

**FLOW AND STRENGTH PROJECTIONS**

MONTH: January 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)	172,576,667	179,525,700	6,949,033	\$ 132,021.15	\$ 137,337.16	\$ 5,316.01
B.O.D. (#s)	431,208	402,070	-29,138	\$ 79,342.27	\$ 73,980.88	\$ (5,361.39)
S. SOLIDS (#s)	377,859	431,812	53,953	\$ 85,396.13	\$ 97,589.51	\$ 12,193.38
PHOSPHORUS (#s)	7,488	7,887	399	\$ 47,878.27	\$ 50,429.48	\$ 2,551.21
AMMONIA-N (#s)	45,579	43,399	-2,180	\$ 63,856.18	\$ 60,802.00	\$ (3,054.18)
CHLORIDES (#s)	971,147	1,250,285	279,138	\$ 1,942.29	\$ 2,500.57	\$ 558.28
			<b>TOTAL:</b>	\$ 410,436.30	\$ 422,639.60	\$ 12,203.30

**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	6,949,033	\$ 5,316.01
B.O.D. (#s)	5,484,285	-29,138	\$ (5,361.39)
S. SOLIDS (#s)	4,877,973	53,953	\$ 12,193.38
PHOSPHORUS (#s)	94,940	399	\$ 2,551.21
AMMONIA-N (#s)	666,440	-2,180	\$ (3,054.18)
CHLORIDES (#s)	11,252,829	279,138	\$ 558.28
		<b>TOTAL:</b>	\$ 12,203.30

## FLOW AND STRENGTH PROJECTIONS

MONTH: January 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)	201,125,000	179,525,700	-21,599,300	\$ 153,860.63	\$ 137,337.16	\$ (16,523.46)
B.O.D. (#s)	487,656	402,070	-85,586	\$ 89,728.70	\$ 73,980.88	\$ (15,747.82)
S. SOLIDS (#s)	478,154	431,812	-46,342	\$ 108,062.80	\$ 97,589.51	\$ (10,473.29)
PHOSPHORUS (#s)	8,111	7,887	-224	\$ 51,861.73	\$ 50,429.48	\$ (1,432.26)
AMMONIA-N (#s)	45,579	43,399	-2,180	\$ 63,856.18	\$ 60,802.00	\$ (3,054.18)
CHLORIDES (#s)	1,204,504	1,250,285	45,781	\$ 2,409.01	\$ 2,500.57	\$ 91.56
	2024 Actual Data		<b>TOTAL:</b>	\$ 469,779.05	\$ 422,639.60	\$ (47,139.45)

### 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	-21,599,300	\$ (16,523.46)
B.O.D. (#s)	5,484,285	-85,586	\$ (15,747.82)
S. SOLIDS (#s)	4,877,973	-46,342	\$ (10,473.29)
PHOSPHORUS (#s)	94,940	-224	\$ (1,432.26)
AMMONIA-N (#s)	666,440	-2,180	\$ (3,054.18)
CHLORIDES (#s)	11,252,829	45,781	\$ 91.56
		<b>TOTAL:</b>	\$ (47,139.45)

**FLOW AND STRENGTH PROJECTIONS**

MONTH: January 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)	172,576,667	179,525,700	6,949,033	\$ 132,021.15	\$ 137,337.16	\$ 5,316.01
B.O.D. (#s)	487,656	402,070	-85,586	\$ 89,728.70	\$ 73,980.88	\$ (15,747.82)
S. SOLIDS (#s)	478,154	431,812	-46,342	\$ 108,062.80	\$ 97,589.51	\$ (10,473.29)
PHOSPHORUS (#s)	8,111	7,887	-224	\$ 51,861.73	\$ 50,429.48	\$ (1,432.26)
AMMONIA-N (#s)	45,579	43,399	-2,180	\$ 63,856.18	\$ 60,802.00	\$ (3,054.18)
CHLORIDES (#s)	1,204,504	1,250,285	45,781	\$ 2,409.01	\$ 2,500.57	\$ 91.56
			<b>TOTAL:</b>	\$ 447,939.58	\$ 422,639.60	\$ (25,299.98)
	3 yr avg flow 2024 Actual pounds					

**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	6,949,033	\$ 5,316.01
B.O.D. (#s)	5,484,285	-85,586	\$ (15,747.82)
S. SOLIDS (#s)	4,877,973	-46,342	\$ (10,473.29)
PHOSPHORUS (#s)	94,940	-224	\$ (1,432.26)
AMMONIA-N (#s)	666,440	-2,180	\$ (3,054.18)
CHLORIDES (#s)	11,252,829	45,781	\$ 91.56
		<b>TOTAL:</b>	\$ (25,299.98)

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

**January 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	1,440	44,474	843	39,624	1,212,802
Feb																	
Mar																	
Apr																	
May																	
Jun																	
Jul																	
Aug																	
Sep																	
Oct																	
Nov																	
Dec																	
<b>Average</b>	174.7	5.6	222	10,455	322,127	248	11,674	360,678	5.29	249	7,553	30.6	1,440	44,474	843	39,624	1,212,802
<b>Yearly Total</b>	174.7				322,127			360,678			7,553			44,474			1,212,802
*Includes Hauled Waste																	
[Plant Design Capacity] =		8.5		13,565			12,209			339			1,600				
(Hauled Waste Gallons) 170,860																	
[Max Design Capacity] =		11.9		16,278			14,651			407			1,920				
January % of Capacity =		47%		64%			80%			61%			75%				

January Max Daily Flow = 6.74

**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															
Mar															
Apr															
May															
Jun															
Jul															
Aug															
Sep															
Oct															
Nov															
Dec															
<b>Average</b>	97.5	3.1	5.3	140	4,282	7.8	204.9	6,203	0.31	8.3	251.5	0.35	9.3	340.3	862
<b>Yearly Total</b>	97.5				4,282			6,203			252			340.3	

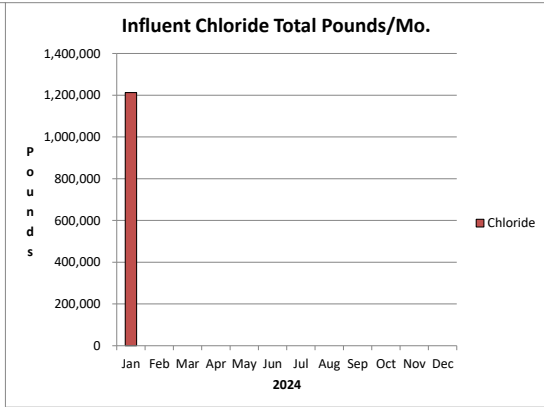
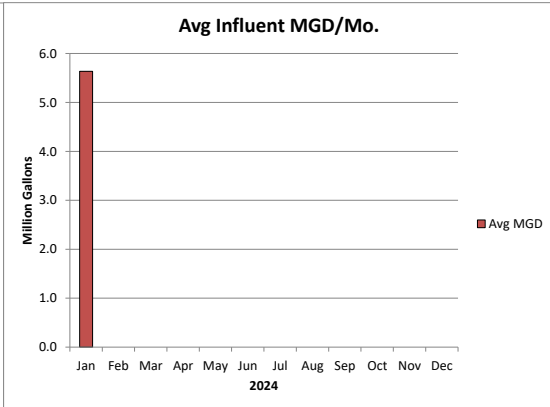
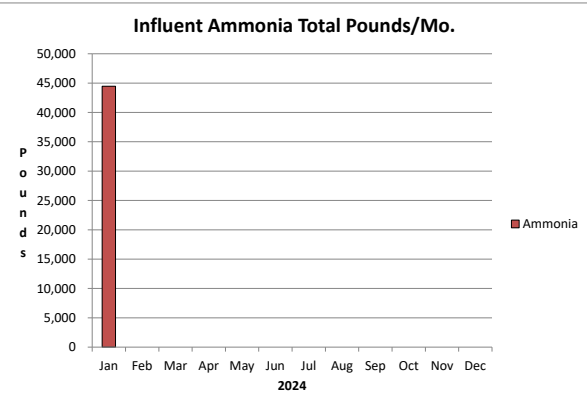
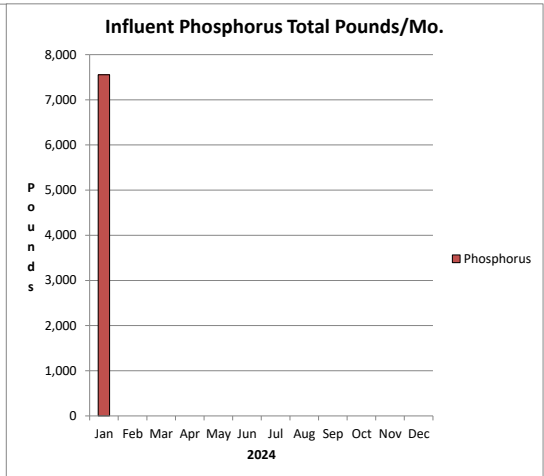
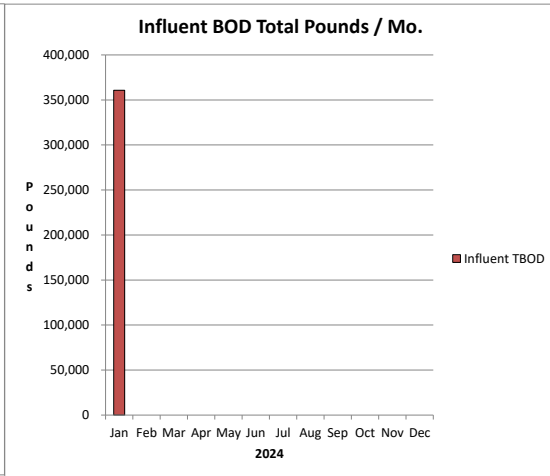
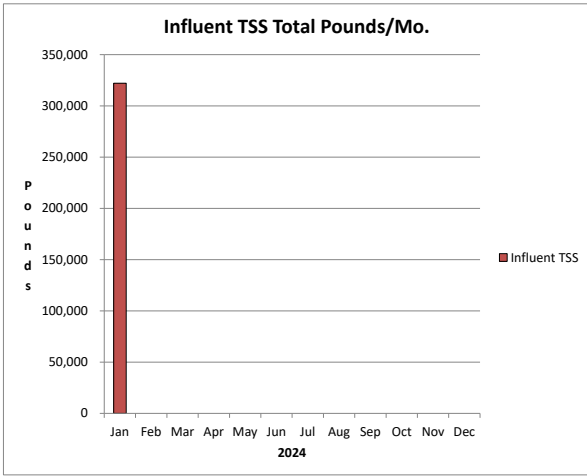
{PERMIT LIMITS (WDNR) →	Monthly (Avg)	801#	Monthly Avg	30 mg/L	Monthly Avg	31.5#	Jan- March	Monthly Avg Limit	10 mg/L
	Weekly (Avg)	1345#	Weekly Avg	45 mg/L	6 mo Avg	10.5#	April-May	11 mg/L	
	Daily Max (mg/L)	30	WLA May-Oct		Daily Max mg/L	1.0	June-Sept	4.4 mg/L	
							Oct- Dec	18 mg/L	

Effluent Gallons to Fox Energy (January)	77.23	44%
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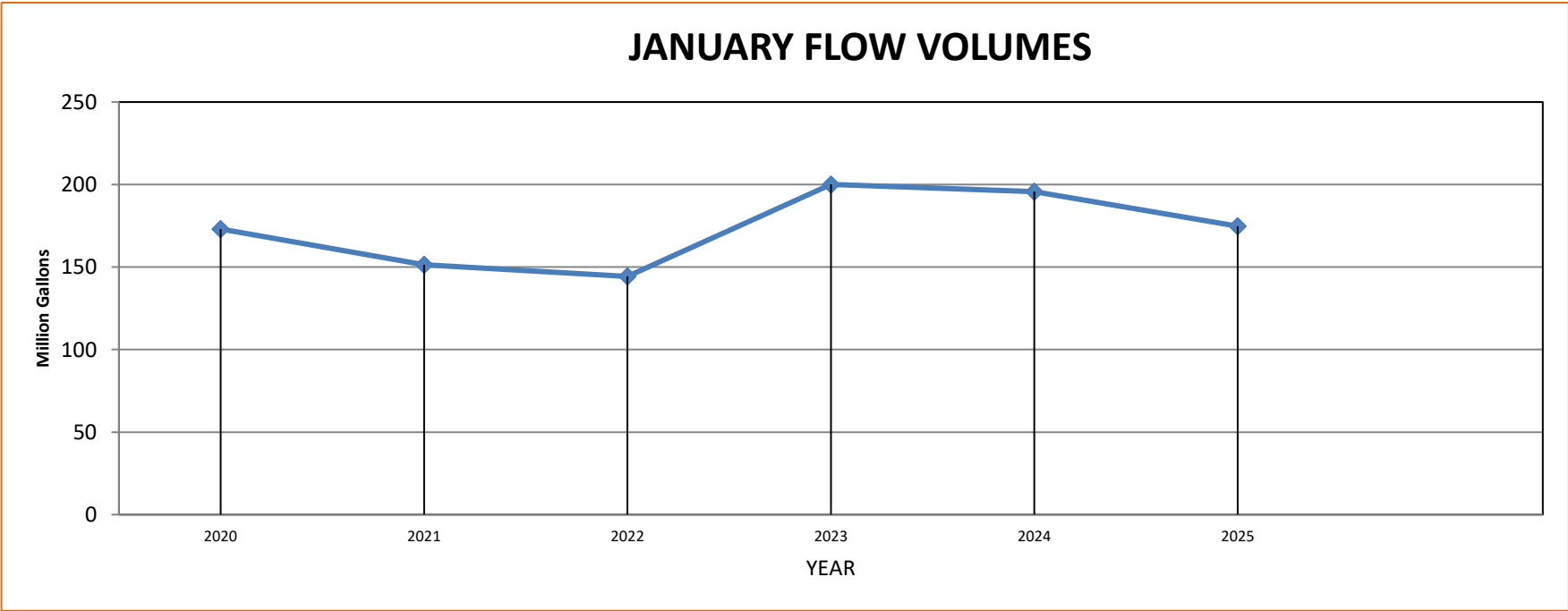
  

January	Avg #'s	6 mo. Avg #'s
WEEK 1	160	6.22
WEEK 2	98	Nov-April
WEEK 3	127	
WEEK 4	167	



# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

<u>Year</u>	<u>January Flow Million Gallons</u>
2020	172.999
2021	151.398
2022	144.333
2023	200.088
2024	195.683
2025	174.698



# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

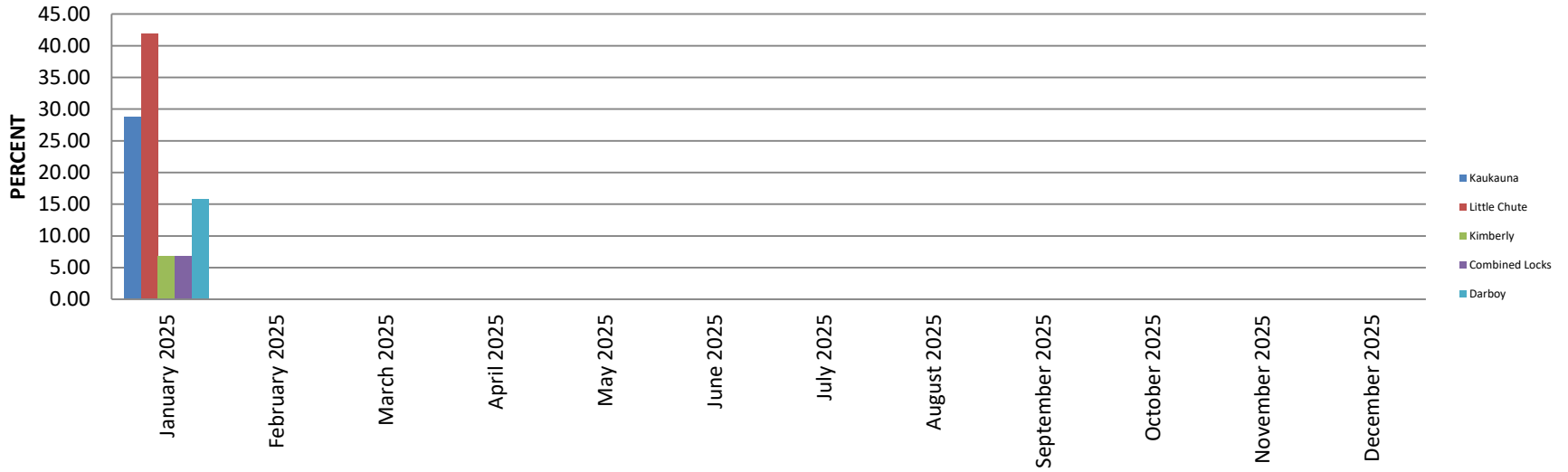
## % CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<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						
March 2025						
April 2025						
May 2025						
June 2025						
July 2025						
August 2025						
September 2025						
October 2025						
November 2025						
December 2025						

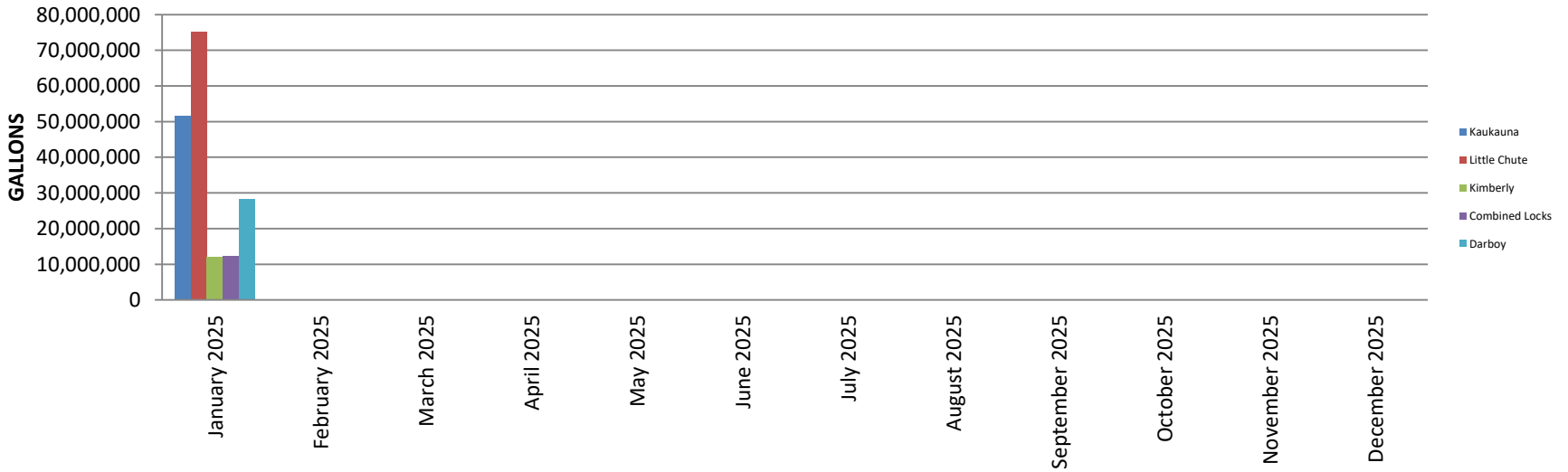
## GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<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					
March 2025					
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

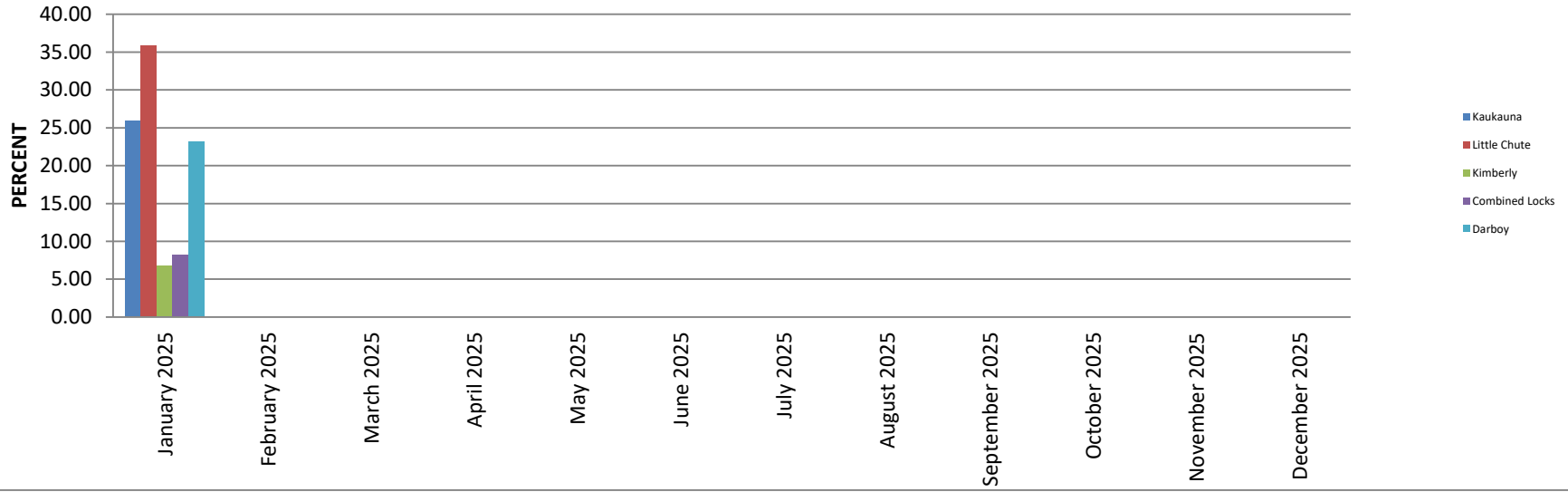
## % CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<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					
March 2025					
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

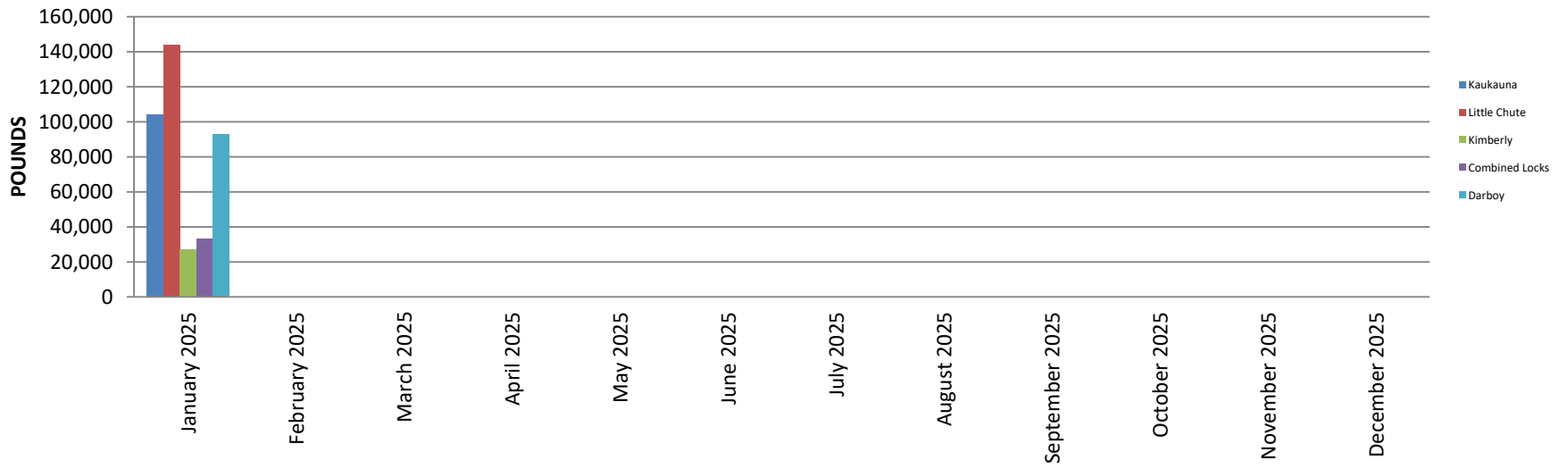
## POUNDS CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<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					
March 2025					
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

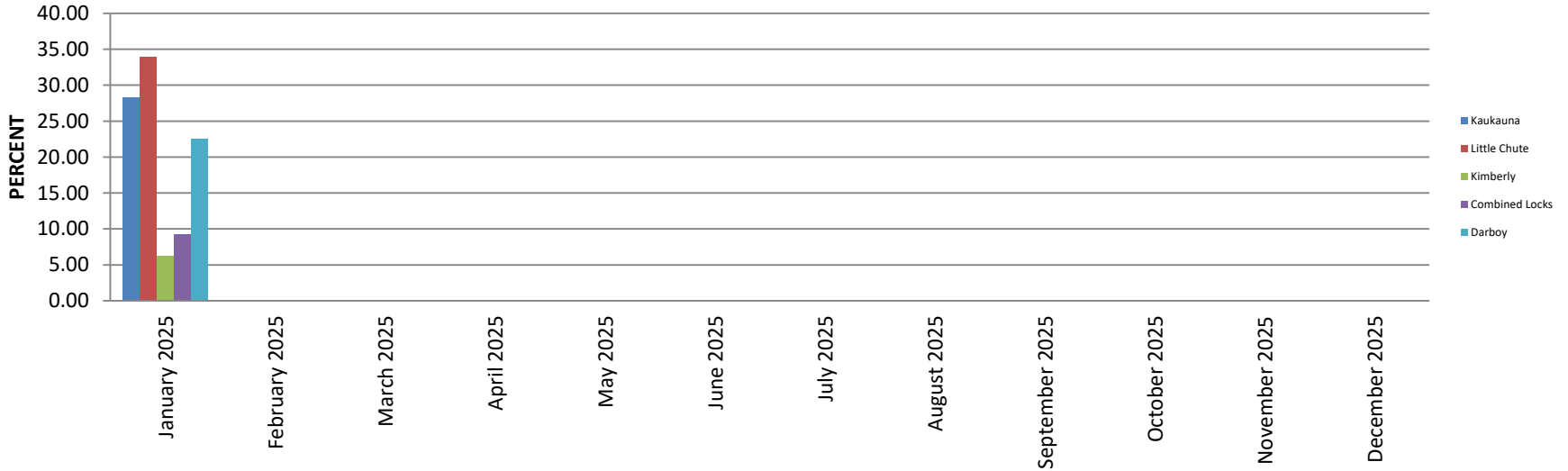
## % CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS

	<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					
March 2025					
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

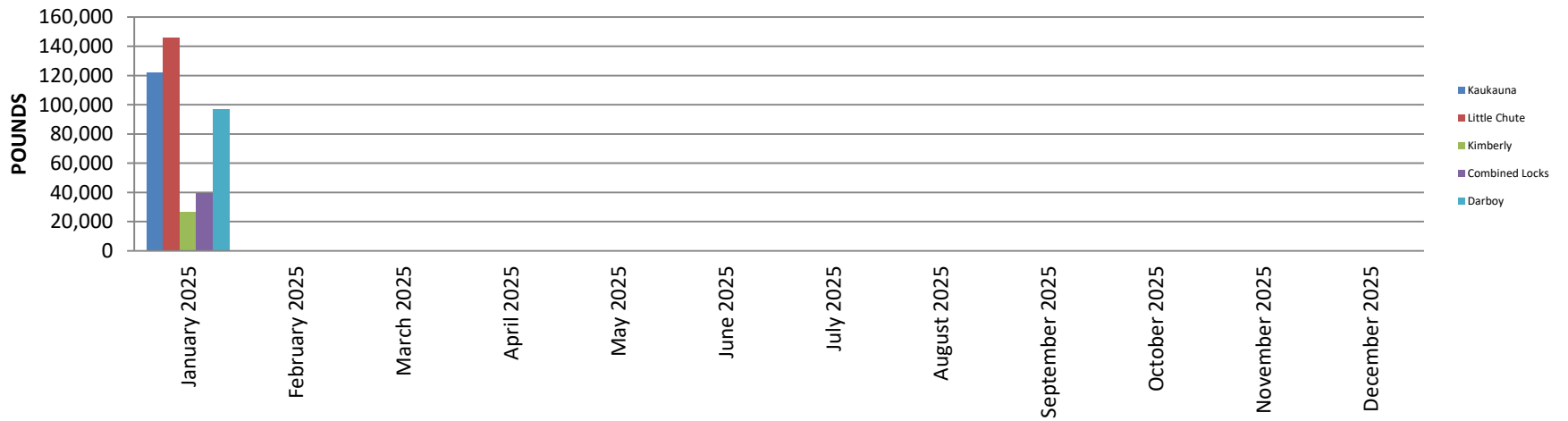
## POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS

	<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					
March 2025					
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

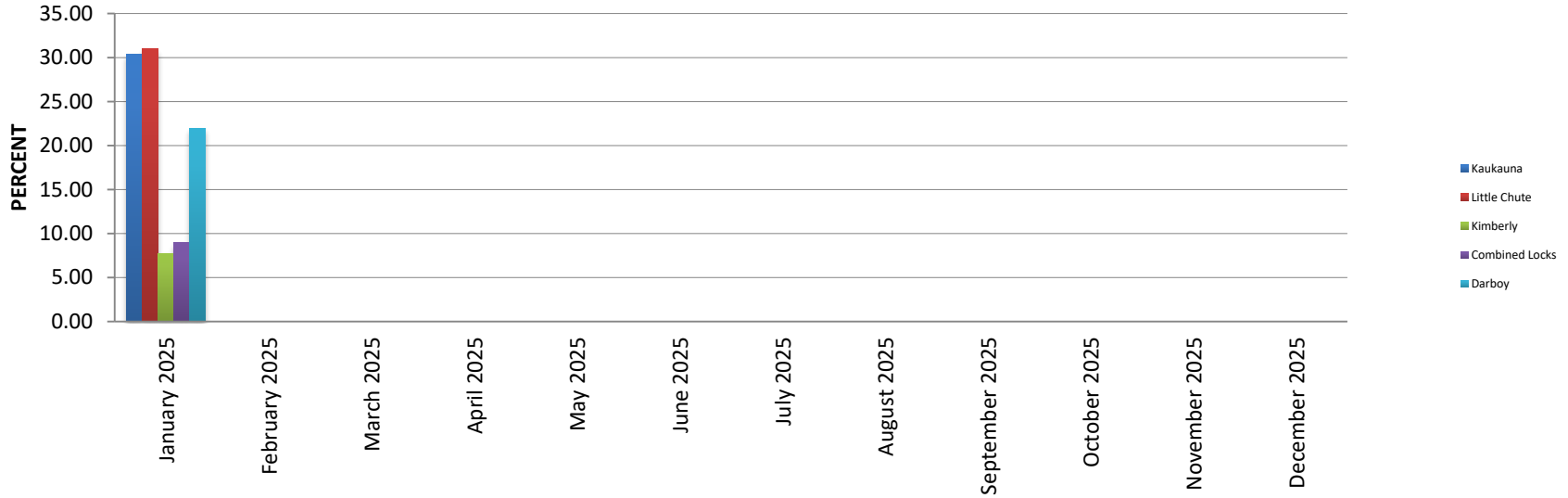
## % CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<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					
March 2025					
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

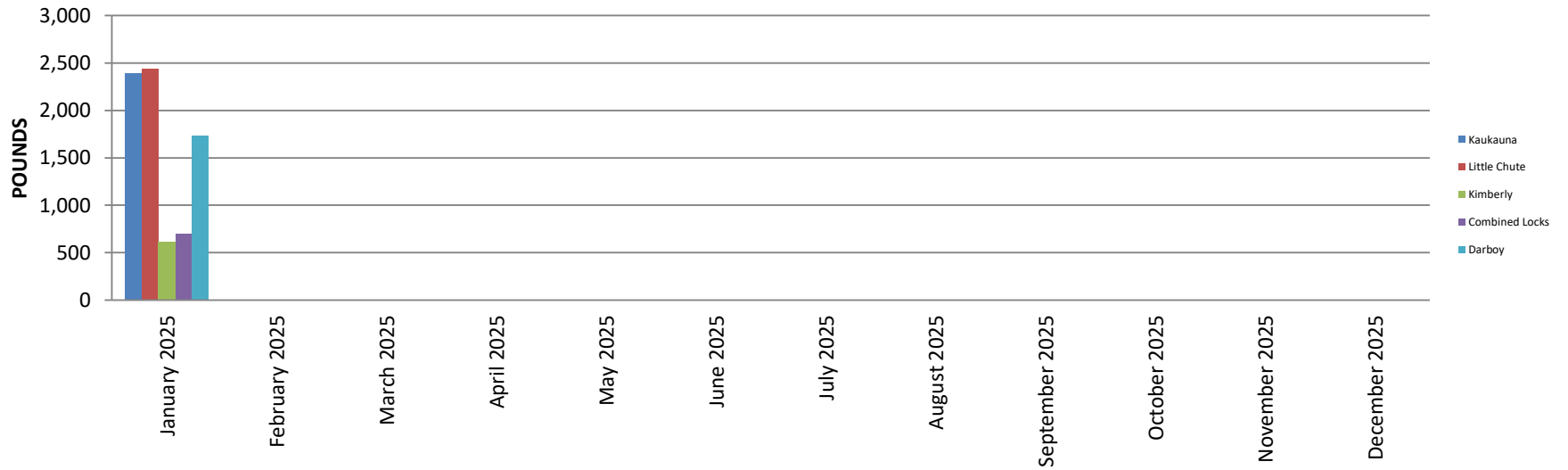
## POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<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					
March 2025					
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

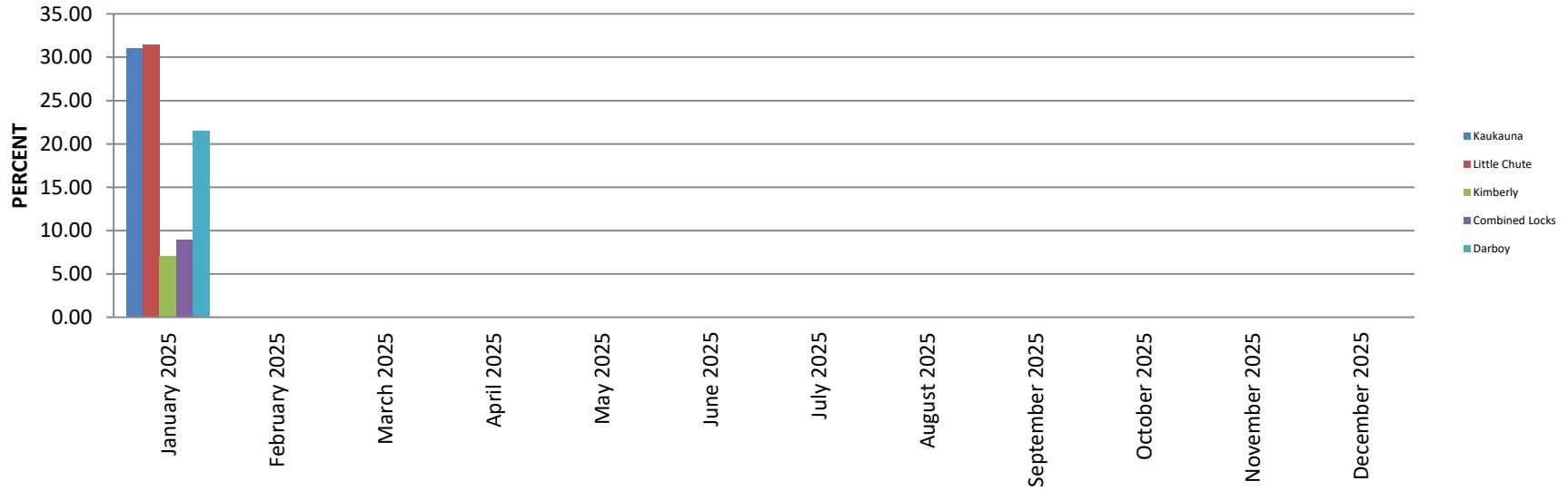
## % CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<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					
March 2025					
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

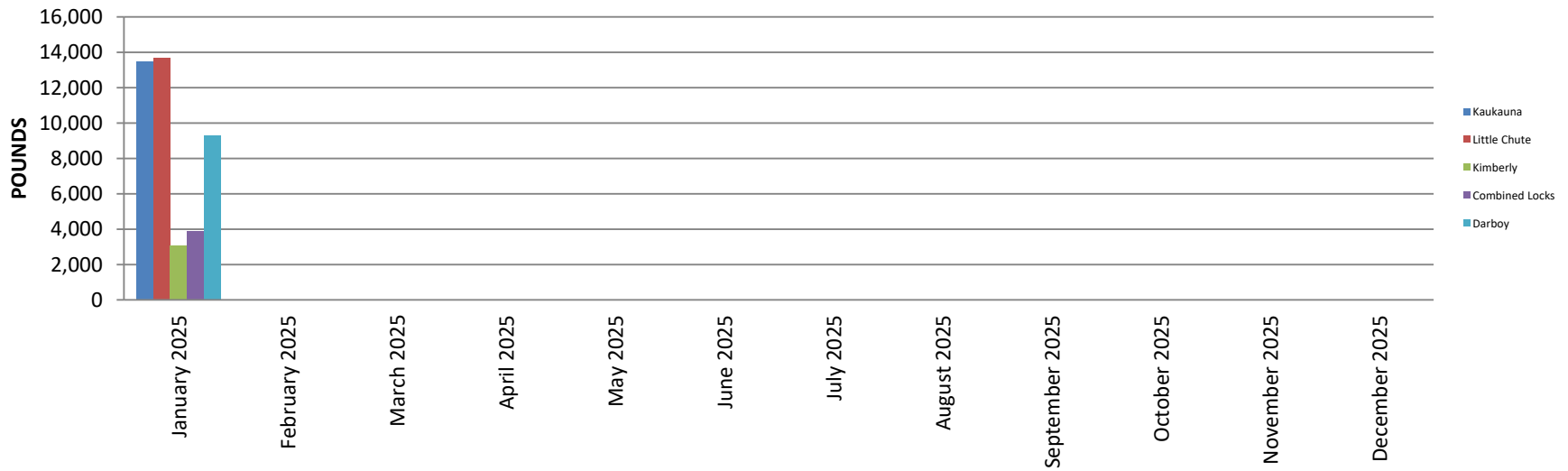
## POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<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					
March 2025					
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

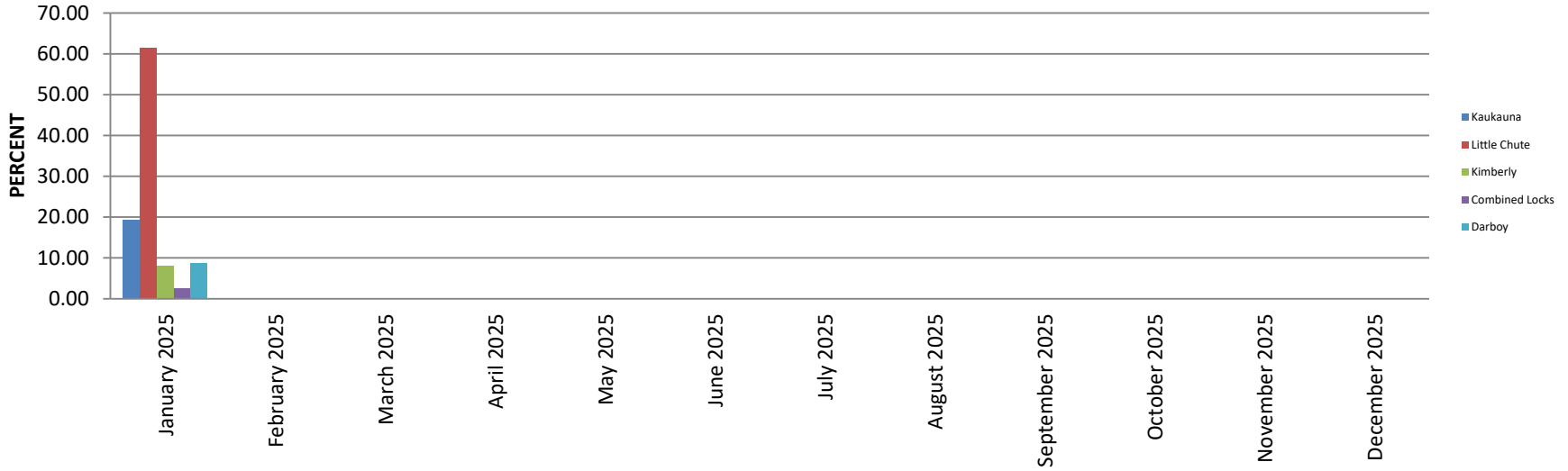
## % CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<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					
March 2025					
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

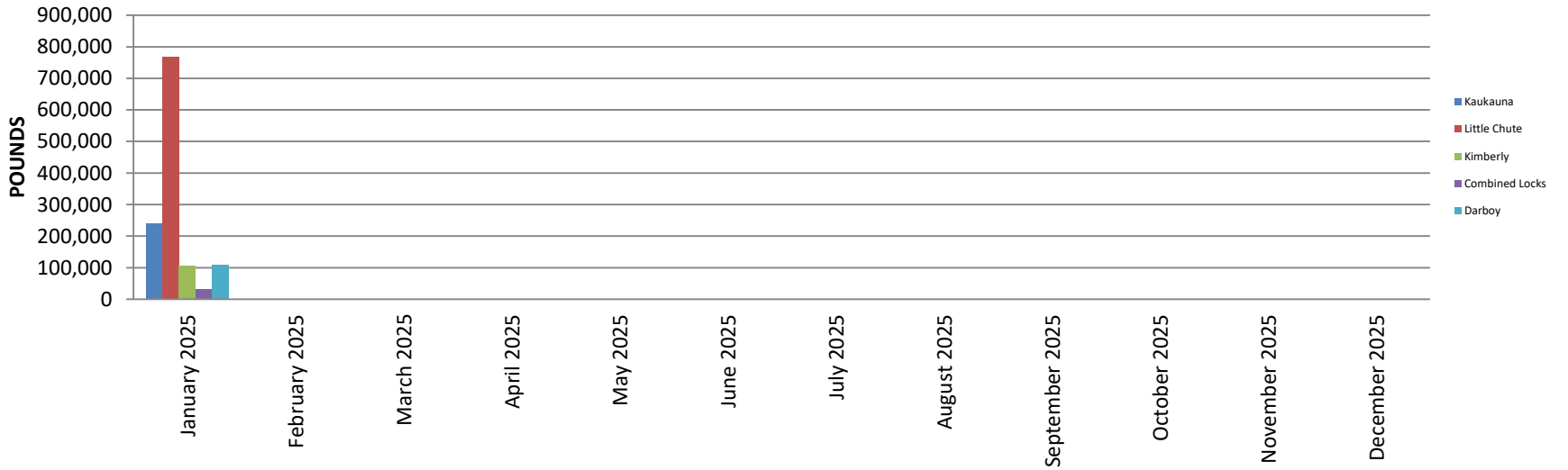
## POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<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					
March 2025					
April 2025					
May 2025					
June 2025					
July 2025					
August 2025					
September 2025					
October 2025					
November 2025					
December 2025					

### % CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

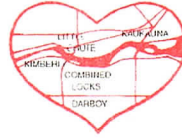


### POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS



**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:** January**Year:** 2025**Gallons of Final Effluent Purchased (Billing)**

<u>Date</u>	<u>Gallons</u>	<u>Date</u>	<u>Gallons</u>
1/1/2025	2,304,000	1/21/2025	2,372,000
1/2/2025	2,766,000	1/22/2025	2,241,000
1/3/2025	2,576,000	1/23/2025	2,332,000
1/4/2025	2,350,000	1/24/2025	3,075,000
1/5/2025	2,620,000	1/25/2025	1,828,000
1/6/2025	2,605,000	1/26/2025	2,061,000
1/7/2025	2,414,000	1/27/2025	2,053,000
1/8/2025	2,629,000	1/28/2025	2,134,000
1/9/2025	2,592,000	1/29/2025	2,889,000
1/10/2025	2,747,000	1/30/2025	2,968,000
1/11/2025	2,803,000	1/31/2025	2,987,000
1/12/2025	2,721,000		
1/13/2025	2,603,000		
1/14/2025	2,624,000	<b>Total:</b>	<b>77,227,000</b>
1/15/2025	2,622,000		
1/16/2025	2,261,000		
1/17/2025	2,360,000		
1/18/2025	2,027,000		
1/19/2025	2,433,000		
1/20/2025	2,230,000		

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

**Attn:** Account # N2310E

## **MONTHLY BILLING**

**Month:** January

**Year:** 2025

**GALLONS PURCHASED:** 77,227,000

**BILLING RATE:** \$0.1877387 PER 1000 GALLONS

**TOTAL AMOUNT DUE: \$14,498.50**