

HEADWORKS INFLUENT METERS

(LASER)

(ULTRASONIC)

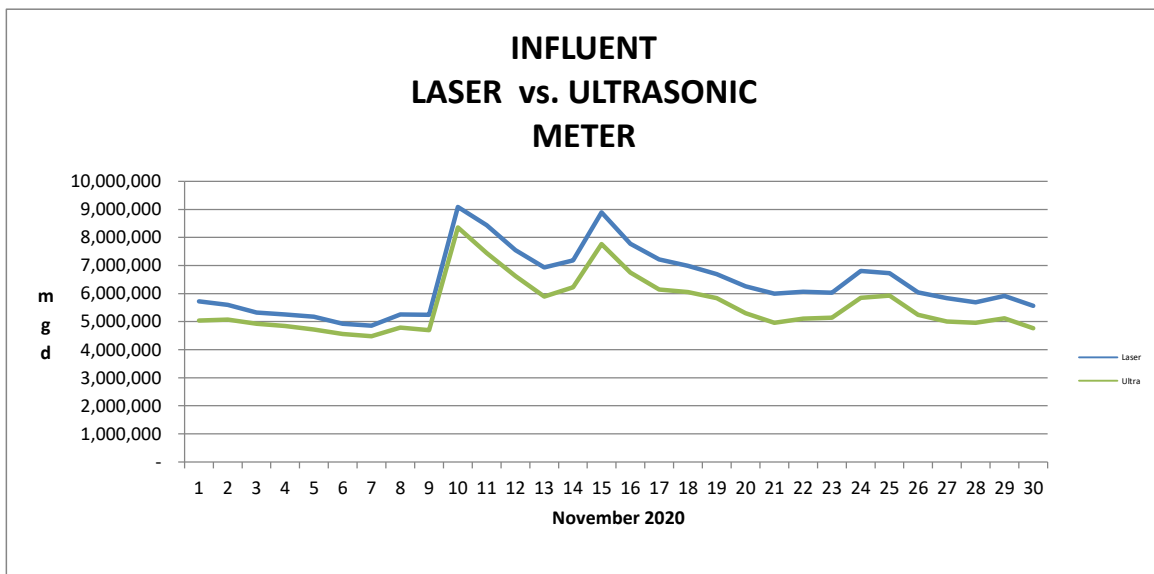
MONTH: November

DATE		FLOW GALLONS		FLOW GALLONS	% DIFF
1		5,727,000		5,044,000	11.93
2		5,594,000		5,070,000	9.37
3		5,324,000		4,921,000	7.57
4		5,250,000		4,847,000	7.68
5		5,178,000		4,722,000	8.81
6		4,930,000		4,555,000	7.61
7		4,860,000		4,475,000	7.92
8		5,254,000		4,793,000	8.77
9		5,241,000		4,696,000	10.40
10		9,088,000		8,353,000	8.09
11		8,437,000		7,446,000	11.75
12		7,544,000		6,619,000	12.26
13		6,937,000		5,889,000	15.11
14		7,181,000		6,222,000	13.35
15		8,895,000		7,766,000	12.69
16		7,770,000		6,746,000	13.18
17		7,219,000		6,146,000	14.86
18		6,989,000		6,051,000	13.42
19		6,694,000		5,834,000	12.85
20		6,255,000		5,298,000	15.30
21		5,994,000		4,956,000	17.32
22		6,066,000		5,103,000	15.88
23		6,026,000		5,137,000	14.75
24		6,803,000		5,851,000	13.99
25		6,731,000		5,925,000	11.97
26		6,041,000		5,244,000	13.19
27		5,833,000		5,007,000	14.16
28		5,687,000		4,959,000	12.80
29		5,921,000		5,114,000	13.63
30		5,568,000		4,769,000	14.35

191,037,000

167,558,000

DIFF= 23,479,000



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

*** PLANT FLOW vs. METER STATIONS FLOW ***

MONTH: November

YEAR: 2020

DATE	(LASER)	(LASER)	(LASER)	PLANT vs. M.STATIONS	
	PLANT FLOW GALLONS	METER STATIONS FLOW GALLONS	PLANT FLOW MINUS HAULERS' GALLONS	DIFFERENCE GALLONS	% DIFFERENCE
1	5,727,000	6,151,900	5,689,280	(462,620)	(8.13) % DIFFERENCE
2	5,594,000	5,805,000	5,594,000	(211,000)	(3.77) % DIFFERENCE
3	5,324,000	5,463,600	5,318,420	(145,180)	(2.73) % DIFFERENCE
4	5,250,000	5,366,200	5,250,000	(116,200)	(2.21) % DIFFERENCE
5	5,178,000	5,296,000	5,167,190	(128,810)	(2.49) % DIFFERENCE
6	4,930,000	5,160,900	4,930,000	(230,900)	(4.68) % DIFFERENCE
7	4,860,000	5,088,600	4,860,000	(228,600)	(4.70) % DIFFERENCE
8	5,254,000	5,502,400	5,254,000	(248,400)	(4.73) % DIFFERENCE
9	5,241,000	5,470,300	5,221,910	(248,390)	(4.76) % DIFFERENCE
10	9,088,000	9,455,600	9,083,600	(372,000)	(4.10) % DIFFERENCE
11	8,437,000	8,799,200	8,437,000	(362,200)	(4.29) % DIFFERENCE
12	7,544,000	7,872,600	7,535,210	(337,390)	(4.48) % DIFFERENCE
13	6,937,000	7,268,800	6,937,000	(331,800)	(4.78) % DIFFERENCE
14	7,181,000	7,525,300	7,181,000	(344,300)	(4.79) % DIFFERENCE
15	8,895,000	9,315,100	8,895,000	(420,100)	(4.72) % DIFFERENCE
16	7,770,000	8,069,000	7,747,960	(321,040)	(4.14) % DIFFERENCE
17	7,219,000	7,453,900	7,216,090	(237,810)	(3.30) % DIFFERENCE
18	6,989,000	7,190,800	6,984,590	(206,210)	(2.95) % DIFFERENCE
19	6,694,000	6,883,900	6,694,000	(189,900)	(2.84) % DIFFERENCE
20	6,255,000	6,258,900	6,249,490	(9,410)	(0.15) % DIFFERENCE
21	5,994,000	5,997,300	5,994,000	(3,300)	(0.06) % DIFFERENCE
22	6,066,000	6,068,300	6,066,000	(2,300)	(0.04) % DIFFERENCE
23	6,026,000	6,142,100	6,000,590	(141,510)	(2.36) % DIFFERENCE
24	6,803,000	6,932,200	6,798,830	(133,370)	(1.96) % DIFFERENCE
25	6,731,000	6,871,000	6,718,390	(152,610)	(2.27) % DIFFERENCE
26	6,041,000	6,169,100	6,041,000	(128,100)	(2.12) % DIFFERENCE
27	5,833,000	5,955,100	5,833,000	(122,100)	(2.09) % DIFFERENCE
28	5,687,000	5,805,900	5,687,000	(118,900)	(2.09) % DIFFERENCE
29	5,921,000	6,219,500	5,921,000	(298,500)	(5.04) % DIFFERENCE
30	5,568,000	5,750,700	5,551,410	(199,290)	(3.59) % DIFFERENCE
TOTAL:	191,037,000	197,309,200	190,856,960	(6,452,240)	-3.38 %
AVERAGE:	6,367,900	6,576,973		(215,075)	
MAXIMUM:	9,088,000	9,455,600			
MINIMUM:					

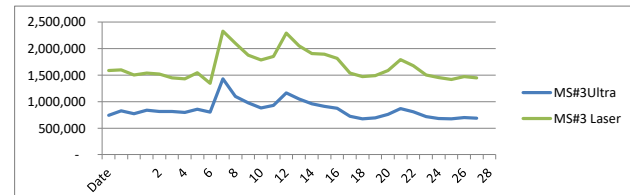
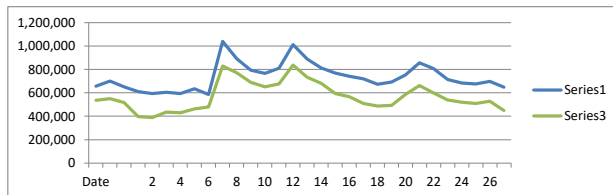
LITTLE CHUTE (November 2020)

MS#2				
	Ultrasonic		Laser	
Date	Gallons		Gallons	
			%	
			Diff	
1	658,000		536,000	18.54
2	700,000		550,000	21.43
3	653,000		517,000	20.83
4	610,000		396,000	35.08
5	594,000		390,000	34.34
6	604,000		436,000	27.81
7	593,000		430,000	27.49
8	636,000		464,000	27.04
9	585,000		478,000	18.29
10	1,040,000		829,000	20.29
11	893,000		773,000	13.44
12	793,000		691,000	12.86
13	767,000		653,000	14.86
14	811,000		676,000	16.65
15	1,012,000		838,000	17.19
16	891,000		734,000	17.62
17	812,000		682,000	16.01
18	770,000		593,000	22.99
19	743,000		567,000	23.69
20	720,000		509,000	29.31
21	674,000		488,000	27.60
22	694,000		494,000	28.82
23	753,000		587,000	22.05
24	858,000		663,000	22.73
25	809,000		601,000	25.71
26	716,000		539,000	24.72
27	684,000		521,000	23.83
28	677,000		508,000	24.96
29	699,000		529,000	24.32
30	650,000		448,000	31.08
TOTAL	22,099,000		17,120,000	

MS#3				
	Ultrasonic		Laser	
Date	Gallons		Gallons	
			%	
			Diff	
1	742,000		1,585,000	(113.61)
2	825,000		1,598,000	(93.70)
3	770,000		1,504,000	(95.32)
4	837,000		1,541,000	(84.11)
5	816,000		1,519,000	(86.15)
6	812,000		1,447,000	(78.20)
7	797,000		1,427,000	(79.05)
8	854,000		1,542,000	(80.56)
9	802,000		1,343,000	(67.46)
10	1,427,000		2,328,000	(63.14)
11	1,100,000		2,096,000	(90.55)
12	978,000		1,874,000	(91.62)
13	881,000		1,786,000	(102.72)
14	931,000		1,849,000	(98.60)
15	1,162,000		2,291,000	(97.16)
16	1,049,000		2,049,000	(95.33)
17	956,000		1,903,000	(99.06)
18	910,000		1,896,000	(108.35)
19	877,000		1,816,000	(107.07)
20	721,000		1,538,000	(113.31)
21	675,000		1,474,000	(118.37)
22	695,000		1,491,000	(114.53)
23	760,000		1,588,000	(108.95)
24	866,000		1,792,000	(106.93)
25	808,000		1,676,000	(107.43)
26	715,000		1,504,000	(110.35)
27	683,000		1,452,000	(112.59)
28	676,000		1,416,000	(109.47)
29	697,000		1,474,000	(111.48)
30	685,000		1,447,000	(111.24)
TOTAL	25,507,000		50,246,000	

Avg	Avg Daily	Avg	
736,633	DIFF	570,667	23.052
	165,967		

Avg	Avg Daily	Avg	
850,233	DIFF	1,674,867	(98.547)
	(824,633)		



KIMBERLY

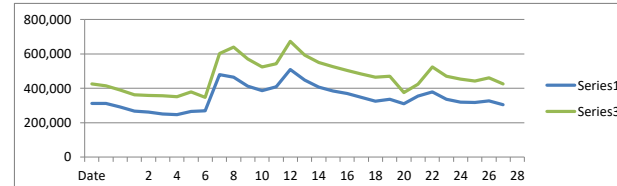
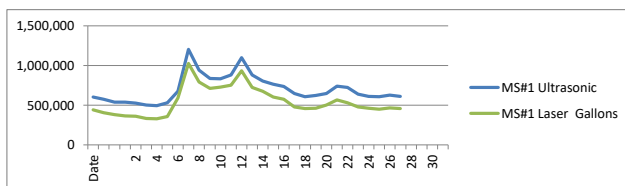
MS#1				
	Ultrasonic		Laser	
Date	Gallons		Gallons	
			% Diff	
1	602,000		441,000	26.74
2	575,000		403,000	29.91
3	536,000		379,000	29.29
4	538,000		366,000	31.97
5	524,000		360,000	31.30
6	503,000		334,000	33.60
7	494,000		329,000	33.40
8	529,000		356,000	32.70
9	675,000		590,000	12.59
10	1,201,000		1,024,000	14.74
11	941,000		793,000	15.73
12	837,000		709,000	15.29
13	832,000		727,000	12.62
14	879,000		753,000	14.33
15	1,097,000		933,000	14.95
16	882,000		725,000	17.80
17	804,000		674,000	16.17
18	762,000		602,000	21.00
19	735,000		576,000	21.63
20	648,000		477,000	26.39
21	606,000		457,000	24.59
22	624,000		463,000	25.80
23	648,000		503,000	22.38
24	739,000		568,000	23.14
25	724,000		531,000	26.66
26	640,000		476,000	25.63
27	612,000		460,000	24.84
28	606,000		448,000	26.07
29	625,000		467,000	25.28
30	609,000		459,000	24.63
TOTAL	21,027,000		16,383,000	

COMBINED LOCKS

MS#4				
	Ultrasonic		Laser	
Date	Gallons		Gallons	
			% Diff	
1	313,000		425,000	(35.78)
2	313,000		415,000	(32.59)
3	291,000		391,000	(34.36)
4	268,000		363,000	(35.45)
5	262,000		359,000	(37.02)
6	251,000		356,000	(41.83)
7	247,000		351,000	(42.11)
8	265,000		379,000	(43.02)
9	270,000		347,000	(28.52)
10	479,000		603,000	(25.89)
11	465,000		639,000	(37.42)
12	413,000		571,000	(38.26)
13	387,000		524,000	(35.40)
14	409,000		542,000	(32.52)
15	510,000		672,000	(31.76)
16	447,000		593,000	(32.66)
17	407,000		550,000	(35.14)
18	384,000		526,000	(36.98)
19	370,000		504,000	(36.22)
20	348,000		484,000	(39.08)
21	326,000		464,000	(42.33)
22	336,000		470,000	(39.88)
23	311,000		375,000	(20.58)
24	355,000		424,000	(19.44)
25	379,000		524,000	(38.26)
26	336,000		470,000	(39.88)
27	320,000		454,000	(41.88)
28	317,000		443,000	(39.75)
29	327,000		461,000	(40.98)
30	304,000		426,000	(40.13)
TOTAL	10,410,000		14,105,000	

Avg	Avg Daily	Avg	
700,900	DIFF	546,100	23.37
	154,800		

Avg	Avg Daily	Avg	
347,000	DIFF	470,167	(35.837)
	(123,167)		



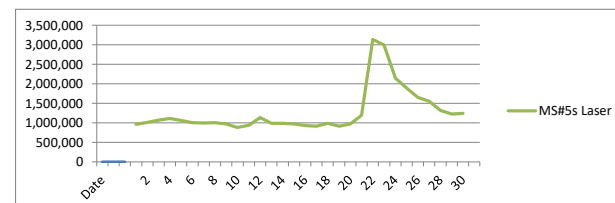
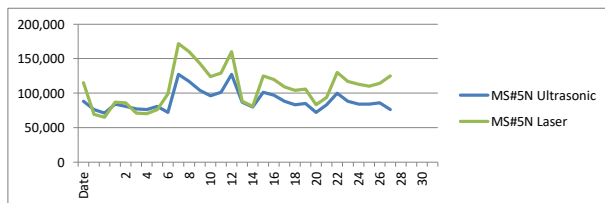
KAUKAUNA (November 2020)

Date	MS#5N		% Diff
	Ultrasonic Gallons	Laser Gallons	
1	88,000	115,000	(30.68)
2	76,000	69,000	9.21
3	71,000	65,000	8.45
4	84,000	87,000	(3.57)
5	81,000	86,000	(6.17)
6	77,000	71,000	7.79
7	76,000	70,000	7.89
8	81,000	76,000	6.17
9	72,000	99,000	(37.50)
10	127,000	172,000	(35.43)
11	117,000	160,000	(36.75)
12	104,000	143,000	(37.50)
13	96,000	124,000	(29.17)
14	101,000	129,000	(27.72)
15	127,000	160,000	(25.98)
16	87,000	88,000	(1.15)
17	80,000	81,000	(1.25)
18	101,000	125,000	(23.76)
19	97,000	120,000	(23.71)
20	88,000	109,000	(23.86)
21	83,000	104,000	(25.30)
22	85,000	106,000	(24.71)
23	72,000	83,000	(15.28)
24	83,000	94,000	(13.25)
25	100,000	130,000	(30.00)
26	88,000	117,000	(32.95)
27	84,000	113,000	(34.52)
28	84,000	110,000	(30.95)
29	86,000	114,000	(32.56)
30	76,000	125,000	(64.47)
TOTAL	2,672,000	3,245,000	

Date	MS#5s		% Diff
	Ultrasonic Gallons	Laser Gallons	
1	Meter Failed.	961,000	
2	Meter Failed.	1,015,000	
3	Meter Failed.	1,067,000	
4	Meter Failed.	1,114,000	
5	Meter Failed.	1,058,000	
6	Meter Failed.	1,007,000	
7	Meter Failed.	998,000	
8	Meter Failed.	1,001,000	
9	Meter Failed.	970,000	
10	Meter Failed.	879,000	
11	Meter Failed.	940,000	
12	Meter Failed.	1,137,000	
13	Meter Failed.	990,000	
14	Meter Failed.	992,000	
15	Meter Failed.	971,000	
16	Meter Failed.	933,000	
17	Meter Failed.	911,000	
18	Meter Failed.	991,000	
19	Meter Failed.	916,000	
20	Meter Failed.	970,000	
21	Meter Failed.	1,190,000	
22	Meter Failed.	3,133,000	
23	Meter Failed.	2,998,000	
24	Meter Failed.	2,147,000	
25	Meter Failed.	1,893,000	
26	Meter Failed.	1,649,000	
27	Meter Failed.	1,556,000	
28	Meter Failed.	1,315,000	
29	Meter Failed.	1,226,000	
30	Meter Failed.	1,246,000	
TOTAL		38,174,000	

Avg	Avg Daily	Avg	
89,067	DIFF	108,167	(20.290)
	(19,100)		

Avg	Avg Daily	Avg
#DIV/0!	DIFF	1,272,467
	#DIV/0!	

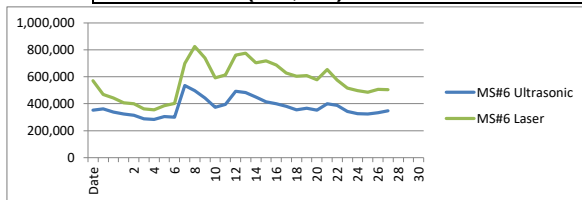


KAUKAUNA (November 2020)

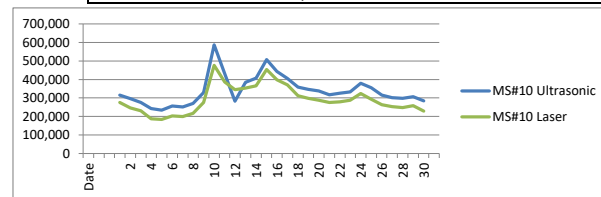
		MS#6		
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	353,000		571,000	(61.76)
2	363,000		470,000	(29.48)
3	339,000		442,000	(30.38)
4	323,000		406,000	(25.70)
5	314,000		401,000	(27.71)
6	289,000		361,000	(24.91)
7	284,000		356,000	(25.35)
8	304,000		385,000	(26.64)
9	301,000		403,000	(33.89)
10	536,000		699,000	(30.41)
11	497,000		826,000	(66.20)
12	442,000		739,000	(67.19)
13	374,000		592,000	(58.29)
14	395,000		613,000	(55.19)
15	493,000		760,000	(54.16)
16	484,000		774,000	(59.92)
17	450,000		705,000	(56.67)
18	415,000		718,000	(73.01)
19	401,000		687,000	(71.32)
20	380,000		629,000	(65.53)
21	355,000		603,000	(69.86)
22	366,000		610,000	(66.67)
23	352,000		579,000	(64.49)
24	401,000		653,000	(62.84)
25	387,000		575,000	(48.58)
26	342,000		516,000	(50.88)
27	327,000		498,000	(52.29)
28	324,000		486,000	(50.00)
29	334,000		506,000	(51.50)
30	348,000		505,000	(45.11)
TOTAL	11,273,000		17,068,000	

		MS#10		
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	316,000		275,000	12.97
2	296,000		246,000	16.89
3	276,000		231,000	16.30
4	242,000		187,000	22.73
5	235,000		184,000	21.70
6	256,000		203,000	20.70
7	252,000		200,000	20.63
8	270,000		217,000	19.63
9	330,000		275,000	16.67
10	587,000		477,000	18.74
11	431,000		386,000	10.44
12	283,000		345,000	(21.91)
13	385,000		354,000	8.05
14	407,000		366,000	10.07
15	508,000		453,000	10.83
16	444,000		399,000	10.14
17	405,000		371,000	8.40
18	358,000		312,000	12.85
19	346,000		299,000	13.58
20	338,000		288,000	14.79
21	317,000		276,000	12.93
22	326,000		279,000	14.42
23	333,000		287,000	13.81
24	379,000		324,000	14.51
25	356,000		293,000	17.70
26	315,000		263,000	16.51
27	301,000		254,000	15.61
28	298,000		248,000	16.78
29	307,000		258,000	15.96
30	285,000		229,000	19.65
TOTAL	10,182,000		8,779,000	

Avg 375,767
Avg Daily DIFF (193,167)
Avg 568,933 **(50.197)**



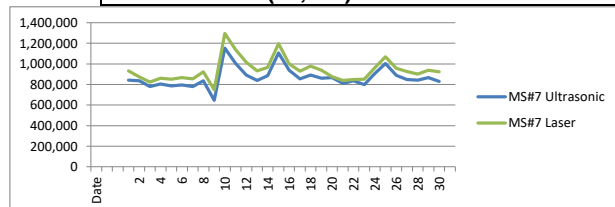
Avg 339,400
Avg Daily DIFF 46,767
Avg 292,633 **14.070**



DARBOY (November 2020)

MS#7				
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	843,000		934,000	(10.795)
2	836,000		875,000	(4.665)
3	779,000		824,000	(5.777)
4	806,000		862,000	(6.948)
5	785,000		851,000	(8.408)
6	795,000		866,000	(8.931)
7	781,000		854,000	(9.347)
8	837,000		923,000	(10.275)
9	648,000		748,000	(15.432)
10	1,154,000		1,296,000	(12.305)
11	1,004,000		1,138,000	(13.347)
12	893,000		1,017,000	(13.886)
13	840,000		933,000	(11.071)
14	887,000		966,000	(8.906)
15	1,108,000		1,196,000	(7.942)
16	939,000		1,000,000	(6.496)
17	855,000		929,000	(14.503)
18	893,000		979,000	(9.630)
19	860,000		938,000	(9.070)
20	867,000		876,000	(1.038)
21	811,000		839,000	(3.453)
22	835,000		849,000	(1.677)
23	799,000		853,000	(6.758)
24	909,000		963,000	(5.941)
25	1,005,000		1,068,000	(6.269)
26	890,000		959,000	(7.753)
27	849,000		926,000	(9.069)
28	841,000		902,000	(7.253)
29	868,000		940,000	(8.295)
30	831,000		923,000	(11.071)
TOTAL	26,048,000		28,227,000	

Avg	Avg Daily	Avg	
868,267	DIFF	940,900	(8.544)
	(72,633)		



October Total Flows

Kaukauna*		% Diff
Laser	25,025,000	11.24
Ultrasonic	22,211,000	

Darboy		
Laser	28,055,000	7.04
Ultrasonic	26,081,000	

Combined Locks		
Laser	12,674,000	26.37
Ultrasonic	9,332,000	

Kimberly		
Laser	14,816,000	(30.66)
Ultrasonic	19,358,000	

Little Chute		
Laser	58,954,000	26.86
Ultrasonic	43,118,600	

* MS 5 South not included

November Total Flows

Kaukauna*		% Diff
Laser	29,092,000	17.07
Ultrasonic	24,127,000	

Darboy		
Laser	28,227,000	7.72
Ultrasonic	26,048,000	

Combined Locks		
Laser	14,105,000	26.20
Ultrasonic	10,410,000	

Kimberly		
Laser	16,383,000	(28.35)
Ultrasonic	21,027,000	

Little Chute		
Laser	67,366,000	29.33
Ultrasonic	47,606,000	

* MS 5 South not included