

HEADWORKS INFLUENT METERS

(LASER)

(ULTRASONIC)

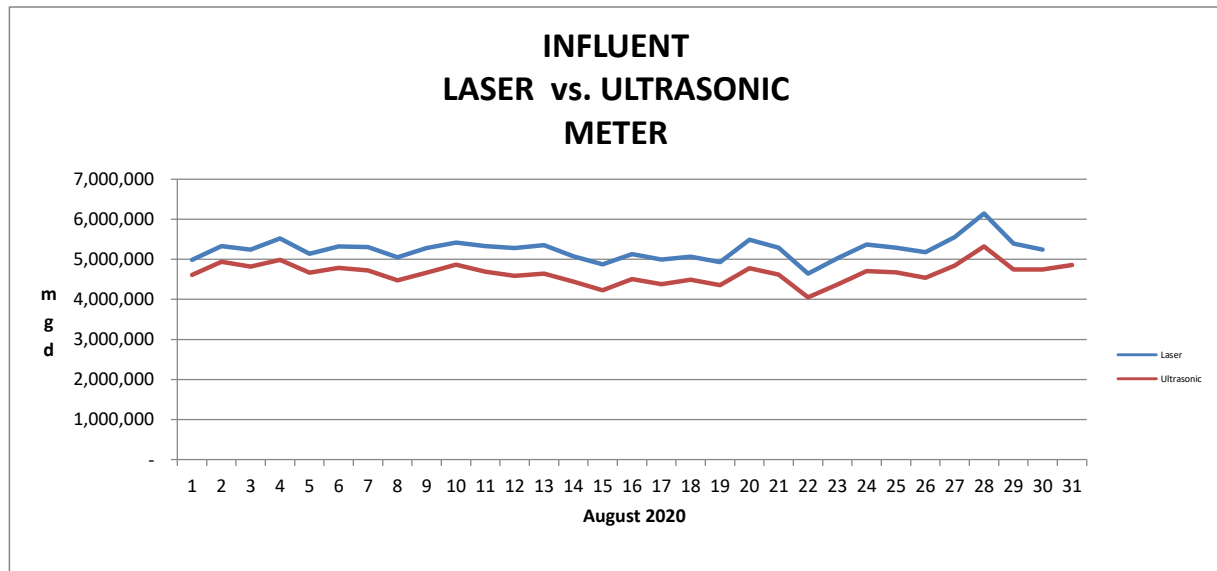
MONTH: August

DATE	FLOW GALLONS	FLOW GALLONS	% DIFF
1	4,982,000	4,609,000	7.49
2	5,332,000	4,940,000	7.35
3	5,242,000	4,820,000	8.05
4	5,524,000	4,984,000	9.78
5	5,138,000	4,669,000	9.13
6	5,322,000	4,786,000	10.07
7	5,306,000	4,721,000	11.03
8	5,052,000	4,475,000	11.42
9	5,283,000	4,669,000	11.62
10	5,418,000	4,862,000	10.26
11	5,326,000	4,686,000	12.02
12	5,280,000	4,588,000	13.11
13	5,350,000	4,645,000	13.18
14	5,077,000	4,441,000	12.53
15	4,871,000	4,225,000	13.26
16	5,129,000	4,503,000	12.21
17	4,991,000	4,375,000	12.34
18	5,069,000	4,490,000	11.42
19	4,928,000	4,351,000	11.71
20	5,487,000	4,780,000	12.89
21	5,285,000	4,615,000	12.68
22	4,642,000	4,049,000	12.77
23	5,024,000	4,373,000	12.96
24	5,366,000	4,706,000	12.30
25	5,285,000	4,675,000	11.54
26	5,180,000	4,535,000	12.45
27	5,552,000	4,845,000	12.73
28	6,147,000	5,320,000	13.45
29	5,391,000	4,746,000	11.96
30	5,240,000	4,747,000	9.41
31	5,430,000	4,855,000	10.59

162,649,000

144,085,000

DIFF= 18,564,000



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

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

MONTH: AUGUST

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	4,982,000	4,860,100	4,982,000	121,900	2.45 % DIFFERENCE
2	5,332,000	5,198,200	5,332,000	133,800	2.51 % DIFFERENCE
3	5,242,000	5,166,800	5,226,630	59,830	1.14 % DIFFERENCE
4	5,524,000	5,444,400	5,517,250	72,850	1.32 % DIFFERENCE
5	5,138,000	5,089,700	5,118,390	28,690	0.56 % DIFFERENCE
6	5,322,000	5,269,700	5,310,250	40,550	0.76 % DIFFERENCE
7	5,306,000	5,101,900	5,303,290	201,390	3.80 % DIFFERENCE
8	5,052,000	4,854,200	5,052,000	197,800	3.92 % DIFFERENCE
9	5,283,000	5,077,100	5,283,000	205,900	3.90 % DIFFERENCE
10	5,418,000	5,119,600	5,380,810	261,210	4.85 % DIFFERENCE
11	5,326,000	4,970,800	5,320,600	349,800	6.57 % DIFFERENCE
12	5,280,000	4,924,200	5,272,480	348,280	6.61 % DIFFERENCE
13	5,350,000	4,984,300	5,341,830	357,530	6.69 % DIFFERENCE
14	5,077,000	4,601,900	5,077,000	475,100	9.36 % DIFFERENCE
15	4,871,000	4,409,800	4,871,000	461,200	9.47 % DIFFERENCE
16	5,129,000	4,636,200	5,129,000	492,800	9.61 % DIFFERENCE
17	4,991,000	4,672,900	4,991,000	318,100	6.37 % DIFFERENCE
18	5,069,000	4,761,400	5,069,000	307,600	6.07 % DIFFERENCE
19	4,928,000	4,421,400	4,923,770	502,370	10.20 % DIFFERENCE
20	5,487,000	4,928,300	5,487,000	558,700	10.18 % DIFFERENCE
21	5,285,000	4,675,500	5,285,000	609,500	11.53 % DIFFERENCE
22	4,642,000	4,113,800	4,642,000	528,200	11.38 % DIFFERENCE
23	5,024,000	4,446,400	5,024,000	577,600	11.50 % DIFFERENCE
24	5,366,000	4,949,600	5,336,500	386,900	7.25 % DIFFERENCE
25	5,285,000	4,869,900	5,268,550	398,650	7.57 % DIFFERENCE
26	5,180,000	4,868,900	5,174,180	305,280	5.90 % DIFFERENCE
27	5,552,000	5,214,900	5,541,280	326,380	5.89 % DIFFERENCE
28	6,147,000	5,812,900	6,147,000	334,100	5.44 % DIFFERENCE
29	5,391,000	5,095,400	5,391,000	295,600	5.48 % DIFFERENCE
30	5,240,000	4,956,400	5,240,000	283,600	5.41 % DIFFERENCE
31	5,430,000	5,118,300	5,401,940	283,640	5.25 % DIFFERENCE
TOTAL:	162,649,000	152,614,900	162,439,750	9,824,850	6.05 %
AVERAGE:	5,240,633	4,923,061		318,040	
MAXIMUM:	6,147,000	5,812,900			
MINIMUM:					

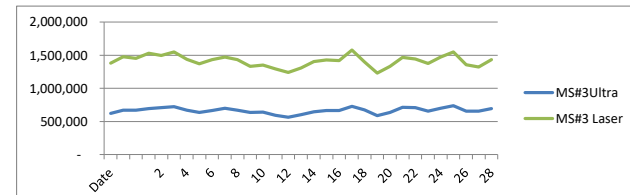
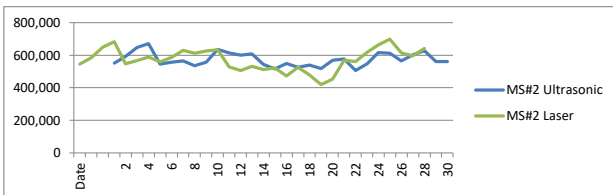
LITTLE CHUTE (August 2020)

		MS#2		
	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	552,000		545,000	1.27
2	592,000		584,000	1.35
3	648,000		649,000	(0.15)
4	671,000		684,000	(1.94)
5	545,000		548,000	(0.55)
6	558,000		567,000	(1.61)
7	565,000		588,000	(4.07)
8	535,000		560,000	(4.67)
9	558,000		586,000	(5.02)
10	637,000		630,000	1.10
11	614,000		613,000	0.16
12	601,000		627,000	(4.33)
13	609,000		635,000	(4.27)
14	543,000		527,000	2.95
15	516,000		506,000	1.94
16	550,000		532,000	3.27
17	525,000		513,000	2.29
18	539,000		521,000	3.34
19	519,000		472,000	9.06
20	570,000		526,000	7.72
21	578,000		478,000	17.30
22	507,000		420,000	17.16
23	548,000		454,000	17.15
24	616,000		570,000	7.47
25	612,000		561,000	8.33
26	565,000		618,000	(9.38)
27	603,000		663,000	(9.95)
28	629,000		700,000	(11.29)
29	561,000		614,000	(9.45)
30	561,000		597,000	(6.42)
31	597,000		642,000	(7.54)
TOTAL	17,824,000		17,730,000	

		MS#3		
	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	624,000		1,381,000	(121.31)
2	669,000		1,478,000	(120.93)
3	673,000		1,450,000	(115.45)
4	696,000		1,529,000	(119.68)
5	709,000		1,498,000	(111.28)
6	726,000		1,551,000	(113.64)
7	673,000		1,440,000	(113.97)
8	638,000		1,371,000	(114.89)
9	666,000		1,433,000	(115.17)
10	699,000		1,473,000	(110.73)
11	673,000		1,432,000	(112.78)
12	635,000		1,334,000	(110.08)
13	643,000		1,351,000	(110.11)
14	593,000		1,293,000	(118.04)
15	564,000		1,241,000	(120.04)
16	601,000		1,307,000	(117.47)
17	647,000		1,406,000	(117.31)
18	665,000		1,427,000	(114.59)
19	665,000		1,419,000	(113.38)
20	730,000		1,579,000	(116.30)
21	674,000		1,400,000	(107.72)
22	591,000		1,230,000	(108.12)
23	639,000		1,331,000	(108.29)
24	716,000		1,468,000	(105.03)
25	711,000		1,445,000	(103.23)
26	655,000		1,374,000	(109.77)
27	699,000		1,473,000	(110.73)
28	736,000		1,549,000	(110.46)
29	656,000		1,358,000	(107.01)
30	657,000		1,320,000	(100.91)
31	695,000		1,433,000	(106.19)
TOTAL	20,618,000		43,774,000	

Avg	Avg Daily	Avg	
574,968	DIFF	571,935	0.685
	3,032		

Avg	Avg Daily	Avg	
665,097	DIFF	1,412,065	#####
	(746,968)		



KIMBERLY

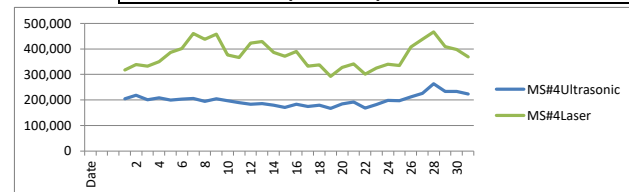
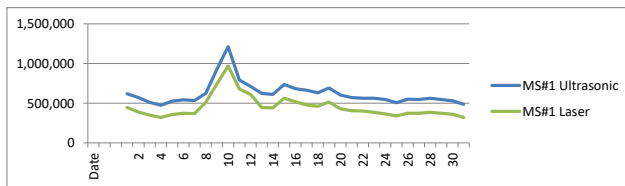
MS#1				
	Ultrasonic		Laser	
Date	Gallons		Gallons	
			%	
			Diff	
1	617,000		446,000	27.71
2	570,000		390,000	31.58
3	509,000		348,000	31.63
4	474,000		319,000	32.70
5	526,000		355,000	32.51
6	542,000		374,000	31.00
7	534,000		368,000	31.09
8	622,000		509,000	18.17
9	930,000		743,000	20.11
10	1,210,000		968,000	20.00
11	793,000		680,000	14.25
12	710,000		611,000	13.94
13	623,000		445,000	28.57
14	611,000		441,000	27.82
15	736,000		563,000	23.51
16	682,000		519,000	23.90
17	661,000		479,000	27.53
18	629,000		461,000	26.71
19	689,000		514,000	25.40
20	601,000		430,000	28.45
21	572,000		406,000	29.02
22	563,000		399,000	29.13
23	560,000		386,000	31.07
24	545,000		365,000	33.03
25	507,000		339,000	33.14
26	548,000		373,000	31.93
27	546,000		374,000	31.50
28	563,000		385,000	31.62
29	546,000		372,000	31.87
30	530,000		359,000	32.26
31	485,000		321,000	33.81
TOTAL	19,234,000		14,042,000	

COMBINED LOCKS

MS#4				
	Ultrasonic		Laser	
Date	Gallons		Gallons	
			%	
			Diff	
1	204,000		317,000	(55.39)
2	219,000		339,000	(54.79)
3	201,000		333,000	(65.67)
4	208,000		350,000	(68.27)
5	199,000		387,000	(94.47)
6	203,000		401,000	(97.54)
7	206,000		460,000	(123.30)
8	195,000		438,000	(124.62)
9	204,000		458,000	(124.51)
10	197,000		377,000	(91.37)
11	189,000		366,000	(93.65)
12	183,000		423,000	(131.15)
13	186,000		429,000	(130.65)
14	180,000		386,000	(114.44)
15	171,000		371,000	(116.96)
16	183,000		390,000	(113.11)
17	175,000		332,000	(89.71)
18	180,000		338,000	(87.78)
19	167,000		293,000	(75.45)
20	184,000		327,000	(77.72)
21	192,000		342,000	(78.13)
22	168,000		301,000	(79.17)
23	182,000		325,000	(78.57)
24	198,000		340,000	(71.72)
25	197,000		335,000	(70.05)
26	212,000		408,000	(92.45)
27	226,000		438,000	(93.81)
28	263,000		467,000	(77.57)
29	234,000		409,000	(74.79)
30	234,000		398,000	(70.09)
31	224,000		369,000	(64.73)
TOTAL	6,164,000		11,647,000	

Avg	Avg Daily	Avg	
620,452	DIFF	452,968	27.71
	167,484		

Avg	Avg Daily	Avg	
198,839	DIFF	375,710	(89.729)
	(176,871)		



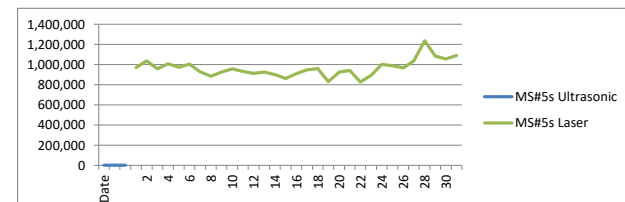
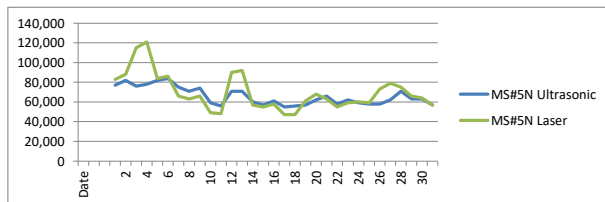
KAUKAUNA (August 2020)

		MS#5N		
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	77,000		83,000	(7.79)
2	82,000		88,000	(7.32)
3	76,000		115,000	(51.32)
4	78,000		121,000	(55.13)
5	82,000		84,000	(2.44)
6	84,000		86,000	(2.38)
7	75,000		66,000	12.00
8	71,000		63,000	11.27
9	74,000		66,000	10.81
10	59,000		49,000	16.95
11	56,000		48,000	14.29
12	71,000		90,000	(26.76)
13	71,000		92,000	(29.58)
14	60,000		57,000	5.00
15	57,000		55,000	3.51
16	61,000		58,000	4.92
17	55,000		47,000	14.55
18	56,000		47,000	16.07
19	57,000		61,000	(7.02)
20	62,000		68,000	(9.68)
21	66,000		63,000	4.55
22	58,000		55,000	5.17
23	62,000		59,000	4.84
24	59,000		60,000	(1.69)
25	58,000		59,000	(1.72)
26	58,000		73,000	(25.86)
27	62,000		79,000	(27.42)
28	71,000		75,000	(5.63)
29	63,000		66,000	(4.76)
30	63,000		64,000	(1.59)
31	57,000		57,000	-
TOTAL	2,041,000		2,154,000	

		MS#5s		
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
	Meter			
	Failed.			
1			968,000	#DIV/0!
2			1,036,000	#DIV/0!
3			955,000	#DIV/0!
4			1,006,000	#DIV/0!
5			971,000	#DIV/0!
6			1,005,000	#DIV/0!
7			928,000	#DIV/0!
8			884,000	#DIV/0!
9			924,000	#DIV/0!
10			957,000	#DIV/0!
11			930,000	#DIV/0!
12			913,000	#DIV/0!
13			925,000	#DIV/0!
14			899,000	#DIV/0!
15			862,000	#DIV/0!
16			908,000	#DIV/0!
17			946,000	#DIV/0!
18			961,000	#DIV/0!
19			831,000	#DIV/0!
20			925,000	#DIV/0!
21			940,000	#DIV/0!
22			826,000	#DIV/0!
23			894,000	#DIV/0!
24			1,002,000	#DIV/0!
25			987,000	#DIV/0!
26			967,000	#DIV/0!
27			1,037,000	#DIV/0!
28			1,237,000	#DIV/0!
29			1,085,000	#DIV/0!
30			1,055,000	#DIV/0!
31			1,089,000	
TOTAL			29,853,000	

Avg	Avg Daily	Avg	
65,839	DIFF	69,484	(4.651)
	(3,645)		

Avg	Avg Daily	Avg
#DIV/0!	DIFF	963,000
	#DIV/0!	



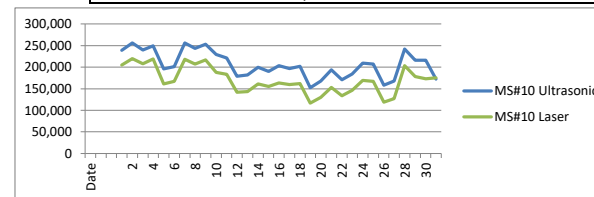
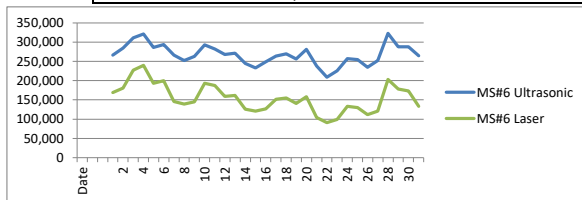
KAUKAUNA (August 2020)

Date	MS#6		% Diff
	Ultrasonic Gallons	Laser Gallons	
1	266,000	169,000	36.47
2	285,000	181,000	36.49
3	311,000	227,000	27.01
4	321,000	240,000	25.23
5	286,000	193,000	32.52
6	294,000	200,000	31.97
7	266,000	146,000	45.11
8	252,000	139,000	44.84
9	263,000	145,000	44.87
10	293,000	193,000	34.13
11	282,000	187,000	33.69
12	268,000	159,000	40.67
13	271,000	162,000	40.22
14	245,000	126,000	48.57
15	233,000	121,000	48.07
16	249,000	127,000	49.00
17	264,000	152,000	42.42
18	270,000	155,000	42.59
19	256,000	141,000	44.92
20	281,000	158,000	43.77
21	238,000	104,000	56.30
22	209,000	91,000	56.46
23	226,000	99,000	56.19
24	257,000	133,000	48.25
25	255,000	130,000	49.02
26	235,000	112,000	52.34
27	252,000	121,000	51.98
28	323,000	203,000	37.15
29	288,000	178,000	38.19
30	288,000	173,000	39.93
31	265,000	133,000	49.81
TOTAL	8,292,000	4,798,000	

Date	MS#10		% Diff
	Ultrasonic Gallons	Laser Gallons	
1	239,000	205,000	14.23
2	256,000	220,000	14.06
3	240,000	208,000	13.33
4	249,000	219,000	12.05
5	196,000	161,000	17.86
6	201,000	167,000	16.92
7	256,000	218,000	14.84
8	243,000	207,000	14.81
9	253,000	217,000	14.23
10	229,000	188,000	17.90
11	221,000	183,000	17.19
12	179,000	142,000	20.67
13	182,000	143,000	21.43
14	200,000	161,000	19.50
15	190,000	155,000	18.42
16	203,000	163,000	19.70
17	197,000	160,000	18.78
18	202,000	162,000	19.80
19	152,000	117,000	23.03
20	168,000	130,000	22.62
21	194,000	153,000	21.13
22	171,000	134,000	21.64
23	184,000	146,000	20.65
24	209,000	169,000	19.14
25	207,000	167,000	19.32
26	158,000	119,000	24.68
27	168,000	127,000	24.40
28	242,000	203,000	16.12
29	216,000	178,000	17.59
30	216,000	173,000	19.91
31	172,000	175,000	(1.74)
TOTAL	6,393,000	5,270,000	

Avg	Avg Daily	Avg	
267,484	DIFF	154,774	42.845
	112,710		

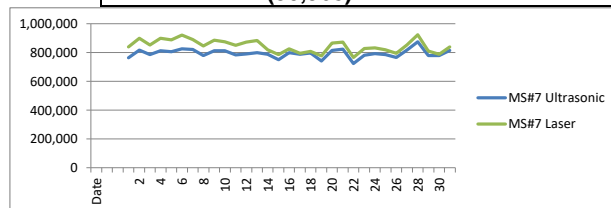
Avg	Avg Daily	Avg	
206,226	DIFF	169,833	17.878
	36,392		



DARBOY (August 2020)

MS#7				
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	763,000		840,000	(10.092)
2	818,000		899,000	(9.902)
3	786,000		853,000	(8.524)
4	813,000		899,000	(10.578)
5	805,000		889,000	(10.435)
6	825,000		921,000	(11.636)
7	822,000		890,000	(8.273)
8	779,000		847,000	(8.729)
9	813,000		886,000	(8.979)
10	813,000		875,000	(7.626)
11	783,000		850,000	(8.557)
12	790,000		872,000	(10.380)
13	799,000		884,000	(10.638)
14	789,000		819,000	(3.802)
15	750,000		785,000	(4.667)
16	800,000		827,000	(3.375)
17	788,000		796,000	(2.665)
18	798,000		809,000	(1.378)
19	742,000		778,000	(4.852)
20	816,000		867,000	(6.250)
21	824,000		872,000	(5.825)
22	723,000		766,000	(5.947)
23	781,000		829,000	(6.146)
24	792,000		833,000	(5.177)
25	786,000		820,000	(4.326)
26	766,000		794,000	(3.655)
27	818,000		852,000	(4.156)
28	875,000		924,000	(5.600)
29	780,000		810,000	(3.846)
30	780,000		788,000	(1.026)
31	816,000		839,000	(2.819)
TOTAL	24,633,000		26,213,000	

Avg	Avg Daily	Avg	
794,613	DIFF	845,581	(6.447)
	(50,968)		



July Total Flows

Kaukauna*		% Diff
Laser	25,152,000	(3.99)
Ultrasonic	26,155,000	

Darboy		
Laser	30,667,000	11.37
Ultrasonic	27,179,000	

Combined Locks		
Laser	13,676,000	32.64
Ultrasonic	9,212,000	

Kimberly		
Laser	14,042,000	(36.97)
Ultrasonic	19,234,000	

Little Chute		
Laser	74,938,000	37.05
Ultrasonic	47,177,000	

August Total Flows

Kaukauna*		% Diff
Laser	12,222,000	(36.85)
Ultrasonic	16,726,000	

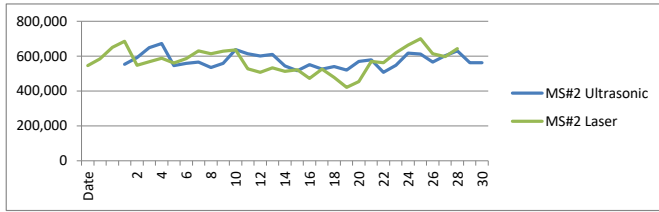
Darboy		
Laser	26,213,000	6.03
Ultrasonic	24,633,000	

Combined Locks		
Laser	11,647,000	47.08
Ultrasonic	6,164,000	

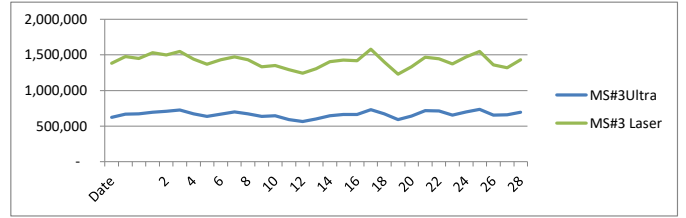
Kimberly		
Laser	9,656,000	(53.35)
Ultrasonic	14,807,000	

Little Chute		
Laser	61,504,000	37.50
Ultrasonic	38,442,000	

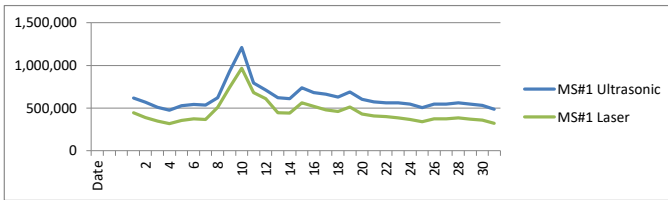
* Meter station # 5S not included



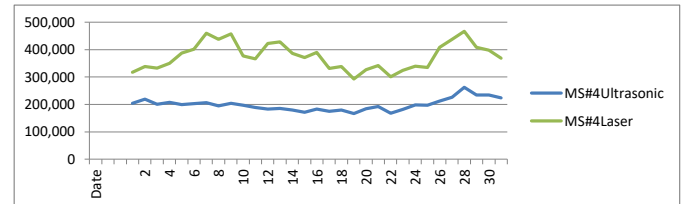
Little Chute



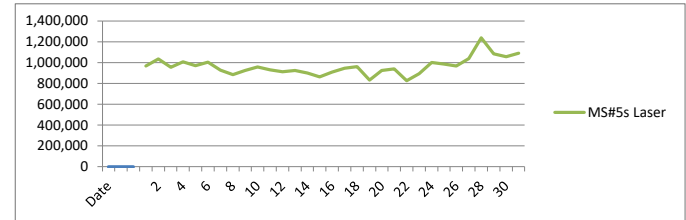
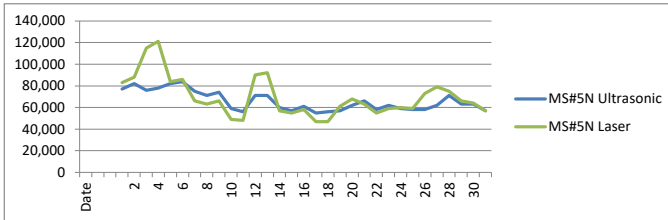
Kimberly



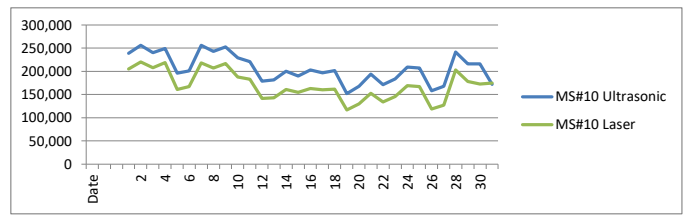
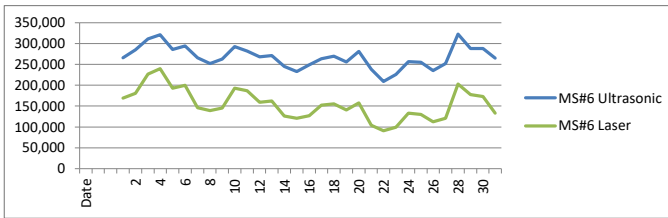
Combined Locks



Kaukauna



Kaukauna



Darboy

Combined Locks

