

**THE JOINT MEETING OF  
ESSEX AND UNION COUNTIES  
2021 BUDGET**

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

**BOARD CHAIRPERSON  
HON. DONALD DeAUGUSTINE**

**FINANCE & BUDGET COMMITTEE CHAIRPERSON  
HON. JERRY GUARINO**

**COMMITTEE MEMBERS  
HON. JOSEPH M. FLORIO  
HON. STEPHEN BOWMAN  
HON. VICTOR DE LUCA**

**Adopted:**

**NOVEMBER 12, 2020**



ITEM #1- VEHICLES

<b>2021 BUDGET</b>		<b>\$91,000</b>					
2020 BUDGET		\$ 65,000					
2020 ANNUAL ESTIMATE		\$33,610					
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 2 Maint Dept vans (18yr)	USED		\$26,000				
Replace 1 Maint Dept PU Truck	NEW		\$20,000				
			<b>\$46,000</b>				
The estimated cost for typical gasoline, oils and repairs is :							
					\$45,000		
	Vehicles	gas & oils	Rep/etc.				
Sewers	\$0	\$9,000	\$2,250	\$11,250			
Treatmt Plt	\$46,000	\$18,000	\$9,000	\$73,000			
DWF	\$0	\$4,500	\$2,250	\$6,750			
<b>BUDGET</b>	<b>\$46,000</b>	<b>\$31,500</b>	<b>\$13,500</b>	<b>\$91,000</b>			

## ITEM #2- EQUIPMENT RENTAL

[illegible]

ITEM # 3-INSURANCE

<b>2021 BUDGET</b>		<b>\$ 917,856</b>			
2020 BUDGET		<b>\$ 892,404</b>			
2020 ANNUAL ESTIMATE		<b>\$835,374</b>			
<b>COST DISTRIBUTION 2020 - 2021</b>					
	Sewers	Plant	Dewat	Drying	Total
Boiler		-	-	-	
Property		141,678	28,336	17,724	\$ 187,738
Gen Liability	960	47,995	9,599	5,437	\$ 63,991
Auto	214	10,720	2,144	1,117	\$ 14,196
LTD					\$ 0
Inland Marine	-		-		\$ 0
Boiler & Equip					\$24,505
Flood	-	8,430	1,977	-	\$ 10,407
Wk comp	7,106	423,360	60,473	18,564	\$ 509,503
Pollution	-	14,251	14,250		\$ 28,500
Umbrella	901	45,033	9,007	5,105	\$ 60,046
Public Officials	285	14,228	2,846	1,613	\$ 18,971
Crime					\$ 0
Terrorism					\$ 0
Total	9,465	705,695	128,630	49,560	<b>\$ 917,856</b>
	<b>2021 estimate</b>				<b>Total Est. 2021</b>
Months	<b>4</b>		<b>8</b>		
Boiler		INCL		-	
Property*	62,579		125,159	187,738	\$ 187,738
Gen Liability*	21,330		42,661	63,991	\$ 63,991
Auto*	4,731.95		9,464	14,196	\$ 14,196
LTD		INCL	-	-	\$ -
Inland Marine*	-		-	-	\$ -
Equip	8,168		16,337	24,505	\$ 24,505
Flood*	3,469		6,938	10,407	\$ 10,407
Wk Comp	169,834		339,668	509,503	\$ 509,503
Pollution*	9,500		19,000	28,500	\$ 28,500
BUDGET	20,015		40,030	60,046	\$ 60,046
Public Officials*	6,324		12,647	18,971	\$ 18,971
Crime*	-		-	-	\$ -
Terrorism	-		-	-	\$ -
Fees & Surcharges	-		-	-	\$ -
					917,856
	Sewers	Plant	Dewat	Drying	Total
	3.00%	75.00%	15.0%	7.00%	100.00%
	27,536	\$ 688,392	137,678	64,250	917,856
TOTAL	<b>305,952</b>		<b>611,904</b>	<b>\$ 917,856</b>	<b>\$ 917,856</b>

ITEM #4- WATER SERVICE

<b>2021 BUDGET</b>		<b>\$156,000</b>							
2020 BUDGET		\$160,000							
2020 ANNUAL ESTIMATE		\$173,267							
HISTORICAL SUMMARY	COST	CU FT CONSUMED	\$RATE/ CU FT	TP USAGE	DWF USAGE	SDF*	Effective Rate Change		
1997	\$105,346	5,955,413	\$0.0177	64.73%	35.27%				
1998	\$129,335	<b>7,096,534</b>	\$0.0182	64.84%	35.16%		3.03%		
1999	\$168,631	<b>7,764,332</b>	\$0.0217	66.03%	33.97%		19.17%		
2000	\$173,323	<b>7,519,362</b>	\$0.0231	67.19%	32.81%		6.13%		
2001	\$187,266	<b>8,516,441</b>	\$0.0220	75.45%	24.55%		(4.61%)		
2002	\$193,902	<b>7,449,304</b>	\$0.0260	71.49%	27.78%	0.73%	18.38%		
2003	\$193,961	<b>7,094,573</b>	\$0.0273	72.08%	27.92%		5.03%		
2004	\$182,883	<b>6,901,143</b>	\$0.0265	73.04%	26.96%		(3.07%)		
2005	\$197,270	<b>7,667,609</b>	\$0.0257	74.90%	25.10%		(2.92%)		
2006	\$204,683	<b>7,173,277</b>	\$0.0285	73.70%	26.30%		10.91%		
2007	\$216,304	<b>6,902,363</b>	\$0.0313	75.98%	24.02%		9.83%		
2008	\$205,861	<b>6,114,583</b>	\$0.0337	73.08%	26.92%		7.43%		
2009	\$233,081	<b>6,170,587</b>	\$0.0378	69.06%	30.94%		12.19%		
2010	\$263,638	<b>6,510,611</b>	\$0.0405	74.33%	25.67%		7.20%		
2011	\$245,614	<b>6,129,945</b>	\$0.0401	74.87%	25.13%		(1.05%)		
2012	\$203,011	<b>4,731,658</b>	\$0.0429	70.59%	29.41%		7.08%		
2013	\$112,330	<b>2,486,642</b>	\$0.0452	68.42%	31.58%		4.41%	Avg last 3 years	
2014	\$89,325	<b>2,154,294</b>	\$0.0415	72.94%	27.06%		3.48%	Avg last 3 years	
2015	\$111,140	<b>1,957,238</b>	\$0.0568	57.64%	42.36%		4.99%	Avg last 3 years	
2016	\$79,084	<b>2,392,577</b>	\$0.0331	85.72%	14.28%		4.29%	Avg last 3 years	
2017	\$136,820	<b>1,886,160</b>	\$0.0725	66.60%	33.40%		4.25%	Avg last 3 years	
2018	\$116,651	<b>2,050,089</b>	\$0.0569	58.32%	41.68%		4.51%	Avg last 3 years	
2019	\$133,802	<b>2,691,946</b>	\$0.0497	64.92%	35.08%		4.35%	Avg last 3 years	
2021 BUDGET	TRT PLT	DWF	DRYER	TOTAL CU FT	RATE				
	1,000,000	900,000	0	1,900,000	\$0.0519				
	<b>\$51,867</b>	<b>\$46,680</b>	<b>\$0</b>	<b>\$98,547</b>					
		Water Facility Charge		SAY					
TP	\$51,867	\$25,000	\$76,867	\$80,000					
DWF	\$46,680	\$25,000	\$71,680	\$73,000					
SDF	\$0	\$3,500	\$3,500	\$3,000					
				\$156,000					
<b>BUDGET</b>	<b>\$156,000</b>								

ITEM #5- ELECTRIC SERVICE

2021 BUDGET		\$1,000,000								
2020 BUDGET		\$1,000,000								
2020 ANNUAL ESTIMATE		\$771,319								
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	
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
2017	797,049	\$54,767	0.069	2,402,816	797,049	1,605,767	2,217,593	177,577	7,646	*2
2018	756,800	\$58,760	0.078	2,268,446	756,800	1,511,646	2,102,869	140,362	25,215	
2019	758,400	\$63,595	0.084	2,361,420	758,400	1,603,020	2,227,809	118,543	15,069	
EST 2020	748,481	\$71,183	0.095	2,404,919	748,481	1,656,438	2,244,560	139,495	20,864	
BUDGET	768,000	\$68,000	\$0.089	2,155,142	768,000	1,387,142	2,002,188	124,675	28,279	
Estimated savings from Cogen for 2020 MONTHLY				\$157,532						
ANNUALLY				\$1,890,387						
				****	DIGESTER #1 RETURNED 1/5/99					
* DIGESTER #2 OUT OF SERVICE				*****	DIGESTER #4 CONVERSION					
** DIGESTER #2 RETURNED 5/95				*1	DIGESTER #2 OUT OF SERVICE			***** DIGESTER #3 OUT OF SERVICE		
*** DIGESTER #1 OUT OF SERVICE 10/97				*2	DIGESTER #1 OUT OF SERVICE			<<< New Cogen Sept 15, 2009		

## ITEM #5- ELECTRIC SERVICE

Expected electrical kw demand for 2021										
Year	Trt Plt KW Avg/mon	DWF KW Avg/mon	Dryer KW Avg/mon							
1997	1,915,579	174,895	67,086							
1998	1,945,309	193,569	14,406							
1999	1,932,958	182,376	15,907							
2000	1,970,012	214,695	35,548							
2001	1,957,860	209,287	105,303							
2002	2,041,833	225,513	143,692							
2003	2,199,044	129,382	78,525							
2004	2,172,586	237,788	38,360							
2005	1,980,412	224,250	27,332							
2006	1,947,616	226,518	15,103							
2007	1,903,856	217,268	28,283							
2008	1,928,041	241,613	24,688							
2009	1,883,676	240,711	13,153							
2010	1,945,189	213,318	1,720							
2011	1,889,251	214,913	14,051							
2012	1,819,340	219,600	17,657							
2013	1,782,213	208,072	15,179							
2014	1,823,314	177,233	16,061							
2015	1,784,268	215,354	10,468							
2016	2,107,011	224,643	6,703							
2017	2,217,593	177,577	7,646							
2018	2,102,869	140,362	25,215							
2019	2,227,809	118,543	15,069							
Est 2020	2,244,560	139,495	20,864							
Avg 18, 19,20	2,191,746	132,800	20,383							
Avg 18, 19	2,165,339	129,452	20,142							
Avg 19, 20	2,236,185	129,019	17,966							
Expected 2021	2,197,757	130,424	15,179							
say	2,200,000	150,000	15,000							
Total Demand per Month>				2,365,000						
FY 2021	28,380,000	KWH								
Generator production				Monthly Avg						
1999	670,942	2005	611,457	2011	1,400,601	2017	1,605,767			
2000	656,755	2006	545,760	2012	1,440,597	2018	1,511,622			
2001	646,347	2007	629,800	2013	1,509,114	2019	1,603,054			
2002	633,553	2008	670,347	2014	1,432,084	Est 2020	1,656,438			
2003	619,752	2009	743,294	2015	1,555,109					
2004	649,227	2010	1,389,860	2016	1,470,029					
		for 2021	1,600,000							
PSE&G= total demand - (Cogen production minus production loss)										
	28,380,000	19,200,000	1,000,000	>>>>>>>>	10,180,000					
10,180,000	say:	10,180,000	@	0.095	\$/KwH					
cost		\$967,100								
add area lighting & partial lab:		\$20,000								
Add PSE&G Dist Chgs:		\$0	(inc in supply rate	92.9%	5.8%	1.3%	100.0%			
Sales Taxes										
EST	\$987,100		Sewers	TP	DWF	SDF				
BUDGET	\$1,000,000		\$0	\$900,000	\$100,000	\$0	\$0	\$1,000,000		



ITEM #6-GAS SERVICE

2021 BUDGET		\$900,000	This item includes gas utilized at: 1) Treatment plant laboratory 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.			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.	
2020 BUDGET		\$900,000					
2020 ANNUAL ESTIMATE		\$788,340					
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
2017	\$604,201	0.0054	1000	99,016,000	12,566,700	0	111,583,700
2018	\$815,730	0.0070	0	100,329,000	15,393,000	0	115,722,000
2019	\$791,213	0.0051	21000	138,633,000	15,009,000	0	153,663,000
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		
2017	123,293,356,800	218,988,000	117,162,885,000	0	\$0.005013		
2018	127,639,621,800	2,812,005,000	121,508,100,000	0	\$0.006819		
2019	167,455,621,800	5,571,964,800	161,346,150,000	0	\$0.005405		
	NG cu ft	RATE	EXTENSION	Service Chg		SAY	
P&O/Treatment Plt./Lab	0		\$0	\$132	\$132	\$0	
Cogen	145,000,000	\$0.0059	\$780,000	\$20,000	\$800,000	\$800,000	
DWF	15,500,000	\$0.0059	\$90,000	\$10,000	\$100,000	\$100,000	
Dryer	0		\$0	\$0	\$0	\$0	
	160,500,000		\$870,000	\$30,132	\$900,132	\$900,000	

### ITEM #7- FUEL OIL AND KEROSENE

2021 BUDGET		\$98,100					
2020 BUDGET		\$111,900					
2020 ANNUAL ESTIMATE		\$103,000					
	gallons	expended	\$/gal		gallons	expended	\$/gal
1996	318,322	\$249,928	\$0.79	2011	138,675	\$303,926	\$2.19
1997	292,776	\$221,731	\$0.76	2012	19,874	\$81,584	\$4.11
1998	228,866	\$112,438	\$0.49	2013	9,339	\$36,361	\$3.89
1999	220,967	\$131,773	\$0.60	2014	103,876	\$344,058	\$3.31
2000	227,343	\$273,917	\$1.20	2015	39,632	\$77,942	\$1.97
2001	175,054	\$139,657	\$0.80	2016	30,430	\$37,617	\$1.24
2002	194,846	\$142,307	\$0.73	2017	11,540	\$13,826	\$1.20
2003	192,219	\$184,043	\$0.96	2018	19,775	\$54,627	\$2.76
2004	210,570	\$256,462	\$1.22	2019	39,184	\$113,961	\$2.91
2005	182,890	\$284,898	\$1.56	EST 2020	30,000	\$75,000	\$2.50
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				
<p>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.</p> <p>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.</p> <p>Transportation :     <b>\$0.0525 per gallon</b>     per 2 year contract FY 2021 &amp; 2022</p> <p>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.</p>							
Estimated need for 2021			@	\$2.76	PER GAL		
					Fuel oil	Kerosene	BUDGET
Treatment Plant		25,000		\$69,000	\$69,000	\$1,000	\$70,000
DWF		10,000		\$27,600	\$27,600	\$500	\$28,100
SDF		0		\$0	\$0	\$0	\$0
		35,000	gallons	\$96,600			\$98,100
		kerosene		\$1,500			
		TOTAL		\$98,100			
		<b>BUDGET</b>		\$98,100			

## ITEM #8 - SEWER MAINTENANCE

2021 BUDGET	\$30,000						
2020 BUDGET	\$60,000						
2020 ANNUAL ESTIMATE	\$30,000						
<p>This item encompasses repairs to frames and covers, access plates, other repairs revealed during the annual sewer inspections, NJ "One Call" System and minor cleaning projects.</p> <p>Major repairs are charged against the Sewer Replacement Fund which is subsequently re-imbursed by respective members based upon the existing municipal ownership contracts of the Joint Meeting. In 1993 and 1994 TV inspections were performed to examine the status of the interior of the original 1902 trunk sewer in Sections I, II, IV and V. As a result of JM Staff review of the inspection, 28 segments or reaches were identified as needing repair. The repairs require either lining or excavation. Repairs have been made on 13 segments. Subsequent contracts will address the remaining segments.</p>							
			SEWERS				
Sewer Cleaning/TV inspections		\$20,000					
NJ One Call System		\$5,000					
Covers, frames, minor repairs		\$5,000					
	<b>BUDGET</b>		<b>\$30,000</b>				

# ITEM #9- METER REPAIRS

2021 BUDGET	\$330,000						
2020 BUDGET	\$330,000						
2020 ANNUAL ESTIMATE	\$317,000						
<p>This item involves the costs associated with the ADS sewer metering system. The costs involved for 2019 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 2020 the budget includes maintenance agreements to maintain the 32 flow meter sites and repairs outside the scope of the maintenance agreement.</p>							
		SEWERS					
METERS	\$330,000						

ITEM #10- EQUIPMENT

2021 BUDGET	\$351,500					
2020 BUDGET	\$740,000					
2020 ANNUAL ESTIMATE	\$725,000					
Chlorine titrator			\$12,000			
Lab Equipment: Ash Oven,Balance, BOD Incubator,			\$17,500			
Motorola Radios			\$5,000			
IP Cameras and Licenses			\$10,000			
Network Switches			\$6,000			
ISCO Samplers (2)			\$15,000			
Traveling Bridge Gearboxes			\$12,000			
Sump Pumps			\$30,000			
Hypo Storage Tank			\$15,000			
Repair Feed Gates/ Actuators 1-1A Side			\$25,000			
Automobile Scanner System Upgrade			\$10,000			
DS-416 Circuit Breakers			\$15,000			
Grinders			\$15,000			
Power Rail Parts			\$30,000			
#1 Kewanee - New Burner			\$32,000			
New Accumulators (Digesters)			\$12,000			
Replacement Flame Arrestors			\$15,000			
Fork Lift			\$75,000			
		TOTAL	\$351,500			
BUDGET						
		Sewers	TP	DWF	SDF	
2021		\$0	\$289,500	\$62,000	\$0	\$351,500

ITEM #11- CHEMICALS

<b>2021 BUDGET</b>		<b>\$4,423,650</b>	This item is comprised of:						
2020 BUDGET		\$4,098,738		1) Chlorine (Trt Plt)		7) Potassium Permanganate (Trt Plt & DWF)			
2020 ANNUAL ESTIMATE		\$3,367,676		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)			
<b>BUDGET</b>						13) Digester Additive			
<b>Sodium Hypochlorite</b>	(Treatment Plant) chlorination of wastewater effluent prior to discharge								
	Contract for 2021 use \$0.72/gal								
		Gal				Gal			
Gals Hypo	2014	1,727,000	\$1,117,208	\$0.65	2005	689,423	\$503,279	0.73	
	2015	1,277,563	\$855,967	\$0.67	2006	739,033	\$539,494	0.73	
	2016	1,250,000	\$837,500	\$0.67	2007	797,488	\$693,815	0.87	
	2017	1,345,767	\$901,664	\$0.67	2008	978,000	\$850,860	0.87	
	2018	1,573,000	\$1,006,720	\$0.64	2009	810,000	\$838,350	1.035	
	2019	2,117,056	\$1,693,645	\$0.80	2010	796,500	\$549,107	0.6894	
	Est 2020	2,231,606	\$1,941,497	\$0.87	2011	950,000	\$641,250	0.675	
					2012	1,076,811	\$624,973	0.755	
					2013	1,671,771	\$927,992	0.715	
<b>BUDGET 2021</b>		2,600,000	\$1,872,000	\$0.72					
	<b>\$1,700,000</b>								
<b>Magnesium Hydroxide Slurry</b>									
		150,000	\$414,000.00	\$2.76					
<b>Budget</b>	<b>\$414,000</b>								
<b>Polymer</b>									
	Used at								
	A) Treatment Plant in liquid form at Thickener gravity Belts								
	B) DWF in dry form and dissolved on site as part of the dewatering process in the centrifuges								
	Contract to supply liquid polymer for year 2021 use \$0.14/lb.								
	For 2021: 150,000 #/mo X 12 mo X \$0.12/# = \$252,000								
				<b>SAY \$250,000</b>					
	Contract for Dry polymer for 2021: use @ \$ 1.77/#								
	For 2021 : 37,500#/mo X 12 mo X \$ 1.77/# = \$796,500								
				<b>SAY \$796,000</b>					
<b>POLYMER</b>									
Thickener	\$250,000								
DWF	\$796,000								
<b>BUDGET 2021</b>	<b>\$1,046,000</b>		2020	\$1,046,000					
<b>Struvite Treatment</b>									
<b>DWF 2021</b>	<b>\$140,250</b>		2020	\$40,000		Used to retard the deposition of struvite in the centrate system.			
<b>Potassium Permanganate</b>									
	est	cost/lb							
		\$1.75							
<b>PERMANGANATE</b>			lbs	EST					
Trt. Plt	\$50,000		50,000	\$87,500					
DWF	\$0								
<b>BUDGET 2021</b>	<b>\$50,000</b>		0	\$0	2017	\$31,800			

ITEM #11- CHEMICALS

<b>Lime</b>	Required at DWF for pH adjustment and control and stabilization. LIME USE HAS BEEN SUSPENDED AS A RESULT OF AN ALTERNATE DISPOSAL METHOD							
<b>BUDGET 2021</b>	<b>\$0</b>		2021	\$0				
<b>SODIUM BISULFITE</b>	Required by the NJPDES permit for the removal of residual chlorine in the treatment plant effluent. EST \$1.10/gal x 1205 gal/day x 365 = \$484,000							
<b>BUDGET 2021</b>	<b>\$450,000</b>		2020	\$309,000				
<b>MISCELLANEOUS CHEMICALS</b>								
WEED KILLER		SEWERS	Trt. Plt.	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)			\$50,000					
Iron Sponge Media Cogen			\$0				replaced by SAG Media	
OTHER CHEMICALS		\$9,000	\$25,000					
<b>MISC CHEM</b>		\$9,000	\$3,000	\$1,000	\$400			
<b>BUDGET 2021</b>	<b>\$98,400</b>	\$9,000	\$83,700	\$3,900	\$1,800			
<b>Boiler Water Treatment</b>	<b>\$10,000</b>		2019 Budget	\$5,000				
<b>BUDGET 2021</b>								
<b>Carbon Dioxide System</b>	<b>\$0</b>		2019 Budget	\$0				
<b>BUDGET 2021</b>								
<b>Digester Treatment</b>								
<b>BUDGET 2021</b>	<b>\$480,000</b>		2019 Budget	\$480,000				
<b>Water Filter Chemicals</b>	<b>\$35,000</b>		2019 Budget	\$35,000				
<b>BUDGET 2021</b>								
<b>BUDGET 2021 Summary</b>	SEWERS	TREATMENT PLANT	DEWATER	DRYING	TOTAL			
SODIUM HYPOCHLORITE		\$1,700,000			\$1,700,000			
Magnesium Hydroxide Slurry		\$414,000			\$414,000			
POLYMER		\$250,000	\$796,000		\$1,046,000			
STRUVITE TRTMNT		0	\$140,250		\$140,250			
PERMANGANATE		\$50,000	\$0		\$50,000			
LIME		0	\$0		\$0			
SODIUM BISULFITE		\$450,000			\$450,000			
MISC. CHEM.	\$9,000	\$83,700	\$3,900	\$1,800	\$98,400			
BOILER TRT		5000		\$5,000	\$10,000			
CO2 SYSTEM				\$0	\$0			
Digester Treatment		\$480,000			\$480,000			
Water Filter Chemical		\$35,000			\$35,000			
<b>TOTAL</b>	<b>\$9,000</b>	<b>\$3,467,700</b>	<b>\$940,150</b>	<b>\$6,800</b>	<b>\$4,423,650</b>	\$4,423,650		

ITEM #12- SLUDGE DISPOSAL

2021 BUDGET		\$3,600,000				
2020 BUDGET		\$3,700,000				
2020 ANNUAL ESTIMATE		\$2,727,805				
			Avg tons/month	\$/ton		
1994 expended		\$4,005,879	2978	114.66		
1995 expended		\$3,730,393	2711	114.66		
1996 expended		\$2,129,547	2255	78.66		
1997 expended		\$2,174,815	2256	78.66		
1998 expended		\$1,906,592	2725	78.66		
1999 expended		\$1,838,061	2612	59.50		
2000 expended		\$1,730,872	2466	58.50		
2001 expended		\$1,274,610	1725	\$61.58		
2002 expended		\$1,363,402	1848	\$61.48	* hybrid DWF & SDF	
2003 expended		\$1,837,994	2474	\$61.91	* hybrid DWF & SDF	
2004 expended		\$2,026,738	2679	\$63.04	** Current rate expired Apr 05	
2005 expended		\$1,774,003	2266	\$65.24	hybrid price	
2006 expended		\$2,007,133	2535	\$65.98		
2007 expended		\$2,092,877	2457	\$70.98		
2008 expended		\$2,206,265	2581	\$71.23		
2009 expended		\$2,216,851	2556	\$72.28		
2010 expended		\$2,278,135	2589	\$73.32	blended price	
2011 expended		\$2,471,523	2533	\$81.31	blended price	
2012 expended		\$2,186,478	2425	\$75.14	blended price	
2013 expended		\$1,989,974	2425	\$74.60		
2014 expended		\$1,799,956	2199	\$74.60		
2015 expended		\$2,300,945	2225	\$86.17		
2016 expended		\$2,561,123	2460	\$86.76		
2017 expended		\$2,561,123	2465	\$86.58		
2018 expended		\$2,778,116	2149	\$107.74		
2019 expended		\$3,000,000	1806	\$138.43		
		PER MONTH				
		\$286,902	2200	\$130.41		
2021	\$3,442,824					
DWF						
	DWF					
BUDGET	\$3,600,000					



ITEM #13-SALARIES & WAGES

<b>2021 BUDGET</b>		<b>\$4,694,182</b>			
<b>2020 BUDGET</b>		<b>\$3,857,829</b>			
<b>2020 ANNUAL ESTIMATE</b>		<b>\$2,355,295</b>			
Covers non-union employees who do not qualify for overtime					
		<b>2020</b>	<b>2021</b>		
Plant/Dewatering			Adjusted Census		
34 employees		\$3,625,581	\$3,707,156		
Pretreatment/ Sewers					
8 employees		\$965,307	\$987,026		
Total 42		\$4,590,888	\$4,694,182		
Sewer and pretreatment costs split					
Estimated annual cost is _____					
For 2021					
10% Supv	Sewers	\$217,235	\$222,123	Paluch/Gallego	
	Pretreatment	\$748,072	\$764,904		
	Total	\$965,307	\$987,026		
Summary					
Plant/Dewat.		3,625,581	3,707,156		
Sewers		217,235	222,123		
Pretreat.		748,072	764,904		
Total 2021		\$4,590,888	\$4,694,182		
BUDGET					
				%	
Sewers		321,362	328,593	7%	
Dewatering					
50% of Plant/Dewat.		1,698,629	1,736,847	37%	
Plant		2,570,897	2,628,742	56%	
100% of pretreat. Plus					
50% of Plant/Dewat.					
Total		\$4,590,888	\$4,694,182		
		<b>2021 BUDGET</b>	\$4,694,182		

ITEM #14- TECH-PROFESSIONAL SVC

<b>2021 BUDGET</b>		<b>\$1,111,000</b>				
<b>2020 BUDGET</b>		\$1,076,500				
<b>2020 ANNUAL ESTIMATE</b>		\$1,445,717				
Historically Budgeted	Expended	Budgeted				
1999	\$650,000	\$494,115	2018	\$1,353,300	\$1,430,081	
2000	\$630,000	\$312,473	2019	\$1,487,500	\$2,056,357	
2001	\$569,500	\$294,459	2020	\$1,076,500		EST
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				
2017	\$953,000	\$2,131,072				
In 2021 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:						
\$655,000	General Consulting Services (Specifications, Operations, Financial, NJPDES renewal)					
\$150,000	NJPDES Permit issues CSOs					
\$25,000	NJHDG - PCB, Toxics track downs, SWEM, metals					
\$22,000	Auditing Services					
\$25,000	Sewers					
\$25,000	Electrical Consulting					
\$10,000	Medical Exams					
\$34,000	Bioassays					
\$45,000	Lab Testing					
\$10,000	Public Relations & Education					
\$20,000	Technical support Instrumentation/controls					
\$10,000	Technical support Air Emissions					
\$60,000	Local Limits Study & Evaluation (JMEUC Permit Requirement)					
\$1,111,000	TOTAL					
			Sewers	TP	DWF	SDF
for 2021 Budget use	\$1,111,000	\$25,000	\$1,036,000	\$50,000	\$0	

ITEM #15-LABOR

<b>2021 BUDGET</b>		<b>\$7,164,564</b>			
<b>2020 BUDGET</b>		<b>\$7,172,591</b>			
<b>2020 Expected</b>		<b>\$9,228,188</b>			
				2020	2021
<b>Dewatering</b>					
14 employees				\$945,210	\$945,210
<b>Pretreatment</b>					
4 employees				\$325,181	\$325,181
<b>Breakdown of sewer hours</b>					
150 hours divided by 4160 hrs. (2 staff)				2020	2021
		Sewer 5%		\$16,259	\$16,259
		Pretreatment 95%		\$308,922	\$308,922
		Total		\$325,181	\$325,181
<b>Main Plant</b>					
83 employees				\$5,274,446	\$5,274,446
<b>Dryer</b>					
2 employees				\$122,461	\$122,461
<b>Summary</b>					
Dewat				\$945,210	\$945,210
Sewers				\$325,181	\$325,181
Plant				\$5,274,446	\$5,274,446
Dryer				\$127,691	\$127,691
Total				\$6,672,528	\$6,672,528
<b>On Call Pay</b>		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.					
				2021	\$92,000
<b>BUDGET</b>					
<b>Overtime</b>	Estimate at 6%			2021	2021 OT
Dewat				\$945,210	\$56,713
Sewers				\$325,181	\$19,511
Plant				\$5,274,446	\$316,467
Dryer				\$127,691	\$7,346
				\$6,672,528	\$400,036
<b>Summary 2021</b>					
	Plant	Dewat	Sewers	Dryer	Total
Reg	5,274,446	945,210	325,181	127,691	6,672,528
O.T.	316,467	56,713	\$19,511	7,346	400,036
On Call	92,000	0	0	0	92,000
Total	5,682,913	1,001,922	344,692	135,037	7,164,564
Budget	5,682,913	1,001,922	344,692	135,037	7,164,564
<b>Total for 2021</b>		<b>\$7,164,564</b>			

**ITEM #16- PRINTING & STATIONERY**

<b>2021 BUDGET</b>		<b>\$20,000</b>					
<b>2020 BUDGET</b>		<b>\$24,000</b>					
<b>2020 ANNUAL ESTIMATE</b>		\$19,295					
This item consists of printing of monthly minutes, binding of annual minutes (including preparation of index), stationery, operation/personnel/maintenance/lab forms, copying blueprints, etc. Requests for quotes for printing and binding minutes were sent out.							
Historical	2000	\$27,782					
	2001	\$14,708					
	2002	\$13,897					
	2003	\$19,272					
	2004	\$11,805					
	2005	\$14,712					
	2006	\$21,962					
	2007	\$15,753					
	2008	\$28,074					
	2009	\$13,213					
	2010	\$39,034					
	2011	\$18,935					
	2012	\$34,698					
	2013	\$20,005					
	2014	\$3,716					
	2015	\$6,199					
	2016	\$4,330					
	2017	\$2,145					
	2018	\$5,633					
	2019	\$2,306					
		Sewers	TP	DWF	SDF		
<b>BUDGET</b>		\$1,000	\$17,000	\$2,000	\$0	\$20,000	

## ITEM #17- MISC. EXPENSES

2021 BUDGET		\$550,000		This item includes: Office/clerical supplies telephone (Sewer Meters, Trt. Plt, DWF, SDF) data processing/computer expenses postage Classified Ads freight Dues (WEF, AEA, NACWA), seminars Wastewater operators licenses Tuition re-embursement for wastewater collection & treatment related courses Maintenance personnel training Clerical personnel training Subscriptions, reference material Admin. Overhead expenses for sewers (Auditor Entry) Temp. Employees Elizabeth Taxes (Estimated)			
2020 BUDGET		\$657,500					
2020 ANNUAL ESTIMATE		\$349,518					
HISTORY		Budget	Expended				
	2002	\$362,331	\$347,500				
	2003	\$416,266	\$345,500				
	2004	\$278,366	\$365,000				
	2005	\$330,545	\$391,000				
	2006	\$375,000	\$320,000				
	2007	\$354,826	\$375,000				
	2008	\$507,697	\$375,000				
	2009	\$316,343	\$375,000				
	2010	\$311,786	\$385,000				
	2011	\$373,674	\$385,000				
	2012	\$386,768	\$385,000				
	2013	\$441,691	\$385,000				
	2014	\$564,275	\$385,000				
	2015	\$548,518	\$583,227				
	2016	\$445,142	\$583,227				
	2017	\$583,227	\$479,818				
	2018	\$583,227	\$1,077,905		(Includes property purchase)		
	2019	\$583,227	\$666,409				
BUDGET	Includes anticipated auditor charge off of Sewer Admin Overhead expenses						99,000
			Sewers	TP	DWF	SDF	
BUDGET			\$60,000	\$390,000	\$100,000	\$0	\$550,000

ITEM #18- GENERAL MAINTENANCE

<b>2021 BUDGET</b>		<b>\$2,228,000</b>			
2020 BUDGET		\$2,440,000			
2020 ANNUAL ESTIMATE		\$1,844,478			
This item includes items necessary for the general maintenance of the entire facility (Treatment Plant, DWF, SDF) such as repair parts, hardware, supplies (janitorial, lab, electrical, boiler service, powerhouse service, etc. The expense history reflects as an indication, the age of the facilities.					
<b>HISTORICAL</b>					
	Expended	Budgeted		Expended	Budgeted
2000	\$969,295	\$928,000	2015	\$2,146,985	\$1,718,000
2001	\$1,148,269	\$930,000	2016	\$2,725,626	\$1,918,000
2002	\$957,918	\$1,097,000	2017	\$2,318,000	\$2,753,315
2003	\$1,004,829	\$1,050,500	2018	\$3,248,619	\$2,759,053
2004	\$896,915	\$1,000,000	2019	\$3,017,732	\$2,440,000
2005	\$1,037,000	\$1,170,068			
2006	\$1,136,000	\$1,071,326			
2007	\$1,264,014	\$1,125,100			
2008	\$1,087,100	\$1,282,241			
2009	\$1,192,044	\$1,232,600			
2010	\$1,390,600	\$1,511,850			
2011	\$1,495,645	\$1,320,000			
2012	\$1,872,156	\$1,446,500			
2013	\$1,421,500	\$2,708,336			
2014	\$1,466,500	\$2,333,100			
<b>Projects anticipated for 2021</b>					
Replace Boiler burners					\$32,000
Gravity Belt Press Parts					\$25,000
Shafts & Sprockets					\$12,000
Centrifugal Pump Parts					\$5,000
Torque Limiters					\$14,000
TB Power Rails					\$20,000
Replace Grit Troughs					\$42,000
Pump Rebuilds					\$50,000
Conveyor repairs					\$65,000
Skimmer Pumps parts					\$8,000
polymer system parts					\$8,000
Cogen Overhauls					\$600,000
Pug Mill parts					\$40,000
Collector Flights, chains					\$35,000
Positive Displacement Pump Parts					\$60,000
IDI Canon Lance Controls					\$15,000
Prog. Cav. Pump repairs					\$25,000
Bisulfite System repairs					\$15,000
Compressors Rebuild					\$60,000
Replace Traveling Bridge Skimmer Arms					\$60,000
Cogen Engine Heads					\$92,000
Engine PM Parts					\$70,000
				TOTAL	\$1,353,000
		TP	DWF	SDF	
Routine Maint & Repair		\$610,000	\$260,000	\$5,000	\$875,000
Major Projects		\$1,103,000	\$250,000	\$0	\$1,353,000
		<b>\$1,713,000</b>	<b>\$510,000</b>	<b>\$5,000</b>	<b>\$2,228,000</b>

ITEM #19-RESERVE CONTINGENCY

<b>2021 BUDGET</b>		<b>\$200,000</b>			
<b>2020 BUDGET</b>		<b>\$250,000</b>			
<b>2020 ANNUAL ESTIMATE</b>		<b>\$0</b>			
1. Potentail retirees for 2021					
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	
8 potential retirees		10,000	50,000	60,000	
age & yrs of service					
			Budget	\$60,000	
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				140,000	
<b>Summary</b>					
Plant				200,000	
Dewat				0	
Sewer				0	
Dryer				0	
Total				\$200,000	
<b>BUDGET</b>				<b>\$200,000</b>	

### ITEM #20- BUILDING MAINTENANCE

<b>2021 BUDGET</b>		<b>\$50,000</b>				
<b>2020 BUDGET</b>		<b>\$90,000</b>				
<b>2020 ANNUAL ESTIMATE</b>		<b>\$30,695</b>				
This item cover those items associated with repairs to buildings and grounds facilities such as windows, locks, doors, roof inspections & repairs, elevators and plant roads. Also anticipated are repairs to concrete walkways and painting of gallery piping.						
HISTORY						
	1996	\$58,872		2017	\$70,000	
	1997	\$80,000		2018	\$120,000	
	1998	\$121,036		2019	\$43,062	
	1999	\$39,141				
	2000	\$28,732				
	2001	\$29,204				
	2002	\$61,735				
	2003	\$36,489				
	2004	\$80,651				
	2005	\$101,968				
	2006	\$133,589				
	2007	\$98,618				
	2008	\$78,711				
	2009	\$46,804				
	2010	\$93,979				
	2011	\$28,374				
	2012	\$39,902				
	2013	\$120,054				
	2014	\$80,016				
	2015	\$81,888				
	2016	\$87,208				
		Sewers	TP	DWF	SDF	
BUDGET		\$0	\$35,000	\$15,000	\$0	\$50,000



## ITEM #21-PENSION

<b>2021 BUDGET</b>	<b>\$1,298,228</b>					
<b>2020 BUDGET</b>	<b>\$1,409,984</b>					
<b>2020 Expected</b>	<b>\$1,431,880</b>					
All employees are members of the State of New Jersey Public Employees Retirement System (PERS).						
Since 1998, the State of New jersey PERS has not assessed employers for the employer's portion of pension costs. Assessments were begun again in 2005.						
Assessment History						
2005	\$41,862					
2006	\$124,767					
2007	\$214,071					
2008	\$420,830					
2009	\$567,823					
2010	\$677,635					
2011	\$863,809					
2012	\$905,000					
2013	\$868,801					
2014	\$932,981					
2015	\$1,016,335					
2016	\$1,172,934					
2017	\$1,174,116					
2018	\$1,254,881					
2019	\$1,350,830					
2020 est	\$1,431,880					
2021est	\$1,298,228					
	Plant	Dewat	Sewer	Dryer	Total	
Total						
Salaries						0
	76%	20%	2%	2%	100%	
<b>2021 BUDGET</b>	986,653	259,646	25,965	25,965	1,298,228	

ITEM #22-SOCIAL SECURITY

<b>2021 BUDGET</b>		<b>\$957,001</b>					
<b>2020 BUDGET</b>		<b>\$935,393</b>					
<b>2020 ANNUAL ESTIMATE</b>		<b>\$848,717</b>					
The rate of 7.65% appears to be unchanged for 2020							
Budget #		Sewers	Plant	Dewat	Dryer	Total	
13	Salaries	222,123	2,628,742	1,736,847		4,587,712	
15	Labor	344,692	5,682,913	1,001,922	135,037	7,164,564	
19	Contingencies	0	200,000	0	0	200,000	
27	Board	0	92,134	0	0	92,134	
Total		566,815	8,603,789	2,738,770	135,037	12,044,411	
7.65%		43,361	693,793	209,516	10,330	957,001	
Budget							
<b>2021 BUDGET</b>						<b>\$957,001</b>	

ITEM #23 HOSPITAL PLAN

<b>2021 BUDGET</b>	<b>\$3,000,000</b>				
<b>2020 BUDGET</b>	<b>\$3,000,000</b>				
<b>2020 ANNUAL ESTIMATE</b>	<b>\$2,604,089</b>				
Hospitalization and major medical group health insurance for all employees					
Also covered under this category is the employee assistance program.					
<b>Increase of Approx 1.45% for active employees</b>					
			<b>2018</b>	<b>2019</b>	<b>2020</b>
					<b>2021</b>
<u>Retiree health insurance premiums</u>					
	Non Medicare		\$474,621	\$512,591	\$512,591
	Medicare		\$386,869	\$417,818	\$417,818
			\$861,490	\$930,409	\$930,409
<u>Hospitalization/Major medical</u>			<b>2018</b>	<b>2019</b>	<b>2020</b>
					<b>2021</b>
Salaried employees			\$715,513	\$772,754	\$772,754
30					
Pretreatment employees			\$199,593	\$215,560	\$215,560
7					
Plant employees			\$1,531,512	\$1,654,033	\$1,654,033
88					
Dryer employees			\$67,339	\$72,726	\$72,726
2					
Dewatering employees			\$306,959	\$331,515	\$331,515
11					
			\$2,820,916	\$3,046,589	\$3,046,589
138					
			<b>\$2,820,916</b>	<b>\$3,046,589</b>	<b>\$3,046,589</b>
<u>Employee Assistance Plan</u>		2 year contract thru 2021			
St. Barnabas Behavioral Health E.A.P.					
BUDGET					
			Annual Cost		
	2020		3,400		
	2021		3,400		
	E.A.P. budget		3,400		
Summary of Group Health and Employee Assistance Plans					
		Sewers	Plant	Dewat	Dryer
					Total
					*3090765
Hosp. Plan			1,648,458	331,515	72,726
Employee Asst.Plan			3,400		
Retiree Health			943,900		
Total			2,595,758	331,515	72,726
<b>BUDGET</b>		***Est Employee Contrib		1,038,065	<b>\$3,000,000</b>

[illegible]

## ITEM #25- SCREENINGS DISPOSAL

2021 BUDGET		\$262,000					
2020 BUDGET		\$232,000					
2020 ANNUAL ESTIMATE		\$198,263					
<p>Grit and screenings are presently being disposed of under contract with Spectraserv. A 3 year contract which awarded September 2020 has a unit price of \$140.70/ton (yr1); \$143/ton (yr2); \$146/ton (yr3).</p>							
HISTORICAL	BUDGET	EXPENDED	tons	\$77.78	Scum tons		
	1996	\$160,000	\$142,429	1831			
	1997	\$152,000	\$60,436	983	\$61.47		
	1998	\$130,000	\$128,558	2091	\$61.47		
	1999	\$130,000	\$147,654	2010	\$61.47	*660	\$50.60
	2000	\$130,000	\$155,908	2078	\$61.47	805	\$50.60
	2001	\$170,000	\$82,874	1348	\$61.47		
	2002	\$125,000	\$100,346	1498	\$67.00		
	2003	\$120,000	\$85,321	1202	\$71.00		
	2004	\$120,000	\$126,147	1777	\$71.00		
	2005	\$140,000	\$109,648	1544	\$71.00		
	2006	\$140,000	\$105,767	1490	\$71.00		
	2007	\$120,000	\$111,521	1520	\$71.00		
	2008	\$130,000	\$126,965	1428	\$84.00		
	2009	\$130,000	\$188,717	2300	\$88.50		
	2010	\$203,550	\$180,619	2041	\$88.50		
	2011	\$209,000	\$168,560	1905	\$88.50		
	2012	\$216,000	\$154,469	1643	\$94.02		
	2013	\$216,000	\$131,675	1401	\$94.00		
	2014	\$160,000	\$165,000	1755	\$94.00		
	2015	\$160,000	\$183,517	1598	\$114.84		
	2016	\$160,000	\$172,379	1501	\$114.84		
	2017	\$160,000	\$203,939	1776	\$114.84		
	2018	\$180,000	\$226,736	1812	\$114.84		
	2019	\$232,000	\$226,713	1974	\$114.84		
	EST 2020	\$232,000	\$215,065	1854	\$116.00		
BUDGET 2021		\$262,000		1880		Year 1 2021	\$140.70
						Year 2 2020	\$143.00
						Year 3 2023	\$146.00

## ITEM #26-UNEMPLOYMENT &amp; DISAB

<b>2021 BUDGET</b>	<b>\$50,000</b>					
<b>2020 BUDGET</b>	<b>\$50,000</b>					
<b>2020 ANNUAL ESTIMATE</b>	<b>\$35,288</b>					
Employer factor is 0.25% of 1st \$33,500 for 2021						
2021 limit is set by law at	\$33,500.00					
	Plant	Dewat	Sewers	Dryer	Total	
# of employees	118	16	2	2	138	
	\$9,617	\$1,304	\$163	\$163	\$11,247	
Disability Budgeted	\$8,400	\$1,200	\$200	\$200	\$10,000	
Unemployment liability	\$34,400	\$4,800	\$400	\$400	\$40,000	
<b>BUDGET</b>	<b>\$42,800</b>	<b>\$6,000</b>	<b>\$600</b>	<b>\$600</b>	<b>\$50,000</b>	

## ITEM #27-EXECUTIVE COMMITTEE

[illegible]

ITEM #28- COUNSEL FEES

2021 BUDGET	\$400,000					
2020 BUDGET	\$300,000					
2020 ANNUAL ESTIMATE	\$300,000					
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	
		2017	\$300,000		\$261,008	
		2018	\$300,000		\$224,174	
		2019	\$300,000		\$208,000	
		Sewers		\$10,000		
		Treatment Plant		\$360,000		
		DWF		\$20,000		
BUDGET		SDF		\$10,000		
		Total for Budget		\$400,000		



## ITEM #29-OFFICERS

[illegible]

ITEM # 30 ADMINISTRATIVE GROUP BENEFIT PLAN

<b>2021 BUDGET</b>		<b>\$345,506</b>				
<b>2020 BUDGET</b>		<b>\$425,560</b>				
<b>Expected 2020</b>		<b>\$339,463</b>				
Covers non-union staff, including management, clerical & supervisory for:					48 Employees	
1	Dental	Blue Cross/Blue Shield				
2	Basic life insurance and AD&D	Hartford				
3	Vision	Principal Insurance				
4	LTD	Reliance				
5	Prescription Plan	Optum (State of NJ Plan)				
1	Blue Cross Direct Dental Plan					
		Monthly	Term	Total		
		\$4,247	9 mos.	\$38,223		
		\$4,247	3 mos.	\$12,741		
			<b>Total</b>	<b>\$50,964</b>		
		2%	1019	<b>\$51,983</b>		
2	Life/AD&D-AIG (New Vendor)	0%	<b>2018</b>	<b>2019</b>	<b>2020</b>	
			\$2,575	\$2,575	\$2,575	
3	Vision-Principal	no change	\$9,000		\$9,000	
4	LTD-Reliance	0% increase	\$14,027		\$14,027	
5	State Prescription Plan-Unknown if increase-anticipate 8%		\$186,300	14904	201,204	
<u>Summary of all plans for 2019</u>			<b>2</b>	<b>42</b>	<b>4</b>	<b>48</b>
			Sewers	Plant	Dewat	Total
	BC/BS Dental		\$4,719	\$91,759	\$8,389	\$104,867
	Life/AD&D		\$115	\$2,253	\$206	\$2,575
	Vision		\$1,142	\$22,218	\$2,031	\$25,392
	LTD		\$631	\$12,274	\$1,122	\$14,027
BUDGET	RX		\$9,774	\$190,050	\$17,376	\$217,200
		<b>Sub T</b>	<b>\$16,381</b>	<b>\$318,553</b>	<b>\$29,125</b>	<b>\$364,061</b>
	****Union Dental \$4330 per month			\$51,960		
	***Union Vision \$795 per month			\$9,541		
	Total		16,381	300,000	29,125	345,506
	<b>BUDGET</b>					<b>\$345,506</b>

ITEM #31-UNION WELFARE BENEFIT FUND

2021 BUDGET	\$0				
2020 BUDGET	\$0				
2020 ANNUAL ESTIMATE	\$0				
Union contract provides for dental, vision and prescription benefits					
Joint Meeting pays the cost of the premiums.					
Distribution					
	Sewers	Plant	Dewat	Dryer	Total
# of employees	1	79	14	0	94
				0	
2020 Budget				\$0	0
<b>TOTAL BUDGET</b>					<b>\$0</b>

### ITEM #32- REPLACEMENT FUND

[illegible]

**ITEM #33-PERMIT FEES**

<b>2021 BUDGET</b>	<b>\$805,000</b>					
<b>2020 BUDGET</b>	<b>\$815,700</b>					
<b>2020 ANNUAL ESTIMATE</b>	<b>\$628,479</b>					
<div style="border: 1px solid black; padding: 5px;"> <p>This item is for NJPDES permits including the wastewater treatment facility and drying facility permits issued by the NJDEP as well as other operating permits issued by NJDEP, USEPA and USNRC. The Treatment Plant NJPDES fee is normally based on wastewater characteristics (flow, BOD, TSS) as measured prior to discharge to the Arthur Kill. The permit fee system supports the NJDEP Budget. As of the 2000 Budget this item incorporates the Miscellaneous Permit Fees (previously Item #34).</p> </div>						
	Historical NJPDES Permit Fee					
	1996		\$490,300		2009	\$410,936
	1997		\$228,173		2010	\$500,000
	1998		\$230,760		2011	\$401,000
	1999		\$229,517		2012	\$341,877
	2000		\$270,966		2013	\$464,557
	2001		\$237,595		2014	\$506,692
	2002		\$250,085		2015	\$479,878
	2003		\$316,646		2016	\$565,109
	2004		\$248,074		2017	\$568,700
	2005		\$211,648		2018	\$505,788
	2006		\$284,630		2019	\$733,127
	2007		\$305,997			
	2008		\$354,503			
	This item includes permits, fees, etc. to be paid to Regulatory Agencies for the following:					
	NJDEP-NJPDES PERMIT: TREATMENT PLANT				\$650,000	
	Plant Storm Sewer Permit				\$1,500	
	Underground Storage Tank (TP & DWF)				\$3,000	
	Laboratory Certification Fees (TP)				\$2,500	
	NJDEP Physical Connection Permit (TP & DWF)				\$1,000	
	Air Permit Applications-Modifications				\$15,000	
	Nuclear Level Sensors(DWF & SDF)				\$2,500	
	Hazardous Waste Disposal permit fees				\$3,000	
	NJPDES Combined Sewer				\$18,200	
	Air Emissions Fee				\$77,000	
	Miscellaneous (TP & DWF) TCPA, TWA, DPCC				\$25,000	
				Total	\$798,700	
						say
Budget			Sewers		\$19,700	\$10,000
			Treatment Plant		\$776,500	\$775,000
			Sludge Dewatering		\$19,500	\$20,000
			Sludge Drying		\$0	\$0
			TOTAL		\$815,700	\$805,000
			Budget		\$805,000	

ITEM #34- MISC PERMITS-FEES

[illegible]

## ITEM #35- NJED AUTHORITY LOAN

<b>2021 BUDGET</b>		<b>\$0</b>				
<b>2020 BUDGET</b>		<b>\$0</b>				
<b>2020 ANNUAL ESTIMATE</b>		<b>\$0</b>				
This item covers the amount of money which must be repaid to the New Jersey Economic Development Authority on an annual basis to repay the \$4.5 million interest free loan to help fund the Drying Facility. \$250,000 per year for 18 years for a total of \$4.5 million. The first payment was made in July 1996. The loan was specifically to assist sewage agencies in mitigating costs caused by the cessation of ocean disposal of sludge. Payments are due November of each year.						
	PAYMT #	DATE	AMOUNT	TOTAL PAYMENT TO DATE	LOAN BALANCE	
	1	Jul-96	\$250,000	\$250,000	\$4,250,000	
	2	Nov-97	\$250,000	\$500,000	\$4,000,000	
	3	Nov-98	\$250,000	\$750,000	\$3,750,000	
	4	Nov-99	\$250,000	\$1,000,000	\$3,500,000	
	5	Nov-00	\$250,000	\$1,250,000	\$3,250,000	
	6	Nov-01	\$250,000	\$1,500,000	\$3,000,000	
	7	Nov-02	\$250,000	\$1,750,000	\$2,750,000	
	8	Nov-03	\$250,000	\$2,000,000	\$2,500,000	
	9	Nov-04	\$250,000	\$2,250,000	\$2,250,000	
	10	Nov-05	\$250,000	\$2,500,000	\$2,000,000	
	11	Nov-06	\$250,000	\$2,750,000	\$1,750,000	
	12	Nov-07	\$250,000	\$3,000,000	\$1,500,000	
	13	Nov-08	\$250,000	\$3,250,000	\$1,250,000	
	14	Nov-09	\$250,000	\$3,500,000	\$1,000,000	
	15	Nov-10	\$250,000	\$3,750,000	\$750,000	
	16	Nov-11	\$250,000	\$4,000,000	\$500,000	
	17	Nov-12	\$250,000	\$4,250,000	\$250,000	
	18	Nov-13	\$250,000	\$4,500,000	\$0	
<b>SDF</b>			<b>\$0</b>			

JOINT MEETING OF ESSEX UNION COUNTIES Facility Summary Breakout

		COLLECTION SYSTEM	TREATMENT PLANT	SLUDGE DEWATERING FACILITY	SLUDGE DRYING FACILITY	TOTAL ALL FACILITIES
		2021 BUDGET	2021 BUDGET	2021 BUDGET	2021 BUDGET	2021 BUDGET
1	VEHICLES	\$11,250	\$73,000	\$6,750		\$91,000
2	EQUIP RENTAL	\$240,000	\$120,000	\$40,000		\$400,000
3	INSURANCE	27,536	\$ 688,392	137,678	64,250	\$917,856
4	WATER		\$80,000	\$73,000	\$3,000	\$156,000
5	ELECTRIC		\$900,000	\$100,000	\$0	\$1,000,000
6	GAS		\$800,000	\$100,000	\$0	\$900,000
7	FUEL OIL		\$70,000	\$28,100		\$98,100
8	SEWER REPAIR	\$30,000				\$30,000
9	METER REPAIRS	\$330,000				\$330,000
10	EQUIP		\$289,500	\$62,000		\$351,500
11	CHEMICALS	\$9,000	\$3,467,700	\$940,150	\$6,800	\$4,423,650
12	SLUDGE DISP			\$3,600,000		\$3,600,000
13	SALARIES & WAGES	\$328,593	\$2,628,742	\$1,736,847		\$4,694,182
14	TECHNICAL PROF. SERV.	\$25,000	\$1,036,000	\$50,000	\$0	\$1,111,000
15	LABOR	\$344,692	\$5,682,913	\$1,001,922	\$135,037	\$7,164,564
16	PRINTING	\$1,000	\$17,000	\$2,000		\$20,000
17	MISC EXPENSES	\$60,000	\$390,000	\$100,000	\$0	\$550,000
18	GEN PLANT MAINT		\$1,713,000	\$510,000	\$5,000	\$2,228,000
19	RESERVE CONTINGENCY		\$200,000			\$200,000
20	BUILDING MAINT		\$35,000	\$15,000		\$50,000
21	PENSION	\$25,965	\$986,653	\$259,646	\$25,965	\$1,298,228
22	SOCIAL SECURITY	\$43,361	\$693,793	\$209,516	\$10,330	\$957,001
23	HOSPITAL PLAN	\$0	\$2,595,758	\$331,515	\$72,726	\$3,000,000
24	UNIFORMS	\$3,600	\$145,800	\$30,600		\$180,000
25	SCREENINGS		\$262,000			\$262,000
26	UNEMPLOYMENT	\$600	\$42,800	\$6,000	\$600	\$50,000
27	EXECUTIVE COMMITTEE		\$98,013			\$98,013
28	COUNSEL FEES	\$10,000	\$360,000	\$20,000	\$10,000	\$400,000
29	OFFICERS					\$0
30	ADMIN GROUP PLAN	\$16,381	\$300,000	\$29,125		\$345,506
31	UNION WELFARE FUND	\$0	\$0	\$0	\$0	\$0
32	CAPITAL FUND		\$2,000,000			\$2,000,000
33	NJPDES PERMIT FEE	\$10,000	\$775,000	\$20,000	\$0	\$805,000
34	MISC PERMITS-FEES					\$0
35	NJED AUTHORITY LOAN				\$0	\$0
BUDGET						
	TOTAL	\$1,516,978	\$26,451,064	\$9,409,850	\$333,708	\$37,711,600



**Joint Meeting 2021**  
**Budget: \$37,711,600**

