Water Department

Expense Budget for FY2018

11-Apr-18

Expended Period 3/11/2018 1:21:55 PM - 4/11/2018

Budget Month 10

	endine en c'haf ar festell an el ar e. Bu	ıdgeted	Revised	Expended This Period	Expended YTD	Available	Percent Remaining
Operating	g Budget						
E4501 Sal	ary						
51120	Superintendent	93,982	93,982	7,222.40	71,501.76	22,480.24	24%
51490	Longevity, Superintendent	1,500	1,500	0.00	1,500.00	0.00	0%
Sub Total		95,482	95,482	7,222.40	73,001.76	22,480.24	24%
E4502 Wa	ages						
51130	Laborers, Full Time	113,016	113,016	8,660.16	85,735.58	27,280.42	24%
51131	Clerical, Full Time	34,395	34,395	2,645.76	26,193.02	8,201.98	24%
51141	Seasonal Wages	7,000	7,000	0.00	0.00	7,000.00	100%
51200	Outside Help, Labor	2,933	2,933	283.20	502.14	2,430.86	83%
51310	Overtime, Labor	42,398	42,398	1,217.83	25,709.88	16,688.12	39%
51490	Longevity	988	988_	0.00	987.50	0.50	0%
Sub Total	Wages	200,730	200,730	12,806.95	139,128.12	61,601.88	31%
E4505 Ot	her						
51920	Uniform Allowance	2,730	2,730	0.00	2,730.00	0.00	0%
51970	Meal Allowance	1,400	1,400	0.00	450.00	950.00	68%
52100	Electricity	40,000	40,000	2,567.94	30,600.13	9,399.87	23%
52106	PWB Electricity	3,200	3,200	1,140.34	6,772.83	-3,572.83	-112%
52150	Gas	2,600	2,600	74.13	1,388.34	1,211.66	47%
52156	PWB Gas	2,200	2,200	160.15	1,734.11	465.89	21%
52400	Building Maintenance	1,500	1,500	0.00	2,604.85	-1,104.85	-74%
52406	PWB Building Maintenance	2,800	2,800	140.99	2,138.36	661.64	24%
52415	Property Maintenance, Wellfi		14,000	524.35	13,397.60	602.40	4%
52416	PWB Cleaning	1,000	1,000	0.00	230.00	770.00	77%
52420	Systems Maintenance	17,000	17,000	1,234.93	29,074.52	-12,074.52	-71%
52430	Systems Maintenance, Emerg		25,000	0.00	14,844.68	10,155.32	41%
52450	Vehicle Maintenance	2,000	2,000	0.00	2,072.54	-72.54	-4%
52510	Equipment Maintainance	500	500	0.00	534.72	-34.72	-7%
52520	Radio Maintenance	1,000	1,000	0.00	0.00	1,000.00	100%
52700	Equipment Rental	2,000	2,000	0.00	900.00	1,100.00	55%
52720	Street Paving, Contract.	4,000	4,000	0.00	0.00	4,000.00	100%
52750	Security, Contracted	4,500	4,500	1,066.35	4,880.47	-380.47	-8%
52940	- Waste Disposal	2,000	2,000	0.00	681.95	1,318.05	66%
53050	Annual DEP Maintainence	10,000	10,000	0.00	8,812.67	1,187.33	12%
53060	Deeds	0	0	0.00	0.00	0.00 -1,529.80	N/A N/A
53110	Engineering	0	0	0.00	1,529.80	7,126.07	32%
53120	Water Testing	22,000	22,000	2,872.00	14,873.93 0.00	0.00	N/A
53150	Contract Clerical Service	0	0	0.00 0.00	0.00	0.00	N/A
53200	Tuition	0	0 5,000	429.44	3,548.73	1,451.27	29%
53400	Telephone	5,000 0	5,000	0.00	0.00	0.00	N/A
53420	System Prints	6,800	6,800	274.26	2,503.00	4,297.00	63%
53430	Postage Advertising	1,800	1,800	0.00	466.90	1,333.10	74%
53450	Advertising DEP Volume Assessment	1,500	1,500	0.00	1,237.63	262.37	17%
53800 53801	Lock Box	2,000	2,000	195.27	966.18	1,033.82	52%
53801	PWB Tank Cleaning	500	500	0.00	87.50	412.50	83%
53810	Water Treatment Services	2,000	2,000	0.00	0.00	2,000.00	100%
53870	Police Detail	2,050	2,050	0.00	2,856.00	-806.00	-39%

		Budgeted	Revised	Expended This Period	Expended YTD	Available	Percent Remaining
54100	Gasoline	6,000	6,000	0.00	0.00	6,000.00	100%
54200	Office Supplies	3,200	3,200	0.00	4,038.64	-838.64	-26%
54210	Forms & Printing	6,800	6,800	870.89	2,969.22	3,830.78	56%
54300	Building Supplies	1,500	1,500	0.00	0.00	1,500.00	100%
54506	PWB Custodial Supplies	650	650	0.00	340.10	309.90	48%
54800	Vehicular Supplies	2,000	2,000	0.00	164.01	1,835.99	92%
55300	Public Works Supplies	16,000	16,000	0.00	21,028.53	-5,028.53	-31%
55310	Meters	30,000	30,000	0.00	23,500.22	6,499.78	22%
55800	Water Treatment Supplies	75,000	75,000	3,135.28	48,485.82	26,514.18	35%
55820	Safety Gear	1,500	1,500	0.00	596.59	903.41	60%
55860	Computer Software	5,000	5,000	0.00	3,953.93	1,046.07	21%
57100	in State Travel	0	0	0.00	0.00	0.00	N/A
57200	Out of State Travel	0	0	0.00	0.00	0.00	N/A
57300	Dues, Conferences, License	es 4,000	4,000	120.00	3,023.33	976.67	24%
57800	Elem. School Educ. Expense	e 0	0	0.00	0.00	0.00	N/A
57810	Water Conservation Progra	am 0	0	0.00	0.00	0.00	N/A
58500	Additional Equipment	4,000	4,000	0.00	491.38	3,508.62	88%
58510	Computer	5,000	5,000	9.31	5,883.69	-883.69	-18%
58700	Replacement Equipment	5,000	5,000	0.00	2,717.00	2,283.00	46%
Sub Total	Other	348,730	348,730	14,815.63	269,109.90	79,620.10	23%
Total Ope	erating Budget	644,942	644,942	34,844.98	481,239.78	163,702.22	25%
Reserves	}						
	nanticipated Emergenci						
52730	Unanticipated Emerg.	138,000	138,000	0.00	34,815.00	103,185.00	75%
Sub Total	Unanticipated Emerge	138,000	138,000	0.00	34,815.00	103,185.00	75%
	serve Fund						
52730	Reserve Fund	145,000	145,000	0.00	0.00	145,000.00	100%
Sub Total	Reserve Fund	145,000	145,000	0.00	0.00	145,000.00	100%
Total Res	erves	283,000	283,000	0.00	34,815.00	248,185.00	88%
Debt Ser							
E4591 M	ultipurpose, Interest						
59195	Interest	21,192	21,192	0.00	21,402.50	-210.50	-1%
Sub Total	Multipurpose, Interest	21,192	21,192	0.00	21,402.50	-210.50	-1%
E4593 M	ultipurpose, Principal						
59195	Principal	79,500	79,500	0.00	79,500.00	0.00	0%
Sub Tota	Multipurpose, Princip	79,500	79,500	0.00	79,500.00	0.00	0%
E4594 Sh	ort-Term Debt						
59210	Principal	207,000	207,000	0.00	0.00	207,000.00	100%
59250	Debt Issuance Cost	5,000	5,000	0.00	0.00	5,000.00	100%
59251	Interest	17 <u>,</u> 852	17,852	0.00	0.00	17,852.00	100%
Sub Tota	Short-Term Debt	229,852	229,852	0.00	0.00	229,852.00	100%
Total Del	ot Service	330,544	330,544	0.00	100,902.50	229,641.50	69%
Grand T	otal	1,258,486.00	1,258,486.00	34,844.98	616,957.28	641,528.72	51%

Warrant Articles

Water Department

Fiscal Year:

2018

Period Start:

11-Mar-18

Period End:

10-Apr-18

	Appropriation	Revised	Period Total	Fiscal Total	Total Spent	Remainder	Percent
E0000 Prospect Street & River Road V	Water Main Improvements	5					
00001 Administration	0.00	0.00	5,455.74	10,370.74	10,370.74	-10,370.74	N/A
00002 Construction	1,600,000.00	1,600,000.00	0.00	0.00	0.00	1,600,000.00	100.0%
	1,600,000.00	1,600,000.00	5,455.74	10,370.74	10,370.74	1,589,629.26	100.0%
E4545 A39/13ATM Minor Water Mai	n Replacement						
58000 General	100,000.00	100,000.00	0.00	0.00	79,079.76	20,920.24	20.9%
	100,000.00	100,000.00	0.00	0.00	79,079.76	20,920.24	20.9%

Water Treatment Plant Project

Water Department

Fiscal Year:

2018

Period Start:

11-Mar-18

Period End:

10-Apr-18

	Appropriation	Revised	Period Total	Fiscal Total	Total Spent	Remainder	Percent				
38600 A3/17STM Water Treatment Plant Construction											
58300 Owner's Project Manager	259,000.00	259,000.00	11,055.64	37,781.31	37,781.31	221,218.69	85.4%				
58310 Engineering	782,166.00	782,166.00	31,130.90	261,196.89	261,196.89	520,969.11	66.6%				
58320 Transmission Mains	1,524,629.85	1,524,629.85	0.00	987,363.12	987,363.12	537,266.73	35.2%				
58330 Plant Construction	7,246,000.00	7,246,000.00	526,035.90	2,075,249.03	2,075,249.03	5,170,750.97	71.4%				
58380 Miscellaneous	588,204.15	588,204.15	0.00	44,108.78	44,108.78	544,095.37	92.5%				
	10,400,000.00	10,400,000.00	568,222.44	3,405,699.13	3,405,699.13	6,994,300.87	83.0%				

Tuesday, April 10, 2018



Town of Topsfield Monthly Report of Accrus

Monthly Report of Accrued Time Water Department

For the month of March 2018

Date Reviewed:	
Signature:	
	Department Head

Fontaine,	, Travis													12	2/2/2009
	Personal Ti	me (hours)			Sick Time	e (hours)	A SHARWAY AND A SHARWAY		Vacation T	ime (hours)			Comp Tin	ne (hours)	
Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total
24.00	0.00	0.00	24.00	747.57	10.00	0.00	757.57	168.00	0.00	0.00	168.00	109.00	0.00	0.00	109.00
Krom, Gr	egory													3/	/12/1992
	Personal Ti	ime (hours)			Sick Tim	e (hours)			Vacation T	ime (hours)			Comp Tin	ne (hours)	
Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total
6.00	0.00	0.00	6.00	1,654.00	10.00	0.00	1,664.00	45.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00
Reuell, B	en													6	5/2/2014
	Personal T	ime (hours)			Sick Tim	e (hours)			Vacation T	ime (hours)			Comp Tin	ne (hours)	
Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total
16.00	0.00	0.00	16.00	275.50	10.00	0.00	285.50	46.00	0.00	0.00	46.00	124.50	0.00	0.00	124.50

Yeo, Ann	e-Marie													4/	14/2005
Personal Time (hours) Sick Time (hours)					Vacation T	ime (hours)			Comp Time (hours)						
Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total
21.00	0.00	-1.50	19.50	192.00	10.00	-8.00	194.00	92.50	0.00	-4.00	88.50	0.00	0.00	0.00	0.00

Sick Bank	, Union													7	/1/2013		
	Personal Ti	me (hours)	Sick Time (hours)					Vacation Time (hours)				A	Comp Tim	me (hours)			
Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total	Previous	Added	Used	Total		
0.00	0.00	0.00	0.00	860.00	0.00	0.00	860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

Per Union contract,

^{- 40} hours per employee put in sick bank July 1st with a maximum sick bank of 1760 hours

⁻ Maximum of 14 working days (112 hours) of compensatory time allowed

Topsfield Water Department Superintendent's Report April 11, 2018

1. Water Treatment Plant Project

Plant

The mason is working on the interior block walls and the exterior load bearing walls. The cold weather has slowed progress but about a quarter of the interior walls are complete. The filter pressure vessels were delivered and placed last week.

Transmission Mains

All of the mains installed by R+D are in service.

Boston Street Altitude Valve

The site contractor began the installation of the altitude valve this week. The isolation valve to the tank leaks so the tank will have to be drained to perform the tie-in work. The mains near the tank are deep, 12' to the top of pipe, so the placement of the valve vault and piping will have to be adjusted to account for the extra depth of the mains.

Booster Station

Site work around the booster station continued this past month. The water connections for the station were installed last week.

Change Orders

• Change Order Request #1 is attached for your review. The change is for a harmonics filter to be installed in the booster station at a cost of \$9,316. Wright-Pierce and Woodard & Curran agree that the filter is needed to reduce harmonic distortion in the electrical feed to the site caused by the variable frequency drive for the 100-horsepower fire pump. The filter is normally included in WP's design but the booster station is a packaged plant designed separately and they don't believe the line attenuator normally included in the packaged design provides sufficient protection. They are concerned that breakers and motors in the treatment plant may not work properly when the fire pump is running without the filter.

Potential Change Orders

- Bathroom Prep At our request the general contractor is providing drains and other piping in the floor and walls to accommodate the addition of a bathroom at a future date.
- Booster Station Relocation —The location of the booster station pad changed due to conflicts
 with underground utilities and grading changes made to the site by the Town after the design
 plans were completed. The location of the underground electric service to the Public Works
 Building was not accurately depicted on the as-built plans so the pad had to be shifted farther
 off the road.
- Electrical Feed Change The original design called for installing a new electrical service for the
 booster station and the plant from Route 1. This changed when the transformer to the Public
 Works Building failed last year and National Grid installed a pass-through transformer allowing
 us to extend the existing electrical service from the Public Works Building to the plant location.
 This has already saved more than \$25,000 in National Grid fees, not including the cost of
 installing a duct bank from Route 1 to the plant.
- Exterior Veneer Block I selected a smooth gray block veneer with a split-faced brown accent

stripe for the treatment plant to match the Public Works Building. This differed from the construction drawings that called for a split-face veneer and smooth accent stripe. The blocks that were ordered were the reverse of what was requested – brown spilt-faced veneer and a gray smooth accent stripe. Wright-Pierce and Woodard & Curran agree the blocks should not have been ordered until the mock-up wall was completed and the mason did this at their own risk.

 Boston Street Altitude Valve – The depth of the mains and the presence of transite pipe will likely lead to a change order request.

2. Leaks & Breaks

Nothing to report but UAW remained low for March - 6.3%.

3. Prospect Street & River Road Water Main Project

Bids for the project were opened on April 4th. We received 7 bids and R+D Site Development was the low bidder at 968,540.89 for the base bid and both alternates. R+D just finished the water main portion of the transmission main project and I'm very satisfied with the quality of their work. We checked their references prior to that job and I recommend this bid be awarded to R+D for the base bid and both alternates. Work is expected to begin in May.

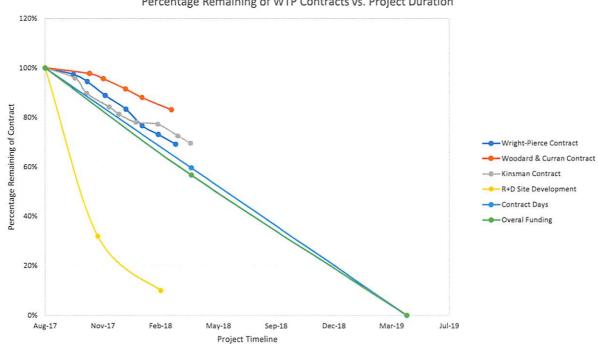
This project was estimated to be \$1.6 million. The bid doesn't include road reclamation and final paving for the heavily damaged paved areas on River Road and Prospect Street. This paving work will be done by the Town. The total project cost, including the reclamation work, is expected to be approximately \$1.3 million.

WTP Construction Progress

April 11, 2018

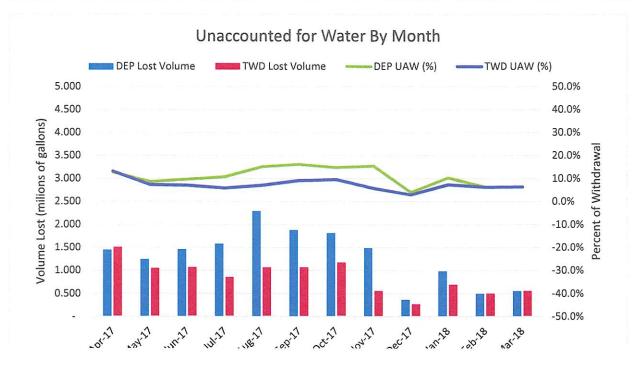
Total	Spent	Remain	ning
7.246	2.207	5.039	70%
0.782	0.261	0.521	67%
0.259	0.038	0.221	85%
1.525	1.374	0.151	10%
9.812	3.879	5.933	60%
0.044			
10.400			
0.545	5.2%		
8/1/2017	100%	100%	
4/11/2018	60%	57%	
4/19/2019	0%	0%	
	7.246 0.782 0.259 1.525 9.812 0.044 10.400 0.545 8/1/2017 4/11/2018	7.246 2.207 0.782 0.261 0.259 0.038 1.525 1.374 9.812 3.879 0.044 10.400 0.545 5.2% 8/1/2017 100% 4/11/2018 60%	7.246 2.207 5.039 0.782 0.261 0.521 0.259 0.038 0.221 1.525 1.374 0.151 9.812 3.879 5.933 0.044 10.400 0.545 5.2% 8/1/2017 100% 100% 4/11/2018 60% 57%

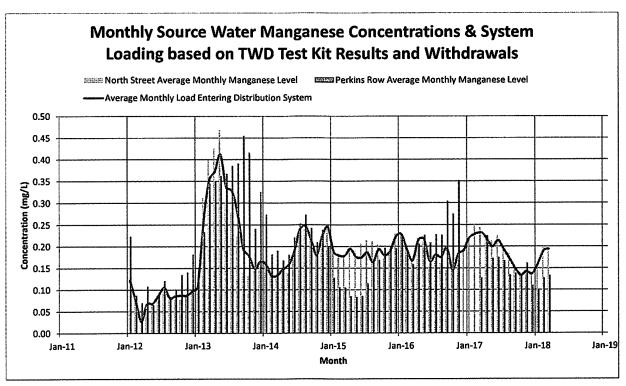
Percentage Remaining of WTP Contracts vs. Project Duration

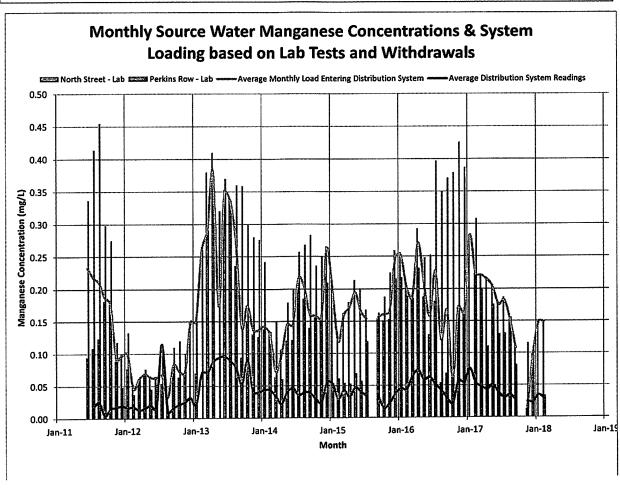


Topsfield Water Department Unaccounted for Water Report

	Total		Water Used			DEP UAW			TWD UAW	
Month	Pumped	Metered	Meter Estimates	Total Metered	DEP CEU	Lost Volume	Percent	TWD	Lost Volume	UAW
Apr-17	11.438	8.441	0.073	8.514	1.477	1.447	12.7%	1.424	1.500	13.1%
May-17	14.485	10.654	0.108	10.762	2.486	1.237	8.5%	2.678	1.045	7.2%
Jun-17	15.226	12.474	0.104	12.578	1.192	1.456	9.6%	1.586	1.062	7.0%
Jul-17	14.754	12.729	0.061	12.790	0.387	1.577	10.7%	1.114	0.850	5.8%
Aug-17	15.224	12.444	0.078	12.522	0.416	2.286	15.0%	1.643	1.059	7.0%
Sep-17	11.613	9.532	0.072	9.604	0.131	1.878	16.2%	0.947	1.062	9.1%
Oct-17	12.379	8.901	0.061	8.962	1.610	1.807	14.6%	2.257	1.160	9.4%
Nov-17	9.650	7.963	0.091	8.054	0.114	1.483	15.4%	1.043	0.553	5.7%
Dec-17	9.295	8.722	0.094	8.816	0.118	0.361	3.9%	0.214	0.265	2.8%
Jan-18	9.525	8.288	0.129	8.417	0.128	0.980	10.3%	0.421	0.687	7.2%
Feb-18	7.927	7.208	0.148	7.356	0.079	0.492	6.2%	0.079	0.492	6.2%
Mar-18	8.788	7.858	0.270	8.128	0.108	0.552	6.3%	0.108	0.552	6.3%
Totals	140.30	115.21	1.29	116.50	8.24	15.56	11.1%	13.51	10.29	7.3%







Topsfield Water Department

Annual Withdrawal Report

Calendar Year

2018

Month	North Street	Perkins Row	Total	Month AGD	5-Year Average	10-Year Average	Running Average	Historical Rank
January	9.509	0.016	9.525	0.307	0.323	0.325	0.307	19%
February	7.814	0.113	7.927	0.283	0.327	0.324	0.291	12%
March	8.666	0.122	8.788	0.283	0.312	0.314	0.292	10%
April	-	-	-	#N/A	0.373	0.385	#N/A	
May	-	-	-	#N/A	0.494	0.477	#N/A	
June		_	-	#N/A	0.497	0.483	#N/A	
July	-	-	-	#N/A	0.488	0.472	#N/A	
August	_	-	_	#N/A	0.473	0.447	#N/A	
September	<u>-</u>	-	-	#N/A	0.418	0.403	#N/A	
October	=	_	3 -	#N/A	0.411	0.413	#N/A	
November	_	-	-	#N/A	0.350	0.350	#N/A	
December	-	_	-	#N/A	0.337	0.330	#N/A	
Total	25.989	0.251	26,240	0.292				

