1.Flow and Strength Projections

Notables:

FLOW: 43,619,160 gal. higher than projected

BOD: N/A

S.SOLIDS: N/A

PHOSPHORUS: N/A

AMMONIA: N/A

CHLORIDES: 269,855 #'s over projection

Surplus or Deficit

\$37,389.67 Surplus for January 2017

YTD Total= Surplus of \$37,389.67

2. Hydraulic and Organic Loadings Data

All Permit Values were met for January.

Total Plant Flow: 183,493,000 for January

Notables:

The Influent Ammonia Loadings reached 81.1% of Plant Design.

Final Effluent Suspended Solids Monthly Avg Dropped from 21.35ppm in December to 10.45ppm in January.

3. Fox Energy Center

Fox Energy Pumped 66,723,000 gallons in January

- -netting a monthly dollar amount of \$11,329.47
- -As of January total revenue collected was \$11,329.47

FLOW AND STRENGTH PROJECTIONS

MONTH: January 2017

FI 014/(04)	PROJECTED	ACTUAL	DIFFERENCE	PROJECTED INCOME FOR MONTH	ACTUAL INCOME FOR MONTH	SURPLUS OR DEFICIT
FLOW (GALLONS) B.O.D. (#s) S. SOLIDS (#s) PHOSPHORUS (#s) AMMONIA-N (#s) CHLORIDES (#s)	137,620,240 273,423 367,392 7,539 37,911 582,596	181,239,400 326,933 310,324 6,596 41,623 852,451	43,619,160 53,510 -57,068 -943 3,712 269,855	\$ 115,188.14 \$ 72,457.10 \$ 95,889.31 \$ 46,259.30 \$ 61,605.38 \$ 2,912.98 \$ 394,312.21	\$ 151,697.38 \$ 86,637.25 \$ 80,994.56 \$ 40,473.06 \$ 67,637.38 \$ 4,262.26 \$ 431,701.87	\$ 36,509.24 \$ 14,180.15 \$ (14,894.75) \$ (5,786.25) \$ 6,032.00 \$ 1,349.28 \$ 37,389.67

PROJECTED FOR 2017

	END OF YEAR PROJECTED	YEAR TO DATE SURPLUS/ <u>DEFICIT</u>		EAR TO DATE SURPLUS/ DEFICIT \$\$
FLOW (GALLONS) B.O.D. (#s) S. SOLIDS (#s) PHOSPHORUS (#s) AMMONIA-N (#s) CHLORIDES (#s)	1,933,366,797 3,232,707 4,183,878 84,963 423,820 7,342,132	43,619,160 53,510 -57,068 -943 3,712 269,855	\$ \$ \$ \$ \$ \$	36,509.24 14,180.15 (14,894.75) (5,786.25) 6,032.00 1,349.28
		TOTAL:	\$	37,389.67

MONTH: JANUARY 2017

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT

TOTAL FLOW TO PLANT: 183,493,000 GALLONS

AVERAGE B.O.D.:

200 mg/L

AVERAGE SUSPENDED SOLIDS:

163 mg/L

AVERAGE PHOSPHORUS: AVERAGE AMMONIA-N:

4.53 mg/L

31.55 mg/L

AVERAGE CHLORIDES:

574.00 mg/L

PERCENT (%) BY COMMUNITY OF TOTAL MONTHLY VOLUME TREATED AT WWTP

<u>COMMUNITY</u>	<u>FLOW</u>	BOD	<u>TSS</u>	PHOSPHORUS	AMMONIA	CHLORIDES
KAUKAUNA	38.67	28.37	29.08	30.98	31.39	34.08
LITTLE CHUTE	25.42	28.24	26.35	24.92	32.86	30.92
KIMBERLY	13.20	11.98	11.30	11.11	8.72	16.58
COMBINED LOCKS	5.98	7.28	5.83	6.44	5.87	2.46
DARBOY	16.73	24.13	27.43	26.55	21.15	15.96

%

49.7

67.4

49.5

54.9

81.1

AVERAGE DAILY

INFLUENT LOADINGS

FLOW: 5,919,129 GALLONS

B.O.D.:

9,870 POUNDS

SUSPENDED SOLIDS:

8,051 POUNDS

PHOSPHORUS:

223 POUNDS

AMMONIA-N:

CHLORIDES:

1,558 POUNDS

CHLORIDES: 28,336 POUNDS PLANT DESIGN

MAXIMUM DAILY FLOW TO PLANT:

8.866,000

CRITERIA

11,900,000 GALLONS/DAY

14,651 POUNDS/DAY

16,278 POUNDS/DAY

407 POUNDS/DAY

1,920 POUNDS/DAY

PERMIT

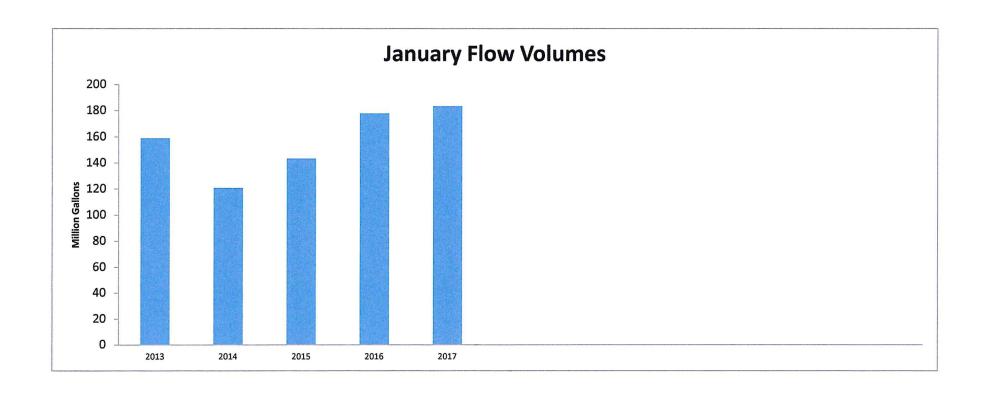
FINAL EFFLUENT

	AVERAGE		LIMIT
		<u>%</u>	
cB.O.D. :	4.88 mg/L	19.5	25 mg/L
SUSPENDED SOLIDS:	10.45 mg/L	34.8	30 mg/L
PHOSPHORUS:	0.28 mg/L	27.7	1 mg/L
AMMONIA-N:	0.27 mg/L		Č

MONTHLY

580.67 mg/L

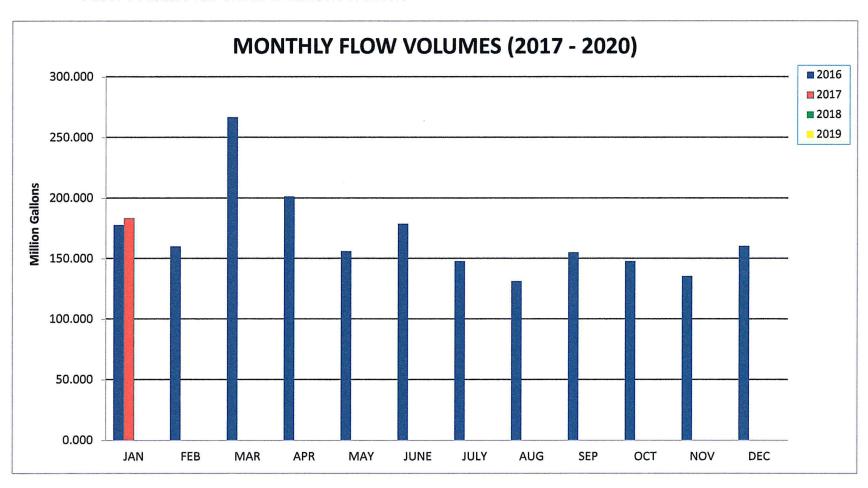
	January Flow	Precipitation
<u>Year</u>	Million Gallons	<u>Inches</u>
2013	159.014	1.79
2014	120.943	1.65
2015	143.460	0.56
2016	177.906	1.53
2017	183.493	0.00



JUNE JULY <u>AUG</u> <u>OCT</u> **NOV DEC** <u>JAN</u> <u>FEB</u> MAR <u>APR</u> MAY <u>SEP</u> 201.541 178.887 147.968 131.529 155.337 177.906 160.230 266.917 156,148 148.008 135.607 160.593 2016 2017 183.493 2018

*** FLOW VOLUMES REPORTED IN MILLION GALLONS ***

2019

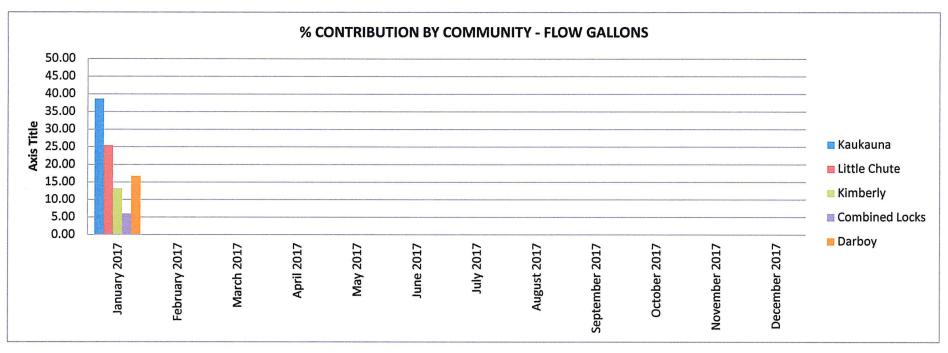


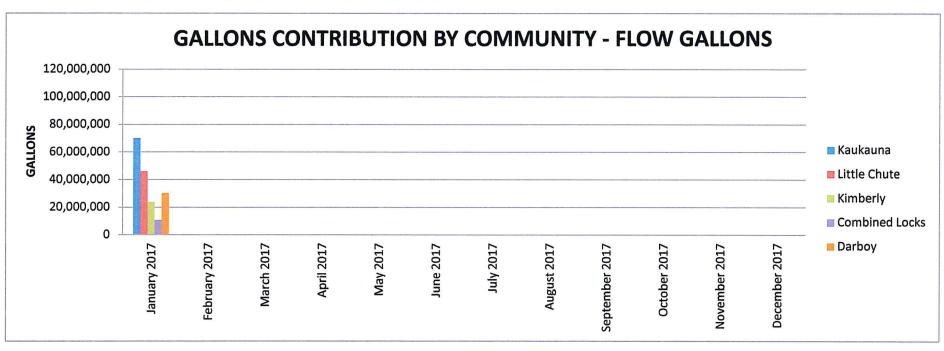
% CONTRIBUTION BY COMMUNITY - FLOW GALLONS

January 2017	<u>Kaukauna</u> 38.67	<u>Little Chute</u> 25.42	Kimberly 13.20	Combined Locks 5.98	<u>Darboy</u> 16.73	Rainfall - Inches
February 2017	00.07	20.42	10.20	0.30	10.73	
March 2017						
April 2017						
May 2017						
June 2017						
July 2017						
August 2017						
September 2017						
October 2017						
November 2017						
December 2017						

GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	Darboy
January 2017	70,086,400	46,073,000	23,922,000	10,834,000	30,324,000
February 2017					
March 2017			•		
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



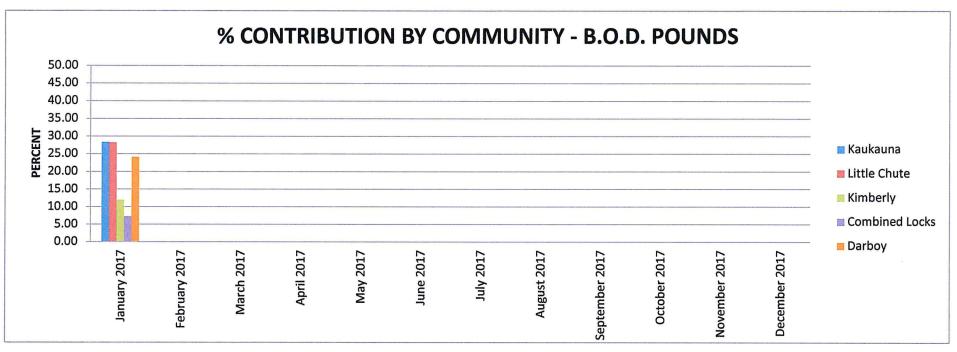


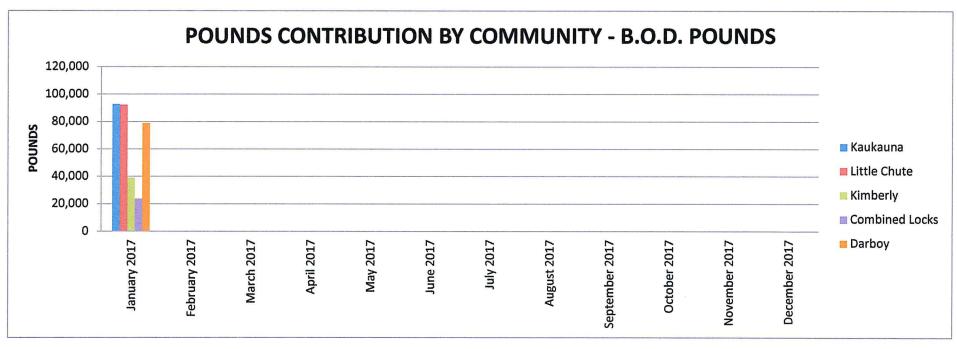
% CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	Darboy
January 2017	28.37	28.24	11.98	7.28	24.13
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

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

lanuary 2017	<u>Kaukauna</u> 92,752	Little Chute 92,337	Kimberly 39,172	Combined Locks	<u>Darboy</u>
January 2017	92,732	92,337	39,172	23,785	78,888
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



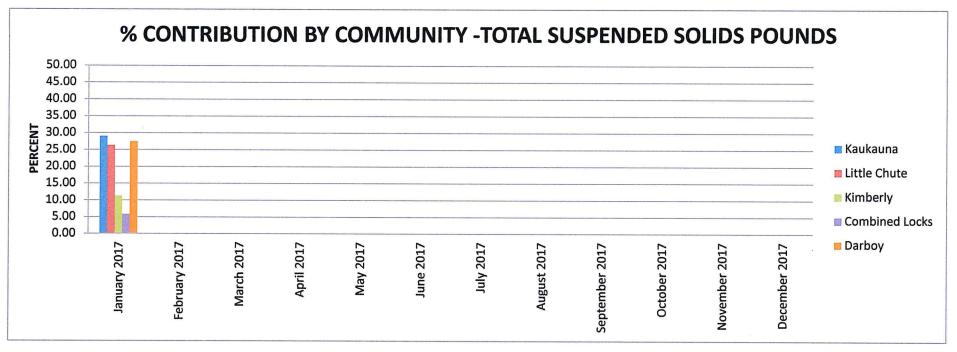


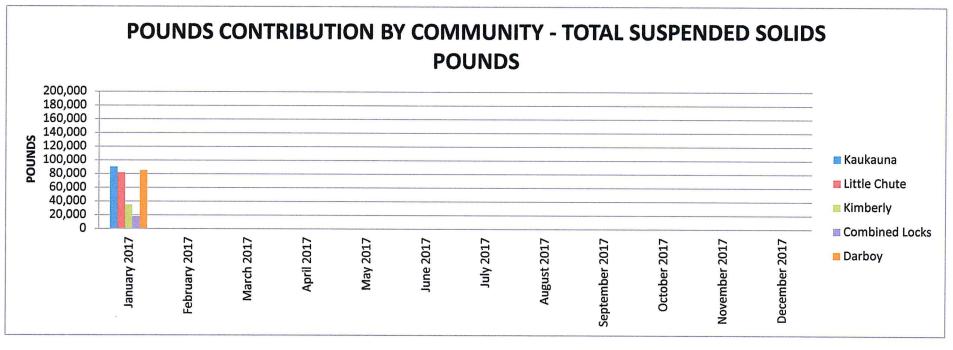
% CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	Darboy
January 2017	29.08	26.35	11.30	5.83	27.43
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	Darboy
January 2017	90,234	81,769	35,081	18,106	85,135
February 2017				·	ŕ
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



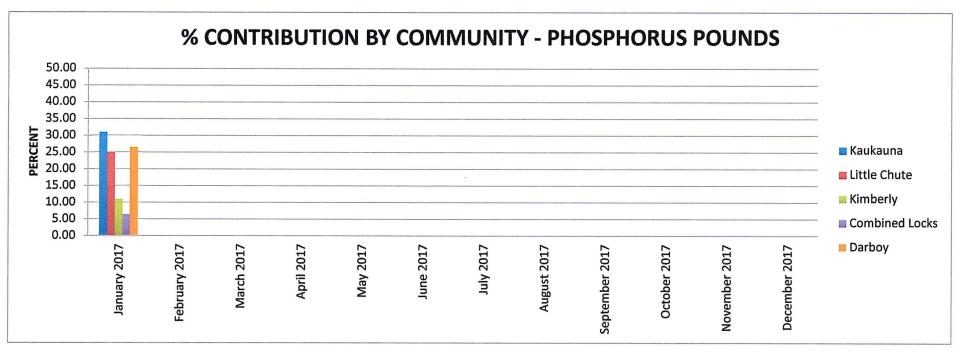


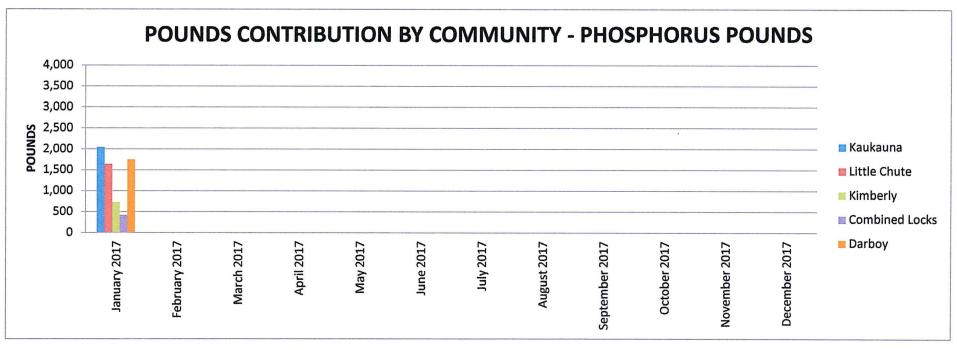
% CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	Little Chute	Kimberly	Combined Locks	<u>Darboy</u>
January 2017	30.98	24.92	11.11	6.44	26.55
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	2,044	1,643	733	425	1,751
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



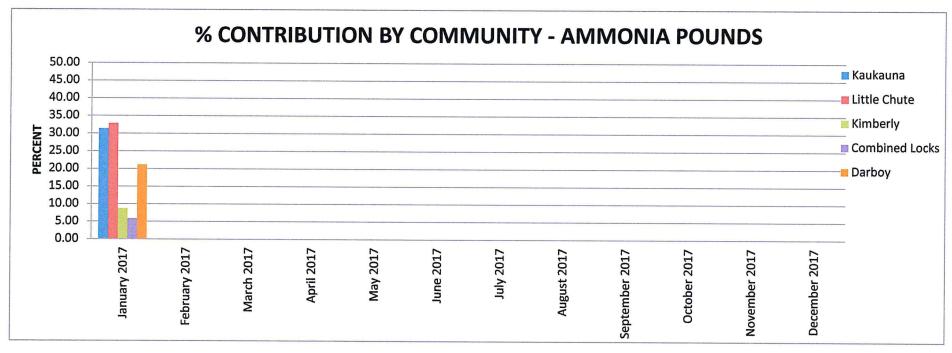


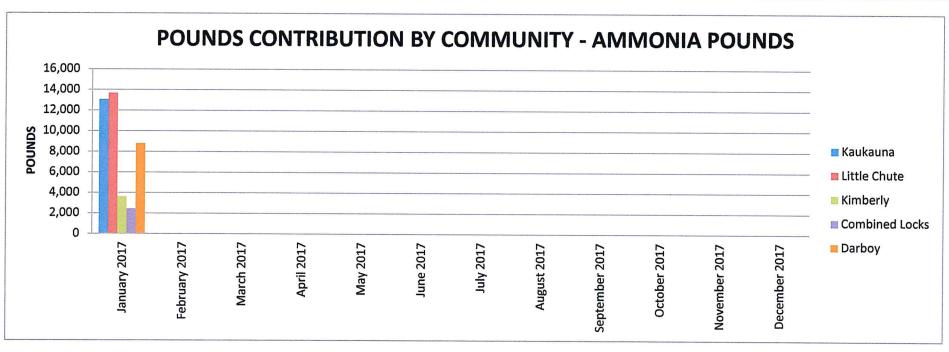
% CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	31.39	32.86	8.72	5.87	21.15
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	Kaukauna	Little Chute	Kimberly	Combined Locks	<u>Darboy</u>
January 2017	13,065	13,677	3,631	2,445	8,804
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



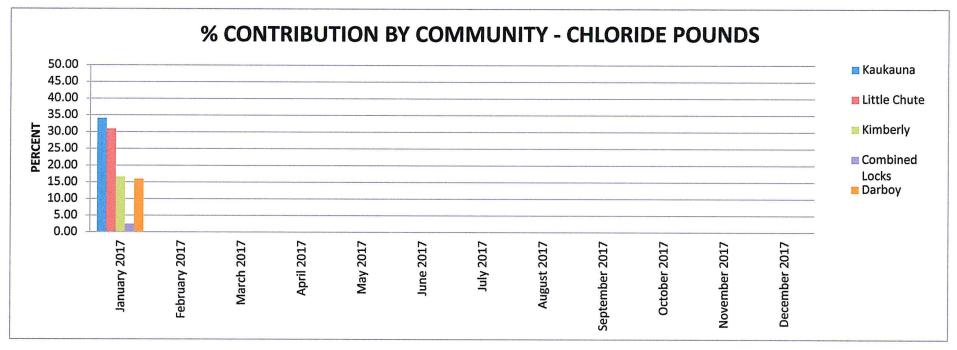


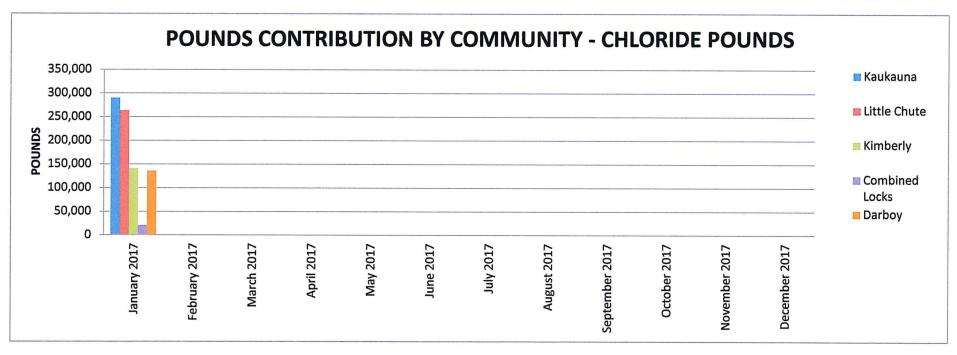
% CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	34.08	30.92	16.58	2.46	15.96
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	Little Chute	Kimberly	Combined Locks	Darboy
January 2017	290,487	263,589	141,331	20,961	136,083
February 2017					
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					





DISTRICT DIRECTOR:

Brian M. Helminger

SERVING:

Combined Locks Kaukauna Kimberly Little Chute Darboy S.D.



COMMISSIONERS:

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

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 19800

Green Bay, WI 54307-9004

Attn: Account # N2310E

Month: January Year: 2017

Gallons of Final Effluent Purchased (Billing)

<u>Date</u>	<u>Gallons</u>	<u>Date</u>	Gallons
1/1/2017	0	1/21/2017	2,750,000
1/2/2017	0	1/22/2017	2,213,000
1/3/2017	2,029,000	1/23/2017	2,420,000
1/4/2017	2,271,000	1/24/2017	2,446,000
1/5/2017	2,271,000	1/25/2017	2,447,000
1/6/2017	2,427,000	1/26/2017	2,446,000
1/7/2017	2,502,000	1/27/2017	2,446,000
, 1/8/2017	2,574,000	1/28/2017	2,081,000
1/9/2017	2,329,000	1/29/2017	161,000
1/10/2017	2,352,000	1/30/2017	2,462,000
1/11/2017	2,415,000	1/31/2017	2,526,000
1/12/2017	2,154,000		,,
1/13/2017	2,122,000	•	÷ .
1/14/2017	2,395,000	Total:	66,723,000
1/15/2017	2,424,000		, ,
1/16/2017	2,259,000	•	
1/17/2017	2,274,000		
1/18/2017	2,289,000		
1/19/2017	2,487,000		
1/20/2017	2,751,000		
V			



Facility: Wisconsin Public Service Corporation - Fox Energy Center

P.O. Box 19800

Green Bay, WI 54307-9004

Attn: Account # N2310E

MONTHLY BILLING

Month: January Year: 2017

GALLONS PURCHASED: 66,723,000

BILLING RATE: \$0.1533035 PER 1000 GALLONS

TOTAL AMOUNT DUE: \$10,228.87

Heart of the Valley Metropolitan Sewerage District

Fox Energy Revenue From the Sale of Final Effluent

2017

Final Effluent Sent to Fox Energy Facility

Gallons: 66,723,000

Charge Per 1000 Gallons: \$0.1533035 Per 1000 Gallons

Sale of Final Effluent (Revenue Collected): \$10,228.87