

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

**April 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																	
Jun																	
Jul																	
Aug																	
Sep																	
Oct																	
Nov																	
Dec																	
<b>Average</b>	212.4	7.0	192	11,156	327,429	221	12,828	376,081	4.45	258	7,510	31.5	1,824	53,449	675	39,320	1,164,817
<b>Yearly Total</b>	849.5				1,309,716			1,504,326			30,038			213,795			4,659,270

\*Includes Hauled Waste

[Plant Design Capacity] = 8.5

13,565

12,209

339

1,600

[Hauled Waste Gallons]= 174,220

[Max Design Capacity] = 11.9

16,278

14,651

407

1,920

April % of Capacity = 71%

71%

88%

63%

95%

April Max Daily Flow = 17.05

**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															
Jun															
Jul															
Aug															
Sep															
Oct															
Nov															
Dec															
<b>Average</b>	131.5	4.4	8.2	288	8,721	6.9	242.2	7,255	0.30	10.5	307.9	0.25	8.8	242.5	678
<b>Yearly Total</b>	526.2				34,885			29,021			1,232			970.0	

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#

Monthly Avg 30 mg/L

Monthly Avg 31.5#

Weekly (Avg) 1345#

Weekly Avg 45 mg/L

6 mo Avg 10.5#

Daily Max (mg/L) 30

WLA May-Oct

Daily Max mg/L 1.0

Effluent Gallons to Fox Energy (April)

62.88 31%

April Avg #'s

WEEK 1 653

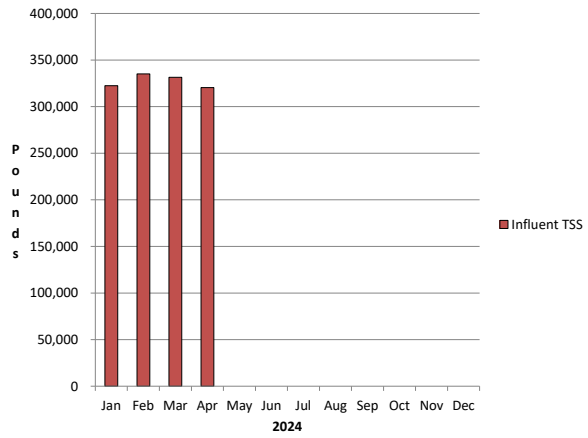
WEEK 2 198

WEEK 3 278

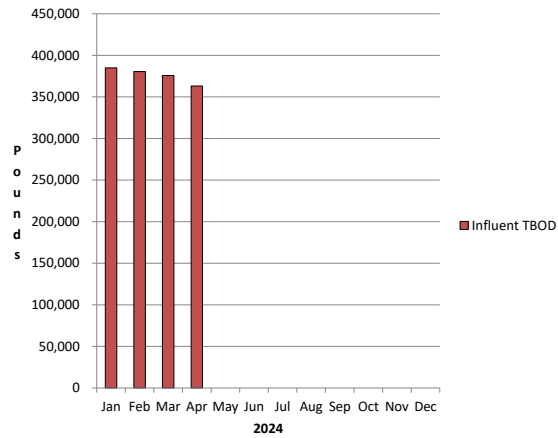
WEEK 4 412

6 mo. Avg #'s 12.00 Nov-April

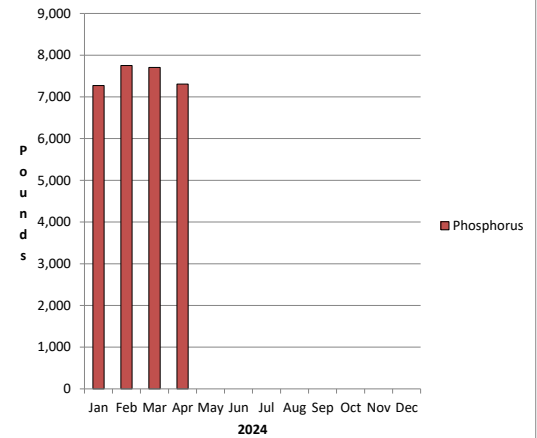
**Influent TSS Total Pounds/Mo.**



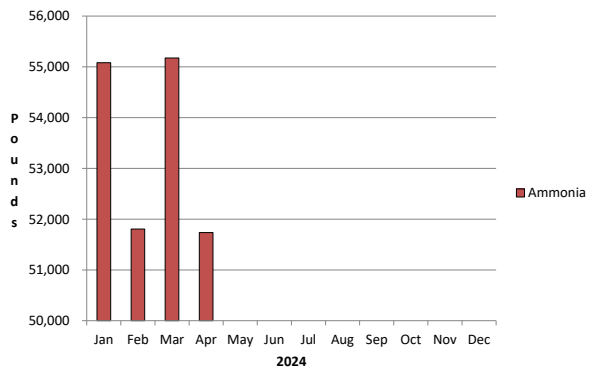
**Influent BOD Total Pounds / Mo.**



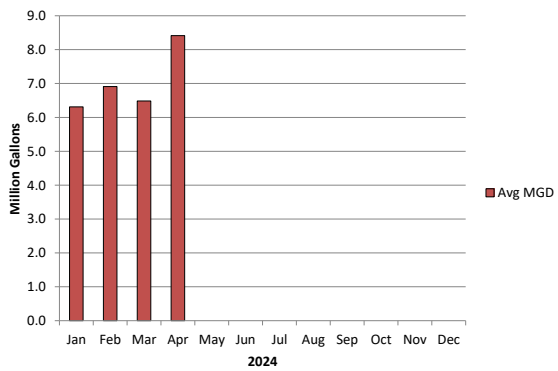
**Influent Phosphorus Total Pounds/Mo.**



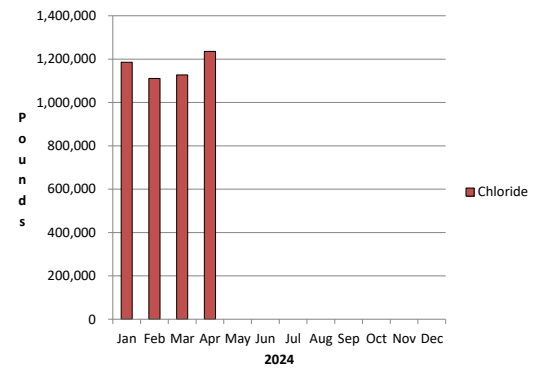
**Influent Ammonia Total Pounds/Mo.**



**Avg Influent MGD/Mo.**



**Influent Chloride Total Pounds/Mo.**



# RAIN GAUGES

## DAILY RAINFALL TOTALS

MONTH: APRIL

YEAR: 2024

<u>DATE</u>	<u>PLANT INCHES</u>	<u>KAUKAUNA INCHES</u>	<u>LITTLE CHUTE INCHES</u>	<u>KIMBERLY INCHES</u>	<u>DARBOY INCHES</u>
1	0.02	0.03	0.01	0.01	0.01
2	0.35	0.31	0.38	0.36	0.47
3	0.44	0.15	0.10	0.05	0.81
4	0.07	0.06	0.45	0.04	0.47
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.04	0.04	0.04	0.03	0.03
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	0.01	0.01	0.01	0.02	0.01
12	0.01	0.00	0.00	0.01	0.01
13	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00
16	0.16	0.00	0.18	0.16	0.21
17	0.12	0.15	0.14	0.19	0.25
18	0.01	0.00	0.01	0.01	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	0.04	0.04	0.04	0.03	0.02
23	0.01	0.01	0.00	0.00	0.01
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00
26	0.13	0.14	0.16	0.16	0.21
27	0.29	0.32	0.34	0.35	0.32
28	0.20	0.21	0.24	0.19	0.30
29	0.01	0.01	0.01	0.01	0.00
30	0.05	0.05	0.04	0.02	0.05
<b>TOTAL:</b>	1.96	1.53	2.15	1.64	3.18

0= Cipher Program Issue

Odd