

FLOW AND STRENGTH PROJECTIONS

MONTH: March 2025

	<u>PROJECTED</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>	<u>PROJECTED INCOME FOR MONTH</u>	<u>ACTUAL INCOME FOR MONTH</u>	<u>SURPLUS OR DEFICIT</u>
FLOW (GALLONS)	265,319,333	291,068,000	25,748,667	\$ 202,969.29	\$ 222,667.02	\$ 19,697.73
B.O.D. (#s)	530,593	410,102	-120,491	\$ 97,629.11	\$ 75,458.77	\$ (22,170.34)
S. SOLIDS (#s)	483,138	440,124	-43,014	\$ 109,189.19	\$ 99,468.02	\$ (9,721.16)
PHOSPHORUS (#s)	8,754	7,920	-834	\$ 55,973.08	\$ 50,640.48	\$ (5,332.60)
AMMONIA-N (#s)	47,296	41,941	-5,355	\$ 66,261.70	\$ 58,759.34	\$ (7,502.36)
CHLORIDES (#s)	1,252,603	1,419,358	166,755	\$ 2,505.21	\$ 2,838.72	\$ 333.51
			TOTAL:	\$ 534,527.57	\$ 509,832.35	\$ (24,695.22)

(THRU MARCH 2024)

PROJECTED FOR 2024

	<u>END OF YEAR PROJECTED</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT \$\$</u>
FLOW (GALLONS)	2,301,369,933	20,196,633	\$ 15,450.42
B.O.D. (#s)	5,484,285	-236,137	\$ (43,449.21)
S. SOLIDS (#s)	4,877,973	5,044	\$ 1,139.94
PHOSPHORUS (#s)	94,940	-548	\$ (3,503.91)
AMMONIA-N (#s)	666,440	-11,280	\$ (15,803.28)
CHLORIDES (#s)	11,252,829	681,285	\$ 1,362.57
		TOTAL:	\$ (44,803.46)

FLOW AND STRENGTH PROJECTIONS

MONTH: March 2025

	<u>PROJECTED</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>	<u>PROJECTED INCOME FOR MONTH</u>	<u>ACTUAL INCOME FOR MONTH</u>	<u>SURPLUS OR DEFICIT</u>
FLOW (GALLONS)	198,956,000	291,068,000	92,112,000	\$ 152,201.34	\$ 222,667.02	\$ 70,465.68
B.O.D. (#s)	463,040	410,102	-52,938	\$ 85,199.37	\$ 75,458.77	\$ (9,740.60)
S. SOLIDS (#s)	491,248	440,124	-51,124	\$ 111,022.00	\$ 99,468.02	\$ (11,553.97)
PHOSPHORUS (#s)	7,833	7,920	87	\$ 50,084.20	\$ 50,640.48	\$ 556.28
AMMONIA-N (#s)	47,296	41,941	-5,355	\$ 66,261.70	\$ 58,759.34	\$ (7,502.36)
CHLORIDES (#s)	1,079,330	1,419,358	340,028	\$ 2,158.66	\$ 2,838.72	\$ 680.06
	2024 Actual Data		TOTAL:	\$ 466,927.27	\$ 509,832.35	\$ 42,905.08

(THRU MARCH 2024)

PROJECTED FOR 2024

	<u>END OF YEAR PROJECTED</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT \$\$</u>
FLOW (GALLONS)	2,301,369,933	21,684,300	\$ 16,588.49
B.O.D. (#s)	5,484,285	-235,806	\$ (43,388.32)
S. SOLIDS (#s)	4,877,973	-146,392	\$ (33,084.54)
PHOSPHORUS (#s)	94,940	-485	\$ (3,101.09)
AMMONIA-N (#s)	666,440	-11,280	\$ (15,803.28)
CHLORIDES (#s)	11,252,829	447,766	\$ 895.53
		TOTAL:	\$ (77,893.20)

FLOW AND STRENGTH PROJECTIONS

MONTH: March 2025

	<u>PROJECTED</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>	<u>PROJECTED INCOME FOR MONTH</u>	<u>ACTUAL INCOME FOR MONTH</u>	<u>SURPLUS OR DEFICIT</u>
FLOW (GALLONS)	265,319,333	291,068,000	25,748,667	\$ 202,969.29	\$ 222,667.02	\$ 19,697.73
B.O.D. (#s)	463,040	410,102	-52,938	\$ 85,199.37	\$ 75,458.77	\$ (9,740.60)
S. SOLIDS (#s)	491,248	440,124	-51,124	\$ 111,022.00	\$ 99,468.02	\$ (11,553.97)
PHOSPHORUS (#s)	7,833	7,920	87	\$ 50,084.20	\$ 50,640.48	\$ 556.28
AMMONIA-N (#s)	47,296	41,941	-5,355	\$ 66,261.70	\$ 58,759.34	\$ (7,502.36)
CHLORIDES (#s)	1,079,330	1,419,358	340,028	\$ 2,158.66	\$ 2,838.72	\$ 680.06
	3 yr avg flow		TOTAL:	\$ 517,695.21	\$ 509,832.35	\$ (7,862.87)
	2024 Actual pounds					

(THRU MARCH 2024)

PROJECTED FOR 2024

	<u>END OF YEAR PROJECTED</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT \$\$</u>
FLOW (GALLONS)	2,301,369,933	20,196,633	\$ 15,450.42
B.O.D. (#s)	5,484,285	-235,806	\$ (43,388.32)
S. SOLIDS (#s)	4,877,973	-146,392	\$ (33,084.54)
PHOSPHORUS (#s)	94,940	-485	\$ (3,101.09)
AMMONIA-N (#s)	666,440	-11,280	\$ (15,803.28)
CHLORIDES (#s)	11,252,829	447,766	\$ 895.53
		TOTAL:	\$ (79,031.27)

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

March 2025

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	174.7	5.6	222	10,455	322,127	248	11,674	360,678	5.29	249	7,553	30.6	1440	44,474	843	39,624	1,212,802
Feb	147.6	5.3	230	10,098	279,089	268	11,778	324,733	5.66	249	6,835	30.5	1340	36,699	950	41,761	1,148,991
Mar	277.2	8.9	152	11,347	332,596	170	12,664	365,456	3.53	263	7,536	18.9	1410	39,658	631	47,047	1,380,026
Apr																	
May																	
Jun																	
Jul																	
Aug																	
Sep																	
Oct																	
Nov																	
Dec																	
Average	199.8	6.6	201	10,633	311,271	229	12,039	350,289	4.83	254	7,308	26.7	1,397	40,277	808	42,811	1,247,273
Yearly Total	599.5				933,812			1,050,867			21,925			120,831			3,741,820
*Includes Hauled Waste																	
[Plant Design Capacity] =		8.5		13,565			12,209			339			1,600				
(Hauled Waste Gallons) 289,580																	
[Max Design Capacity] =		11.9		16,278			14,651			407			1,920				
March % of Capacity =		75%		70%			86%			65%			73%				

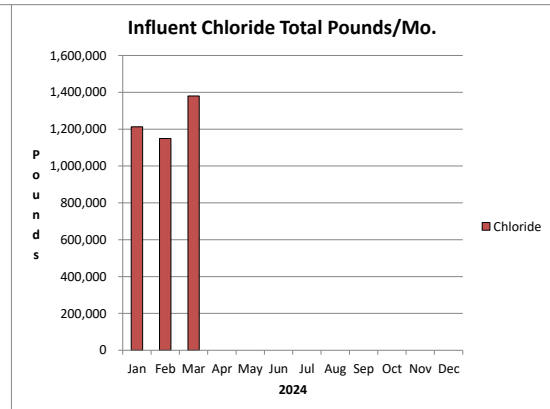
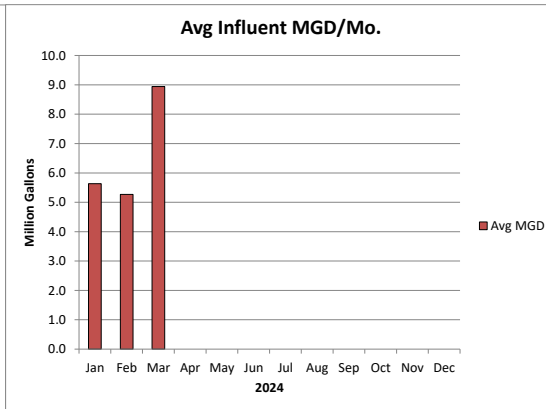
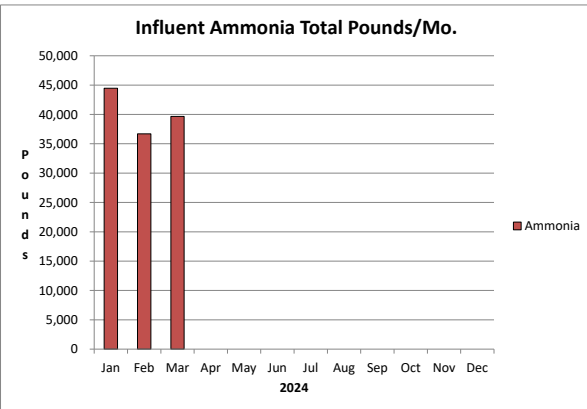
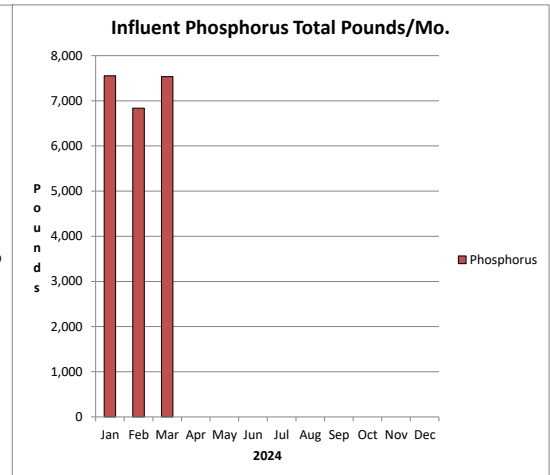
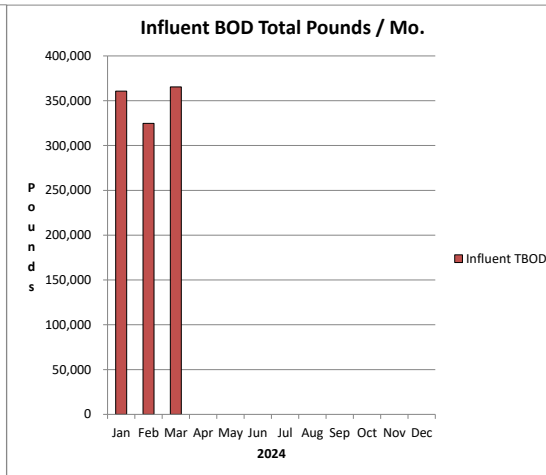
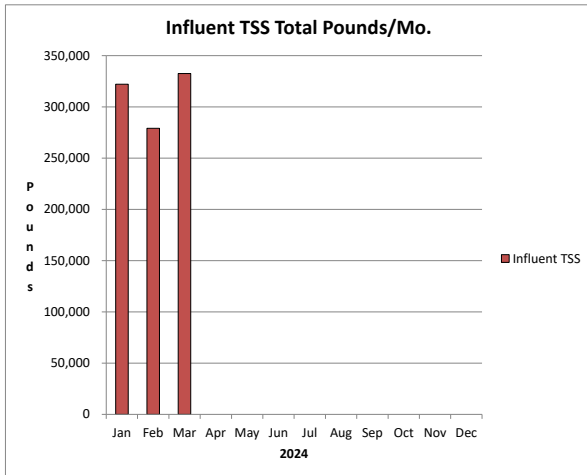
March Max Daily Flow = 7.06

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	97.5	3.1	5.3	140	4,282	7.8	205	6,203	0.31	8.3	252	0.35	9.3	340	862
Feb	77.9	2.8	5.4	126	3,597	8.3	193	5,254	0.25	5.9	161	0.39	9.0	273	950
Mar	231.8	7.5	5.4	337	10,762	6.4	398	11,445	0.16	10.0	278	0.87	54.1	1,049	645
Apr															
May															
Jun															
Jul															
Aug															
Sep															
Oct															
Nov															
Dec															
Average	135.7	4.5	5.4	201	6,214	7.5	265.2	7,634	0.24	8.0	230.4	0.54	24.1	554.2	819
Yearly Total	407.1				18,641			22,902			691			1,662.5	

{PERMIT LIMITS (WDNR) →	Monthly (Avg)	801#	Monthly Avg	30 mg/L	Monthly Avg	31.5#	Jan- March	Monthly Avg Limit	10 mg/L
	Weekly (Avg)	1345#	Weekly Avg	45 mg/L	6 mo Avg	10.5#	April-May	11 mg/L	
	Daily Max (mg/L)	30	WLA May-Oct		Daily Max mg/L	1.0	June-Sept	4.4 mg/L	
							Oct- Dec	18 mg/L	

Effluent Gallons to Fox Energy (March)	March	Avg #'s	6 mo. Avg #'s	6.70
Million Gallons	WEEK 1	274	Nov-April	
48.10	WEEK 2	175		
17%	WEEK 3	282		
	WEEK 4	486		



RAIN GAUGES

DAILY RAINFALL TOTALS

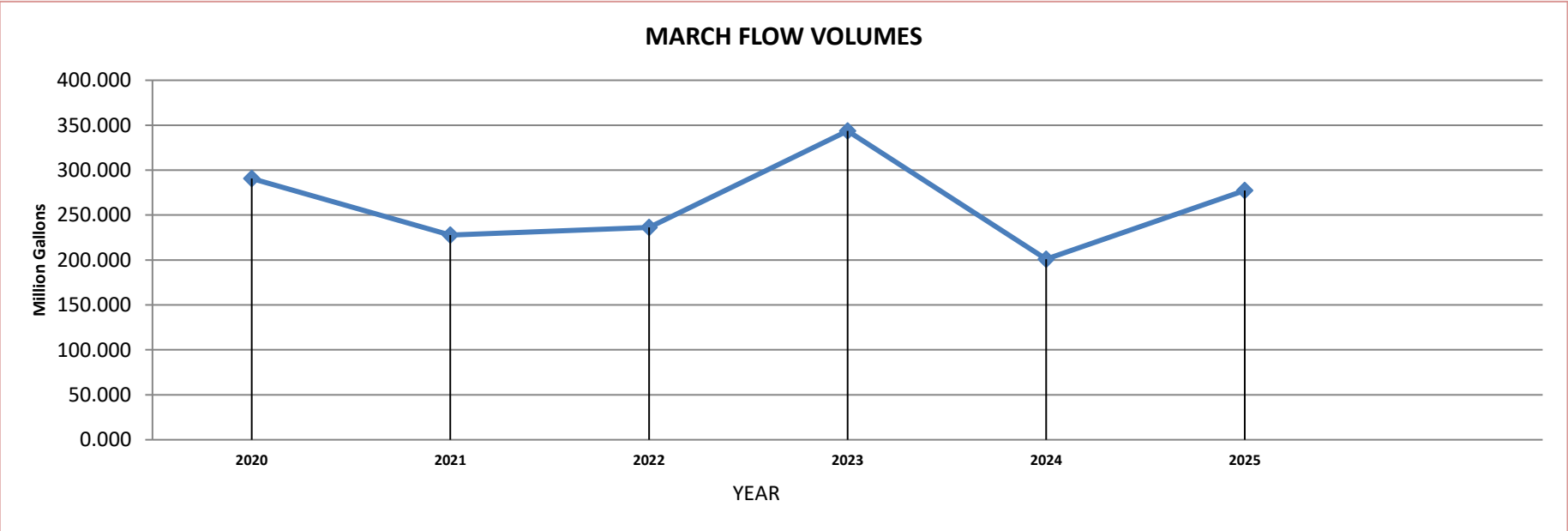
MONTH: MARCH

YEAR: 2025

<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	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00
3	0.01	0.01	0.01	0.01	0.00
4	0.43	0.44	0.46	0.45	0.44
5	0.80	0.62	0.70	0.72	0.74
6	0.00	0.00	0.04	0.05	0.06
7	0.00	0.00	0.00	0.01	0.01
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	0.00	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	0.00	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	0.31	0.32	0.33	0.33	0.33
20	0.29	0.03	0.24	0.26	0.28
21	0.01	0.00	0.01	0.05	0.08
22	0.00	0.00	0.00	0.00	0.00
23	0.10	0.07	0.05	0.05	0.04
24	0.13	0.09	0.18	0.16	0.13
25	0.00	0.03	0.00	0.06	0.12
26	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.05	0.05	0.05	0.04	0.03
29	0.50	0.43	0.53	0.54	0.54
30	0.32	0.26	0.32	0.31	0.30
31	0.04	0.01	0.02	0.05	0.07
TOTAL:	2.99	2.36	2.94	3.06	3.17

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

<u>Year</u>	<u>March Flow</u> <u>Million Gallons</u>	<u>Precipitation</u> <u>Inches</u>
2020	290.643	4.17
2021	227.688	1.79
2022	236.184	5.46
2023	343.638	3.70
2024	200.988	1.52
2025	277.239	2.90



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

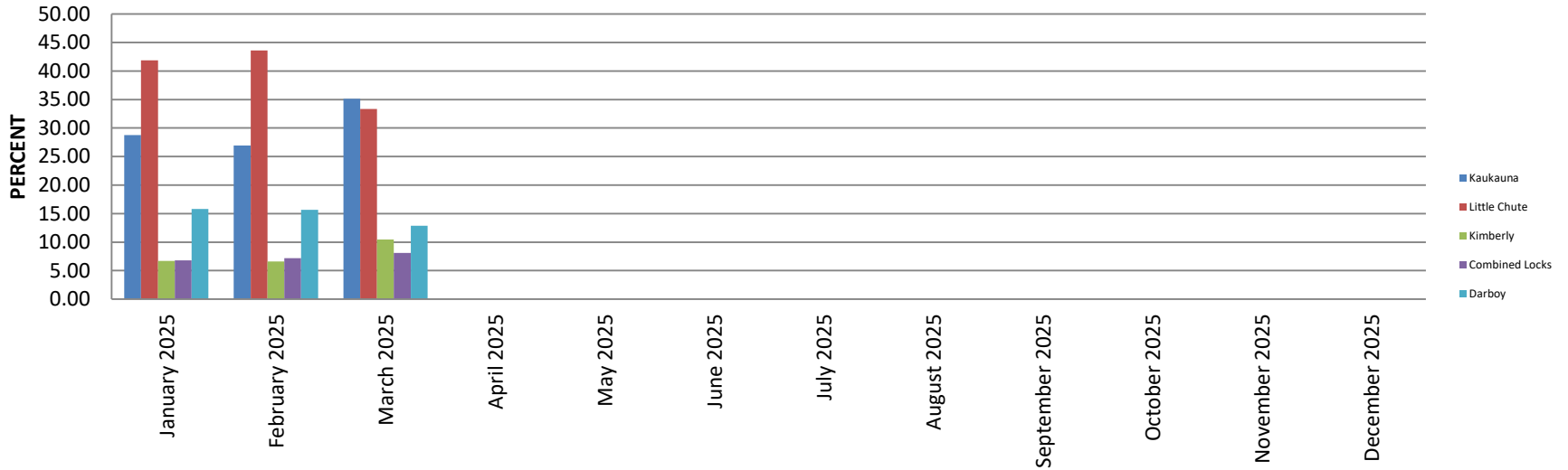
% CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>	<u>Rainfall - Inches</u>
January 2025	28.79	41.88	6.72	6.80	15.81	
February 2025	26.93	43.63	6.61	7.17	15.67	
March 2025	35.15	33.37	10.46	8.12	12.89	2.90
April 2025						
May 2025						
June 2025						
July 2025						
August 2025						
September 2025						
October 2025						
November 2025						
December 2025						

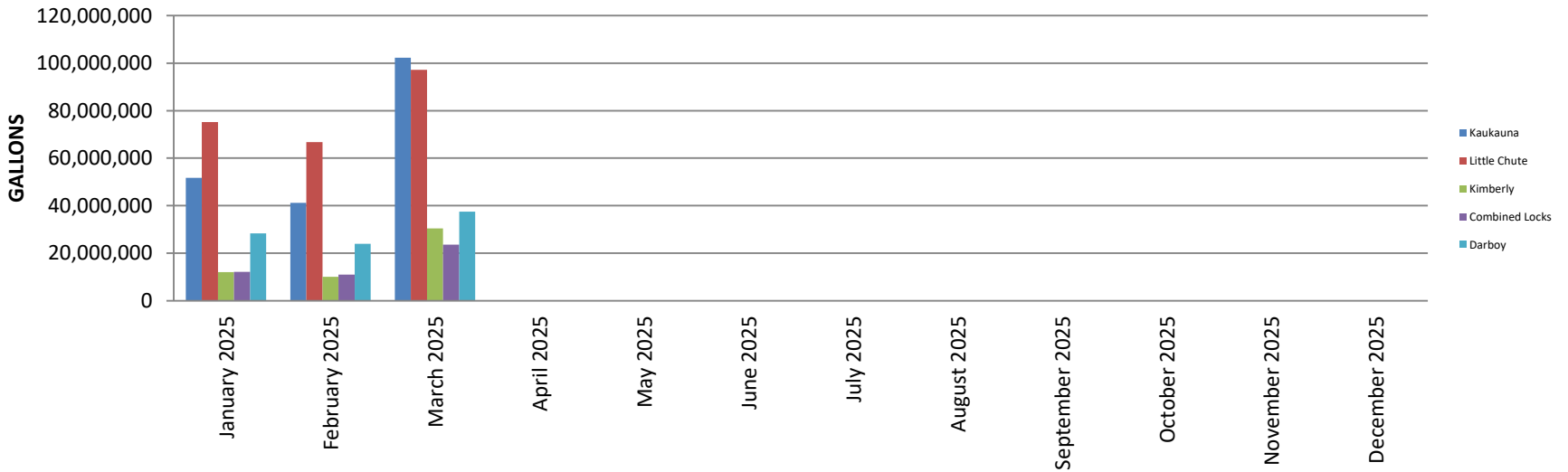
GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	51,688,700	75,179,000	12,063,000	12,212,000	28,383,000
February 2025	41,174,600	66,710,000	10,104,000	10,968,000	23,955,000
March 2025	102,316,000	97,123,000	30,448,000	23,649,000	37,532,000
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

% CONTRIBUTION BY COMMUNITY - FLOW GALLONS



GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

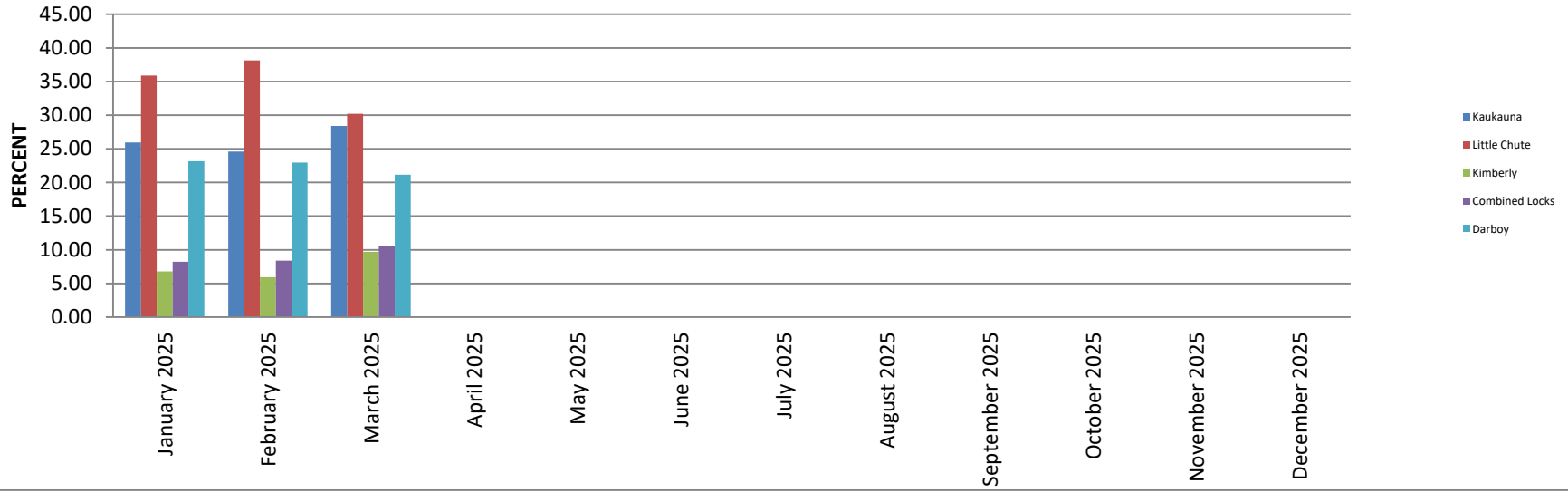
% CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	25.94	35.87	6.79	8.24	23.15
February 2025	24.58	38.13	5.94	8.38	22.97
March 2025	28.41	30.19	9.68	10.56	21.15
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

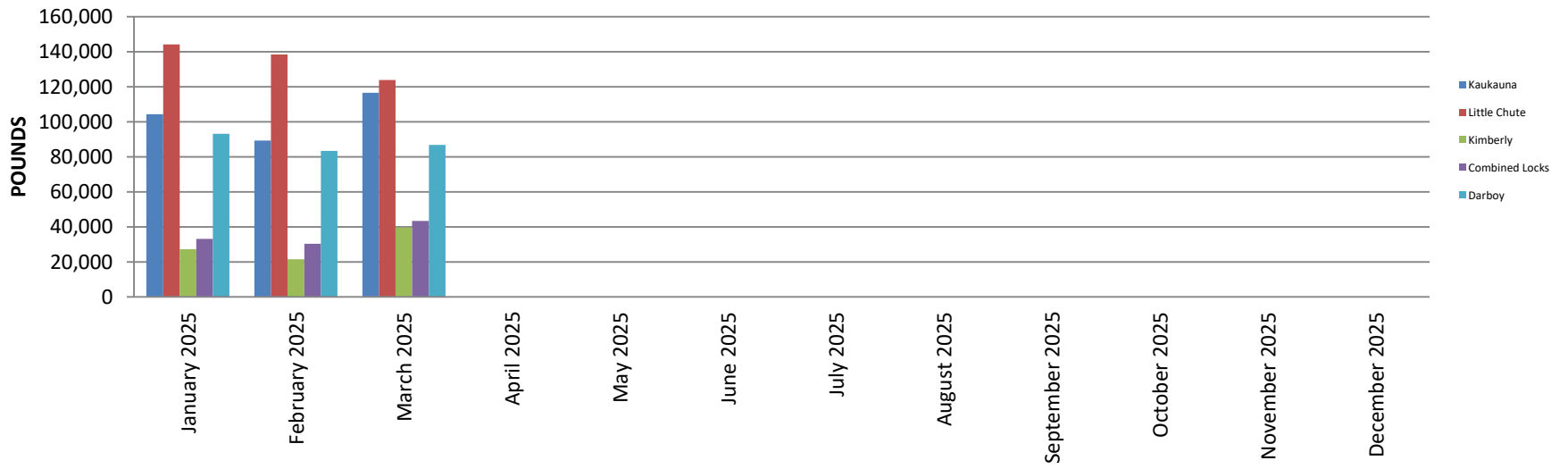
POUNDS CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	104,314	144,239	27,304	33,131	93,081
February 2025	89,240	138,430	21,557	30,417	83,395
March 2025	116,505	123,825	39,692	43,327	86,753
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

% CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS



POUNDS CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

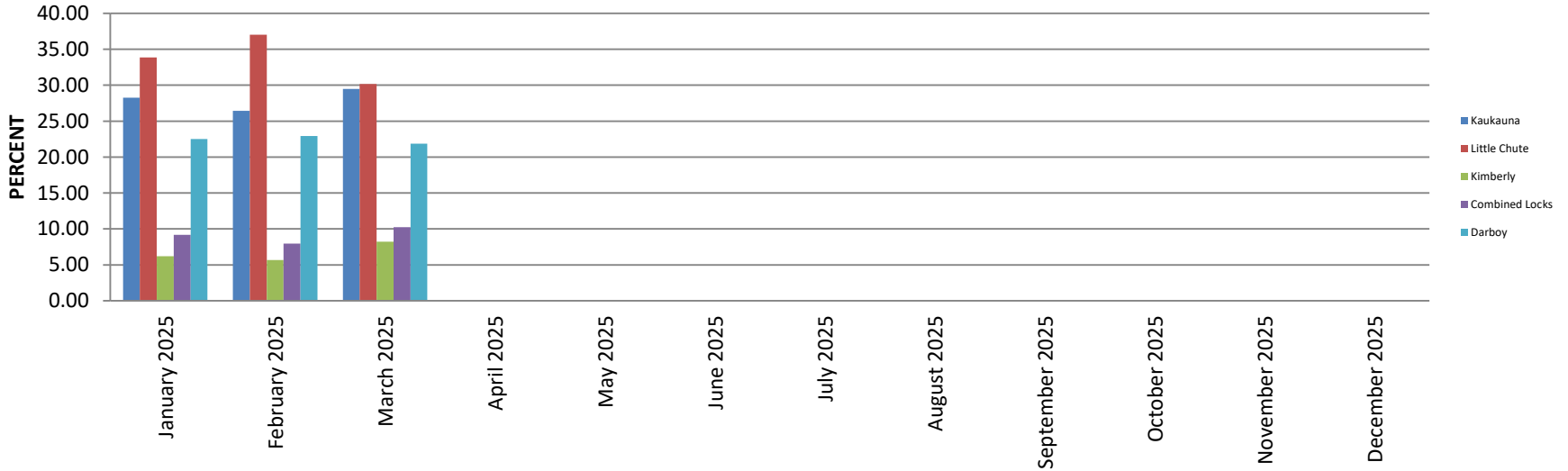
% CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	28.25	33.86	6.20	9.19	22.50
February 2025	26.43	37.02	5.68	7.95	22.92
March 2025	29.48	30.16	8.24	10.25	21.86
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

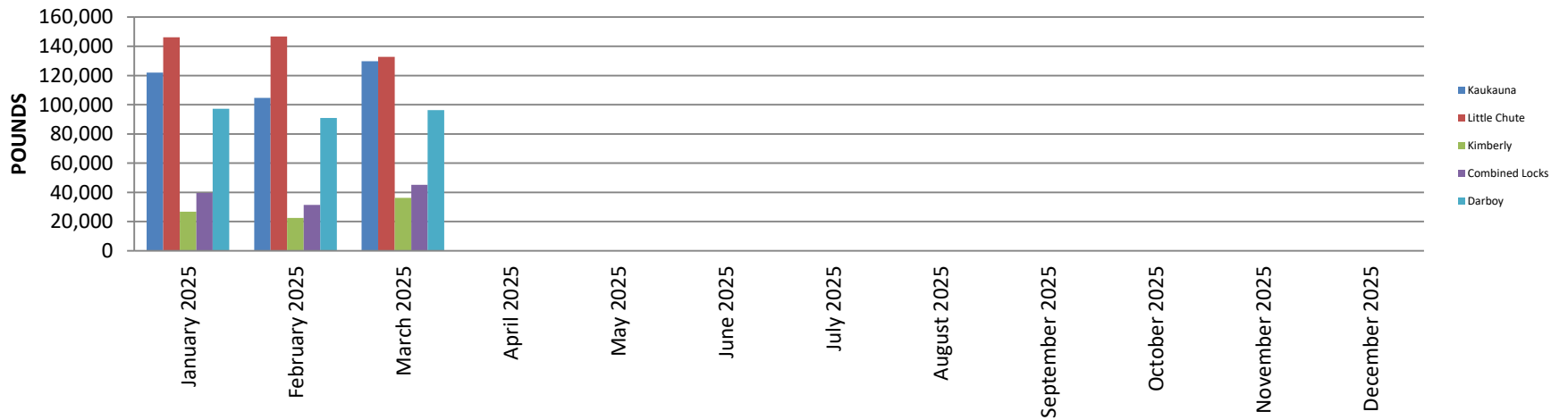
POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	121,999	146,193	26,789	39,672	97,159
February 2025	104,749	146,737	22,527	31,492	90,868
March 2025	129,769	132,761	36,261	45,115	96,218
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

% CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS



POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

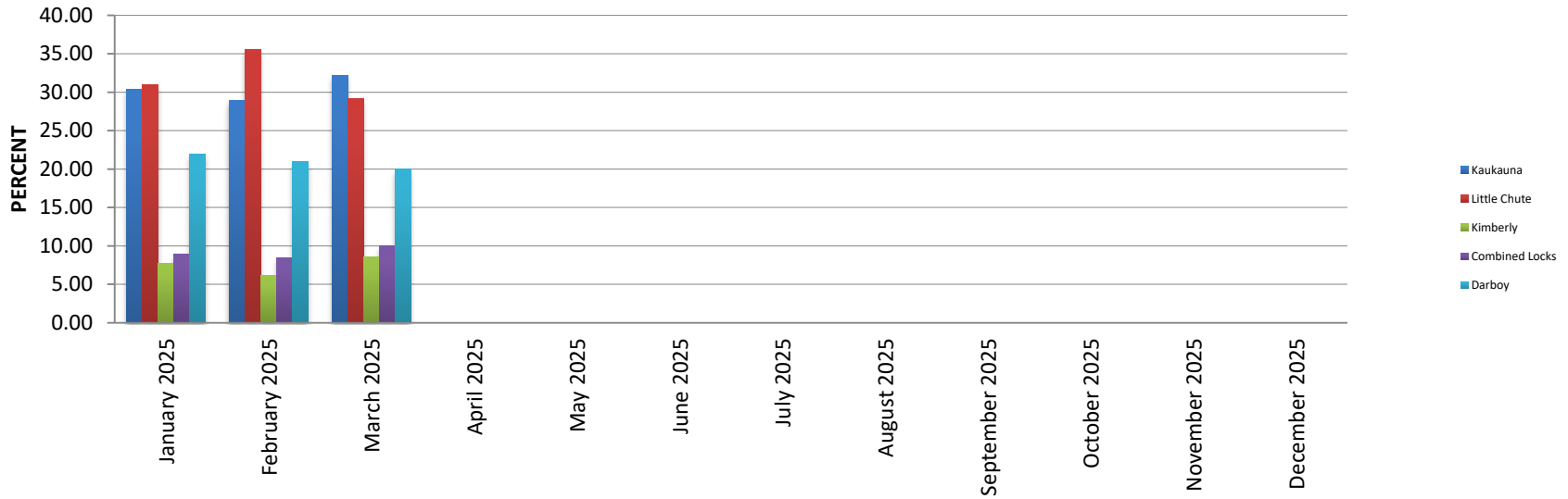
% CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	30.36	30.96	7.76	8.94	21.98
February 2025	28.93	35.52	6.12	8.48	20.95
March 2025	32.17	29.20	8.61	10.07	19.96
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

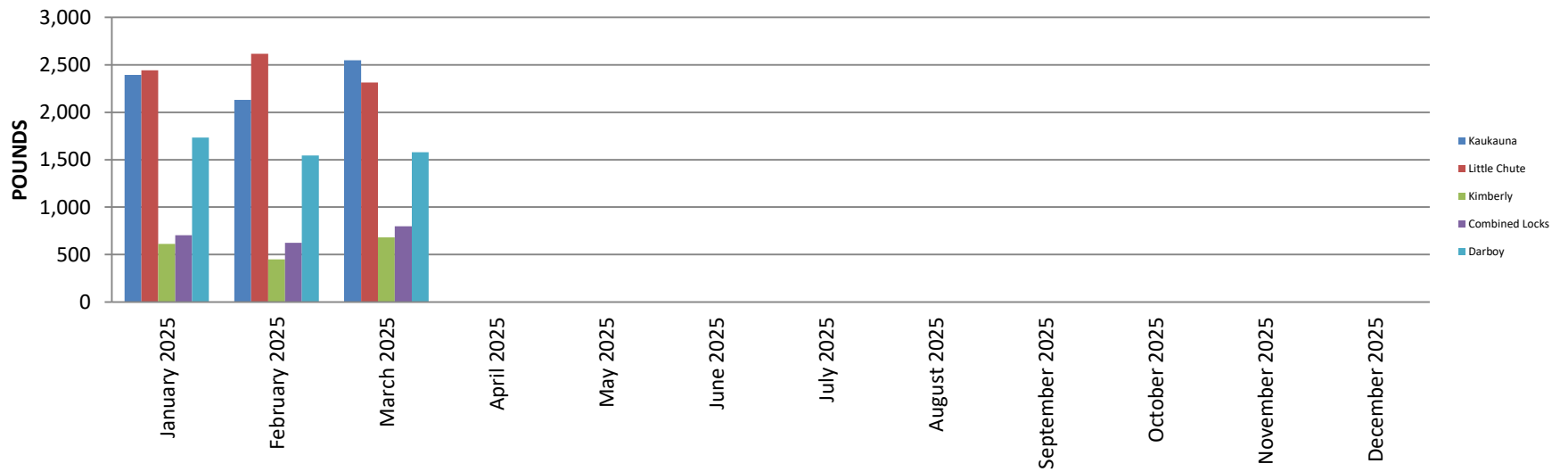
POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	2,394	2,442	612	705	1,734
February 2025	2,131	2,616	451	624	1,543
March 2025	2,547	2,313	682	798	1,580
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

% CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS



POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

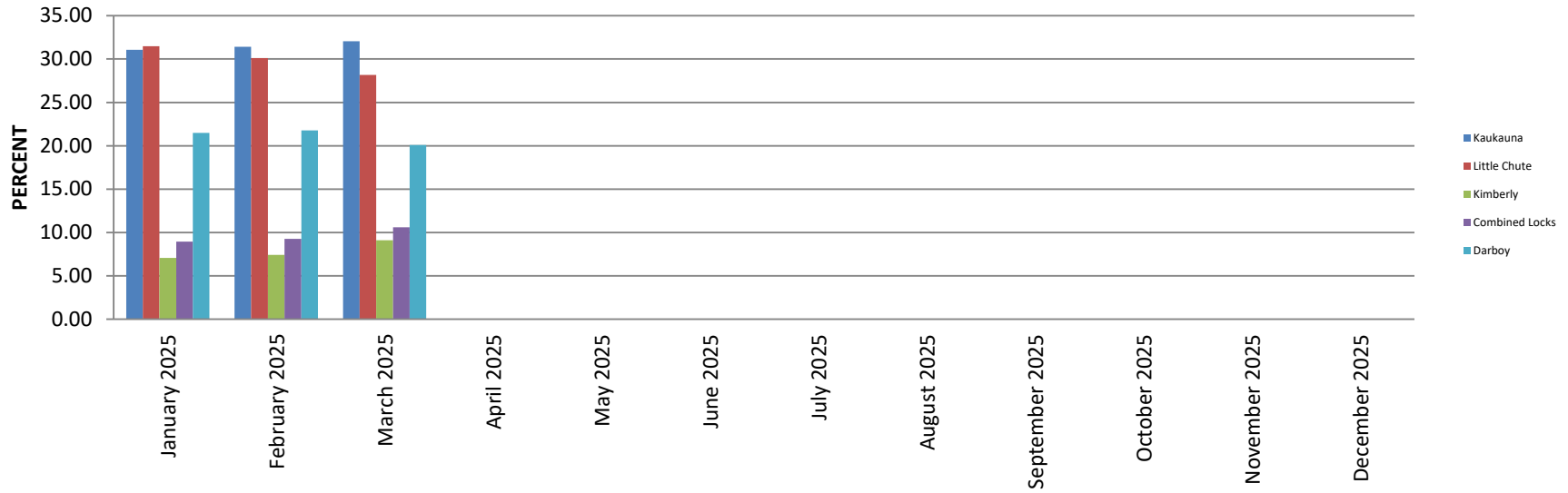
% CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	31.07	31.48	7.05	8.93	21.47
February 2025	31.40	30.12	7.43	9.27	21.78
March 2025	32.05	28.17	9.10	10.59	20.09
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

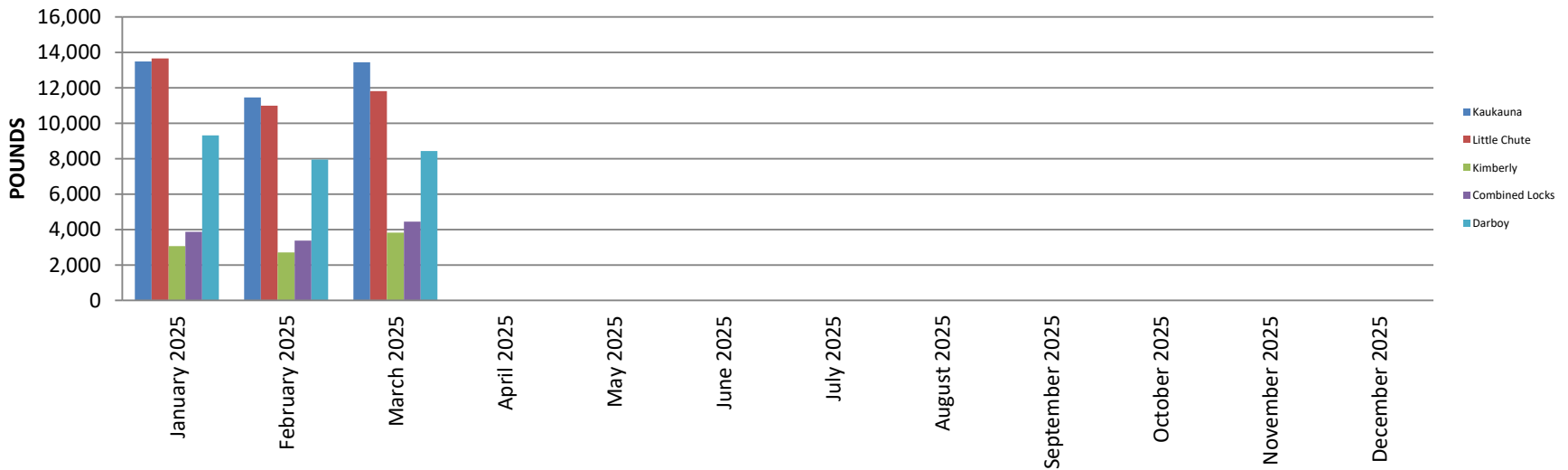
POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	13,483	13,663	3,059	3,874	9,319
February 2025	11,459	10,994	2,710	3,382	7,950
March 2025	13,443	11,814	3,818	4,441	8,426
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

% CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS



POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

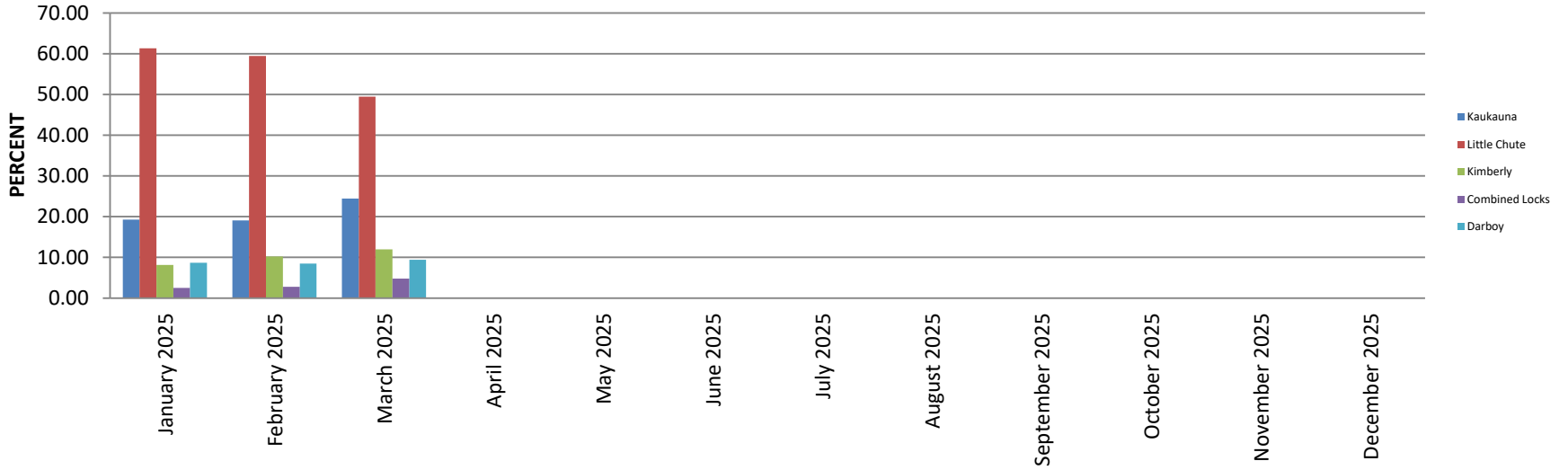
% CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	19.30	61.32	8.16	2.53	8.69
February 2025	19.07	59.45	10.21	2.78	8.49
March 2025	24.43	49.43	11.95	4.77	9.41
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

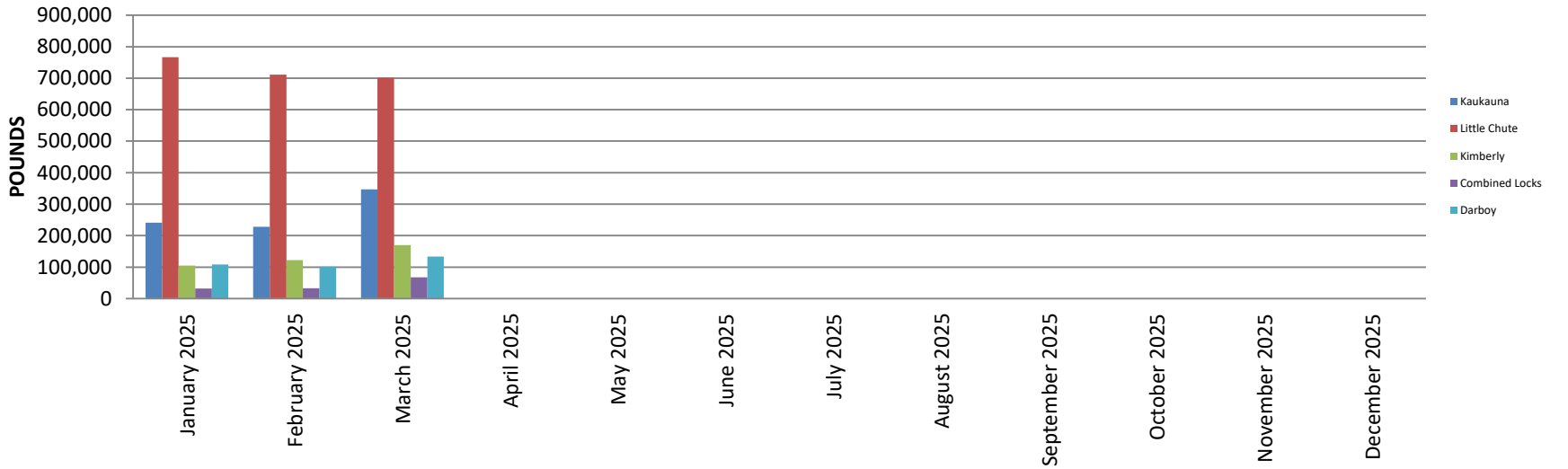
POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2025	241,265	766,664	105,039	31,671	108,645
February 2025	227,963	710,805	122,119	33,189	101,531
March 2025	346,729	701,658	169,682	67,717	133,571
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

% CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

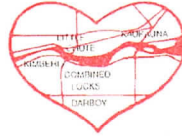


POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS



DISTRICT DIRECTOR:

Brian M. Helminger



COMMISSIONERS:

David J. Casper, President
Bruce M. Siebers, Vice-President
Patrick E. Hennessey, Secretary
Kevin P. Coffey, Commissioner
John W. Sundelius, Commissioner

SERVING:

Combined Locks
Kaukauna
Kimberly
Little Chute
Darboy S.D.

Heart of the Valley

METROPOLITAN SEWERAGE DISTRICT

801 THILMANY ROAD
KAUKAUNA, WISCONSIN 54130
(920) 766-5731 FAX (920) 766-5733
www.hvmsd.org

Facility: Wisconsin Public Service Corporation - Fox Energy Center
P.O. Box 5651
Bismarck, ND 58506

Attn: Account # N2310E

Month: March

Year: 2025

Gallons of Final Effluent Purchased (Billing)

<u>Date</u>	<u>Gallons</u>	<u>Date</u>	<u>Gallons</u>
3/1/2025	2,578,000	3/21/2025	2,328,000
3/2/2025	2,870,000	3/22/2025	185,000
3/3/2025	2,572,000	3/23/2025	0
3/4/2025	2,639,000	3/24/2025	0
3/5/2025	2,157,000	3/25/2025	0
3/6/2025	2,613,000	3/26/2025	0
3/7/2025	2,563,000	3/27/2025	0
3/8/2025	1,630,000	3/28/2025	0
3/9/2025	2,297,000	3/29/2025	0
3/10/2025	2,092,000	3/30/2025	0
3/11/2025	3,026,000	3/31/2025	0
3/12/2025	2,762,000		
3/13/2025	1,870,000		
3/14/2025	1,865,000	Total:	48,102,000
3/15/2025	1,901,000		
3/16/2025	2,269,000		
3/17/2025	2,568,000		
3/18/2025	1,916,000		
3/19/2025	653,000		
3/20/2025	2,748,000		

Facility: Wisconsin Public Service Corporation - Fox Energy Center
P.O. Box 5651
Bismarck, ND 58506

Attn: Account # N2310E

MONTHLY BILLING

Month: March

Year: 2025

GALLONS PURCHASED: 48,102,000

BILLING RATE: \$0.1877387 PER 1000 GALLONS

TOTAL AMOUNT DUE: \$9,030.61

**Heart of the Valley
Metropolitan Sewerage District**

**Fox Energy Revenue
From the Sale of Final Effluent**

2025

Final Effluent Sent to Fox Energy Facility

Gallons: 194,996,000

Charge Per 1000 Gallons: \$0.1877387 Per 1000 Gallons

Sale of Final Effluent (Revenue Collected): \$36,608.30