

JEA October 2018 ITN (Updated 12/20/2018 to add Years 2039 & 2040)
Biosolids Projections Used for 20-Year Pricing Sheet

Dewatering Solids Capture % 100% PAD TS Reduction % 5%
Dewatered Cake % Solids 20%

For reference only

Calendar Year	Dry Tons per Day				Wet Tons per Day				Total Wet Solids (WT/d) ² from all four WRFs used in ITN	Buckman Avg. Annual Solids Output with PAD (WT/day)	Comments
	Avg. Annual Solids from each source (DT/day) ¹				Avg. Annual Solids from each source (WT/day) ¹						
	Buckman ³	Blacks Ford	Greenland ³	Monterey	Buckman ³	Blacks Ford	Greenland ³	Monterey			
2017	31.50	1.99	0	0.94	157.50	9.95	0.00	4.70	172.2	141.75	BMS 1st year of 20-year evaluation period (2017-2036)
2018	35.35	1.61	0	1.13	176.76	8.05	0.00	5.65	190.5	159.08	
2019	35.06	2.68	0	1.13	175.30	13.40	0.00	5.65	194.4	157.77	ITN projected first year of new biosolids management contract
2020	35.27	2.81	0	1.14	176.34	14.05	0.00	5.70	196.1	158.71	
2021	35.54	2.92	0	1.15	177.71	14.60	0.00	5.75	198.1	159.94	
2022	34.02	3.04	0.00	1.15	170.11	15.20	0.00	5.75	191.1	170.11	ITN new PAD project projected in service date
2023	34.15	2.08	2.63	1.16	170.73	10.40	13.15	5.80	200.1	170.73	
2024	34.41	2.18	2.68	1.17	172.03	10.90	13.40	5.85	202.2	172.03	
2025	34.66	2.27	2.73	1.17	173.30	11.35	13.65	5.85	204.2	173.30	
2026	35.02	2.33	2.80	1.17	175.10	11.65	14.00	5.85	206.6	175.10	
2027	35.38	2.38	2.87	1.18	176.91	11.90	14.35	5.90	209.1	176.91	
2028	35.75	2.44	2.94	1.19	178.76	12.20	14.70	5.95	211.6	178.76	
2029	36.12	2.50	3.00	1.19	180.58	12.50	15.00	5.95	214.0	180.58	
2030	36.48	2.55	3.07	1.20	182.38	12.75	15.35	6.00	216.5	182.38	
2031	36.79	2.61	3.15	1.21	183.97	13.05	15.75	6.05	218.8	183.97	
2032	37.12	2.67	3.23	1.21	185.61	13.35	16.15	6.05	221.2	185.61	
2033	37.44	2.73	3.30	1.21	187.20	13.65	16.50	6.05	223.4	187.20	
2034	37.76	2.78	3.38	1.21	188.79	13.90	16.90	6.05	225.6	188.79	
2035	38.07	2.84	3.46	1.21	190.36	14.20	17.30	6.05	227.9	190.36	
2036	38.43	2.90	3.53	1.21	192.13	14.50	17.65	6.05	230.3	192.13	
2037	38.78	2.95	3.60	1.22	193.88	14.75	18.00	6.10	232.7	193.88	
2038	39.12	3.00	3.66	1.22	195.59	15.00	18.30	6.10	235.0	195.59	
2039	39.47	3.06	3.73	1.22	197.36	15.30	18.65	6.10	237.4	197.36	
2040	39.82	3.11	3.80	1.23	199.12	15.55	19.00	6.15	239.8	199.12	

Notes:

¹Projections in DT/day are based upon updated wastewater flow projections provided by George Porter/JEA on 10/11/18 and modified for the Buckman facility as discussed in Note 3 below.

²Wet Tons per Day (WT/d) are calculated assuming dewatered solids average 20% total solids concentration.

³Buckman biosolids projections reflect that post-aerobic digestion (PAD) is expected to begin operating in Jan. 2022 and will reduce dry solids mass by a minimum of 5% on average from 2022 onward. Also, updated projections now assume Greenland biosolids will be processed and dewatered onsite and not trucked to Buckman (as shown in the 2017 BMS report), and as such, have been removed from Buckman projections.