

WWTP YEARS SUMMARY

YANKTON, S.D.

2021	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL	AVERAGE	MAXIMUM	MINIMUM
PARAMETER																
PRECIP. INCHES	0.25	0.00	2.34	0.00	0.00	0.25	1.70	4.00	2.00	2.75	0.00	0.00	13.29			
FLOW/MILLION GALLONS																
MAX. FLOW	2.5	2.5	2.6	2.5	3.1	2.6	2.3	3.3	3.8	2.5	3.8	3.3		2.9	3.8	2.3
MIN. FLOW	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3		0.4	0.5	0.3
TOTAL TREATED	43.772	40.415	47.273	45.343	45.605	45.600	47.485	46.507	45.274	45.458	43.472	44.240	540.444			
MAX./DAILY	1.610	1.789	2.013	1.769	1.790	1.709	1.776	1.801	1.942	1.795	1.624	1.579		1.766	2.013	1.579
MIN./DAILY	1.019	1.106	1.171	1.200	1.128	1.160	1.117	1.188	1.168	1.191	1.020	0.941		1.117	1.200	0.941
AVE./DAILY	1.412	1.443	1.525	1.511	1.471	1.520	1.532	1.500	1.509	1.466	1.449	1.428		1.481	1.532	1.412
BOD5 MG/L																
MAX. INF mg/L	650.0	780.0	730.0	610.0	620.0	640.0	640.0	670.0	630.0	760.0	710.0	640.0		673.3	780.0	610.0
MIN. INF mg/L	300.0	290.0	260.0	290.0	280.0	290.0	340.0	340.0	350.0	310.0	330.0	410.0		315.8	410.0	260.0
AVE. INF mg/L	444.5	474.1	412.9	438.0	425.2	422.8	433.5	469.3	454.0	463.0	511.0	508.0		454.7	511.0	412.9
MAX. EFF mg/L	28.3	34.6	32.9	31.9	20.9	15.5	17.2	27.5	18.7	22.9	15.8	19.7		23.8	34.6	15.5
MIN. EFF mg/L	8.0	14.0	8.3	8.5	6.8	6.8	6.2	1.7	5.3	6.4	5.3	7.3		7.1	14.0	1.7
AVE. EFF mg/L	19.7	23.2	19.0	18.2	12.1	11.2	11.6	10.1	10.6	11.1	11.1	11.1		14.1	23.2	10.1
%REMOVAL BOD5	96%	95%	95%	96%	97%	97%	97%	98%	98%	98%	98%	98%		97%	98%	95%
TOTAL INF LBS	166,507	154,852	164,870	167,265	165,810	160,431	171,039	181,718	176,468	176,680	190,753	185,169	2,061,562	171796.8	190753	154852
TOTAL EFF LBS	5,097	5,262	5,619	4,785	3,200	3,167	3,381	2,947	3,010	3,120	2,850	2,518	44,956	3746.3	5619	2518
POP. EQUIVLENT	30,788	33,565	30,888	32,471	30,682	31,529	32,582	34,535	33,612	33,300	36,324	35,588		32989	36324	30682
TSS MG/L																
MAX INF TSS	660.0	700.0	608.0	524.0	1292.0	776.0	552.0	804.0	728.0	980.0	578.0	608.0		734.2	1292.0	524.0
MIN INF TSS	256.0	296.0	156.0	204.0	216.0	230.0	244.0	212.0	236.0	200.0	200.0	232.0		223.5	296.0	156.0
AVE INF TSS	418.0	391.6	353.1	363.3	429.2	407.4	385.3	435.4	364.9	346.8	373.6	350.8		385.0	435.4	346.8
MAX EFF TSS	31.0	52.0	61.0	29.0	34.0	18.0	16.0	38.0	17.0	13.0	21.0	26.0		29.7	61.0	13.0
MIN EFF TSS	6.0	19.0	14.0	15.0	9.0	6.0	3.0	3.0	5.0	5.0	5.0	5.0		7.9	19.0	3.0
AVE EFF TSS	20.6	32.6	29.4	22.9	17.3	11.3	6.3	9.9	9.3	8.1	12.3	11.3		15.9	32.6	6.3
%REMOVAL TSS	95%	92%	92%	94%	96%	97%	98%	98%	97%	98%	97%	97%		96%	98%	92%
TOTAL INF LBS	155,881	131,106	140,141	138,447	167,505	161,072	151,211	173,828	142,240	135,081	138,553	130,645	1,765,710	147142.5	173828	130645
TOTAL EFF LBS	5,420	7,721	9,213	5,821	5,010	3,247	1,804	2,955	2,561	2,221	3,147	2,524	51,644	4303.7	9213	1804
D.O. MG/L																
MIN EFF D.O.	5.3	5.5	5.0	4.4	4.4	5.2	4.8	5.1	4.6	4.7	4.3	5.3		4.9	5.5	4.3
EFF NH3-N																
MAX	9.42	3.3	7.89	14	2.59	5.34	19.6	8.17	2.78	5.1	0.25	0.23		6.6	19.6	0.2
MIN	2.31	1.5	0.77	0.98	0.22	0.11	6.2	0.65	0.52	0.04	0.08	0.07		1.1	6.2	0.0
AVE	5.2	2.3	3.3	5.7	1.3	1.9	12.2	3.3	1.4	2.8	0.1	0.2		3.3	12.2	0.1
Total Nitrogen																
INF		73.4			64.2			66.7			75.9			70.1	75.9	64.2
EFF	23.7	20.4	23.9	27.1	15.4	15.7	21.6	18.2	16.0	19.4	24.4	16.1		20.2	27.1	15.4
Total Phosphorous																
INF		22.6			47.0			15.8			15.1			25.1	47.0	15.1
EFF	7.8	7.3	7.8	7.7	6.5	7.7	3.8	5.8	6.9	8.7	7.4	7.4		7.1	8.7	3.8
E.coli COLIFORMS COL/100 ML																
MAX	47	50	83	83	20	128	84	507	108	20	0	0		507		0
MIN	47	50	83	0	0	3	11	6	9	20	0	0		83		0
MONTH GEO. MEAN	47	50	83	7	8	20	26	22	33	20	0	0		83		0
TOTAL COLIFORMS COL/100 ML																
MAX	6800	3900	4200	480	316	369	280	2300	374	7300	1060	367		7300	1060	280
MIN	233	210	283	150	46	60	63	15	84	144	67	33		283	15	33
MONTH GEO. MEAN	1134	781	384	238	112	111	129	106	152	805	204	104		1134	104	104