



City of Sturgis

WWTP

2011

Annual Summary of Influent and Effluent Sampling

The following table contains the annual averages of all sampling results (including the units used) taken by the POTW during the reporting period. The number of samples used to calculate the annual average is in (). The level of detection is in []. For the purpose of calculating the average, those sampling results below the level of detection are treated as zero (0).

Parameter	Reading	Loading Lbs	Max	% Removed	Number of samples used for average	Average of detection limit	FLOW, MIL GAL
INFLUENT							
Influent BOD	224 mg/L	3,089			(365)	[2]	AVG day 1.67
Influent SS	271 mg/L	3,750			(365)	[2]	Max day 2.24
Influent Phosphorus	6.41 mg/L	88			(52)	[0.1]	TOTAL 608.34
Influent NH3	22.8 mg/L	314			(365)	[0.1]	
Influent pH	7.7 S.U.				(365)	[]	
EFFLUENT							
min %							
Effluent BOD	3 mg/L	94%	10	99%	(365)	[2]	final eff flow
Effluent SS	6 mg/L	94%	13	98%	(365)	[2]	1.60
Effluent Phosphorus	0.57 mg/L	82%	1.0	91%	(52)	[0.1]	Max day 2.12
Effluent NH3	0.36 mg/L	65%	8.4	99%	(365)	[0.1]	584
Effluent pH	8.2 S.U.		8.6		(365)	[]	
Cadmium	0.000 ug/L				(5)	[2]	
Copper	1.00 ug/L				(5)	[1]	
Lead	0.000 ug/L				(5)	[1]	
Zinc	23.00 ug/L				(5)	[15]	

Dissolved Oxygen, minimum 5.20

LBS

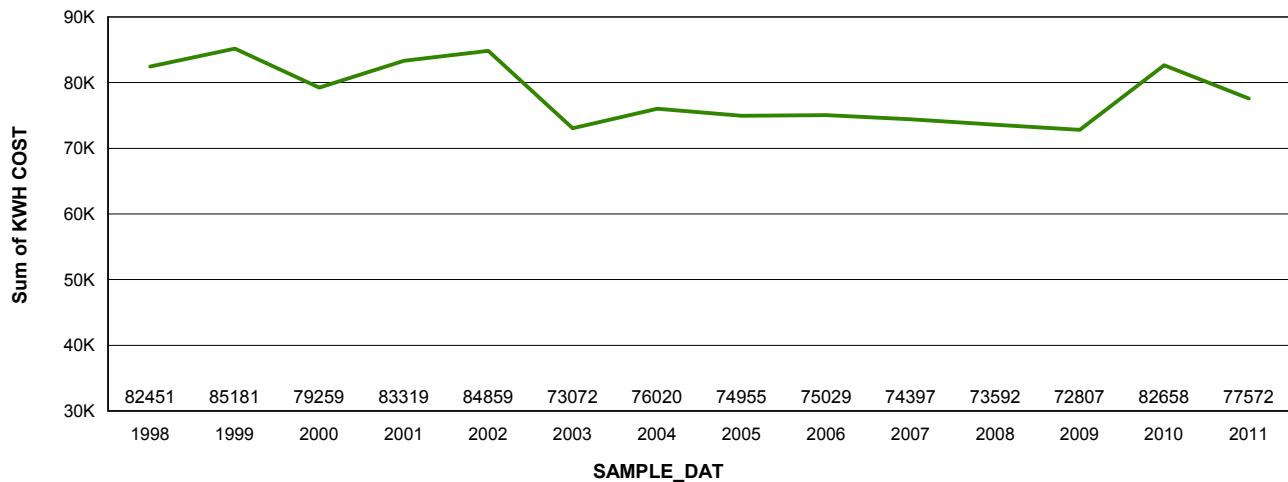
Fe	60,015	\$28,807	Electric	768,120 KWH	\$77,572
Cl2	4,315	\$2,747	Gas Produced		37,903
Polymer	0	\$0	Decant gallons		542,099
			Primary sludge TS lbs avg		1,778
			Primary sludge VS lbs avg		1,184



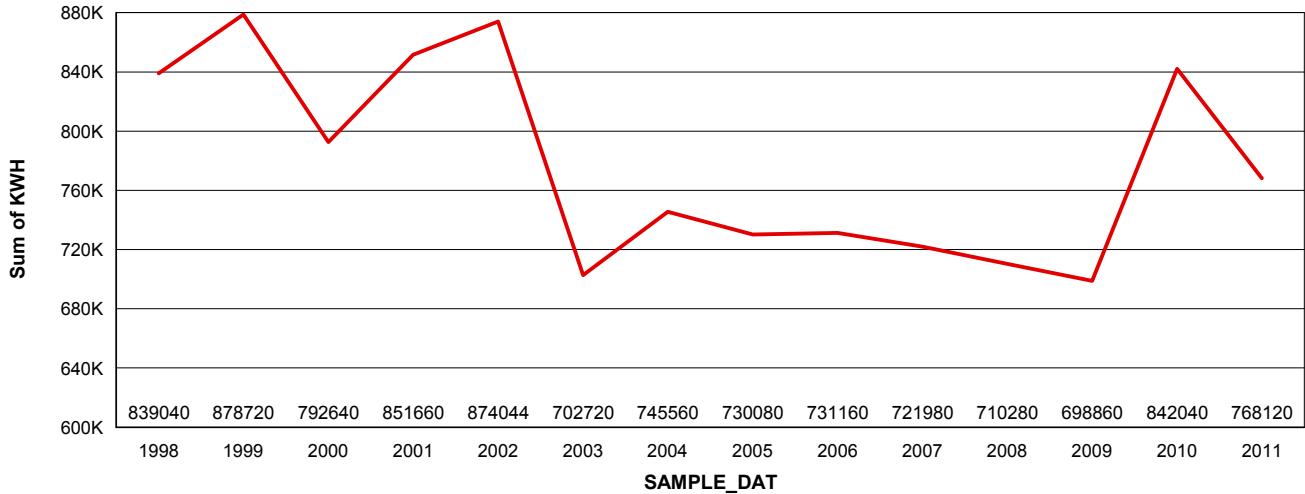
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Sum of KWH COST



Sum of KWH

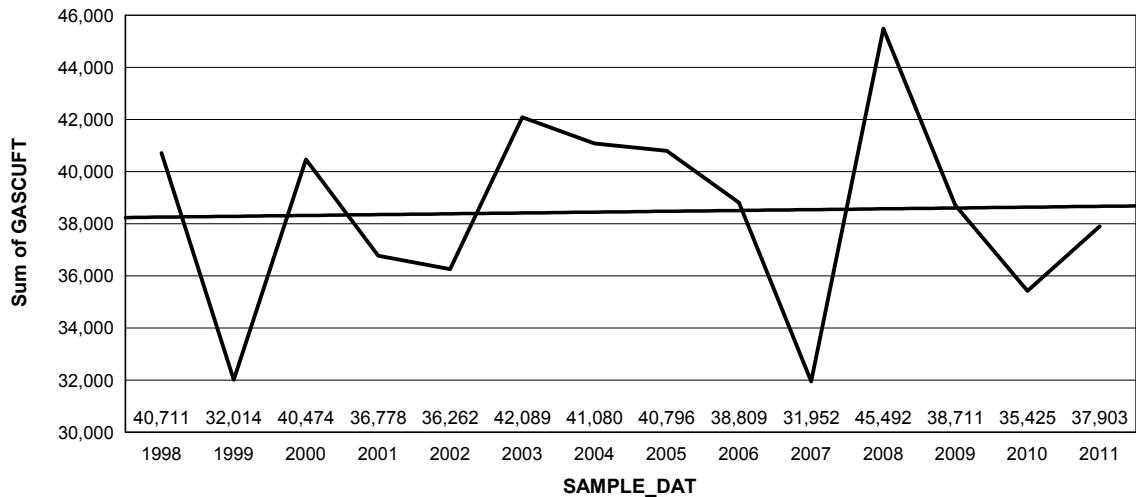




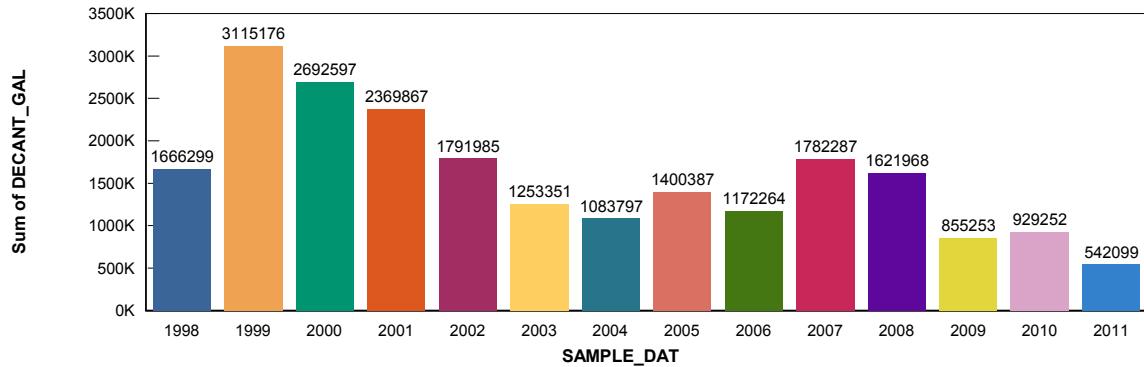
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Sum of GAS Produced CUFT



Sum of DECANT_Gallons

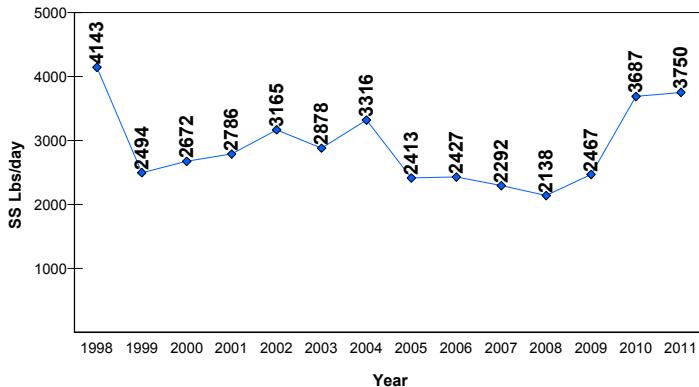




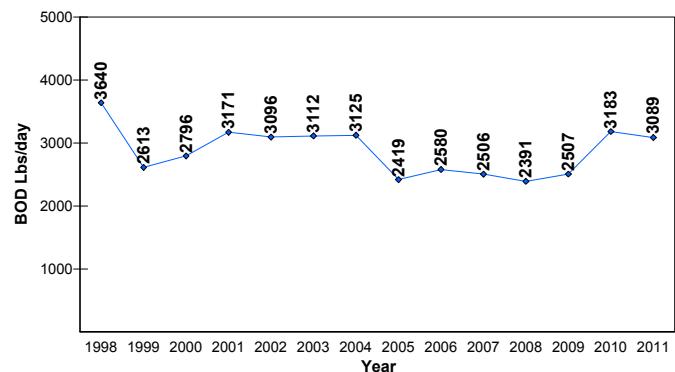
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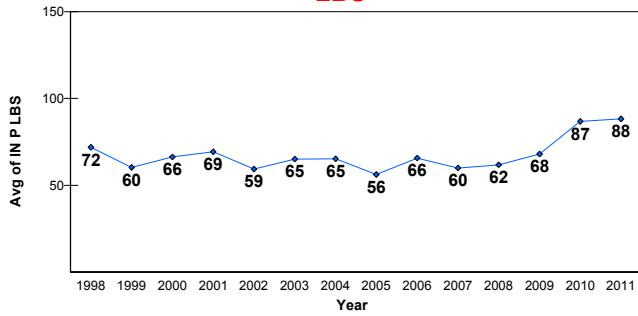
Avg of Influent Suspended Solids
LBS per day



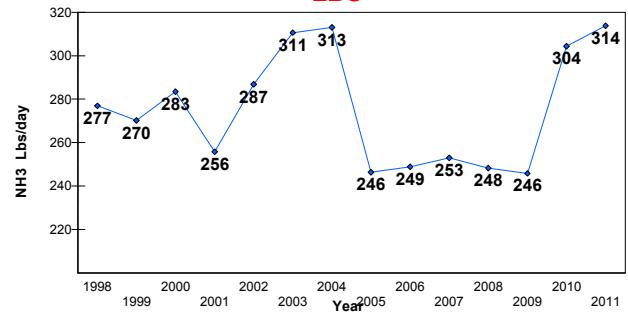
Avg of Influent BOD LBS per day
(Biochemical Oxygen Demand)



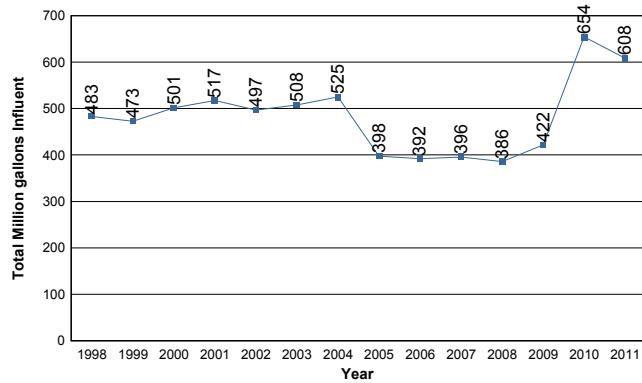
Avg of Influent Phosphorus
LBS



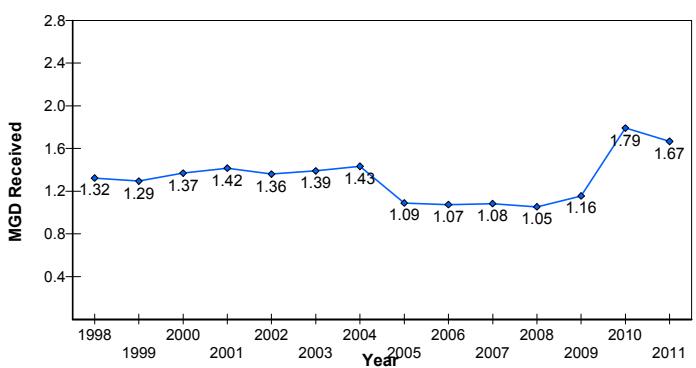
Avg of Influent Ammonia N
LBS



Total Annual Million Gallons



Average Million Gallons per day
Influent



Respectfully Submitted,

Jeannette Fenner