

**THE JOINT MEETING OF
ESSEX AND UNION COUNTIES
2018 BUDGET**

**AS PRESENTED
BY
THE JOINT MEETING
FINANCE & BUDGET COMMITTEE**

**BOARD CHAIRPERSON
HON. HOWARD LEVISON**

**FINANCE & BUDGET COMMITTEE CHAIRPERSON
HON. JOSEPH M. FLORIO**

**COMMITTEE MEMBERS
HON. QUILLA E. TALMADGE
HON. STEPHEN BOWMAN
HON. JERRY GUARINO**

Adopted:

November 9, 2017

ITEM #1- VEHICLES

2018 BUDGET		\$126,000					
2017 BUDGET		\$91,000					
2017 ANNUAL ESTIMATE		\$54,149					
This item encompasses vehicles purchased, gasoline, oils and supplies/repairs performed by the auto mechanic.							
It is anticipated that replacement vehicles will be necessary as follows:							
Replacement vehicles:							
Replace Collection System Van			\$33,000				
Replace 4 Maint Dept vans			\$48,000				
			\$81,000				
The estimated cost for typical gasoline, oils and repairs is :							
					\$45,000		
	Vehicles	gas & oils	Rep/etc.				
Sewers	\$33,000	\$9,000	\$2,250	\$44,250			
Treatmt Pit	\$48,000	\$18,000	\$9,000	\$75,000			
DWF	\$0	\$4,500	\$2,250	\$6,750			
BUDGET	\$81,000	\$31,500	\$13,500	\$126,000			

ITEM #2- EQUIPMENT RENTAL

2018 BUDGET		\$300,000				
2017 BUDGET		\$300,000	Historical	expenses		
2017 ANNUAL ESTIMATE		\$276,526	2001	\$259,898		
			2002	\$235,293		
			2003	\$232,326		
			2004	\$372,107		
			2005	\$216,818		
			2006	\$150,703		
			2007	\$457,418		
			2008	\$156,253		
			2009	\$330,451		
			2010	\$25,512		
			2011	\$520,395		
			2012	\$158,044		
			2013	\$307,357		
			2014	\$119,776		
			2015	\$186,675		
			2016	\$437,029		
<p>Work completed by utilizing Equipment rental has been:</p> <ol style="list-style-type: none"> 1) Off loading of equipment delivered to site (cranes & forklifts) 2) Cleaning of scum pits, scum and grit lines, centraste system at DWF 3) Storm sewer manhole maintenance 4) Trunk sewer maintenance 5) rental of 30 cubic yard containers <p>Equipment rental expenses are variable depending upon the needs due to equipment deliveries and the rate of "struvite" buildup in the centraste lines. For 2018 equipment rental was competitively bid.</p> <p>In addition, for 2018 bids were received for emergency excavation services. The excavation services were used in 2017 for sewer excavations related to repairs, bypass pumping during sewer repairs and for on site excavations. The contract is awarded to the bidder(s) who offered services for the lowest cumulative rates.</p>						
Equipment rental as bid	\$90,000	**				
additional excavating services	\$50,000					
Off loading & cranes	\$100,000	**				
30 yd containers	\$20,000					
Debris removal Millburn Crossing	\$15,000					
TOTAL	\$25,000					
BUDGET	\$300,000		Sewers	TP	DWF	
			\$180,000	\$90,000	\$30,000	

ITEM # 3-INSURANCE

2018 BUDGET		\$ 824,398			
2017 BUDGET		\$ 835,374			
2017 ANNUAL ESTIMATE		\$835,374			
COST DISTRIBUTION 2017 - 2018					
	Sewers	Plant	Dewat	Drying	Total
Boiler					-
Property		95,711	19,142	12,761	127,614
Gen Liability	846	42,313	8,463	4,795	56,417
Auto	146	7,295	1,459	827	9,726
LTD					
Inland Marine	-		-		-
Equip					21,833
Flood	-	-	-	-	-
Wk comp	5,835	291,749	58,350	33,065	388,998
Pollution	-	12,965	12,965		25,930
Umbrella	791	39,534	7,907	4,481	52,712
Public Officials	253	12,656	2,531	1,434	16,875
Crime	184	1,106	276	276	1,843
Terrorism	605	3,631	908	908	6,052
Fees & Surcharges	97	4,865	973	551	6,486
Total	8,758	511,823	112,973	59,099	\$ 714,486
2018 estimate					
Months	4		8		Total Est. 2018
Boiler		INCL		-	
Property*	42,538		97,837	140,375	\$ 150,904
Gen Liability*	18,806		43,253	62,059	66,713.10
Auto*	3,242.00		7,457	10,699	11,501
LTD		INCL		-	
Inland Marine*	-		-	-	-
Equip	7,278		16,739	24,016	25,818
Flood*	-		-	-	-
Wk Comp	129,666		298,232	427,898	440,735
Pollution*	8,643		19,880	28,523	30,662
Umbrella*	17,571		40,413	57,983	62,332
Public Officials*	5,625		12,938	18,563	19,119
Crime*	614		1,413	2,027	2,088
Terrorism	2,017		4,640	6,657	6,857
Fees & Surcharges	2,162		4,973	7,135	7,670
					824,398
	Sewers	Plant	Dewat	Drying	Total
	3.00%	75.00%	15.0%	7.00%	100.00%
	24,731.95	\$ 618,298.63	123,659.73	57,707.87	824,398
TOTAL	238,162		547,773	\$ 785,935	\$ 824,398

ITEM #4- WATER SERVICE

2018 BUDGET		\$139,500							
2017 BUDGET		\$138,500							
2017 ANNUAL ESTIMATE		\$163,338							
HISTORICAL SUMMARY				\$RATE/ CU FT	TP USAGE	DWF USAGE	SDF*	Effective Rate Change	
	COST	CU FT CONSUMED							
1997	\$105,346	5,955,413	\$0.0177	64.73%	35.27%				
1998	\$129,335	7,096,534	\$0.0182	64.84%	35.16%			3.03%	
1999	\$168,631	7,764,332	\$0.0217	66.03%	33.97%			19.17%	
2000	\$173,323	7,519,362	\$0.0231	67.19%	32.81%			6.13%	
2001	\$187,266	8,516,441	\$0.0220	75.45%	24.55%			(4.61%)	
2002	\$193,902	7,449,304	\$0.0260	71.49%	27.78%	0.73%		18.38%	
2003	\$193,961	7,094,573	\$0.0273	72.08%	27.92%			5.03%	
2004	\$182,883	6,901,143	\$0.0265	73.04%	26.96%			(3.07%)	
2005	\$197,270	7,667,609	\$0.0257	74.90%	25.10%			(2.92%)	
2006	\$204,683	7,173,277	\$0.0285	73.70%	26.30%			10.91%	
2007	\$216,304	6,902,363	\$0.0313	75.98%	24.02%			9.83%	
2008	\$205,861	6,114,583	\$0.0337	73.08%	26.92%			7.43%	
2009	\$233,081	6,170,587	\$0.0378	69.06%	30.94%			12.19%	
2010	\$263,638	6,510,611	\$0.0405	74.33%	25.67%			7.20%	
2011	\$245,614	6,129,945	\$0.0401	74.87%	25.13%			(1.05%)	
2012	\$203,011	4,731,658	\$0.0429	70.59%	29.41%			7.08%	
2013	\$112,330	2,486,642	\$0.0452	68.42%	31.58%			4.41%	Avg last 3 years
2014	\$89,325	2,154,294	\$0.0415	72.94%	27.06%			3.48%	Avg last 3 years
2015	\$111,140	1,957,238	\$0.0568	57.64%	42.36%			4.99%	Avg last 3 years
2016	\$79,084	2,392,577	\$0.0331	85.72%	14.28%			4.29%	Avg last 3 years
2018 BUDGET	TRT PLT	DWF	DRYER	TOTAL CU FT	RATE				
	1,600,000	900,000	0	2,500,000	\$0.0345				
	\$55,155	\$31,025	\$0	\$86,180					
		Water Facility Charge		SAY					
TP	\$55,155	\$25,000	\$80,155	\$80,000					
DWF	\$31,025	\$25,000	\$56,025	\$56,000					
SDF	\$0	\$3,500	\$3,500	\$3,500					
				\$139,500					
BUDGET	\$139,500								

ITEM #5- ELECTRIC SERVICE

2018 BUDGET		\$1,200,000								
2017 BUDGET		\$1,160,120								
2017 ANNUAL ESTIMATE		\$801,736								
HISTORY				AVG. SUPPLY PER MONTH			DEMAND PER MONTH			
YEAR	Utility AVG USAGE/MO	AVG EXPENSE/MO incl Trans	AVG COST/KWH	TOTAL DEMAND	UTILITY Co	Cogen	TRTMNT PLT	DWF	SDF	
1986	963,200	\$65,536	0.068	1,471,666	963,200	496,053	engine #3 on line 7/1986			
1987	836,000	\$52,566	0.063	1,627,593	836,000	793,832				
1988	1,052,800	\$66,225	0.063	1,828,824	1,052,800	776,870				
1989	981,600	\$64,100	0.065	1,812,867	981,600	830,766				
1990	1,025,600	\$68,602	0.067	1,900,207	1,025,600	877,333				
1991	1,185,600	\$81,779	0.069	2,015,572	1,185,600	820,000				
1992	1,249,600	\$85,061	0.068	2,113,636	1,249,600	851,947	1,907,982	205,654		
1993	1,332,000	\$95,149	0.071	2,234,215	1,332,000	899,787	2,050,339	183,876		
1994	1,363,200	\$98,402	0.072	2,224,419	1,363,200	858,880	2,025,589	198,830		*
1995	1,228,800	\$95,449	0.078	2,135,677	1,228,800	906,933	1,953,481	182,196		**
1996	1,268,500	\$100,537	0.079	2,200,455	1,268,500	931,973	1,949,908	170,610	79,937	
1997	1,321,400	\$100,176	0.076	2,157,561	1,321,400	836,208	1,915,579	174,895	67,086	***
1998	1,527,084	\$118,269	0.077	2,153,284	1,527,084	626,200	1,945,309	193,569	14,406	
1999	1,460,299	\$112,948	0.077	2,131,241	1,460,299	670,942	1,932,958	182,376	15,907	****
2000	1,563,500	\$116,784	0.075	2,220,255	1,563,500	656,755	1,970,012	214,695	35,548	*****
2001	1,626,104	\$113,958	0.070	2,272,450	1,626,104	646,347	1,957,860	209,287	105,303	
2002	1,777,485	\$111,892	0.063	2,411,038	1,777,485	633,553	2,041,833	225,513	143,692	
2003	1,787,033	\$117,992	0.066	2,406,951	1,787,033	619,752	2,199,044	129,382	78,525	
2004	1,799,507	\$139,019	0.077	2,448,734	1,799,507	649,227	2,172,586	237,788	38,360	*****
2005	1,620,537	\$134,083	0.083	2,231,994	1,620,537	611,457	1,980,412	224,250	27,332	
2006	1,643,477	\$141,620	0.086	2,189,237	1,643,477	545,760	1,947,616	226,518	15,103	
2007	1,518,967	\$161,248	0.106	2,149,407	1,518,967	629,800	1,903,856	217,268	28,283	
2008	1,535,620	\$174,426	0.114	2,194,342	1,535,620	670,347	1,928,041	241,613	24,688	
2009	1,394,245	\$154,097	0.111	2,137,539	1,394,245	743,294	1,883,676	240,711	13,153	<<<
2010	770,366	\$90,843	0.118	2,160,227	770,366	1,389,860	1,945,189	213,318	1,720	
2011	717,614	\$79,215	0.110	2,118,215	717,614	1,400,601	1,889,251	214,913	14,051	
2012	616,000	\$62,390	0.101	2,056,597	616,000	1,440,597	1,819,340	219,600	17,657	
2013	496,400	\$51,237	0.103	2,005,464	496,400	1,509,064	1,782,213	208,072	15,179	*1
2014	546,109	\$70,016	0.128	2,016,608	546,109	1,470,499	1,823,314	177,233	16,061	
2015	454,981	\$65,080	0.143	2,010,090	454,981	1,555,109	1,784,268	215,354	10,468	*2
2016	868,327	\$70,597	0.081	2,338,356	868,327	1,470,029	2,107,011	224,643	6,703	*2
est 2017	643,744	\$58,165	0.090	2,238,433	643,744	1,594,689	2,007,087	224,643	6,703	*2
estimated savings from Cogen for 2017 MONTHLY				\$144,086	* DIGESTER #2 OUT OF SERVICE ***** DIGESTER #3 OUT OF SERVICE					
ANNUALLY				\$1,729,030.87	** DIGESTER #2 RETURNED 5/95 <<< New Cogen Sept 15, 2009					
					*** DIGESTER #1 OUT OF SERVICE 10/97					
					**** DIGESTER #1 RETURNED 1/5/99					
					***** DIGESTER #4 CONVERSION					
					*1 DIGESTER #2 OUT OF SERVICE					
					*2 DIGESTER #1 OUT OF SERVICE					

ITEM #6-GAS SERVICE

2018 BUDGET		\$508,200	This item includes gas utilized at:				As shown below, gas usage is variable and, like fuel oil, is temperature dependent. The usage of fuel oil vs. natural gas is economically driven based on rates and the availability of methane gas for power generation and heating.
2017 BUDGET		\$496,200	1) Treatment plant laboratory				
2017 ANNUAL ESTIMATE		\$593,378	2) Gas heating in select areas				
			3) Supplemental fuel for Cogen				
			4) Fuel for boiler & hot water in DWF				
			5) Boiler #1 in P&O Bldg.				
HISTORY							
YEAR	\$	Avg.RATE/CU FT	TPLT	COGEN	DWF	SDF	TOTAL CU FT
2000	\$135,568	0.0068	1,351,100	2,021,700	8,589,800	7,847,000	19,809,600
2001	\$262,055	0.0085	153,800	149,282	1,326,700	29,309,000	30,938,782
2002	\$381,409	0.0051	8,800	5,500	3,022,800	71,960,000	74,997,100
2003	\$201,102	0.0095	4,000	5,200	10,665,900	10,472,000	21,147,100
2004	\$22,188	0.0245	3,000	0	901,200	0	904,200
2005	\$22,382	0.0236	1,200	0	948,400	0	949,600
2006	\$87,811	0.0129	1,000	5,596,700	76,700	1,127,300	6,801,700
2007	\$97,769	0.0060	1,000	8,686,400	7,698,900	0	16,386,300
2008	\$300,388	0.0157	335,500	8,160,000	10,620,800	0	19,116,300
2009	\$236,916	0.0093	0	23,578,000	1,955,700	0	25,533,700
2010	\$401,855	0.0092	0	36,740,000	7,067,000	0	43,807,000
2011	\$448,757	0.0098	0	32,339,000	13,428,600	0	45,767,600
2012	\$402,109	0.0076	0	41,726,000	11,119,500	0	52,845,500
2013	\$753,165	0.0080	0	79,300,000	14,631,000	0	93,931,000
2014	\$557,755	0.0074	0	62,550,000	12,416,000	3300	74,969,300
2015	\$576,920	0.0078	1000	62,550,000	10,968,000	0	73,519,000
2016	\$492,916	0.0055	1000	75,487,000	14,027,500	0	89,515,500
est 2017	\$593,378	0.0059	1000	89,430,000	11,726,550	0	101,157,550
Year	BTUs required	Fuel oil BTUs	Natural gas BTUs	Drier Nat Gas BTU	Cost per 1000 BTU		
2000	53,908,194,600	32,328,174,600	12,560,730,000	9,019,290,000	\$0.007596		
2001	57,378,399,900	24,892,678,800	1,711,271,100	30,774,450,000	\$0.007001		
2002	106,454,056,200	27,707,101,200	3,188,955,000	75,558,000,000	\$0.004920		
2003	49,537,996,800	27,333,541,800	11,208,855,000	10,995,600,000	\$0.007775		
2004	30,892,464,000	29,943,054,000	949,410,000	0	\$0.009020		
2005	27,004,038,000	26,006,958,000	997,080,000	0	\$0.009076		
2006	26,027,224,800	18,885,439,800	5,958,120,000	1,183,665,000	\$0.012116		
2007	27,285,841,000	19,199,844,000	8,085,997,000	0	\$0.016309		
2008	39,973,573,800	19,901,458,800	20,072,115,000	0	\$0.015594		
2009	55,648,908,600	28,837,591,200	26,811,317,400	0	\$0.010208		
2010	72,827,385,600	26,829,300,600	45,998,085,000	0	\$0.011200		
2011	57,130,757,400	9,074,777,400	48,055,980,000	0	\$0.013175		
2012	58,313,857,800	2,826,082,800	55,487,775,000	0	\$0.010692		
2013	69,907,425,800	1,328,005,800	68,579,420,000	0	\$0.009584		
2014	93,485,467,200	14,771,167,200	78,714,300,000	0	\$0.005980		
2015	86,718,123,900	8,421,723,900	78,296,400,000	0	\$0.004151		
2016	100,121,746,800	4,327,146,000	93,991,275,000	0	\$0.005299		
est 2017	112,345,899,300	0	106,215,427,500	0	\$0.005282		
	NG cu ft	RATE	EXTENSION	Service Chg	SAY		
P&O/Treatment Plt./Lab	0		\$0	\$132	\$132	\$200	
Cogen	65,000,000	\$0.0059	\$380,250	\$27,500	\$407,750	\$408,000	
DWF	14,000,000	\$0.0059	\$81,900	\$17,000	\$98,900	\$100,000	
Dryer	0		\$0	\$0	\$0	\$0	
	79,000,000		\$462,150	\$44,632	\$506,782	\$508,200	

ITEM #7- FUEL OIL AND KEROSENE

2018 BUDGET	\$81,500					
2017 BUDGET	\$226,500					
2017 ANNUAL ESTIMATE	\$0					
				gallons	expended	\$/gal
		1996	318,322	\$249,928	\$0.79	
		1997	292,776	\$221,731	\$0.76	
		1998	228,866	\$112,438	\$0.49	
		1999	220,967	\$131,773	\$0.60	
		2000	227,343	\$273,917	\$1.20	
		2001	175,054	\$139,657	\$0.80	
		2002	194,846	\$142,307	\$0.73	
		2003	192,219	\$184,043	\$0.96	
		2004	210,570	\$256,462	\$1.22	
		2005	182,890	\$284,898	\$1.56	
		2006	132,809	\$227,525	\$1.71	
		2007	135,020	\$253,873	\$1.88	
		2008	139,954	\$403,500	\$2.88	
		2009	202,796	\$331,166	\$1.63	
		2010	188,673	\$302,475	\$1.60	
		2011	138,675	\$303,926	\$2.19	
		2012	19,874	\$81,584	\$4.11	
		2013	9,339	\$36,361	\$3.89	
		2014	103,876	\$344,058	\$3.31	
		2015	39,632	\$77,942	\$1.97	
		2016	30,430	\$37,617	\$1.24	
		est 2017	0	0		

Fuel oil is used at the treatment plant boilerhouse for heating the digesters and plant buildings and at the DWF boilers as a "back-up source" of fuel for the boilers which are fired using natural gas as the primary fuel source.

The decision to use fuel oil or natural gas any at time is driven by evaluating and comparing costs for fuel oil versus natural gas. In past heating seasons, gas was the more economical at times.

Transportation : Pending per gallon per 1 year contract FY 2018

Price is allowed to fluctuate during the term of the Contract dependent upon posted price of New York Harbor Tank Car Reseller. Transportation rate remains constant during the life of the contract.

Estimated need for 2018		@	\$2.00	PER GAL		
				Fuel oil	Kerosene	BUDGET
Treatment Plant	30,000		\$60,000	\$60,000	\$1,000	\$61,000
DWF	10,000		\$20,000	\$20,000	\$500	\$20,500
SDF	0		\$0	\$0	\$0	\$0
	40,000	gallons	\$80,000			\$81,500
		kerosene	\$1,500			
		TOTAL	\$81,500			
		BUDGET	\$81,500			

ITEM #9- METER REPAIRS

2018 BUDGET	\$317,000						
2017 BUDGET	\$317,000						
2017 ANNUAL ESTIMATE	\$317,000						
<p>This item involves the costs associated with the ADS sewer metering system. The costs involved for 2017 have included:</p> <p>Replacement and Maintenance services of the metering system including inspection, calibration and repairs as well as the relocation of meters to observe flow patterns in the trunk sewer.</p> <p>For 2018 the budget includes maintenance agreements to maintain the 32 flow meter sites and repairs outside the scope of the maintenance agreement.</p>							
		SEWERS					
METERS	\$317,000						

ITEM #11- CHEMICALS

2018 BUDGET		\$2,932,488	This item is comprised of:					
2017 BUDGET		\$2,673,263		1) Chlorine (Trt Plt)		7) Potassium Permanganate (Trt Plt & DWF)		
2017 ANNUAL ESTIMATE		\$2,549,754		2) Polymer (Trt Plt & DWF)		8) Insect Repellant (Trt Plt & DWF)		
				3) Struvite Treatment		9) Deodorizer (DWF)		
				4) Lime (DWF)		10) Pest Control (Trt Plt & DWF)		
				5) Sodium Bisulfite		11) Boiler Water Treatment (SDF)		
				6) Herbicide (Trt Plt)		12) Carbon Dioxide Inerting System (SDF)		
BUDGET						13) Digester Additive		
Sodium Hypochlorite	(Treatment Plant) chlorination of wastewater effluent prior to discharge							
	Contract for 2018 use \$0.64/gal							
		Gal						
Gals Hypo	2005	689,423	\$503,279	0.73				
	2006	739,033	\$539,494	0.73				
	2007	797,488	\$693,815	0.87				
	2008	978,000	\$850,860	0.87				
	2009	810,000	\$838,350	1.035				
	2010	796,500	\$549,107	0.6894				
	2011	950,000	\$641,250	0.675				
	2012	1,076,811	\$624,973	0.755				
	2013	1,671,771	\$927,992	0.715				
	2014	1,727,000	\$1,117,208	\$0.65				
	2015	1,277,563	\$855,967	\$0.67				
	2016	1,250,000	\$837,500	\$0.67				
	est 2017	1,650,000	\$1,105,500	\$0.67				
BUDGET 2018:		1,650,000	\$1,056,000	\$0.64				
Polymer	<p>Used at</p> <p>A) Treatment Plant in liquid form at Thickener gravity Belts</p> <p>B) DWF in dry form and dissolved on site as part of the dewatering process in the centrifuges</p> <p>Contract to supply liquid polymer for year 2018(EST) use \$0.12/lb. For 2018: 125,000 #/mo X 12 mo X \$0.12/# = \$180,000</p> <p style="text-align: right;">SAY \$180,000</p> <p>Contract for Dry polymer for 2018: EST use @ \$ 1.52/# For 2018 : 30,000#/mo X 12 mo X \$ 1.61/# = \$579,600</p> <p style="text-align: right;">SAY \$580,000</p>							
POLYMER								
Trt. Plt		\$170,000						
DWF		\$580,000						
BUDGET 2018		\$750,000		2017 Budget	\$720,000			
Struvite Treatment								
DWF 2018		\$40,000		2017	\$40,000	Used to retard the deposition of struvite in the centrate		
Potassium Permanganate								
	est	cost/lb						
		\$2.25						
PERMANGANATE				lbs	EST			
Trt. Plt		\$33,750		15,000	\$33,750			
DWF		\$0						
BUDGET 2018		\$33,750		0	\$0	2017	\$31,800	

ITEM #11- CHEMICALS

Lime	Required at DWF for pH adjustment and control and stabilization. LIME USE HAS BEEN SUSPENDED AS A RESULT OF AN ALTERNATE DISPOSAL METHOD				
BUDGET 2018	\$0	2017 Budget	\$0		
SODIUM BISULFITE	Required by the NJPDES permit for the removal of residual chlorine in the treatment plant effluent. EST \$1.13/gal x 750 gal/day x 365 = \$309,338				
BUDGET 2018	\$309,338	2017 Budget	\$297,913		
MISCELLANEOUS CHEMICALS					
WEED KILLER		SEWERS	Trt. Pit.	DWF	DRYER
BUG REPELLENT			\$1,700	\$300	\$300
DEODORANT			\$500	\$300	\$100
PEST CONTROL				\$800	
SODA ASH (Cogen)			\$3,500	\$1,500	\$1,000
Carbon (SAG Media)			\$15,000		
Iron Sponge Media Cogen			\$40,000		
OTHER CHEMICALS		\$9,000	\$140,000		
MISC CHEM		\$9,000	\$3,000	\$1,000	\$400
BUDGET 2018	\$218,400	\$9,000	\$203,700	\$3,900	\$1,800
		2017 Budget	\$191,600		
Boiler Water Treatment	\$10,000	2017 Budget	\$5,000		
BUDGET 2018	\$0	2017 Budget	\$0		
Carbon Dioxide System	\$0	2017 Budget	\$0		
BUDGET 2018					
Digester Treatment					
Budget 2018	\$480,000	2017 Budget	\$480,000		
Water Filter Chemicals	\$35,000	2017 Budget	\$25,000		
Budget 2018					
BUDGET 2018 Summary	SEWERS	TREATMENT PLANT	DEWATER	DRYING	TOTAL
SODIUM HYPOCHLORITE		\$1,056,000			\$1,056,000
POLYMER		\$170,000	\$580,000		\$750,000
STRUVITE TRTMNT		0	\$40,000		\$40,000
PERMANGANATE		\$33,750	\$0		\$33,750
LIME		0	\$0		\$0
SODIUM BISULFITE		\$309,338			\$309,338
MISC. CHEM.	\$9,000	\$203,700	\$3,900	\$1,800	\$218,400
BOILER TRT		5000		\$5,000	\$10,000
CO2 SYSTEM				\$0	\$0
Digester Treatment		\$480,000			\$480,000
Water Filter Chemical		\$35,000			\$35,000
TOTAL	\$9,000	\$2,292,788	\$623,900	\$6,800	\$2,932,488

ITEM #13-SALARIES & WAGES

2018 BUDGET		\$3,482,289		
2017 BUDGET		\$3,354,918		
Covers non-union employees who do not qualify for overtime				
		2017	2018	Budget
Plant/Dewatering				
30 employees		\$2,707,781	\$2,835,152	\$2,835,152
Pretreatment/ Sewers				
7 employees		\$647,137	\$660,080	\$660,080
Total 37		\$3,354,918	\$3,495,232	\$3,495,232
Sewer and pretreatment costs split Estimated annual cost is _____				
For 2018				
10% Supv	Sewers	\$222,185	\$231,161	Paluch/Kofman
	Pretreatment	\$412,263	\$415,976	
	Total	\$634,448	\$647,137	
Summary				
Plant/Dewat.		2,707,781	2,835,152	
Sewers		222,185	231,161	
Pretreat.		412,263	415,976	
Total 2018		\$3,342,229	\$3,482,289	
ALLOCATION				
Sewers		233,956	243,760	7%
Dewatering				
50% of Plant/Dewat.		1,236,625	1,288,447	37%
Plant		1,871,648	1,950,082	56%
100% of pretreat. Plus 50% of Plant/Dewat.				
	Total	\$3,342,229	\$3,482,289	
		2018 BUDGET	\$3,482,289	

ITEM #14- TECH-PROFESSIONAL SVC

2018 BUDGET		\$1,353,300				
2017 BUDGET		\$953,300				
2017 ANNUAL ESTIMATE		\$1,057,943				
Historically Budgeted			Expended			
1999	\$650,000		\$494,115			
2000	\$630,000		\$312,473			
2001	\$569,500		\$294,459			
2003	\$501,500		\$521,489			
2004	\$501,500		\$522,929			
2005	\$501,500		\$289,741			
2006	\$520,000		\$280,682			
2007	\$520,000		\$227,230			
2008	\$520,000		\$486,798			
2009	\$520,000		\$291,686			
2010	\$522,500		\$334,314			
2011	\$342,500		\$643,972			
2012	\$677,500		\$656,747			
2013	\$677,500		\$1,269,382			
2014	\$737,500		\$1,108,416			
2015	\$877,500		\$1,113,474			
2016	\$877,500		\$1,534,908			
Est 2017	\$953,000		\$1,057,943			
<p>In 2018 the above services will be required, however, JM's participation in the studies (nutrient, metals and PCB/Dioxin trackdown) with the NJ Harbor Dischargers Group must be provided for, along with the following anticipated projects:</p>						
\$565,000	General Consulting Services (Specifications, Operations, Financial, NJPDES renewal					
\$500,000	FEMA Flood Mitigation Project JM Engineering Portion					
\$150,000	NJPDES Permit issues CSOs					
\$10,000	NJHDG - PCB, Toxics track downs, SWEM, metals					
\$15,000	Auditing Services					
\$20,000	Sewers					
\$10,000	Electrical Consulting					
\$3,000	Medical Exams					
\$7,800	Bioassays					
\$22,500	Lab Testing					
\$10,000	Public Relations & Education					
\$10,000	Technical support Instrumentation/controls					
\$10,000	Technical support Air Emissions					
\$1,353,300	TOTAL					
			Sewers	TP	DWF	SDF
for 2017 Budget use	\$1,353,300	\$25,000	\$1,278,300	\$50,000	\$0	

ITEM #15-LABOR

2018 BUDGET			\$6,985,370		
2017 BUDGET			\$6,720,787		
				2017	2018
Dewatering					
14 employees				\$1,022,336	\$1,042,783
Pretreatment					
4 employees (Jantas/Heminghouse/Surman/Kofman)				\$312,574	\$318,825
Breakdown of sewer hours					
150 hours divided by 4160 hrs. (2 staff)				2017	2018
		Sewer 5%		\$15,602	\$15,914
		Pretreatment 95%		\$296,445	\$302,374
		Total		\$312,047	\$318,288
Main Plant					
83 employees			80*	\$5,201,000	\$5,305,020
Dryer					
2 employees				\$136,949	\$139,688
Summary					
Dewat				\$1,042,783	\$1,042,783
Sewers				\$15,914	\$15,914
Plant				\$5,382,415	\$5,607,394
Dryer				\$136,943	\$139,688
Total				\$6,578,055	\$6,805,779
On Call Pay		For mechanics, electricians & site services workers. To cover Saturdays, Sundays & holidays; contractual.			
Union contract equalized on call pay for electricians and site services workers so it is comparable to that of mechanics.					
				2018	\$82,000
Overtime	Estimate at 6%			2018	2018 OT
Dewat				1,042,783	\$62,567
Sewers				15,914	\$955
Plant				5,607,394	\$336,444
Dryer				139,688	\$5,611
				6,805,779	\$405,576
Summary 2018					
	Plant	Dewat	Sewers	Dryer	Total
Reg	5,305,020	1,042,783	15,914	139,688	6,503,405
O.T.	336,444	62,567	\$955		399,965
On Call	82,000	0	0	0	82,000
Total	5,723,464	1,105,350	16,869	139,688	6,985,370
Budget	5,723,464	1,105,350	16,869	139,688	6,985,370
Total for 2018					\$6,985,370

ITEM #19-RESERVE CONTINGENCY

2018 BUDGET		\$180,000		
2017 BUDGET		\$180,000		
2017 ANNUAL ESTIMATE		\$0		
1. Potentail retirees for 2018				
Retirees are eligible for one-third of their unused sick time plus all of their unused vacation time. There is a cap on sick time.				
		Sick	Vacation	Total
6 potential retirees age & yrs of service		90,000	45,000	135,000
			Budget	\$135,000
2. Contractual incentives for union employees				
Annual cash incentives for possession of various licenses, certifications such as S licenses, C licenses, etc.				
Estimate for year				45,000
Summary				
Plant				180,000
Dewat				0
Sewer				0
Dryer				0
Total				\$180,000
2016 BUDGET				\$180,000

ITEM #22-SOCIAL SECURITY

2018 BUDGET		\$778,951				
2017 BUDGET		\$778,951				
2017 ANNUAL ESTIMATE		\$749,264				
The rate of 7.65% appears to be unchanged for 2018						
Budget #		Sewers	Plant	Dewat	Dryer	Total
13	Salaries	234,844	1,878,754	1,241,320		3,354,918
15	Labor	16,539	5,382,415	1,022,336	136,943	6,558,232
19	Contingencies	0	180,000	0	0	180,000
27	Board	0	89,221	0	0	89,221
Total		251,383	7,530,390	2,263,655	136,943	10,182,371
	7.65%	19,231	576,075	173,170	10,476	778,951
	Budget					
2018 BUDGET						\$778,951

ITEM #23 HOSPITAL PLAN

2018 BUDGET	\$3,472,786					
2017 BUDGET	\$3,542,521					
2017 ANNUAL ESTIMATE	\$3,329,940					
Hospitalization and major medical group health insurance for all employees Also covered under this category is the employee assistance program.						
Increase of Approx 3% for active employees						
			2017	2018		
<u>Retiree health insurance premiums</u>						
	Non Medicare		\$439,464	\$452,648		
	Medicare		\$358,212	\$404,780	13% increase	
			\$797,676	\$857,427		
<u>Hospitalization/Major medical</u>						
			2017	2018	No Increase anticipated	
Salaried employees			\$662,512	\$662,512		
30						
Pretreatment employees			\$184,808	\$184,808		
7						
Plant employees			\$1,418,067	\$1,418,067		
88						
Dryer employees			\$62,351	\$62,351		
2						
Dewatering employees			\$284,221	\$284,221		
11						
			\$2,611,959	\$2,611,959		
138						
			\$2,611,959	\$2,611,959		
<u>Employee Assistance Plan</u> 2 year contract thru 2019						
St. Barnabas Behavioral Health E.A.P.						
Price is set for 2 years.						
			Annual Cost			
	2018		3,400			
	2019		3,400			
	E.A.P. budget		3,400			
Summary of Group Health and Employee Assistance Plans						
		Sewers	Plant	Dewat	Dryer	Total
Hosp. Plan			2,265,387	284,221	62,351	2,611,959
Employee Asst.Plan			3,400			3,400
Retiree Health			857,427			857,427
Total			3,126,214	284,221	62,351	3,472,786
BUDGET						
						\$3,472,786

ITEM #28- COUNSEL FEES

2018 BUDGET	\$300,000					
2017 BUDGET	\$300,000					
2017 ANNUAL ESTIMATE	\$162,452					
Counsel fees included in this item: General Counsel and Labor & Conflicts . This item includes expenses for General, Litigation , Procurement Documents, Air Permits and Labor, NJPDES Permit, Admin. Law Appeal .						
			BUDGET		EXPENDED	
		1996	\$240,000		\$422,805	
		1997	\$350,000		\$1,057,460	
		1998	\$765,000		\$907,927	
		1999	\$595,000		\$731,348	
		2000	\$420,000		\$439,667	
		2001	\$370,000		\$297,952	
		2002	\$325,000		\$377,828	
		2003	\$325,000		\$329,955	
		2004	\$325,000		\$386,000	
		2005	\$355,000		\$193,584	
		2006	\$300,000		\$230,792	
		2007	\$300,000		\$127,937	
		2008	\$300,000		\$202,793	
		2009	\$300,000		\$110,497	
		2010	\$300,000		\$188,819	
		2011	\$200,000		\$213,374	
		2012	\$300,000		\$2,999,941	**Occidental
		2013	\$2,700,000		\$1,205,575	**Occidental
		2014	\$2,200,000		\$270,677	
		2015	\$300,000		\$205,482	
		2016	\$300,000		\$344,945	
		Sewers		\$10,000		
		Treatment Plant		\$260,000		
		DWF		\$20,000		
		SDF		\$10,000		
		Total for Budget		\$300,000		

JOINT MEETING OF ESSEX UNION COUNTIES Facility Summary Breakout

		COLLECTION SYSTEM	TREATMENT PLANT	SLUDGE DEWATERING FACILITY	SLUDGE DRYING FACILITY	TOTAL ALL FACILITIES
		2018 BUDGET	2018 BUDGET	2018 BUDGET	2018 BUDGET	2018 BUDGET
1	VEHICLES	\$44,250	\$75,000	\$6,750		\$126,000
2	EQUIP RENTAL	\$180,000	\$90,000	\$30,000		\$300,000
3	INSURANCE	24,731.95	\$ 618,298.63	123,659.73	57,707.87	\$824,398
4	WATER		\$80,000	\$56,000	\$3,500	\$139,500
5	ELECTRIC		\$1,066,415	\$124,503	\$9,083	\$1,200,000
6	GAS		\$408,200	\$100,000	\$0	\$508,200
7	FUEL OIL		\$61,000	\$20,500		\$81,500
8	SEWER REPAIR	\$60,000				\$60,000
9	METER REPAIRS	\$317,000				\$317,000
10	EQUIP		\$469,000	\$393,500		\$862,500
11	CHEMICALS	\$9,000	\$2,292,788	\$623,900	\$6,800	\$2,932,488
12	SLUDGE DISP			\$3,402,000		\$3,402,000
13	SALARIES & WAGES	\$243,760	\$1,950,082	\$1,288,447		\$3,482,289
14	TECHNICAL PROF. SERV.	\$25,000	\$1,278,300	\$50,000	\$0	\$1,353,300
15	LABOR	\$16,869	\$5,723,464	\$1,105,350	\$139,688	\$6,985,370
16	PRINTING	\$1,000	\$21,000	\$2,000		\$24,000
17	MISC EXPENSES	\$120,000	\$375,727	\$87,500	\$0	\$583,227
18	GEN PLANT MAINT		\$1,720,000	\$703,000	\$5,000	\$2,428,000
19	RESERVE CONTINGENCY		\$180,000			\$180,000
20	BUILDING MAINT		\$70,000	\$50,000		\$120,000
21	PENSION	\$24,889	\$945,768	\$248,886	\$24,889	\$1,244,432
22	SOCIAL SECURITY	\$19,231	\$576,075	\$173,170	\$10,476	\$778,951
23	HOSPITAL PLAN	\$0	\$3,126,214	\$284,221	\$62,351	\$3,472,786
24	UNIFORMS	\$2,800	\$113,400	\$23,800		\$140,000
25	SCREENINGS		\$180,000			\$180,000
26	UNEMPLOYMENT	\$600	\$42,800	\$6,000	\$600	\$50,000
27	EXECUTIVE COMMITTEE		\$93,977			\$93,977
28	COUNSEL FEES	\$10,000	\$260,000	\$20,000	\$10,000	\$300,000
29	OFFICERS					\$0
30	ADMIN GROUP PLAN	\$16,383	\$318,553	\$29,125		\$364,061
31	UNION WELFARE FUND	\$655	\$51,745	\$9,170	\$0	\$61,570
32	CAPITAL FUND		\$1,250,000			\$1,250,000
33	NJPDES PERMIT FEE	\$19,700	\$741,500	\$17,000	\$0	\$778,200
34	MISC PERMITS-FEES					\$0
35	NJED AUTHORITY LOAN				\$0	\$0
	TOTAL	\$1,135,868	\$24,179,306	\$8,978,481	\$330,094	\$34,623,750