THE JOINT MEETING OF ESSEX AND UNION COUNTIES 2017 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. RICHARD SUN
HON. CARL HOKANSON

Adopted: NOVEMBER 10, 2016

ITEM #1- VEHICLES

					İ	
2017 BUDGET		\$91,000				
2016 BUDGET		\$97,000				
2016 ANNUAL E	ESTIMATE	\$75,000				
	compasses vehicles			d		
	airs performed by th					
	ed that replacement	vehicles will	be necessary as	s follows:		
Replacemen	t vehicles:					
0	nt Dlamt Carta		\$0.000			
∠ replaceme	nt Plant Carts		\$8,000			
Replace 2 M	ech Dept vans		\$12,000			
	n Elect Dept		\$6,000			
1 topiado 1 ve			ψ0,000			
			\$26,000			
The estimate	ed cost for typical gas	soline, oils an	d repairs is :			
					\$65,000	
	Vehicles	gas & oils	Rep/etc.			
Sewers	\$0	\$13,000		\$16,250		
Treatmt Plt	\$23,333	\$26,000	\$13,000	\$62,333		
DWF	\$2,667	\$6,500	\$3,250	\$12,417		
BUDGET	\$26.000	¢45 500	¢10 500	¢01.000		
BUDGET	\$26,000	\$45,500	\$19,500	\$91,000		

ITEM #2- EQUIPMENT RENTAL

\$300,000				
\$300,000	Historical	expenses		
\$350,000	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	·	
	_	_	_	
	\$300,000	\$300,000 Historica \$350,000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	\$300,000 Historical expenses \$350,000 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	\$300,000 Historical expenses \$350,000 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

Work completed by utilizing Equipment rental has been:

- 1) Off loading of equipment delivered to site (cranes & forklifts)
- 2) Cleaning of scum pits, scum and grit lines, centrate system at DWF
- 3) Storm sewer manhole maintenance
- 4) Trunk sewer maintenance
- 5) rental of 30 cubic yard containers

Equipment rental expenses are variable depending upon the needs due to equipment deliveries and the rate of "struvite" buildup in the centrate lines. For 2016 equipment rental was competitively bid.

In addition, for 2017 bids were received for emergency excavation services. The excavation services were used in 2016 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.

bid	\$90,000	**				_
additional	\$50,000					
excavating services	\$100,000	**				
Off loading & cranes	\$20,000					
30 yd containers	\$15,000					
Debris removal						
Millburn Crossing	\$25,000					
TOTAL	\$300,000		Sewers	TP	DWF	
BUDGET	\$300,000		\$180,000	\$90,000	\$30,000	

ITEM # 3-INSURANCE

2017 BUDGET		\$ 835,374			
2016 BUDGET		\$ 755,320			
2016 ANNUAL ES	TIMATE	\$755,000			
		,			
COOT DISTRIBUT	10110040 0041				
COST DISTRIBUT			ь .	<u> </u>	-
	Sewers	Plant	Dewat	Drying	Total
Boiler		04.053	10.001	10.001	-
Property		91,957	18,391	12,261	122,609
Gen Liability	827	41,336	8,267	4,685	55,114
Auto	144	7,183	1,437	814	9,577
LTD					
Inland Marine	-		-		-
Equip					22,334
Flood	-	24,948	5,852	-	30,800
Wk comp	5,600	279,998	56,000	31,733	373,331
Pollution	-	12,688	12,688		25,376
Umbrella	793	39,629	7,926	4,491	52,839
Public Officials	253	12,640	2,528	1,433	16,853
Crime	174	1,042	260	260	1,736
Terrorism	605	3,631	908	908	6,052
Fees & Surcharges		4,865	973	551	6,486
Total	8,492	519,916	115,230	57,136	\$ 723,107
	2017 estimate		_		Total Est. 2017
Months	4		8		
Boiler		INCL		-	
Property*	40,870		94,000	134,870	\$ 144,985
Gen Liability*	18,371		42,254	60,625	65,172
Auto*	3,192.33		7,342	10,535	11,325
LTD		INCL	-	-	-
Inland Marine*	-		-	-	-
Equip	7,445		17,123	24,567	26,410
Flood*	10,267		23,613	33,880	36,421
Wk Comp	124,444		286,220	410,664	422,984
Pollution*	8,459		19,455	27,914	30,007
Umbrella*	17,613		40,510	58,123	62,482
Public Officials*	5,618		12,921	18,538	19,094
Crime*	579		1,331	1,910	1,967
Terrorism	2,017		4,640	6,657	6,857
Fees & Surcharges	2,162		4,973	7,135	7,670
					835,374
	Sewers	Plant	Dewat	Drying	Total
	3.00%	75.00%	15.0%	7.00%	100.00%
	25,061.23	\$ 626,530.81	125,306.16	58,476.21	835,374
	20,001.23	Ψ 020,030.61	120,300.10	56,470.21	030,374
TOTAL	241,036		554,382	\$ 795,418	\$ 835,374

ITEM #4- WATER SERVICE

2017 BUDGET		\$138,500							
2016 BUDGET		\$138,500							
2016 ANNUAL ESTI	MATE	\$96,693							
HISTORICAL SUMMARY	COST	CU FT CONSUMED	\$RATE/ CU FT	TP USAGE	DWF USAGE	SDF*	Effective Rate Change		
1997	\$105,346	5,955,413		64.73%	35.27%				
1998	\$129,335	7,096,534	\$0.0182	64.84%			3.03%		
1999	\$168,631	7,764,332	\$0.0217	66.03%			19.17%		
2000	\$173,323	7,519,362	\$0.0231	67.19%			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		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	/ears
2014		2,154,294	\$0.0415	72.94%	27.06%			Avg last 3	
2015	\$111,140	1,957,238	\$0.0568	57.64%	42.36%		4.99%	Avg last 3	/ears
2017 BUDGET	TRT PLT	DWF	DRYER	TOTAL CU FT	RATE				
	1,600,000	600,000	0	,,	\$0.0596				
	\$95,389	\$35,771	\$0	\$131,159					
		Water Facility		641/					
TD.	\$05.000	Charge	405.000	SAY					
TP	\$95,389		\$95,389	\$95,000					
DWF	\$35,771	#0.500	\$35,771	\$40,000					
SDF	\$0	\$3,500	\$3,500	\$3,500				ļ	
DUDOET	#400 F00			\$138,500				ļ	
BUDGET	\$138,500							ļ	

ITEM #5- ELECTRIC SERVICE

2017 BUDGET		\$1,160,120								T
2016 BUDGET		\$1,065,500								
2016 ANNUAL ESTIMA	ATE	\$853,000								
		, ,								1
										1
HISTORY				AVG. SUPPLY PE	R MONTH		DEMAND PER MC	NTH		1
	Utility AVG	AVG EXPENSE/MO					-			1
YEAR	USAGE/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	,	engine #3 on line 7/1986			
1987	836,000		0.063	1,627,593	836,000	793,832				
1988	1,052,800	\$66,225	0.063	1,828,824	1,052,800					
1989	981,600		0.065		981,600					
1990	1,025,600		0.067	1,900,207	1,025,600					
1991	1,185,600	\$81,779	0.069		1,185,600					
1992	1,249,600	\$85,061	0.068	2,113,636	1,249,600	851,947	1,907,982			
1993	1,332,000	\$95,149	0.071	2,234,215	1,332,000	899,787	2,050,339			
1994	1,363,200	\$98,402	0.072	2,224,419	1,363,200	858,880	2,025,589			*
1995	1,228,800	\$95,449	0.078		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	- ,	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	1
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		770,366	1,389,860	1,945,189	213,318	1,720	1
2011	717,614	\$79,215	0.110		717,614	1,400,601	1,889,251	214,913	14,051	1
2012	616,000		0.101	2,056,597	616,000	1,440,597	1,819,340	219,600	17,657	1
2013	496,400		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	0.128	2,010,000	454,981	1,555,109	1,784,268	215,354	10,468	*2
est 2016	868,327	\$70.597	0.081	2,338,356	868,327	1,470,029	2,107,011	224,643	6,703	
	from Cogen for 20	+ -,	0.001	\$222,440	*	DIGESTER #2 OUT		****** DIGESTER		
Communica Savings	nom cogem of 20	ANNUALLY		\$2,669,282.80	**	DIGESTER #2 RETU		<<< New Co		
		ANNOALLI		ΨΖ,000,202.00	***	DIGESTER #2 RETO		146W CO	gon o c pt to	7, 2003
					****	DIGESTER #1 OUT				+
					****	DIGESTER #4 CON		 		
					*1	DIGESTER #2 OUT		 		
						DIGESTER #2 OUT				+
						DIGLOTEIN#1001	OI GERVIOL			†
								 		
		l .		l .	1			1		

Expected electric	al kw domand for	2017	 	EM #5- ELECTRIC	SERVICE				
Expected electric		DWF KW	Drawn IOM						
Year	Trt Plt KW Avg/mon	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						
2001	2,041,833	225,513	143,692						
2002	2,199,044	129,382	78,525						
2003	2,172,586	237,788	38,360						
2004	1,980,412	224,250	27,332					<u> </u>	
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						
2010	1,889,251	214,913	14,051						
2012	1,819,340	219,600	17,657						
2012	1,782,213	208,072	15,179						
2013	1,823,314	177,233	16,061						
2014			10,468						
est 2016	1,784,268 2,107,011	215,354	6,703						
Avg 14, 15, 16	1,904,864	224,643 200,220	13,903						
Avg 14, 15	1,803,791	192,652	15,620						
Avg 15, 16	1,945,639	192,652	13,265						
Expected 2016	1,884,765	195,175	15,179						
say	1,820,000		15,000						
	otal Demand per			2,035,000					
FY 2017	24,420,000	KWH							
Generator produc		Monthly Avg							
1999	670,942	2005	611,457	2011	1,400,601				
2000	656,755	2006	545,760	2012	1,440,597				
2001	646,347	2007	629,800	2013					
2002	633,553	2008	670,347	2014	1,432,084				
2003	619,752	2009	743,294	2015	1,575,000				
2004	649,227	2010	1,389,860	2016	1,470,029				
		for 2017	1,575,000						
PSE&G=	total demand - (Co	gen production-pro	duction loss)						
	24,420,000	18,900,000	2,900,000	>>>>>	8,420,000				
8,420,000	say:	8,420,000			\$/KwH				
cost		\$892,520							
add area lighting &		\$15,000							
Add PSE&G Dist C		\$252,600		88.9%	10.4%	0.8%	100.0%		
Sales Taxes									
EST	\$1,160,120		Sewers	TP	DWF	SDF			
			\$0	\$1,030,974	\$120,365	\$8,781	\$1,160,120		
BUDGET	\$1,160,120			Page 6					

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2017 BUDGET		\$496,200	This item incl	udes gas utilized at:			
2016 BUDGET		\$435,200	1) Treatment	plant laboratory			
2016 ANNUAL EST	IMATE	\$433,029		ig in select areas			
		,		ntal fuel for Cogen			
				iler & hot water in D	WF		
			5) Boiler #1 ii	n P&O Bldg.			
HISTORY							
YEAR	\$	Avg.RATE/CU FT	TPLT	COGEN	DWF	SDF	TOTAL CU FT
200		0.0068	1,351,100	2,021,700	8,589,800	7,847,000	19,809,600
200	+,	0.0085	153,800	149,282	1,326,700	29,309,000	30,938,782
200		0.0051	8,800	5,500	3,022,800	71,960,000	74,997,100
200		0.0095	4,000	5,200	10,665,900	10,472,000	21,147,100
200	. ,	0.0245	3,000	0	901,200	0	904,200
200		0.0236	1,200	0	948,400	0	949,600
200	. , , .	0.0129	1,000	5,596,700	76,700	1,127,300	6,801,700
200	,	0.0060	1,000	8,686,400	7,698,900	0	16,386,300
200	\$300,388	0.0157	335,500	8,160,000	10,620,800	0	19,116,300
200	9 \$236,916	0.0093	0	23,578,000	1,955,700	0	25,533,700
201	0 \$401,855	0.0092	0		7,067,000	0	43,807,000
201	1 \$448,757	0.0098	0	32,339,000	13,428,600	0	45,767,600
201	2 \$402,109	0.0076	0		11,119,500	0	52,845,500
201	3 \$753,165	0.0080	0	79,300,000	14,631,000	0	93,931,000
201	4 \$557,755	0.0074	0	62,550,000	12,416,000	3300	74,969,300
201		0.0078	1000	62,550,000	10,968,000	0	
est 2016	\$433.029	0.0059	0	. , ,	10,695,750	0	
rates and the Year	availability of methane g BTUs required	e and, like fuel oil, is temper as for power generation and Fuel oil BTUs	heating. Natural gas BTUs	Drier Nat Gas BTU	Cost per 1000 B		
200	53,908,194,600	32,328,174,600	12,560,730,000	9,019,290,000	\$0.007596		
200		, , ,	1,711,271,100	30,774,450,000	\$0.007001		
200	, , ,		3,188,955,000	75,558,000,000	\$0.004920		
200	-,,	, , - ,	11,208,855,000	10,995,600,000	\$0.007775		
200	, , ,		949,410,000	0	\$0.009020		
200	, ,		997,080,000	0	\$0.009076		
200			5,958,120,000	1,183,665,000	\$0.012116		
200			8,085,997,000	0	\$0.016309		
200	, -		20,072,115,000	0	\$0.015594		
200			26,811,317,400	0	\$0.010208		
201			45,998,085,000	0	\$0.011200		
201	- ,, - ,		48,055,980,000	0	\$0.013175		
201			55,487,775,000	0	\$0.010692		
201			68,579,420,000	0	\$0.009584		
201			78,714,300,000	0	\$0.005980		
201			78,296,400,000	0	\$0.004151		
est 2016	83,377,659,300		77,246,137,500	0	\$0.005853		
	NG cu ft	RATE	EXTENSION	Service Chg		SAY	
P&O/Treatment	0		φ0	¢100	#100	# 200	
Plt./Lab	•	#0.00 <u>F</u> 0	\$0	\$132 \$26.540	\$132	\$200	
Cogen	65,000,000	\$0.0059	\$380,250	\$26,540	\$406,790	\$406,000	
DWF	13,000,000	\$0.0059	\$76,050	\$16,540	\$92,590	\$90,000	
Dryer	0		\$0	\$0	\$0	\$0	
Total	78,000,000		\$456,300	\$43,212	\$499,512	\$496,200	
BUDGET	\$496,200	1		Ī	1	1	1

ITEM #7- FUEL OIL AND KEROSENE

2017 BUDGET	\$226,500					
2016 BUDGET	\$391,500					
2016 ANNUAL ESTIMATE	\$49,080					
			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			\$2.88	
		2009	202,796	\$331,166	\$1.63	
		2010	188,673		\$1.60	
		2011	138,675	\$303,926	\$2.19	
		2012	19,874	\$81,584	\$4.11	
		2013		\$36,361	\$3.89	
		2014		\$344,058	\$3.31	
		2015		\$77,942	\$1.97	
		est 2016	33,119	\$49,080	\$1.48	
			·			

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 2017

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 i	need for 2017		@	\$2.50	PER GAL		
					Fuel oil	Kerosene	BUDGET
Treatment	Plant	75,000		\$187,500	\$187,500	\$1,000	\$188,500
DWF		15,000		\$37,500	\$37,500	\$500	\$38,000
SDF		0		\$0	\$0	\$0	\$0
		90,000	gallons	\$225,000			\$226,500
		kerosene		\$1,500			
		TOTAL		\$226,500			
		BUDGET		\$226,500			

ITEM #8 - SEWER MAINTENANCE

0040 DUD 0	ĒΤ	\$60,000					
2016 BUDGE	T	\$60,000					
2016 ANNUA	L ESTIMATE	\$55,000					
This it are					41		
			es and covers, a				ea auring
ine annua	i sewei irispec	lions, NJ One	Call" System ar	id minor cie	aning proje	CIS.	
Major ren	airs are charge	ed against the S	Sewer Replacer	ment Fund v	which is sub	sequently r	6 -
			upon the exist				
			spections were				
			in Sections I, II				
			were identified				
			e been made o	ii is segine	inis. Subse	quent conti	acis wiii
address tr	ne remaining s	egments.					
	T	1		l			
			SEWERS				
			SEWERS				
Sewer Cle	aning/TV inspe	ections	SEWERS \$25,000				
		ections					
NJ One Ca			\$25,000				
NJ One Ca	all System ames, minor re		\$25,000 \$5,000 \$30,000				
NJ One Ca	all System		\$25,000 \$5,000				

ITEM #9- METER REPAIRS

2017 BUDGET	\$317,000					
2016 BUDGET	\$317,000					
2016 ANNUAL ESTIMATE	\$317,000					
This item involves the for 2015 have included Replacement and Meand repairs as well at For 2017 the budged repairs outside the second repairs are second repairs outside the second repairs as the second repairs outside the second repairs are second repairs outside the second repairs as the second repairs are second repairs outside the second repairs are second repairs outside the second repairs are second repairs outside the second repairs outside	led: laintenance services as the relocation of r t includes maintenar	s of the meterin meters to obser nce agreements	g system in ve flow patt s to maintai	cluding inspectors in the	pection, cali trunk sewer	bration ·.
	OFWEDO					
METERS	SEWERS					
METERS	\$317,000					

ITEM #10- EQUIPMENT

2017 BUDGET	\$715,500						
2016 BUDGET	\$568,500						
2016 ANNUAL ESTIMATE	\$450,000						
	,,						
Traveling Bridge Gearboxe	c		\$21,000				
Travelling Bridge Gearboxe	3		Ψ2 1,000				
Nash Compressor Rebuild			\$20,000				
Sump Pump			\$16,000				
Submersible Pump Replace	ements		\$40,000				
Polymer Pumps	ements		\$50,000				
olymer r dilips			Ψ30,000				
Bar Screen Parts			\$50,000				
Torque Limiters			\$16,000				
Traveling Bridge motors an	d transformers		\$12,000				
Grinders Grinders	la transformero		\$12,000				
Waste Gas Burners			\$10,000				
Flame Traps			\$25,000				
Cogen Rebuilds Top End			\$140,000				
Samplers			\$20,000				
Replace Graphite Furnace	(Lah)		\$125,000				
Tripple Beam Balance	(Lab)		\$4,500				
Ash Oven			\$3,000				
New Service Water Pump	/FD		\$16,000				
Hypochlorite Pumps F							
			\$10,000				
Access Control Systems La	ab & P&O Bullaing	js –	\$43,000				
Backhoe			\$82,000				
			\$715,500				
0017				DV/E	055		
2017		Sewers	TP	DWF	SDF	Φ74E E00	
		\$0	\$335,000	\$380,500	\$0	\$715,500	

ITEM #11- CHEMICALS

2017 BUDGET		\$2,673,263	This item is con	nnrised of:		1	ĺ			
2016 BUDGET		\$2,828,263		1) Chlorine (Trt	Plt)	7) Potassium I	Permanganate (Tr	t Plt & DWF)	
2016 ANNUAL ESTIMATE		\$2,700,000		2) Polymer (Trt			llant (Trt Plt & DV			
		, , ,		3) Struvite Trea		9) Deodorizer		Ι΄		
				4) Lime (DWF)			ol (Trt Plt & DWF))		
				5) Sodium Bisu	lfite		er Treatment (SD			
				6) Herbicide (Tr			oxide Inerting Sys			
BUDGET						13) Digester A				
Sodium Hypochlorite	(Treatment Plan	t) chlorination of	wastewater efflu	ent prior to disch	narge	, J				
		017 use \$0.54/g			,	'				
	Contract for 2	017 use \$0.54/g	jai I			_				
		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	1,500,000	\$1,005,000	\$0.67						
BUDGET 2017:		1,500,000	\$850,000	\$0.54						
		, ,	, ,	,						
Polymer										
Used at A) Treatment Plant in B) DWF in dry form a				cess in the cent	rifuges					
Contract to supply liqu	id polymer for ye	ear 2017(EST) u	01							
For 2017: 125,000 #/m	no X 12 mo X \$0.	11/# = \$165,000								
				SAY \$1	170,000			L		
Contract for Dry polyme For 2017: 30,000#/m			00	SAY \$	550,000					
POLYMER										
Trt. Plt	\$170,000									
DWF	\$550,000									
BUDGET 2017	\$720,000		2016 Budget	\$720,000		ļ				
Struvite Treatment	A 12 22 =			.	Llood to	rotard the done	I sition of struvite in	the centret		<u> </u>
DWF 2017	\$40,000		2015	\$40,000	0260 10	retaru trie depos	Sidon Of Struvile In	me centrate	7	
						1				ı
Detection Dermander						1				
Potassium Permanganate						1				
	cost/lb					1				
est	\$2.25					1				
DEDMANGANATE				FOT		1				
PERMANGANATE	#00 7F0		lbs	EST		1				
Trt. Plt	\$33,750		15,000	\$33,750						
DWF	\$0 \$22.750		0	\$0	0015	004.000				
BUDGET 2017	\$33,750				2015	\$31,800				

Lime	Danisa dat DV	// fam. al l. a.dia.t			LIME HOE HACE	DEEN CHODEN	IDED AC A I	DECLUT OF AN	
Limo		VF for pH adjustm VISPOSAL METH		and stabilization.	LIME USE HAS E	BEEN SUSPEN	IDED AS A I	RESULT OF AN	
	ALIERNATED	13PUSAL IVIETH	OD						
BUDGET 2017	\$0		2015 Budget	\$0					
50542. 2017	•		Zo io Baagot	Ψΰ					
SODIUM BISULFITE	Dog	ired by the NIDI	OFC normit for t	a a ramayal of ra	sidual ablarina in the	a traatmant nla	at offluent	TCT 01 F1/mol	
CODIONI DICCEI IIE		gal/day x 365 = \$2		ne removal of res	sidual chlorine in the	e treatment pia	nt effluent.	EST \$1.54/gar	×
	530 (yai/uay x 300 = \$2	291,913						
									T
BUDGET 2017	\$297,913		2015 Budget	\$241,125					<u> </u>
2020212011	4_07,010		2010 Baagot	Ψ2,.20					1
MISCELLANEOUS CHEMICALS									
1111002222 1112000 0112111107 120		SEWERS	Trt. Plt.	DWF	DRYER				<u> </u>
WEED KILLER		02.112.10	\$1,700	\$300	\$300				1
BUG REPELLENT			\$500	\$300	\$100				
DEODORANT			φοσο	\$800	ψ100				1
PEST CONTROL		1	\$3,500	\$1,500	\$1,000				
SODA ASH (Cogen)			\$15,000	ψ1,500	Ψ1,300				†
Carbon (SAG Media)		1	\$40,000						†
Iron Sponge Media Cogen		1	\$140,000						†
OTHER CHEMICALS		\$2,200	\$3,000	\$1,000	\$400				<u> </u>
OTTIET OF IEMIONEO	sub-tot	\$2,200	\$203,700	\$3,900	\$1,800	\$211,600			<u> </u>
	oub tot	ΨΣ,Σ00	Ψ200,700	ψ0,000	ψ1,000	Ψ211,000			1
MISC CHEM									
BUDGET 2017	\$211,600		2016 Budget	\$191,600					
DODGET 2017	\$211,000		ZOTO Budget	Ψ131,000				-	
Boiler Water Treatment									<u> </u>
Donor Water House									1
BUDGET 2017	\$5,000		2016 Budget	\$5,000				-	
50542. 2017	\$0,000		2010 Baagot	ψο,σσσ					
Carbon Dioxide System									1
Carbon Broxide Cyclem									<u> </u>
BUDGET 2017	\$0		2016 Budget	\$0					1
30342. 2017	-		Zo To Baagot	Ψ					
Digester Treatment									1
Budget 2017	\$480,000		2016 Budget	\$480,000					1
- augot 2017	V 100,000		2010 Baagot	ψ100,000					
Water Filter Chemicals									
Budget 2017	\$35,000		2016 Budget	\$25,000					
-	,,,,,,			7=2,200					<u> </u>
BUDGET 2017 Summary									†
		TREATMENT							1
	SEWERS	PLANT	DEWATER	DRYING	TOTAL				
SODIUM HYPOCHLORITE		\$850,000			\$850,000				†
POLYMER		\$170.000	\$550,000		\$720.000				†
STRUVITE TRTMNT		Ţz, 300	\$40,000		\$40,000				<u> </u>
PERMANGANATE		\$33,750	\$0		\$33,750				†
LIME		, , , , , , ,	\$0		\$0				1
SODIUM BISULFITE		\$297,913	, ,		\$297,913				
MISC. CHEM.	\$2,200	\$203,700	\$3,900	\$1,800	\$211,600				†
BOILER TRT	. ,===		, , , , , ,	\$5,000	\$5,000				1
CO2 SYSTEM				\$0	\$0				†
Digester Treatment		\$480,000			\$480,000				1
- U			•	1					+
Water Filter Chemical		\$35,000			\$35,000				1

2017 BUDGET		\$3,402,000			
2016 BUDGET		\$2,992,116			
2016 ANNUAL ESTIMAT	ГЕ	\$3,000,000			
			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		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	
est 2016		\$3,200,709	2516	\$106.01	
		PER MONTH			
		\$283,500	2500	\$113.40	
2017	\$3,402,000				
DWF					
DUD.055	DWF				
BUDGET	\$3,402,000				

2017 BUDGET	•	\$3,354,918			
2016 BUDGET		\$3,200,000			
Ca.,a.,a.,a.,a.,a.,a.,a.,a.	ian ananiawaaa wha da	not avalify for avaiting			
Covers non-un	ion employees who do	not quality for overtime	9		
		2016	2017	Budget	
Plant/Dewateri	nα	2010	2017	Buaget	
a.ia z o ii ato.ii					
30 employees		\$2,654,687	\$2,707,781	\$2,707,781	
. ,					
Pretreatment/					
Sewers					
7 employees		\$634,448	\$647,137	\$647,137	
		***	40.054.040	***	
Total 37		\$3,289,135	\$3,354,918	\$3,354,918	
Sower and are	treatment costs split				
Estimated annu					
For 2017	uai cost is				
10% Supv	Sewers	\$222,185	\$226 620	Paluch/Kofman	
10 % Supv	Pretreatment	\$412,263	\$420,508	r alucii/Roiman	
	Total	\$634,448	\$647,137		
	Total	Ψ034,440	Ψ047,137		
Summary					
Cummary					
Plant/Dewat.		2,654,687	2,707,781		
Sewers		222,185	226,629		
Pretreat.		412,263	420,508		
Total 2016		\$3,289,135	\$3,354,918		
ALLOCATION					
ALLOCATION				0/	
Sowers		220 220	224 044	7%	
Sewers Dewatering		230,239	234,844	/ 70	
50% of Plant/D	ewat	1,216,980	1,241,320	37%	
55 70 OF FIGURE	Cyvat.	1,210,300	1,241,320	37.70	
Plant		1,841,916	1,878,754	56%	
100% of pretre	at. Plus	.,,	.,	20,0	
50% of Plant/D					
	Total	\$3,289,135	\$3,354,918		
			40.0=101=		
		2017 BUDGET	\$3,354,918		

2017 BUDGET		\$953,300			
2016 BUDGET		\$877,500			
2016 ANNUAL ES	STIMATE	\$850,000			
Historically Bu			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		
est 2016	\$877,500		\$911,861		
est 2016	\$877,500		\$911,861		

In 2017 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:

<u> </u>			l .			
\$565,000	General Consult	ing Services (Spe	cifications, Operati	ons, Financial,	NJPDES ren	ewal
\$150,000	NJPDES Permit	issues CSOs				
\$10,000	NJHDG - PCB,	Toxics track downs	s, SWEM, metals			
\$15,000	Auditing Service	S				
\$20,000	Sewers					
\$10,000	Electrical Consu	lting				
\$3,000	Medical Exams					
\$7,800	Bioassays					
\$22,500	Lab Testing					
\$10,000	Public Relations	& Education				
\$40,000	GIS Map of Indu	strila Users (NJPD	ES Requirement)			
\$10,000	Technical suppo	rt Instrumentation	controls			
\$10,000	Technical suppo	rt Air Emissions				
\$60,000	Local Limits Stu	dy				
\$953,300	TOTAL					
			Sewers	TP	DWF	SDF
for 2017 Budg	et use	\$953,300	\$25,000	\$878,300	\$50,000	\$0

2017 BUDGET		\$6,720,787			
2016 BUDGET		\$6,584,097			
		, ,			
				2016	2017
<u>Dewatering</u>					
14 employee	S			\$1,002,290	\$1,022,336
_					
<u>Pretreatmen</u>		116.6		# 205.000	4010.017
4 employees	(Jantas/Heminghause/S	urman/Kofman)		\$305,929	\$312,047
Drockdown	of cower hours				
	of sewer hours vided by 4160 hrs. (2 staf	f\		2016	2017
130 Hours an		1)		2010	2017
		Sewer 5%		\$15,296	\$15,602
		Pretreatment 95%		\$290,632	\$296,445
		Total		\$305,929	\$312,047
		Total		Ψ303,929	Ψ312,047
Main Plant					
83 employee	S		79*	\$4,986,246	\$5,085,970
	-		- •	Ţ.,, 	,,
Dryer					
2 employees				\$134,258	\$136,943
. ,					•
Summary					
Dewat				\$1,002,290	\$1,022,336
Sewers				\$15,296	\$15,602
Plant				\$5,276,878	\$5,382,415
Dryer				\$134,258	\$136,943
Total				\$6,428,721	\$6,557,296
On Call Pay		For mechanics, electricians &			
		To cover Saturdays, Sunday	s & holidays; contrac	tual.	
		or electricians and site service	es workers		
so it is compa	arable to that of mechanic	CS.		2017	Φ74 74 Ε
				2017	\$74,715
Overtime	Estimate at 6%			2017	2017 OT
Overtime	Estimate at 0 /6			2017	2017 01
Dewat				1,022,336	\$61,340
Sewers				15,602	\$936
Plant				5,382,415	\$322,945
Dryer				136,943	\$5,611
.,				6,557,296	\$390,832
Summary	2017			.,,===	,
	Plant	Dewat	Sewers	Dryer	Total
Reg	5,085,970	1,022,336	15,602	136,943	6,260,851
O.T.	322,945		\$936		385,221
On Call	74,715	0	0	0	74,715
Total	5,483,630	1,083,676	16,539	136,943	6,720,787
Budget	5,483,630	1,083,676	16,539	136,943	6,720,787
	_	*			
Total for 201	17	\$6,720,787			

ITEM #16- PRINTING & STATIONERY

2017 BUDGET		\$24,000					
2016 BUDGET		\$24,000					
2016 ANNUAL I	ESTIMATE	\$19,500					
index), static	onsists of printing onery, operation/printing and binding	ersonnel/main	tenance/lab				
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					
1	2013	\$20,005					
	2014	\$3,716					
		, -, -,					
		Sewers	TP	DWF	SDF		
BUDGET		\$1,000	\$21,000	\$2,000	\$0	\$24,000	
		+ ., c c c	+= .,	+ =,===	70	ψ <u>=</u> .,σσσ	

2017 BUDGET		\$583,227	- · ·	I				
2016 BUDGET		\$583,227		m includes:				
2016 ANNUAL	ESTIMATE	\$433,730		clerical supplies		CDE)		
		,,			ers,Trt.Plt, DWF	-,5DF)		
			postage	ocessing/comp	lier expenses			
			Classifi					
			freight	eu Aus				
				NEE AEA NAC	CWA), seminars	•		
				vater operators		,		
					nt for wastewate	er collection	&	
				ent related cours		, concoucir	~	
				nance personne				
				personnel trair				-
				iptions, referenc				-
	 		Admin.	Overhead expe	enses for sewer	s (Auditor E	ntry)	
				Employees				-
	 		Elizabe	th Taxes (Estim	nated)			
HISTORY		Expended	Budget					
	2002	\$362,331	\$347,500					
	2003		\$345,500					
	2004	\$278,366	\$365,000					
	2005		\$391,000					
	2006	. ,	\$320,000					
	2007	\$354,826	\$375,000					
	2008	\$507,697	\$375,000					
	2009		\$375,000					
	2010		\$385,000					
	2011	\$373,674	\$385,000					
	2012		\$385,000	1				
	2013	. ,	\$385,000	1				
	2014		\$385,000	1				
	2015	\$548,518	\$583,227	1				
	2010	Ψ5 10,010	\$550, <u>22</u> 7					
	Includes antici	pated auditor cha	rae off of Sev	ver Admin Over	head expenses		99.	000
			30 0 0, 001	1 21 7 12111111 0 701	c.ponoco		33,	
	1		Sewers	TP	DWF	SDF		
BUDGET			\$120,000	\$375,727	\$87,500	\$0	\$583,2	227
			,	, , ,	, ,	+ -	, 9,	
	•			•		•		

2017 BUIDCET	1	\$2,318,000		<u> </u>	ı	
2017 BUDGET 2016 BUDGET		\$1,918,000				
2016 ANNUAL E	STIMATE	\$2,373,175				
2010 ANNOAL L	JIIWATE	Ψ2,070,170				
This item incl	ludes items ned	essary for the gene	ral maintenance	of the entire faci	ility (Treatment Pla	ınt,
DWF, SDF) s	such as repair p	arts, hardware, sup	plies (janitorial, la	ab, electrical, bo	iler service, power	
service, etc.	The expense h	istory reflects as an	indication, the ac	ge of the facilitie	s.	
<u> </u>						
HISTORICAL		Expended	Budgeted			
	2000	\$969,295	\$928,000			
	2001	\$1,148,269	\$930,000			
	2002	\$957,918	\$1,097,000			
	2003	\$1,004,829	\$1,050,500			
	2004	\$896,915	\$1,000,000			
	2005	\$1,037,000	\$1,170,068			
	2006	\$1,136,000	\$1,071,326			
	2007	\$1,264,014 \$1,097,100	\$1,125,100			
	2008	\$1,087,100 \$1,102,044	\$1,282,241 \$1,232,600			
	2009 2010	\$1,192,044 \$1,390,600	\$1,232,600 \$1,511,850			
	2010	\$1,495,645	\$1,320,000			
	2011	\$1,493,045	\$1,446,500			
	2012	\$1,421,500	\$2,708,336			
	2014	\$1,466,500	\$2,333,100			
	2015	\$2,146,985	\$1,718,000			
	Est 2016	\$2,373,175	\$1,918,000			
		. , ,	· · · · · ·			
Projects anti	cipated for 20	17				
Shafts & Spro					\$12,000	
Centrifugal Pu					\$5,000	
Torque Limite					\$14,000	
TB Power Ra					\$10,000	
Replace Eff T					\$32,000	
Pump Rebuild					\$30,000	
TB Skimmer a					\$40,000	
Skimmer Pum					\$8,000	
polymer syste Cogen Overh					\$8,000 \$540,000	
Pug Mill parts					\$20,000	
Collector Fligh					\$35,000	
	acement Pump	Parts			\$260,000	
Aerator Gearl					\$50,000	
Prog. Cav. Pu					\$25,000	
Bisulfite Syste					\$12,000	
Compressors					\$60,000	
	eling Bridge Sk	immer Arms			\$130,000	
Cogen Engine	e Heads				\$82,000	
Engine PM Pa	arts				\$70,000	
				TOTAL	\$1,443,000	
		TP	DWF	SDF		
Routine Maint &	Repair	\$610,000	\$260,000	\$5,000	\$875,000	
Routine Maint & Major Projects	Repair				\$875,000 \$1,443,000 \$2,318,000	

ITEM #19-RESERVE CONTINGENCY

2017 BUDGET		\$180,000			
2016 BUDGET		\$125,000			
2016 ANNUAL ES	STIMATE	\$0			
		* -			
1. Potentail retired	es for 2016				
T. F Otoman Found	00.101.20.10				
Retirees are eligib	le for one-third of the	eir unused sick ti	me		
	used vacation time.				
There is a cap on					
THOIC IC G Cap Cit	olok umlo.				
		Sick	Vacation	Total	
6 potential retirees	2	90,000	45,000	135,000	
age & yrs of service		30,000	-10,000	100,000	
age a yra or servic			Budget	\$135,000	
			Duuget	ψ133,000	
2 Contractual inc	entives for union em	nlovees			
Z. Contractual inc	entives for union emp	pioyees			
Annual anah inggr	tivos for possocion	of various licens	an nortificati	ono	
	ntives for possession	or various licens	ses, certificati	Oris	
such as S license	s, C licenses, etc.				
—				45.000	
Estimate for year				45,000	
Summary					
Plant				180,000	
Dewat				0	
Sewer				0	
Dryer				0	
Total				\$180,000	
2016 BUDGET				\$180,000	
				. ,	

ITEM #20- BUILDING MAINTENANCE

2017 BUDGET	г	\$70,000				
2016 BUDGET		\$70,000				
2016 ANNUAL	. ESTIMATE	\$60,000				
windows, lo	cover those items a ocks, doors, roof in concrete walkways	spections & rep	pairs, elevato	rs and plant roa		
Trepairs to c	concrete walkways	and painting of	gallery pipiri	y.		
H						
						-
HISTORY						
	1996	\$58,872				
	1997	\$80,000				
	1998	\$121,036				
	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				
		C	TD	רואים	CDE	
BUDGET		Sewers \$0	TP \$55,000	DWF \$15,000	SDF \$0	\$70,000
BUDGET		⊅ U	გ ეე,000	\$15,000	⊅ U	\$70,000
	l					

All employees are members of the State of New Jers Public Employees Retirement System (PERS). Since 1998, the State of New jersey PERS has not a for the employer's portion of pension costs. Assessments were begun again in 2005. Assessment History		pyers	
Public Employees Retirement System (PERS). Since 1998, the State of New jersey PERS has not a for the employer's portion of pension costs. Assessments were begun again in 2005.		pyers	
Public Employees Retirement System (PERS). Since 1998, the State of New jersey PERS has not a for the employer's portion of pension costs. Assessments were begun again in 2005.		pyers	
Public Employees Retirement System (PERS). Since 1998, the State of New jersey PERS has not a for the employer's portion of pension costs. Assessments were begun again in 2005.		pyers	
Public Employees Retirement System (PERS). Since 1998, the State of New jersey PERS has not a for the employer's portion of pension costs. Assessments were begun again in 2005.		pyers	
Public Employees Retirement System (PERS). Since 1998, the State of New jersey PERS has not a for the employer's portion of pension costs. Assessments were begun again in 2005.		pyers	
Public Employees Retirement System (PERS). Since 1998, the State of New jersey PERS has not a for the employer's portion of pension costs. Assessments were begun again in 2005.		pyers	
Public Employees Retirement System (PERS). Since 1998, the State of New jersey PERS has not a for the employer's portion of pension costs. Assessments were begun again in 2005.		pyers	
for the employer's portion of pension costs. Assessments were begun again in 2005.	assessed emplo	pyers	
for the employer's portion of pension costs. Assessments were begun again in 2005.	assessed emplo	pyers	
for the employer's portion of pension costs. Assessments were begun again in 2005.	assessed emplo	oyers	
for the employer's portion of pension costs. Assessments were begun again in 2005.			
Assessments were begun again in 2005.			
Assessment History			
/\daggedag C \dagged			1
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 EST \$1,016,335			
2017 EST \$1,172,934			
, , , , , , , , , , , , , , , , , , ,			
Plant Dewat	Sewer	Dryer	Total
Total		, , ,	
Salaries			0
76%	20% 2%	2%	100%
2017 BUDGET 891,430 234	4,587 23,459	23,459	1,172,934
333,33	, = ==,:30	2,120	, _,-,-

ITEM #22-SOCIAL SECURITY

2017 BUD	GET	\$778,951					
2016 BUD	GET	\$765,219					
2016 ANN	UAL ESTIMATE	\$730,719					
The rate of	7.65% appears to be	unchanged for 20)17				
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						
2017 BUD	GET					\$778,951	

2017 BUD	GET	\$3,542,521				
2016 BUD		\$3,425,031	`			
	UAL ESTIMATE	\$3,286,091				
		, -,,				
Hospitaliza	tion and major medical	group health insura	nce for all employe	ees		
	ed under this category					
7 1100 00 701		lo tilo omployee deel	otarioo program.			
Increase o	of avg 8% for active er	nplovees				
			2016	2017		
Potiroo hor	alth insurance premium	ie.	2010	2017		
i telliee nea		Non Mediare	\$413,922	\$455,178		
		Medicare	\$224,714			
		Medicare				
			\$638,636	\$737,282.0		
11 12 11	(; /b.4 ; ; ; ;		0010	0047	00/	
Hospitaliza	tion/Major medical		2016	2017	8% increase	
Salaried er			\$543,632	\$587,122		
30						
Pretreatme	ent employees		\$141,927	\$153,281		
7						
Plant empl	oyees		\$1,555,443	\$1,679,879		
88						
Dryer empl	oyees		\$57,053	\$61,618		
2						
Dewatering	employees		\$296,240	\$319,939		
11	, . _[,		, , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
			\$2,594,295	\$2,801,839		
138			\$2,00.,200	\$2,00.,000		
100			\$2,594,295	\$2,801,839		
			Ψ <u>L</u> ,001, <u>L</u> 00	Ψ2,001,000		
Employee	Assistance Plan	2 year contract thru	2017			
Employee	7 toolotarioo i iari	2 year contract tind	2017			
St Barnah	ı as Behavioral Health E	Λ D				
St. Dalliab	as Deliaviolal Health L	.д.г.				
Drice is set	for 2 years.					
Price is set	. 101 Z years.					
			Annual Coat			
	0010		Annual Cost			
	2016		3,400			
	0017		0.400			
	2017		3,400			
	-		2.1			
	E.A.P. budget		3,400			
Summary of	of Group Health and En	nployee Assistance F	Plans			
		Sewers	Plant	Dewat	Dryer	Total
Hosp. Plan			2,420,282	319,939	61,618	2,801,839
Employee A	Asst.Plan		3,400			3,400
Retiree He	alth		737,282			737,282
	Total		3,160,964	319,939	61,618	3,542,521
					·	
BUDGET						\$3,542,521
	i.	l.	I.	ı	ı	,,

ITEM #24-UNIFORMS-SAFETY SHOES

2017 BUDGET		\$120,000				
2016 BUDGET		\$100,000				
2016 ANNUAL ESTIM	ATE	\$123,458				
				uniforms	safety shoes	
TOTAL				\$85,000	\$35,000	\$120,000
SUMMARY						
	SEWERS	TP	DWF	SDF		
_						
SAY	\$2,400	\$97,200	\$20,400	\$0	\$120,000	
	4400.000					
total	\$120,000					
DUDOET	# 400.000				ļ	
BUDGET	\$120,000				ļ	
					ļ	
					ļ	

2017 BUDGET		\$160,000					
2016 BUDGET		\$160,000					
2016 ANNUAL	ESTIMATE	\$171,083					
			osed of under co				
	vhich awarded Se	eptember 2014 ha	as a unit price of \$	97/ton (yr1);	\$97/ton (y	r2); \$97/ton	
(yr3).							
	1		1				
				Screenings		Scum	
HISTORICA		BUDGET	EXPENDED	tons	\$77.78	tons	
	1996	. ,	\$142,429	1831			
	1997	\$152,000	\$60,436	983	\$61.47		
	1998	\$130,000	\$128,558	2091	\$61.47		
	1999	. ,	\$147,654	2010	\$61.47	*660	\$50.60
	2000		\$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		\$85,321	1202	\$71.00		
	2004	\$120,000	\$126,147	1777	\$71.00		
	2005		\$109,648	1544	\$71.00		
	2006	. ,	\$105,767	1490	\$71.00		
	2007		\$111,521	1520	\$71.00		
	2008	\$130,000	\$126,965	1428	\$84.00		
	2009	. ,	\$188,717	2300	\$88.50		
	2010		\$180,619	2041	\$88.50		
	2011	\$209,000	\$168,560	1905	\$88.50		
	2012	\$216,000	\$154,469	1643	\$94.02		
	2013		\$131,675	1401	\$94.00		
	2014		\$165,000	1755	\$94.00		
	2015		\$183,517	1598	\$114.84		
	EST 2016	\$160,000	\$171,000	1489	\$114.84		
Treatment P							
BUDGET	\$160,000						
				ļ			
				ļ			

ITEM #26-UNEMPLOYMENT & DISAB

2017 BUD	GET	\$50,000				
2016 BUD	GET	\$50,000				
2016 ANNI	JAL ESTIMATE	\$16,723				
Employer fa	actor is .25% of 1st \$32	2,600 for 2016				
2016 limit is	s set by law at	32,600				
		Plant	Dewat	Sewers	Dryer	Total
# of employ	/ees	118	16	2	2	138
	,			<u> </u>		
		\$9,617	\$1,304	\$163	\$163	\$11,247
Disability B	udgeted	\$8,400	\$1,200	\$200	\$200	\$10,000
Unemployn	nent liability	\$34,400	\$4,800	\$400	\$400	\$40,000
DUDOET		#40.000	ФС 000	# 000	# 000	ΦΕΩ 000
BUDGET		\$42,800	\$6,000	\$600	\$600	\$50,000

ITEM #27-EXECUTIVE COMMITTEE

2017 BUDGET	\$88,945		
2016 BUDGET	\$88,945		
2016 ANNUAL ESTIMAT	E \$88,945		
For 2012, board voted no	t to increase their rate.		
For 2013, board voted no			
For 2014, board voted no			
For 2015, board voted to			
For 2016, board voted to			
Member's annual amount	is \$5840		
Chairperson's annual am			+
	Sam 15 4 15, 175.		
	2016	2017	
	2010	2017	+
Ob a lance of the	¢40.475	10400	
Chairperson	\$13,175	13428	
Members (10)	\$65,770	67085	
Board Counsel Berkeley	\$10,000	10000	
Total	#00.04F	\$00.540	
	\$88,945	\$90,513	
100 % charged to plant.			
BUDGET		\$90,513	

ITEM #28- COUNSEL FEES

2017 BUDGET	\$300,000					
2016 BUDGET	\$300,000					
2016 ANNUAL ESTIMATE	\$274,852					
Counsel fees included in t General, Litigation, Proc						
		BUDGET		EXPENDED		
	1996			\$422,805		
	1997			\$1,057,460		
	1998			\$907,927		
	1999			\$731,348		
	2000			\$439,667		
	2001	\$370,000		\$297,952		
	2002			\$377,828		
	2003			\$329,955		
	2004			\$386,000		
	2005			\$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	**Occident	al
	2013	\$2,700,000		\$1,205,575	**Occident	al
	2014	\$2,200,000		\$270,677		
	2015	\$300,000		\$205,482		
	Sewers		\$10,000			
	Treatment Plant		\$260,000			
	DWF		\$20,000			
	SDF		\$10,000			
	Total for Budget		\$300,000			

ITEM #29-OFFICERS

2017 BUDGET	\$0				
2016 BUDGET	\$0				
2016 ANNUAL ESTIMATE	\$0				
THIS ITEM IS NOW INCLUDE	D IN ITEM#	#27-EXECU	TIVE COM	MITTEE	

ITEM # 30 ADMINISTRATIVE GROUP BENEFIT PLAN

2017 BUDGET	\$364,061				
2016 BUDGET	\$278,789				
Covers non-union staff, including management,	clerical & supervisory t	or:		48 Employees	
1 Dental	Blue	Cross/Blue S	Shield		
2 Basic life insurance and AD&D		Hartford			
3 Vision	Pri	ncipal Insura	nce		
4 LTD		Reliance			
5 Prescription Plan	Express So	cripts (State	of NJ Plan)		
			,		
1 Blue Cross Direct Dental Plan	2% Increase				
eff 10/1/16		Monthly	Term	Total	
		\$4,247	9 mos.	\$38,223	
		\$4,247	3 mos.	\$12,741	
		ψ·,=·/	Total	\$50,964	
		2%	1019.28	\$51,983	
2 Life/AD&D-AIG (New Vendor)	0%			2017	
		\$2,575		\$2,575	
		\$232			
3 Vision-Principal	no change	\$9,000.00		\$9,000.00	
4 LTD-Reliance	0% increase	\$14,027.00		\$14,027.00	
5 State Prescription Plan-Unknown if i	increase-anticipate 8%	\$186,300	14904	201,204	
Summary of all plans for 2015					
		2	42	4	48
		Sewers	Plant	Dewat	Total
BC/BS Dental		4,719	91,759	8,389	\$104,867
Life/AD&D		116	2,253	206	\$2,575
Vision		\$1,143	\$22,218	\$2,031	\$25,392
LTD		631	12,274	1,122	\$14,027
RX		9,774	190,050	17,376	\$217,200
Total		16,383	318,553	29,125	364,061
BUDGET					\$364,061

ITEM #31-UNION WELFARE BENEFIT FUND

2017 BUDGET	\$0				
2016 BUDGET	\$75,000		NO LONGER	PAYING	
2016 ANNUAL ESTIMATE	\$59,349		Employees no	in Group Plan	
					_
Union contract provides for dental,	vision and pres	scription ber	nefits		
for employees represented by Tea	mster's Local 6	41.			
Joint Meeting pays the cost of the	premiums.				
Local 575 administers the program	1.				
The cost per employee as per the	union contract is	s \$75.00 pe	r month.		
This amount has not changed in 9	years.				
Distribution					
	Sewers	Plant	Dewat	Dryer	Total
# of employees	2	68	11	3	84
Annual cost is 900.	0	0	0	0	0
2016 Budget	0	0	0	0	0
TOTAL BUDGET					\$0

ITEM #32- REPLACEMENT FUND

2017 BUDGE	T	\$1,250,000					
2016 BUDGET		\$1,250,000	_				
2016 ANNUA	L ESTIMATE	\$1,250,000					
In January	ar capital improven y each year replac- ual facilities as calle	ement funds will be	placed	in the Trea	tment Plant accou	unt to be uti	ized in
	The CAPITAL Fur	ids for the O&M Bu	idaet foi	r 2017 are			
	1110 O/11 117 12 1 UI	100 101 1110 00111 110	agot ioi	1			
		Treatment Plant					
		Treatment Flant					
		TOTAL			#4.050.000		
		TOTAL			\$1,250,000		

2017 BUDG		\$568,700					
2016 BUDG		\$568,700					
2016 ANNU	AL ESTIMATE	\$565,000					
This item	is for NJPDES permi	ts including the	wastewater tre	eatment facility	and drying	facility permits	-
issued by	the NJDEP as well a	s other operating	g permits issu	ed by NJDEP	, USEPÁ an	d USŃRĊ. The	• -
Treatmer	nt Plant NJPDES fee i	s normally based	d on wastewa	ter characteris	stics (flow, B	OD, TSS) as	-
measure	d prior to discharge to	the Arthur Kill.	The permit fe	e system supp	orts the NJI	DEP Budget. A	s of
the 2000	Budget this item inco	rporates the Mis	cellaneous Pe	ermit Fees (pro	eviously Item	ı #34).	<u> </u>
	_						
	Historical NJPDES	Permit Fee			 		
	1996	i cililit i ee	\$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				
	2004		\$248,074				
	2005		\$211,648				
	2006		\$284,630				
	2007		\$305,997				
	2008		\$354,503				
	This is a sector of sector of			Danielata in A		la a f all accidents	
	This item includes p	ermits, tees, etc	: to be paid to	Regulatory A	gencies for t	ne following:	
			<u> </u>		1		
	NJDEP-NJPDES P		AENT DI ANT		1	\$485,000	
	NUDER-NUEDES F	LNIVIII. INLAIN	I			\$4 65,000	
	Plant Storm Sewer	Permit				\$1,500	
	Underground Stora		WF)			\$3,000	
	Laboratory Certifica		I ,			\$2,500	
	NJDEP Physical Co		(TP & DWF)			\$1,000	
	Air Permit Application					\$5,000	
	Nuclear Level Sens					\$2,500	
	Hazardous Waste D					\$3,000	
	NJPDES Combined	Sewer				\$8,200	
	Air Emissions Fee					\$37,500	
	Miscellaneous (TP	& DWF) TCPA, T	TWA, DPCC			\$10,000	
					Total	\$559,200	
							say
Budget			Sewers			\$9,700	\$9,700
			Treatment PI			\$547,000	\$547,000
			Sludge Dewa			\$12,000	\$12,000
	ī		Sludge Dryin	П	1	\$0	\$0
			TOTAL	9 		\$568,700	\$568,700

Budget

\$568,700

ITEM #34- MISC PERMITS-FEES

2017 BUDGE	Т	\$0							
2016 BUDGE		\$0							
2016 ANNUAL ESTIMATE		\$0							
Th	This item has been included in Item #33-Permit fees.								
	io nom nao boom mon	adod III Itoli	1 1/00 1 0)	<u>-</u>				

ITEM #35- NJED AUTHORITY LOAN

2017 BUDGET	\$0		
2016 BUDGET	\$0		
2016 ANNUAL ESTIMATE	\$0		
		-	

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.

				1		
				TOTAL		
				PAYMENT TO		
	PAYM'T#	DATE	AMOUNT	DATE	LOAN BALANCE	
	1 // 1	Jul-96	\$250,000	\$250,000	\$4.250.000	
	2	Nov-97	. ,		+ ,,	
	3	Nov-98	\$250,000 \$250,000	\$500,000	\$4,000,000	
				\$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	
	-		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , ,	, -	
SDF		\$0				
		Ψ0				

JOINT MEETING OF ESSEX UNION COUNTIESFacility Summary Breakout

		COLLECTION				
		SYSTEM	TREATMENT PLANT	SLUDGE DEWATERING FACILITY	SLUDGE DRYING FACILITY	TOTAL ALL FACILITIES
		2017 BUDGET	2017 BUDGET	2017 BUDGET	2017 BUDGET	2017 BUDGET
1	VEHICLES	\$16,250	\$62,333	\$12,417		\$91,000
2	EQUIP RENTAL	\$180,000	\$90,000	\$30,000		\$300,000
3	INSURANCE	25,061.23	\$ 626,530.81	125,306.16	58,476.21	\$835,374
4	WATER		\$95,000	\$40,000	\$3,500	\$138,500
5	ELECTRIC		\$1,030,974	\$120,365	\$8,781	\$1,160,120
6	GAS		\$406,200	\$90,000	\$0	\$496,200
7	FUEL OIL		\$188,500	\$38,000		\$226,500
8	SEWER REPAIR	\$60,000				\$60,000
9	METER REPAIRS	\$317,000				\$317,000
10	EQUIP		\$335,000	\$380,500		\$715,500
11	CHEMICALS	\$2,200	\$2,070,363	\$593,900	\$6,800	\$2,673,263
12	SLUDGE DISP			\$3,402,000		\$3,402,000
13	SALARIES & WAGES	\$234,844	\$1,878,754	\$1,241,320		\$3,354,918
14	TECHNICAL PROF. SERV.	\$25,000	\$878,300	\$50,000	\$0	\$953,300
15	LABOR	\$16,539	\$5,483,630	\$1,083,676	\$136,943	\$6,720,787
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		\$1,610,000	\$703,000	\$5,000	\$2,318,000
19	RESERVE CONTINGENCY		\$180,000			\$180,000
20	BUILDING MAINT		\$55,000	\$15,000		\$70,000
21	PENSION	\$23,459	\$891,430	\$234,587	\$23,459	\$1,172,934
22	SOCIAL SECURITY	\$19,231	\$576,075	\$173,170	\$10,476	\$778,951
	HOSPITAL PLAN	\$0	\$3,160,964	\$319,939	\$61,618	\$3,542,521
24	UNIFORMS	\$2,400	\$97,200	\$20,400		\$120,000
25	SCREENINGS		\$160,000			\$160,000
26	UNEMPLOYMENT	\$600	\$42,800	\$6,000	\$600	\$50,000
27	EXECUTIVE COMMITTEE		\$88,945			\$88,945
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	\$0	\$0	\$0	\$0	\$0
32	CAPITAL FUND		\$1,250,000			\$1,250,000
	NJPDES PERMIT FEE	\$9,700	\$547,000	\$12,000	\$0	\$568,700
34	MISC PERMITS-FEES					\$0
35	NJED AUTHORITY LOAN				\$0	\$0
	TOTAL	\$1,079,666	\$22,780,280	\$8,830,204	\$325,652	\$33,015,802