4,881.00	\$ 4,881.00	\$ 5,450.00	\$ 5,450.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ 2,602.00	\$ 2,602.00	\$ 13,170.00	\$ 13,170.00	\$ 4,443.67	\$ 4,943.29
Contingency Items																			
6	Wall (all tanks); Inject wall panel cracks with chemical grout.	LF	130	\$ 76.00	\$ 9,880.00	\$ 27.00	\$ 3,510.00	\$ 85.00	\$ 11,050.00	\$ 250.00	\$ 32,500.00	\$ 54.92	\$ 7,139.60	\$ 85.00	\$ 11,050.00	\$ 66.00	\$ 8,580.00	\$ 62.67	\$ 91.99
TOTAL OF ITEMS 1 THROUGH 6					\$ 169,380.50		\$ 219,800.00		\$ 231,848.63		\$ 313,428.50		\$ 342,264.13		\$ 351,000.00		\$ 514,626.00		
Required Bid Security (Bid Bond 00350)					Bond		Bond		Bond		Bond		Bond		Bond		Bond		
Signed Bid Form 00300					Yes		Yes		Yes										
Acknowledge Receipt of All Addenda (Bid Form 00300, Paragraph 00300.3)					Yes		Yes		Yes		Yes		Yes		Yes		Yes*		
Experience Questionnaire (Doc. 00400)					Yes		Yes		Yes		Yes		Yes		Yes		Yes		
List of Proposed Subcontractors (Doc. 00450)					Yes		Yes		Yes		Yes		Yes		Yes		Yes		
Non-Collusion Affidavit (Doc. 00460)					Yes		Yes		Yes		Yes		Yes		Yes		Yes		
PA Public Works Employment Verification Form (Section 00511)					No		Yes		Yes		Yes		No		Yes		Yes		
Evidence of Bidder's & Sub-Bidder's Qual. To do Business in PA					N/A		N/A		N/A		N/A		N/A		N/A		N/A		

Required per Bid Form 00300, Paragraph 00300.6
6.1 Required bid security in the form of bid bond
6.2 Experience Questionnaire 00400
6.3 Proposed Subcontractors 00450
6.4 Evidence of bidder qualifications to do business in PA (if out of state)

* - Bid Form 00300 provides the Unit Price as an Extended Price for zero quantity items. Therefore, 00300 sum will not match bid on PennBid site. DQ.



UPPER UWCHLAN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

ORDINANCE *cJt21cJ- 0d*

AN ORDINANCE AMENDING CHAPTER 141 OF THE UPPER UWCHLAN TOWNSHIP CODE TITLED, "SEWERS" TO ADD A NEW ARTICLE III TITLED, "ON LOT SEWAGE DISPOSAL SYSTEMS" TO ADOPT REGULATIONS FOR INDIVIDUAL ON-LOT SEWER SYSTEMS.

BE IT ENACTED AND ORDAINED by the Board of Supervisors of the Township of Upper Uwchlan, Chester County, Pennsylvania, as follows:

SECTION 1. Chapter 141 of the Upper Uwchlan Township Code, titled, "Sewers" shall be amended to adopt a new Article III, titled "On Lot Sewage Disposal Systems" which shall provide as follows:

"ARTICLE III. INDIVIDUAL ON-LOT SEWER SYSTEMS.

§ 141-23. Authority; purpose.

- A. In accordance with municipal codes, the Clean Streams Law (Act of June 27, 1937, P.L. 1987., No. 394 as amended, 35 P.S. §§691.1 to 691.1001), and the Pennsylvania Sewage Facilities Act (Act of January 24, 1966, P.L. 1535 as amended 35 P.S. §750.1 et seq., known as Act 537), it is the power and the duty of Upper Uwchlan Township to provide for adequate sewage treatment and disposal facilities and for the protection of the public health by preventing the discharge of untreated or inadequately treated sewage. The Official Sewage Facilities Plan for Upper Uwchlan Township indicates that it is necessary to formulate and implement a sewage management program to effectively prevent and abate water pollution and hazards to the public health caused by improper treatment and disposal of sewage.
- B. The purpose of this Article is to provide for the regulation, inspection, maintenance, and rehabilitation of Individual Sewage Systems (as hereinafter defined); to further permit intervention in situations, which may constitute a public nuisance or hazard to the public health; and to establish penalties and appeal procedures necessary for the proper administration of a sewage management program.

§ 141-24. Applicability.

From the effective date of this Article, the provisions of this Article shall apply to all portions of the Township served by Individual Sewage Systems. Within such an area or areas, the provisions of this Article shall apply to all persons owning any property serviced by an Individual Sewage System and to all persons installing or rehabilitating such sewage systems.

§ 141-25. Permit Requirements.

- A. No Person shall install or construct an Individual Sewage System or install, construct, occupy or use a building or structure served by that Individual Sewage System without first obtaining a permit from the Sewage Enforcement Officer, employed by the Chester County Health Department and/or the Township, which permit shall indicate that the site and the plans and specifications of such system are in compliance with the provisions of the Clean Streams Law (35 P.S. §§691.1-691.1001) and the Pennsylvania Sewage Facilities Act (35 P.S. 750.1 et seq.) and the regulations adopted pursuant to those Acts.
- B. No system or structure designed to provide individual sewage disposal shall be covered from view until approval to cover the same has been given by a Sewage Enforcement Officer.
- C. Applicants for sewage permits shall be required to notify the Sewage Enforcement Officer of the schedule for construction of the permitted on-lot sewage disposal system so that inspection(s) in addition to the final inspection required by the Sewage Facilities Act shall be scheduled and performed by a Sewage Enforcement Officer.
- D. No building or occupancy permit shall be issued for a new building which will contain sewage generating facilities until a sewage permit has been obtained from a Sewage Enforcement Officer.
- E. No building or occupancy permit shall be issued and no work shall begin on any alteration or conversion of any existing structure, if said alteration or conversion will result in the increase or potential increase in sewage flows from the structure, until either the structure's owner receives a permit for alteration or replacement of the existing sewage disposal system or until the structure's owner and the appropriate officials of the Township receive written notification from a Sewage Enforcement Officer that such a permit will not be required. The Sewage Enforcement Officer shall determine whether the proposed alteration or conversion of the structure will result in increased sewage flows.

- F. No Individual On-lot Sewer System shall be modified or subject to rehabilitation (as defined herein) without the issuance of a permit by the Sewage Enforcement Officer.
- G. No Individual On-lot Sewer System shall be used or loaded in a manner which is inconsistent with the permit that was issued to authorize that system's installation or with the requirements of Chapter 73 of Title 25 of the Pennsylvania Code, as the same may be amended from time to time.
- H. Permit applications for Individual On-lot Sewer Systems which include electronically, mechanically, hydraulically or pneumatically operated or controlled devices shall be accompanied by the respective manufacturer's recommended maintenance schedule and product specifications.

§ 141-26. Inspections.

- A. The following steps shall be taken with regard to the On-Lot Sewage Disposal Systems in the Township:
 - 1. The Property Owner shall arrange for an initial inspection of the On-Lot Sewage System to be conducted by a Certified Inspector within three (3) years of the effective date of this Article for the purpose of determining the type and functional status of each sewage disposal system in the Township. The inspection shall be conducted in accordance with all applicable state and federal regulations. All costs associated with inspection, pumping and remediation shall be the responsibility of the Property Owner.
 - 2. Every three years after the initial inspection, the Property Owner shall have conducted another inspection for the purpose of determining the functional status and condition of the sewage disposal system.
 - 3. The Township or its designee shall send, via regular U.S. Mail, notice to the Property Owner that the On-Lot Sewage Disposal System is due for inspection and certification. Within thirty-five (35) days from receiving the notice from the Township, the Property Owner must schedule an appointment with a Certified Inspector provided however that no notice will be sent if the County records reflect that the system has been pumped, inspected and passed inspection within the last three (3) years.
 - 4. At the time of the scheduled inspection the On-Lot Sewage Disposal System shall be pumped by a Pumper/Hauler Business so that it may be inspected by the Certified Inspector. The Property Owner shall ensure that the person performing the inspection and the pumping is both a Certified Inspector and a Pumper/Hauler Business or that separate persons having those

qualifications perform the tasks.

5. The Certified Inspector shall prepare a written report of its inspection (including the name, company and certification number of the inspector and the date of inspection) and furnish a copy to the Property Owner, the Township and the Chester County Department of Health for entry into its tracking system. The Certified Inspector will provide the Property Owner with any specific conclusion(s) relative to the system inspection.
- B. To the extent that a Property Owner does not conduct the inspection and pumping of an On-Lot Sewage Disposal System as specified in subsection A above, the On-Lot Sewage Disposal System may be inspected by an Authorized Agent at any reasonable time after the Township provides ten (10) days prior written notice, sent by regular U.S. Mail, to the Property Owner. Such inspection may include a physical tour of the On-Lot Sewage Disposal System and its related components. The Township may also arrange for the pumping of that system. Any costs that the Township or the Authorized Agent incurs with the inspection and pumping shall be reimbursed by the Property Owner. Any delinquent costs are subject to the procedures of Sections 10 and 13.A.5 of this Article.
 - C. It is recommended that On-Lot Sewage Disposal Systems be routinely inspected by the Property Owner or a Responsible Management Entity in accordance with the following schedule:
 1. Semi Annually - Individual Residential Drip Irrigation Systems permitted in accordance with 25 Pa Code § 73.167.
 2. Once every three years - All Tanks, including but not limited to Treatment Tanks (i.e., Septic Tanks), Pump Tanks, and Distribution Boxes to be checked for surface discharge and settlement. Surface discharge or settlement of more than 4 inches for Distribution Boxes will require water tightness testing, verification of the structural integrity and proper slope, and the removal of any solids and scum buildup.

§ 141-27. Operation.

- A. Property Owners are responsible to properly operate the Sewage Facilities on their individual properties; this includes providing where necessary electrical power and access to communication service for the operation of the Sewage Facilities and to respond to any alarm notification.
- B. Property Owners shall not introduce or dispose of any substance into any Sewage Facility that would cause harm or in any way interfere with the proper operation of the Sewage Facility.
- C. Only normal domestic wastes shall be discharge into any Sewage Facilities. The

following shall not be discharged into the Sewage Facility:

1. Industrial waste;
2. Automobile oil and other non-domestic oil;
3. Toxic or hazardous substances or chemicals including, but not limited to, pesticides (insecticides, fungicides, herbicides, and anti-microbial agents), disinfectants (excluding household cleaners and non-incidental cleaning products), acids, paints, paint thinners, gasoline, and other solvents; or
4. Clean surface or ground water, including water from roof or cellar drains, springs, basement sump pumps, and french drains.
5. Food waste - Property Owners of On-Lot Sewage Disposal Systems will not install or use garbage disposals.

§ 141-28. Maintenance.

- A. After each inspection by a Certified Inspector, the Property Owner shall promptly complete any recommended repairs to the On-Lot Sewage System to prevent System Failure.
- B. Maintenance Agreements. Sewage Facilities operated and maintained by any person other than the Property Owner shall be through a maintenance agreement between the Property Owner and a Responsible Management Entity (RME). The RME shall provide the Property Owner an inspection and maintenance report within the three-year cycle and enter such report into the County Septage Management System.
- C. All Individual On-lot Sewage System pumping shall be performed in accordance with Chapter 504 of the Chester County Health Department regulations and shall also conform to the following minimum standards, unless other standards are specified by an equipment manufacturer.
 1. At all times, the Pumper Truck Operator's personal safety, as well as protection of the environment and the landowner's property, shall receive the highest priority.
 2. Tanks shall only be pumped from or through the manhole or access port (i.e., the largest tank opening).
 3. Tanks shall not be pumped from or through the observation or Inspection Port.
 4. When necessary to break up solids, backwashing with clean water or

material of a similar nature already on board the pumper truck may be employed. Mechanical means (scrapping, raking, etc.) are not necessary but may be employed, provided that appropriate safeguards are taken to prevent injury.

5. When backwashing, care shall be taken not to fill or refill the tank to a level greater than 12 inches below the elevation of the outlet pipe.
 6. No liquids or solids are to be discharged into or through the outlet pipe.
 7. Tanks shall be deemed to be cleaned when adequate organic solids are removed leaving only sufficient biological organism "seed" sludge and the total average liquid depth remaining in the tank is less than one inch.
 8. At all times, and in all phases of operations, the Pumper/Hauler shall comply with all laws and regulations regarding the activities associated with Individual On-Lot Sewage System maintenance and disposal of materials removed therefrom.
- D. Any person owning a building served by an Individual On-Lot Sewage System which utilizes any components or technologies deemed by DEP to require more detailed operation and maintenance requirements than provided for in this Article, including but not limited to Individual Residential Drip Irrigation Systems, Alternate Systems, or Experimental Systems shall be further subject to the maintenance responsibilities recommended by DEP for said system. The Township may impose additional requirements as deemed necessary to provide for the increased oversight inherent in these cases, including but not limited to entering an operation and maintenance agreement which shall outline the specific maintenance responsibilities for said system, collection of an annual fee and posting financial security with the Township to guarantee proper operation and maintenance of said system.
- E. Surface contouring shall be required as necessary to direct surface water and drainage away from all components of Individual On-Lot Sewage Systems.
- F. Any person owning a building served by an On-Lot Sewage Disposal System which contains an aerobic treatment tank shall follow the operation and maintenance recommendations of the equipment manufacturer and maintain a service agreement with said equipment manufacturer. A copy of the manufacturer's recommendations and a copy of the service agreement shall be submitted to the Township within six months of the effective date of this Article.
- G. Additional maintenance activity may be required as needed including, but not limited to, providing reasonable access to initial treatment unit, cleaning and unclogging of piping, servicing and the repair of mechanical and electrical equipment, leveling of Distribution Boxes, Tanks and lines, removal of obstructing

roots or trees, etc.

- H. Property Owners with an Individual Sewage System connecting to a public or private Sewage Facility shall operate and maintain their Individual Sewage Systems in accordance with any rules, regulations, and all other requirements of the receiving community sewage facility. This includes paying fees for collection, conveyance, treatment, and disposal of Sewage, and the maintenance of certain components of their Individual Sewage System unless such facilities and/or appurtenances are part of an Upper Uwchlan Township Municipal Authority system wherein these Property Owners pay fees (e.g., quarterly) which include part, or all, of such services.
- I. Property Owners with an Individual Sewage System connecting to a public or private Sewage Facility by means other than with a Building Sewer shall retain the services of an RME to maintain their Individual Sewage System unless the Individual Sewage System is maintained by the community sewage facility.

§ 141-29. Disposal of Septage.

- A. All Septage originating within the Township shall be disposed of in accordance with the requirements of the Solid Waste Management Act (Act 97 of 1980, 35 P.S. §§6018.101 et seq.) and all other applicable laws and at sites or facilities approved by DEP.
- B. Pumper/Haulers operating within the Township shall operate in a manner consistent with the provisions of the Pennsylvania Solid Waste Management Act (Act 97 of 1980, 35 P.S. §§6018.101-6018.1003), all other applicable laws, and Chester County Health Department regulations.

§ 141-30. System Rehabilitation.

- A. No person shall operate or maintain an Individual On-lot Sewage System in such a manner to constitute a System Failure. Any suspected System Failure shall be reported to the Chester County Health Department, who shall make a final determination as to functional status and rehabilitation measures required. Any person owning a building served by an On-lot Sewage Disposal System determined to be in a state of System Failure by the Chester County Health Department shall perform all corrective measures required to abate the System Failure. The Chester County Health Department shall have the authority to require abatement of any System Failure by the following methods: cleaning, repair or replacement of components of the existing system, adding capacity or otherwise altering or replacing the system's initial treatment unit, expanding the existing disposal areas, replacing the existing disposal area, replacing the system with a Retaining Tank, frequent pumping, or any other alternative appropriate for the specific site.

- B. In accordance with all applicable laws and after written notice has been provided to the Property Owner, an Authorized Agent shall have the right to enter, upon land for the purposes of inspections described in this section. Such inspection may include a physical tour of the Individual Sewage System and its related components, the taking of samples from surface water, wells, or other groundwater sources, the sampling of the contents of the sewage disposal system itself, and/or the introduction of a traceable substance into the interior plumbing of the structure served to ascertain the path and ultimate destination of wastewater generated within the structure. An Authorized Agent shall inspect systems known to be, or alleged to be, malfunctioning. Should said inspections reveal that the system is indeed malfunctioning, the Authorized Agent shall order action to be taken to correct the malfunction. If total correction cannot be done in accordance with the regulations of DEP including, but not limited to, those outlined in Chapter 73 of Title 25 of Pennsylvania Code or, is not technically or financially feasible in the opinion of the Authorized Agent and a representative of DEP; then action by the property owner to mitigate the malfunction shall be required.
- C. If there arises a geographic area where numerous On-Lot Sewage Disposal Systems are in System Failure, a resolution of these area wide problems may necessitate detailed planning and a revision to the portion of the Sewage Facilities Plan pertaining to areas affected by such malfunctions. If a DEP authorized Official Sewage Facilities Plan Revision has been undertaken, repair or replacement of individual sewage disposal systems in System Failure within the area affected by the revision may be delayed, pending the outcome of the plan revision process. However, immediate corrective action will be compelled whenever a System Failure, as determined by Township officials and/or DEP, represents a serious public health or environmental threat.
- D. A written notice of violation shall be issued to any person who is the owner of any property which is found to be served by an On-Lot Sewage Disposal System in System Failure or which is discharging sewage without a permit.
- E. Within fourteen (14) days of notification by the Township that a System Failure has been identified, the property owner shall make application to the Sewage Enforcement Officer for a permit to repair or replace the failing system. Within 45 days of initial notification by the Township, construction of the permitted repair or replacement shall commence provided that all necessary permits have been issued. Within 60 days of the original notification by the Township, the construction shall be completed unless seasonal or unique conditions mandate a longer period, in which case the Township may set an extended completion date or mandate the use of a Retaining Tank.
- F. Should none of the remedies described in this Article be effective in eliminating the System Failure of an existing Individual On-Lot Sewage System, the Property

Owner is not absolved of responsibility for that System Failure. The Township and the Chester County Health Department may require whatever action is necessary to lessen or mitigate the System Failure to the extent necessary.

§ 141-31. Duties and Responsibilities of Responsible Management Entities (RME).

- A. Registration Requirements - Any RME offering or performing installation, inspection, operation, or maintenance services on any Sewage Facility in the Township shall meet the licensing and certification requirements as set forth in the definition of a Responsible Management Entity in this Article.
- B. Reporting Requirements - RMEs shall provide the Property Owner a copy of any and all inspection and maintenance reports including any supplemental report. In addition, RMEs shall supply applicable information to the County. The report shall be routed via the County Septage Management System.
- C. Evaluations of Sewage Facilities - Any person performing an evaluation of a Sewage Facility for a real estate transaction or a mortgage refinancing shall also be a registered RME and comply with reporting requirements above.
- D. Emergency Services - RMEs shall include emergency services in all service and maintenance agreements that provide 24-hour contact information. This contact information shall be posted on or near a component of the sewage system in plain sight. If the RME is not licensed to pump and transport liquid waste by the Chester County Health Department, the RME shall provide a subcontract with a licensed liquid waste transporter who would be on 24-hour call to abate any nuisance or Malfunction.

§ 141-32. Performance of Work by Township and Liens.

The Township, upon written notice from the Chester County Health Department that an imminent health hazard exists due to failure of the Property Owner to maintain an Individual On-Lot Sewage System, shall immediately notify the Property Owner in writing of the determination. The Property Owner shall within five (5) working days act to obtain a permit and promptly commence and complete construction per the agreed timeline with the Chester County Health Department and the Township. If the Property Owner fails to meet the agreed schedule, the Township shall have the authority to perform, or contract to have performed, the work required. The Property Owner shall be charged for the work performed and, if necessary, a lien shall be entered therefore in accordance with the Municipal Claims and Tax Liens Act, 53 P.S. §7101 et seq.

§ 141-33. Administration.

- A. The Township shall fully utilize those powers it possesses through enabling statutes

and ordinances to affect the purposes of this Article.

- B. The Township shall employ qualified individuals to carry out the provisions of this Article and may delegate to the Municipal Authority the authority to carry out certain obligations and powers of the Township pursuant to this Article. The Township may also contract with private qualified persons or firms as necessary to carry out the provisions of this Article. The Township may appoint its Engineer, the Township Manager or Municipal Authority as its Authorized Agent to act on its behalf.
- C. The Township's Authorized Agent shall have the right to enter upon land, following notice, for the purpose of administering the provisions of this Article as specified above, subject to compliance with all applicable laws.
- D. All records pertaining to sewage permits, building permits, occupancy permits and all other aspects of the Sewage Management Program shall be made available for inspection consistent with the provisions of the Open Records Law.
- E. The Board of Supervisors shall establish all administrative procedures necessary to properly carry out the provisions of this Article.
- F. The Board of Supervisors may by Resolution establish a fee schedule, and authorize the collection of fees, to cover the cost to the Township of administering this Article.

§ 141-34. Appeals.

Appeals from final decisions of the Township or any of its Authorized Agents under this Article shall be made to the Upper Uwchlan Township Municipal Authority, who is the designated agent of the Board of Supervisors to hear such appeals. Such appeal shall be made in writing within forty-five (45) days from the date of written notification of the action being appealed. The appellant shall be entitled to a hearing before the Municipal Authority at its next regularly scheduled meeting, if a written appeal is received at least seven (7) days prior to that meeting. If the appeal is received within seven (7) days of the next regularly scheduled meeting, the appeal shall be heard at the next regularly scheduled meeting unless another mutually agreed date is selected. Both the appellant and the Municipal Authority may have technical and/or legal representation if desired. The Municipal Authority shall thereafter affirm, modify, or reverse the aforesaid decision. The hearing may be postponed for a good cause shown by the appellant or the Municipal Authority. Additional evidence may be introduced at the hearing provided that it is submitted with the written notice of appeal. A decision shall be rendered in writing within two (2) regularly scheduled meetings of the Upper Uwchlan Township Municipal Authority. In the event an Appeal is requested with respect to a Chester County Health Department designated "imminent health hazard", the Property Owner and Municipal Authority shall work together to hold a hearing and render a decision within the timelines required for Property Owner action under this Article.

§ 141-35. Fines and Penalties.

- A.
 1. Any person who fails or refuses to comply with any provision of this Article shall be in violation of this Article which violation shall be enforced by action brought before a District Justice in the same manner provided for the enforcement of summary offenses under the Pennsylvania Rules of Criminal Procedure.
 2. Upon conviction, such person shall pay a fine of not less than \$100 and not more than \$1,000 (or such other maximum fine as then may be provided or permitted by applicable law) per violation, together with costs of prosecution, including, but not limited to, reasonable attorney's fees, in each case. Upon default in payment of the fine and costs, such person shall be subject to imprisonment to the maximum extent allowed by law for the punishment of summary offenses.
 3. Each day, or portion thereof, that a violation is found to exist, and each provision of this Article that is found to have been violated, shall constitute a separate offense each punishable by the aforesaid fine and imprisonment.
 4. All fines and costs collected for the violation of this Article shall be paid to the Township.
 5. If the payment of fines and costs to the Township are noted as delinquent, the Township shall utilize all current procedures for collection including liens.
- B. Other remedies. The provisions of Subsection A above (including, but not limited to, the manner of enforcement of a violation of this Article and the fine and the penalty for such violation) shall not be in limitation of, but shall be in addition to:
 1. Such other or further remedies or enforcement actions as may be available to the Township and/or the Municipal Authority under other provisions of this Article or under other law (including, but not limited to, other applicable local, state or federal law) or in equity (including, but not limited to, injunctive relief) for any actions or inactions which violate any provision of this Article. Nothing in this section or other provision of this Article shall be deemed to preclude the Township and/or Authority from pursuing such other or further remedies concurrently.
 2. Such other or further remedies or enforcement actions as may be available to any governmental entity, other than the Township, having jurisdiction, under any applicable local, state, or federal law, or in equity (including, but not limited to, injunctive relief), for any actions or inactions which violate any provision of this Article.

§ 141-36. Definitions.

Unless the context specifically and clearly indicates otherwise, the meaning of terms used in this Article shall be as follows:

- A. "Absorption Area" shall mean a component of an individual or community sewage system where liquid from a Treatment Tank seeps into the soil; it consists of an aggregate-filled area containing piping for the distribution of liquid and the soil or sand/soil combination located beneath the aggregate.
- B. "Act 537 Plan" shall mean a Municipality's Official Plan as defined in the Pennsylvania Sewage Facilities Act, as of January 24, 1966, P.L. 1535 (1965), No. 537, as amended, 35 P.S. §§750.1-750.20a ("Sewage Facilities Act" or "Act 537").
- C. "Authorized Agent" shall mean a Certified Sewage Enforcement Officer (SEO), professional engineer or sanitarian, plumbing inspector, soils scientist, water quality coordinator, Chester County Health Department Licensed Liquid Waste Hauler or any other person who is designated to carry out the provisions of this Article as the agent of the Board or Chester County Health Department.
- D. "Board" shall mean the Board of Supervisors of Upper Uwchlan Township, Chester County, Pennsylvania.
- E. "Building Sewer" shall mean the piping carrying liquid wastes, from a building to the Treatment Tank, Holding Tank, Grinder Pump Tank, or Retaining Tank.
- F. "Certified Inspector" shall mean a person who has obtained a certification from the Pennsylvania Sewage Management Association to inspect On-Lot Sewage Disposal Systems.
- G. "Chester County Health Department (CCHD)" shall mean the designated Sewage Enforcement Officer (SEO) for Upper Uwchlan Township or an employee of the Chester County Health Department.
- H. "Cleanout" shall mean a component of a Sewage Facility that provides access for inspection and cleaning the Building Sewer or other pipes.
- I. "DEP/the Department" shall mean the Department of Environmental Protection of the Commonwealth of Pennsylvania.
- J. "Distribution Box" shall mean a Tank with one inlet that provides equal distribution

of Effluent from a Treatment Tank through two or more outlets.

- K. "Domestic Sewage" shall mean Sewage derived principally from dwellings, business buildings, institutions and the like, and may not contain groundwater, surface water or storm water.
- L. "Effluent" shall mean a liquid waste discharged from a sewage system or component of a sewage system.
- M. "Improved Property" shall mean any property or lot within the Township upon which there is an erected structure intended for continuous or periodic habitation, occupancy or use by human beings or animals and from which structure Sewage shall or may be discharged.
- N. "Individual Sewage System" shall mean a Sewage Facility and all of its components serving a single lot. Individual Sewage Systems include the following:
 - i. Individual On-Lot Sewage Systems rely on a subsurface absorption or surface infiltration system for the renovation of Sewage through native soils prior to disposal or the retention of Sewage in a Retaining Tank. Individual on-lot sewage systems are permitted through the Chester County Health Department and include but are not limited to the following systems defined by 25 Pa Code § 73.1:
 - (a) Conventional sewage systems;
 - (b) Alternate sewage systems;
 - (c) Experimental sewage systems;
 - (d) Bonded disposal systems;
 - (e) Individual residential spray irrigation systems;
 - (f) Retaining tanks/ Holding tanks; and
 - (g) Grey Water systems.
 - ii. Individual Sewerage Systems rely on other means than native soils to renovate Sewage prior to disposal or retention in a Retaining Tank. Individual sewerage systems include but are not limited to the following:
 - (a) Gravity sewer connections - Where the Building Sewer connects to a gravity service lateral of a community sewage facility;

- (b) Pressure sewer connections - Where the Building Sewer is connected to a Tank containing a pump which conveys Sewage through a pressure sewer to either a gravity or pressure service lateral of a community sewage facility; and
 - (c) Small flow treatment facilities - An Individual sewerage system permitted by the DEP that is designed to adequately treat Sewage flows no greater than 2,000 gallons per day with final disposal to surface waters, a dry stream channel, or storm water collection system.
- 0. "Industrial Waste" shall mean any solid, liquid or gaseous substance or waterborne wastes or form of energy rejected or escaping from any industrial, manufacturing, trade or business process or from the development, recovery or processing of natural resources, as distinct from domestic sanitary sewage.
- P. "Inspection Port" shall mean a component of a Sewage Facility that provides sufficient access for the inspection of the contents of a Tank.
- Q. "Maintenance" shall mean those actions required to provide for the long-term proper functioning of a sewage facility.
- R. "Malfunction" shall mean the condition which occurs when an Individual On-lot Sewage System fails to function in the expected or satisfactory manner per normal mode of operation.
- S. "Municipal Authority" shall mean the Upper Uwchlan Municipal Authority.
- T. "Official Sewage Facilities Plan" shall mean a comprehensive plan for the provision of adequate sewage disposal systems, adopted by the Board of Supervisors and approved by the Pennsylvania Department of Environmental Protection, pursuant to the Pennsylvania Sewage Facilities Act.
- U. "On-lot Sewage Disposal System" shall mean any system for disposal of domestic sewage involving pretreatment and subsequent disposal of the clarified sewage into a subsurface soil absorption area or retaining tank. For purposes of this Article, the term only refers to individual sewage systems.
- V. "Person" shall mean any individual, association, public or private corporation for profit or not for profit, partnership, firm, trust, estate, department, board, bureau of

agency of the Commonwealth, political subdivision, municipality, district, authority, or any other legal entity whatsoever which is recognized by law as the subject of rights and duties. Whenever used in any clause prescribing and imposing a penalty or imposing a fine or imprisonment, the term person shall include the members of an association, partnership or firm and the officers of any local agency or municipal, public or private corporation for profit or not for profit.

- W. "Planning Module for Land Development" shall mean a revision to, or exception to the revision of, the Official Plan, submitted in accordance with DEP regulations, and in connection with the request for approval of a Subdivision or land development plan.
- X. "Primary Area" shall mean an area on a lot, tract or parcel of land that has been tested by the Sewage Enforcement Officer and found suitable, based upon the then current DEP site requirements, for the installation of an Individual On-lot Sewage System, and which will be preserved and protected from alteration for installation of the initial Individual On-lot Sewage System for sewage generated on that lot, tract, or parcel (see Replacement Area)
- Y. "Property Owner" shall mean any person vested with ownership, legal or equitable, sole or partial, of any property located in the Township.
- Z. "Pump Tank" shall mean a Tank or chamber or pump that receives and temporarily stores Sewage or partially treated Sewage from which it is pumped or dosed. Pump Tanks include:
 - 1. Effluent Pump Tank - A Tank that receives Septic Tank Effluent or partially treated Sewage and conveys the liquid portion of the wastewater to absorption system or other component of a Sewage Facility. Effluent pumps also include: Dosing Pumps, Lift Pumps, Dosing Siphons, and other specialized discharge control mechanisms; and
 - 2. Grinder Pump Tank - A Tank that receives Domestic Sewage and contains a pump that macerates waste solids prior to ejection.
- AA. "Pumper/Hauler Business" shall mean any sole proprietor, company, partnership or corporation which engages in cleaning any or all components of a community or Individual On-lot Sewer System and evacuates and transports the Septage cleaned therefrom, whether for a fee or free of charge. Said Pumper/Hauler Business shall be licensed by the Chester County Department of Health and shall provide said Department with a record of each pumping of on-lot sewage disposal systems in the Township.

- BB. "Pumpers Report/Receipt" - Chester County Sludge/Septage Manifest and Report (Manifest) Form which shall be used by all licensed Pumpers/Haulers to report each pumping of on-lot sewage disposal systems in the Township.
- CC. "Pumper/Hauler Truck Operator" shall mean a natural person who engages in cleaning any or all components of a community or individual on-lot sewage system and evacuates and transports the Septage cleaned therefrom, whether for a fee or free of charge.
- DD. "Regulations" shall mean the Pennsylvania Code, Title 25, Chapters 71, 72 and 73.
- EE. "Rehabilitation" shall mean work done to modify, alter, repair, enlarge or replace an existing on-lot sewage disposal system.
- FF. "Replacement Area" shall mean an area on a lot, tract, or parcel of land, separate from the Primary Area, that has been tested by the Sewage Enforcement Officer and found suitable, based upon the then current DEP site requirements, for the installation of an on-lot system, and which will be preserved and protected from alteration for potential future use if the Primary Area on the same lot, tract, or parcel shall fail for any reason. (see Primary Area).
- GG. "Responsible Management Entity" or "RME" shall mean an individual, firm or corporation experienced in the operation and maintenance of Sewage facilities, who is a licensed Pumper Hauler Business with the Chester County Health Department and/or a Pennsylvania Sewage Management Association Certified Inspector. RME's may also include through a general oversight agreement with the Township such entities as Municipal Authorities, Investor Owned Public Utility Companies and Homeowner Associations.
- HH. "Retaining Tank" shall mean a Tank that retains Sewage and is designed and constructed to facilitate ultimate disposal of the Sewage to another site. Retaining Tanks include:
1. Chemical toilet - A permanent or portable non-flushing toilet using chemical treatment in a Retaining Tank for odor control.
 2. Holding Tank - A Tank, whether permanent or temporary, to which Sewage is conveyed by a water carrying system. Said Tank is part of a closed system which does not discharge to the ground.
 3. Privy - A Tank designed to receive Sewage where water under pressure is

not available.

4. Incinerating toilet - A device capable of reducing waste materials to ashes.
 5. Composting toilet - A device for holding and processing human and organic kitchen waste employing the process of biological degradation through the action of microorganisms to produce a stable, humus-like material.
 6. Recycling toilet - A device in which the flushing medium is restored to a condition suitable for reuse in flushing.
- II. "Septage" shall mean the residual scum, sludge and other materials pumped from septic or aerobic treatment tanks and the systems they serve.
- JJ. "Sewage" shall mean any substance that contains any of the waste products or excrement or other discharge from the bodies of human beings or animals and any noxious or deleterious substance being harmful or inimical to the public health, or to animal or aquatic life or to the use of water for domestic water supply or for recreation or any substance which constitutes pollution under the Clean Streams Law, 35 PS §§ 691.1- 691.1001, as amended.
- KK. "Sewage Enforcement Officer (SEO)" shall mean a person certified by the State Board for the Certification of Sewage Enforcement Officers, who is employed by the Township or Chester County Health Department (CCHD) to administer the provisions of this Article, the provisions of the Act, and the regulations in PA Code Title 25, Chapters 71, 72 and 73.
- LL. "Sewage Facility" shall mean an all-inclusive term for a Sewage collection, conveyance, treatment, and disposal system.
- MM. "Sewage Management District" shall mean any area or areas of the Township designated in the Official Sewage Facilities Plan adopted by the Board of Supervisors as an area for which a Sewage Management program is to be implemented.
- NN. "Sewage Management Program" shall mean a comprehensive set of legal and administrative requirements encompassing the requirements of this Article, the Sewage Facilities Act, the Clean Streams Law, the regulations promulgated thereunder and such other requirements adopted by the Board of Supervisors to

effectively enforce and administer this Article

00. "Sewer System" shall mean a system of pipes that collect Sewage from several Improved Properties; Sewer Systems include Pressure and Gravity Sewer Systems or any combination of both.
- PP. "Subdivision" shall mean the division or re-division of a lot, tract or other parcel of land into two or more lots, tracts, parcels or other divisions of land, including changes in existing lot lines. The enumerating of lots shall include as a lot that portion of the original tract or tracts remaining after other lots have been subdivided therefrom.
- QQ. "System Failure" shall mean the condition in which one or more malfunctions results in pollution to the ground or surface waters, contamination of private or public drinking water supplies, nuisance problems or a hazard to public health.
- RR. "Tank" shall mean a water-tight receptacle which liquids pass through or are retained in.
- SS. "Tank Access Cover" shall mean a component of a Sewage Facility that provides access for inspection, cleaning and maintenance of the internal components of a Tank.
- TT. "Township" shall mean Upper Uwchlan Township, Chester County, Pennsylvania.
- UU. "Treatment Tank" shall mean a Tank designed to provide a suitable environment for the bacterial decomposition or disinfection of Sewage. Treatment Tanks include:
1. Septic Tank - A Treatment Tank or compartment of another Tank that provides for the anaerobic decomposition and the physical separation of solids in Sewage.
 2. Aerobic Sewage Treatment Tank - A Treatment Tank or compartment of another Tank that provides for the aerobic biochemical stabilization of solids in Sewage.
 3. Filter Tank - A Treatment Tank or compartment of another Tank that contains a media to which microorganisms attach and provide a suitable environment for the biochemical stabilization of solids in Sewage.
 4. Chlorine Contact Tank - A Treatment Tank or compartment of another Tank that provides a suitable environment for the disinfection of Effluent."

SECTION 2. Repealer.

All Ordinances or Resolutions or parts of Ordinances or Resolutions, insofar as they are inconsistent herewith, are hereby repealed.

SECTION 3. Severability.

If any sentence, clause, section or part of this Ordinance is for any reason found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections, or parts of this Ordinance, it being the intent of Upper Uwchlan Township, Chester County that such remainder shall be and shall remain in full force and effect.

SECTION 4. Effective Date.

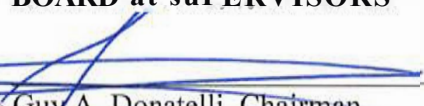
This Ordinance shall become effective within five (5) days of its adoption.

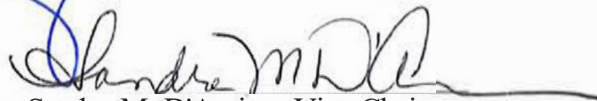
ENACTED this 11 day of Wt & Jc, 2019.

ATTEST:

**UPPER UWCHLAN TOWNSHIP
BOARD of SUPERVISORS**


Gwen A. Jonik, Township Secretary


Guy A. Donatelli, Chairman


Sandra M. D'Amico, Vice-Chairman

Jamie W. Goncharoff, Member



**DECEMBER 2018 / JANUARY 2019 REPORT
UUT MUNICIPAL AUTHORITY
PUBLIC WORKS DEPARTMENT**

The following projects are underway:

Ongoing:

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

Brian Owens continues on the properties as follows:

Complete:

- Rte. 100 WWTP
 1. General cleaning of station and office
 2. Electrician to be scheduled for exterior lighting and service box repairs on entire property
 3. Water infiltration from groundwater in Building 2A has been plugged and is being monitored. Water is present. We will use water stop epoxy to repair the infiltration into the area. This repair would have been completed if the water break did not occur and change scheduling.
 4. A new primer valve was installed for the floor drain in the Blower Building
 5. Repairs for water damage include a hot water heater installation, complete interior replacement of schedule 80 piping installed in chemical building, piping and valves replaced in both chemical and screening room, still no electric in pump building at lagoon
 6. Painting continues
- Byers Station Effluent PS
 1. General cleaning of station
- Byers Station Influent PS
 1. General cleaning of station
- Ewing PS
 1. General cleaning of station

- **Ewing West Vincent PS**
 - 1. General cleaning of station**
- **Ewing Tract Effluent Disposal System**
 - 1. No work orders for this location**
- **Eagle Hunt**
 - 1. Cleaning of this location**
- **Windsor Ridge**
 - 1. General cleaning**
- **Saybrooke WWTP**
 - 1. General cleaning of station**
- **Seabury**
 - 1. There are currently no work orders for this facility.**
- **Yarmouth PS1**
 - 1. There are currently no work orders for this facility.**
- **Yarmouth PS2**
 - 1. There are currently no work orders for this facility.**
- **St Andrews Brae**
 - 1. General cleaning of station**
- **St Andrews Brae PS (at St Andrews intersection)**
 - 1. There are currently no work orders for this facility.**
- **Reserve Lagoon**
 - 1. General cleaning of station**
- **Reserve at Eagle PS1**
 - 1. Trash removal and general cleaning**
- **Reserve at Eagle PS 2**
 - 1. General cleaning of station**
 - 2. Lock replacement**
- **Upland Farms PS/ Reserve at Waynebrook**
 - 1. There are currently no work orders for this facility.**
- **Greenridge**
 - 1. ONCE AGAIN completed fence repairs. Facility needs new fencing. Constantly repairing fence at this location.**
- **Stonehedge**
 - 1. General cleaning of station**

- **Marsh Harbour WWTP**
 1. General cleaning and trash removal
 2. Roofing has been completed by the contractor; siding to start soon
 3. General rehab and painting continues
 4. All areas of the roof have been completed; Siding has been completed as of January 23, 2019
 5. New gutter system installed; materials supplied by Township M/A; all has been installed by Decks and More.
 6. All interior wall damage has been repaired by M/A maintenance dept.
 7. New exterior lighting will be installed by Township M/A
 8. Machinery and equipment not in use will be removed from the site and stored if it is of any value or discarded if it is junk.
 9. New pipeline has been installed in screening room by Brian Norris.
 10. New keyed alike locks to be installed at rear entrance doors
 11. Lock has been replaced at rear entrance gate.
- **Marsh Harbour PS**
 1. There are currently no work orders for this facility.
- **Meadowcreek**
 1. There are currently no work orders for this facility.
- **Eaglepointe**
 1. Trash collection and cleaning
 2. Tanks pressure washed, repaired and covers placed
 3. Installed railings per insurance company request
- **Heron Hill PS**
 1. There are currently no work orders for this facility.
- **Lakeridge WWTP**
 1. General cleaning and trash removal
 2. Pressure washed walls and floor again after overflow
 3. All underground piping has been marked out for the start of construction on the Lakeridge Tank project
- **Lakeridge Pump Station**
 1. The station has been cleaned and painted.
 2. Floors are sealed
- **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 51 PA 1-Call tickets during the month of January.**

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

Trappe Office

350 West Main Street

Suite 200

Trappe, PA 19426

0 610-495-2103

VIA ELECTRONIC MAIL

February 19, 2019

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

RE: Upper Uwchlan Township Municipal Authority
Lakeridge Wastewater Treatment Facilities Sludge Holding Tank Replacement
Contract LSHT - A - General Construction
ARRO #10270.53

Dear Gentlemen:

Please find enclosed a copy of Lakeside Sludge Tank Replacement Application for Payment #1 in the amount of \$11,934.00 submitted by Blooming Glen Inc. for work completed through February 8, 2019. This application includes payment for bonds and insurance as well as a partial payment for mobilization.

We recommend that the Authority approve payment to Blooming Glen Contractors, Inc. in the amount of \$11,934.00, which represents the value of the work completed less ten percent (10%) retainage.

If you have any questions, please feel free to contact me at Kevin.McAghon@arroconsulting.com or by telephone at 610-495-2115.

Sincerely,

'J::e<dnU,A

Kevin McAghon, P.E.

KMcA:car

Enclosure

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

APPLICATION FOR PAYMENT NO.1

TO (OWNER): Upper Uwchlan Township PROJECT NO.: LHST-A PERIOD TO: 02/08/19

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

CONTRACT FOR: Site Work-Lakeridge Sludge Holding Tank

PAGE 1 OF 2

CHANGE ORDER SUMMARY		ADDITIONS	DELETIONS
Change Orders approved in previous months by Owner			
TOTAL			
Approved this Month			
Number	Date Approved		
TOTALS			
Net change by Change Orders			

1. ORIGINAL CONTRACT SUM	\$ 520,500.00
2. Net change by Change Orders	\$
3. CONTRACT SUM TO DATE (Line 1±2)	\$ 520,500.00
4. TOTAL COMPLETED TO DATE (Columns B+C on Page 2)	\$ 13,260.00
5. RETAINAGE: 10 % of Completed Work	\$ 52,050.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5)	\$ 11,934.00
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Application)	\$
8. CURRENT AMOUNT DUE	\$ 11,934.00
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)	\$ 508,566.00

CONTRACTOR'S CERTIFICATION:

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

Dated 7-Feb 2019

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

By CD A J. Henry (Authorized Signature)

Carly Henry, President/Asst. Sect.

Payment of the above CURRENT AMOUNT DUE is recommended.

Dated F/5/11/4M t 7 2017

ARRO CONSULTING, INC.

By)) : ENGINEER (Authorized Signature)

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

1:Uobspecs\Fon-ns\Plm\ApplS.XLS (LS)

APPLICATION FOR PAYMENT NO. 1

-J

CONTRACT FOR: Site Work-Lakeridge Sludge Holding Tank

PERIOD TO: 02/08/11

Project# LHST-A

PAGE 2 OF 2

Item No.	DESCRIPTION OF WORK	CONTRACTOR's Schedule of Values - A				WORK COMPLETED			
		Unit	Unit Price	Quantity	Ext. Price	Previous Applic - B		This Period - C	
						Quantity	Amount	Quantity	Amount
1	Bonds & Insurance	LS	\$11,895.00	1	\$11,895.00			1	\$11,895.00
2	Mobilization	LS	\$2,900.00	1	\$2,900.00			0.471	\$1,365.00
3	Demobilization	LS	\$1,555.00	1	\$1,555.00				
4	As-Builts & Close-Out	LS	\$1,166.00	1	\$1,166.00				
5	Excavate & Shore For Precast	LS	\$57,570.00	1	\$57,570.00				
6	Backfill Vault, Remove Shoring	LS	\$18,386.00	1	\$18,386.00				
7	Backfill Sludge Pit & New Floor	LS	\$8,968.00	1	\$8,968.00				
8	Furnish & Set Precast Tank	LS	\$80,088.00	1	\$80,088.00				
9	Pour in Place Vault Concrete	LS	\$7,851.00	1	\$7,851.00				
10	F&I Hatches	LS	\$11,107.00	1	\$11,107.00				
11	Mechanical Work, Sludge Tank	LS	\$120,524.00	1	\$120,524.00				
12	Mechanical Work, Odor Control	LS	\$35,671.00	1	\$35,671.00				
13	Replace Blower	LS	\$13,879.00	1	\$13,879.00				
14	Replace Unit Heaters	LS	\$12,900.00	1	\$12,900.00				
15	Demolition of Sludge Pit	LS	\$23,518.00	1	\$23,518.00				
16	Yard Piping to New Vault	LS	\$17,569.00	1	\$17,569.00				
17	Yard Piping Connections	LS	\$14,813.00	1	\$14,813.00				
18	Temp & Perm Fence Work	LS	\$14,820.00	1	\$14,820.00				
19	Electrical Trench Work	LS	\$10,863.00	1	\$10,863.00				
20	Bollards	LS	\$2,739.00	1	\$2,739.00				
21	Grass Restoration	LS	\$4,922.00	1	\$4,922.00				
22	Asphalt	LS	\$25,479.00	1	\$25,479.00				
23	E&S	LS	\$7,157.00	1	\$7,157.00				
24	Unclassified Excavation	CY	\$94.00	10	\$940.00				
25	2A Backfill	CY	\$56.00	10	\$560.00				
26	Misc Concrete	CY	\$434.00	5	\$2,170.00				
27	Rock Removal	CY	\$299.00	10	\$2,990.00				
28	Permits & Inspections	LS	\$7,500.00	1	\$7,500.00				
Totals					\$520,500.00		0		\$13,260.00
CO No.	CHANGE ORDERS								
1									
2									
Totals									