

RAW INFLUENT STRENGTH (Heart of the Valley Metropolitan Sewerage Facility)

November 2024

MONTH	FLOW		TSS			BOD			TOTAL PHOSPHORUS			AMMONIA			CHLORIDE		
	Million * Gallons	Avg MGD	Avg mg/L	Avg #/day	Total #/Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month
Jan	195.7	6.3	200	10,529	322,474	239	12,606	384,941	4.62	243	7,271	35.0	1841	55,081	735	38,714	1,185,582
Feb	200.5	6.9	203	11,712	335,199	231	13,306	380,481	4.81	277	7,753	31.5	1815	51,806	671	38,668	1,110,798
Mar	201.0	6.5	202	10,905	331,561	230	12,440	375,775	4.69	253	7,706	33.5	1811	55,173	683	36,936	1,126,901
Apr	252.4	8.4	164	11,479	320,482	185	12,958	363,130	3.68	258	7,309	26.0	1827	51,734	612	42,964	1,235,989
May	233.9	7.5	175	11,028	333,803	200	12,578	380,309	3.95	249	7,343	27.1	1708	51,132	598	37,655	1,093,982
Jun	271.5	9.1	144	10,869	300,719	169	12,757	351,636	3.59	271	7,666	22.6	1704	47,274	515	38,842	1,123,849
Jul	290.9	9.4	145	11,388	329,615	161	12,588	353,460	3.33	260	7,124	21.0	1642	48,564	522	40,883	1,212,590
Aug	249.3	8.0	172	11,526	345,199	192	12,890	386,875	3.91	263	7,898	25.0	1677	51,636	572	38,381	1,174,503
Sep	161.6	5.4	229	10,296	307,005	260	11,668	347,786	5.32	239	7,050	36.2	1628	48,543	766	34,418	1,022,016
Oct	165.4	5.3	244	10,868	334,444	281	12,524	383,223	5.84	260	7,939	33.8	1506	46,468	827	36,803	1,132,038
Nov																	
Dec																	
Average	222.2	7.3	188	11,060	326,050	215	12,632	370,761	4.37	257	7,506	29.2	1,716	50,741	650	38,426	1,141,825
Yearly Total	2,222.2				3,260,501			3,707,614			75,059			507,412			11,418,248
*Includes Hauled Waste [Plant Design Capacity] =			8.5	13,565		12,209		339		1,600							
(Hauled Waste Gallons)= 177,550 [Max Design Capacity] =			11.9	16,278		14,651		407		1,920							
November % of Capacity			45%	67%		85%		64%		78%							

November Max Daily Flow : 8.92

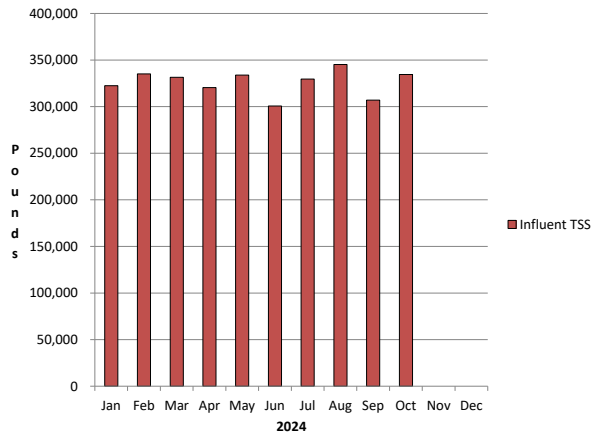
EFFLUENT QUALITY

MONTH	FLOW		TSS			BOD			TOTAL PHOSPHORUS			AMMONIA			CHLORIDE		
	Million Gallons	Avg MGD	Avg mg/L	Avg #/day	Total #/Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L		
Jan	109.3	3.5	11.8	346	10,416	10.3	304	9,284	0.40	11.9	357	0.38	11.3	329	755		
Feb	115.5	4.0	6.8	225	6,461	6.1	203	5,842	0.26	8.5	236	0.19	6.3	158	672		
Mar	111.9	3.6	7.2	217	6,567	5.9	177	5,383	0.28	8.5	255	0.24	7.2	189	700		
Apr	189.5	6.3	6.9	365	11,440	5.4	285	8,512	0.25	13.1	384	0.20	10.5	294	583		
May	131.7	4.2	9.0	319	10,633	7.6	268	8,763	0.46	16.2	487	0.41	14.4	486	586		
Jun	177.3	5.9	6.7	330	9,565	5.6	278	8,088	0.21	10.5	307	0.27	13.4	309	498		
Jul	189.4	6.1	5.0	257	7,682	5.2	266	8,278	0.16	8.2	249	0.21	10.9	380	522		
Aug	146.6	4.7	6.3	249	7,560	4.2	166	4,991	0.16	6.3	198	0.17	6.8	204	557		
Sep	67.9	2.3	11.3	214	6,260	6.7	127	3,714	0.22	4.1	120	0.47	8.8	380	775		
Oct	106.2	3.4	7.8	223	6,398	6.1	175	4,994	0.13	3.8	109	0.68	19.3	645	793		
Nov																	
Dec																	
Average	134.5	4.4	7.9	275	8,298	6.3	224.8	6,785	0.25	9.1	270.1	0.32	10.9	337.5	644		
Yearly Total	1,345.3				82,984			67,849			2,701			3,374.5			
Effluent Gallons to Fox Energy (November)			November	Avg #/s						6 mo. Avg #/s	8.03	May-Oct					
			WEEK 1	256													
			WEEK 2	239													
			WEEK 3	128													
			WEEK 4	140													
59.15			36%														

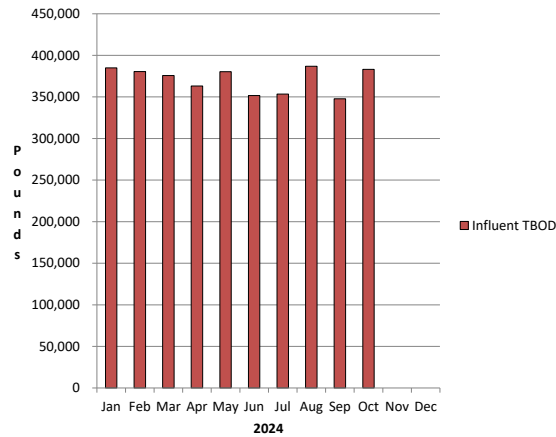
Monthly Avg Limit	
Jan- Marc	10 mg/L
April-May	11 mg/L
June-Sept	4.4 mg/L
Oct- Dec	18 mg/L

(PERMIT LIMITS (WDNR) →	
Monthly (Avg)	801#
Weekly (Avg)	1345#
Daily Max (mg/L)	30
Monthly Avg	30 mg/L
Weekly Avg	45 mg/L
WLA May-Oct	6 mo Avg 31.5#
	Daily Max mg/L 10.5#
	1.0

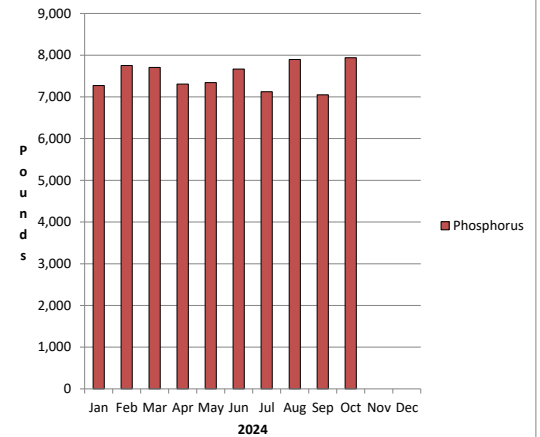
Influent TSS Total Pounds/Mo.



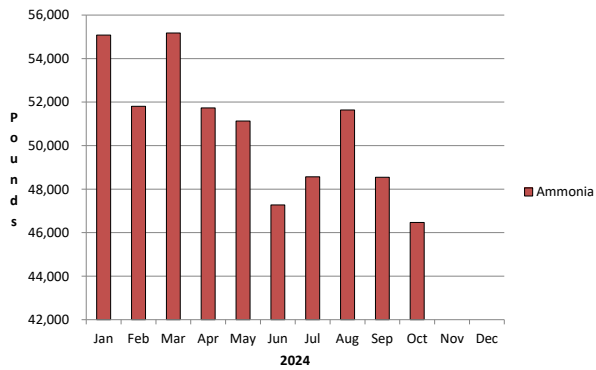
Influent BOD Total Pounds / Mo.



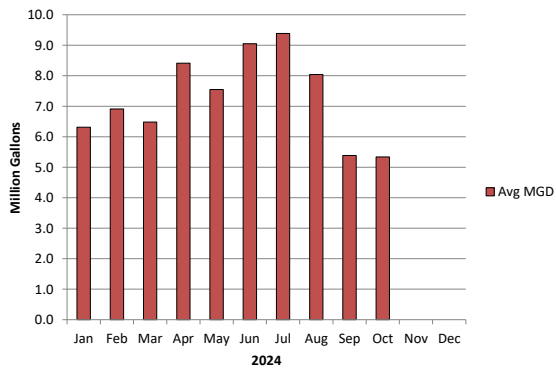
Influent Phosphorus Total Pounds/Mo.



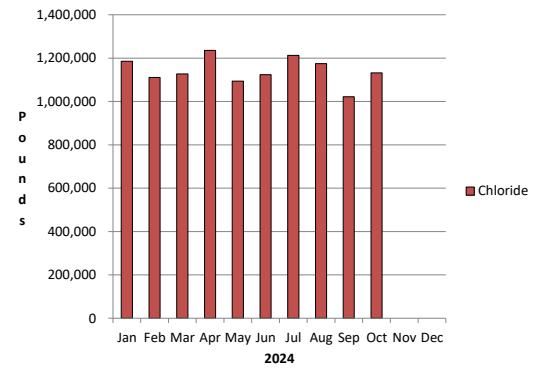
Influent Ammonia Total Pounds/Mo.



Avg Influent MGD/Mo.



Influent Chloride Total Pounds/Mo.



RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: OCTOBER

YEAR: 2024

<u>DATE</u>	<u>PLANT</u> <u>INCHES</u>	<u>KAUKAUNA</u> <u>INCHES</u>	<u>LITTLE CHUTE</u> <u>INCHES</u>	<u>KIMBERLY</u> <u>INCHES</u>	<u>DARBOY</u> <u>INCHES</u>
1	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00
4	0.02	0.01	0.01	0.01	0.01
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.29	0.28	0.25	0.27	0.26
14	0.01	0.01	0.00	0.00	0.00
15	0.01	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.07	0.10	0.08	0.07	0.04
25	0.04	0.02	0.03	0.00	0.09
26	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00
30	0.84	0.81	0.71	0.79	0.79
31	0.79	0.78	0.82	0.83	0.93
TOTAL:	2.07	2.01	1.91	1.97	2.12