

WSSC Water Resource Recovery Facility (WRRF) Annual Average Summary Data for CY2013 - CY2017

Flow is measured in "millions of gallons per day" (mgd) or "gallons per day" (gpd).

"Influent" is untreated flow into the WRRF and "Effluent" is the treated flow discharged from the WRRF to the receiving stream.

Biochemical Oxygen Demand (BOD) measures the degree of contamination of the water.

Total Suspended Solids (TSS) measures the degree of contamination of the water.

Total Phosphorous (TP) measures the degree of contamination of the water.

Total Nitrogen (Total-N) measures the degree of contamination of the water.

		RAW INFLUENT				FINAL EFFLUENT					BIOSOLIDS		MAJOR CHEMICALS USED					
		Raw/Recycle BOD mg/L	Raw/Recycle TSS mg/L	Raw/Recycle Total-N mg/L	Raw/Recycle Total-P mg/L	Effluent BOD mg/L	Effluent TSS mg/L	Effluent Total-N mg/L	Effluent Total-P mg/L	Final Effluent mgd	Biosolids Hauled Wet Tons	Biosolids Hauled % TS	Alum 50% Gal	Caustic 25% Gal	Alternate Carbon Gal	Disinfection Gal	Lime (Biosolids) Dry Tons	
Damascus WRRF	2013	206	310	52.1	6.6	2	1	2.2	0.12	0.846	1,442	33.5%	17,330	0	0	UV	53	
	2014	230	293	52.1	6.4	2	1	2.3	0.07	0.883	1,301	21.8%	20,675	0	1,462	UV	51	
	2015	230	260	51.4	6.6	2	1	1.9	0.06	0.810	1,288	23.9%	25,900	0	444	UV	48	
	2016	250	277	49.6	6.9	2	1	1.8	0.06	0.782	1,315	23.9%	25,385	0	0	UV	52	
	2017	286	291	52.5	6.9	2	1	1.8	0.06	0.705	1,246	20.0%	25,705	0	0	UV	48	
	AVG	240	286	51.5	6.7	2	1	2.0	0.07	0.805	1,319	24.6%	22,999	0	381	UV	50	
Parkway WRRF	2013	188	294	41.5	4.3	2	2	5.2	0.15	6.231	13,153	30.1%	4,921	25,711	35,065	38,176	19,811	849
	2014	211	348	41.7	4.4	3	1	2.7	0.06	6.570	14,386	32.2%	0	0	74,661	36,043	17,407	986
	2015	242	431	41.4	4.9	3	1	2.5	0.07	6.538	13,635	31.1%	13,297	9,583	78,088	31,182	12,311	874
	2016	252	396	39.6	4.9	2	1	2.4	0.04	6.112	14,813	31.4%	0	0	66,498	24,973	13,740	1,053
	2017	285	493	41.4	5.1	2	1	2.0	0.04	6.265	13,056	29.7%	26,598	0	63,643	34,282	17,883	809
	AVG	236	392	41.1	4.7	2	1	3.0	0.07	6.343	13,809	30.9%	8,963	7,059	63,591	UV	914	
Piscataway WRRF	2013	77	111	28.6	2.7	2	1	1.5	0.04	22.005	31,504	30.6%	266,147	0	160,644	UV	2,356	
	2014	90	111	27.8	2.6	3	1	2.0	0.05	23.750	34,182	25.8%	393,231	0	238,251	UV	2,637	
	2015	77	86	26.2	2.5	2	1	1.9	0.04	22.292	36,380	26.7%	405,365	0	165,672	UV	3,068	
	2016	98	119	29.5	3.1	2	1	2.4	0.05	25.144	33,901	25.7%	366,807	0	174,957	UV	2,415	
	2017	127	159	31.6	3.4	2	1	1.8	0.05	21.838	33,055	24.3%	336,542	0	178,269	UV	2,598	
	AVG	94	117	28.7	2.9	2	1	1.9	0.05	23.006	33,804	26.6%	353,618	0	183,559	UV	2,615	
Seneca WRRF	2013	196	212	42.8	4.8	2	1	6.1	0.16	13.088	23,209	24.4%	454,831	0	0	UV	988	
	2014	213	198	42.7	4.8	2	1	4.1	0.14	15.421	21,690	24.5%	333,684	0	0	UV	645	
	2015	222	215	42.9	5.1	2	1	2.7	0.10	14.371	20,336	25.0%	321,760	0	28,156	UV	809	
	2016	225	187	41.8	5.4	2	1	2.3	0.10	14.526	21,897	24.6%	298,785	0	30,208	UV	860	
	2017	268	224	41.9	5.1	2	1	2.4	0.10	13.613	21,988	24.5%	265,657	1,575	39,304	UV	1,540	
	AVG	225	207	42.4	5.0	2	1	3.5	0.12	14.204	21,824	24.6%	334,943	315	19,534	UV	968	
Western Branch WRRF	2013	322	183	34.1	4.0	3	3	1.9	0.43	19.219	28,283		52,800	0	551,542	UV		
	2014	427	260	42.3	5.3	5	4	2.2	0.35	22.095	28,864		24,728	830	550,372	UV		
	2015	339	182	35.5	4.5	3	2	1.6	0.28	20.047	28,898	22.6%	122,877	0	637,521	UV		
	2016	340	194	32.4	4.3	3	3	1.4	0.27	19.890	29,379	21.0%	176,751	0	642,752	UV		
	2017	366	196	34.9	4.5	3	3	1.8	0.23	23.640	29,238	21.3%	232,812	0	474,947	UV		
	AVG	359	203	35.8	4.5	3	3	1.8	0.31	20.978	28,932	21.6%	121,994	166	571,427	UV		
Hyattstown WRRF	2013	347	255	67.7	7.9	3	9	45.6	5.4	4,205	0		0	0	0	UV		
	2014	368	294	71.6	8.1	3	8	39.3	5.2	5,481	0		0	0	0	UV		
	2015	455	364	74.7	8.9	3	6	43.0	5.8	4,252	0		0	0	0	UV		
	2016	384	291	68.1	8.2	3	8	51.8	6.1	4,149	0		0	0	0	UV		
	2017	356	268	56.9	7.4	3	9	41.8	5.6	4,854	0		0	0	0	UV		
	AVG	382	294	67.8	8.1	3	8	44.3	5.6	4,588	0		0	0	0	UV		