



Town of Friday Harbor Water, Wastewater, and Solid Waste Utilities Summary Reports

www.fridayharbor.org

Period ending: July 2021

Data provided by
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Water Utility, Mike Deegan, Water System Mgr.
Frank Byrne, Water Treatment Plant Operator
Wastewater Utility, Don Reitan, Leadman
Solid Waste Utility, Dave Smith, Leadman

Analysis & Reports prepared by
Mike Greene, System Administrator

Water - use MTD

sourceDate
/
7 / 2021

Spe=Special, Sfr=Single Family Residential, P.A= Public Authority, Mfr=Multi-family, Ind=Industrial, Com=Commerc

Water Class	Accounts	Gallons
Spe	3	107,125
Sfr	1010	5,527,261
PA	81	1,917,270
Mfr	132	2,503,215
Ind	14	219,570
Com	221	2,745,449
TOTAL	1,461	13,019,890

Water use MTD - accounts with sewersourceDate
/
7 / 2021

Sewer Class	Accounts	Gallons
Location: IN		
Mfr In/low Strength	63	825,152
Com In/lo Strength	165	1,553,168
Dot In/lo Strength	3	54,840
Ind In/hi Strength	1	81,690
Ind In/lo Strength	10	122,600
Lmf In/lo Strength	1	2,450
Com In/hi Strength	42	1,088,332
Mfr In/lo Strength	58	779,263
Mhp In/lo Strength	2	439,400
PA In/hi Strength	3	161,010
PA In/lo Strength	45	949,370
Sfr IN Town	634	3,200,116
Low Rate / IN Town	6	10,990
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	1033	9,268,381
Location: Out		
UW Out/hi Strength	1	179,400
Mfr Out/lo Strength	1	17,280
Sfr Out of Town	4	19,196
	<hr/>	
	6	215,876

Sewer Class	Accounts	Gallons
TOTAL	1039	9,484,257

Water - use MTD by Location

sourceDate

/
7 / 2021

Spe=Special, Sfr=Single Family Residential, P.A= Public Authority, Mfr=Multi-family, Ind=Industrial, Com=Commerc

Water Class	Accounts	Gallons
Location: IN		
Spe	2	105,855
Sfr	657	3,265,216
PA	72	1,651,040
Mfr	127	2,148,485
Ind	13	217,320
Com	218	2,731,139
	1,089	10,119,055
Location: Out		
Spe	1	1,270
Sfr	353	2,262,045
PA	9	266,230
Mfr	5	354,730
Ind	1	2,250
Com	3	14,310
	372	2,900,835
TOTAL	1,461	13,019,890

Refuse - pickups by Class

sourceDate
/
7 / 2021

Location	Class	Pickups
IN	Sfr	2,323.0
	RefuseOnly	386.5
	PA	85.0
	Mfr	659.0
	Ind	20.0
	Com	3,439.3
		<hr/> 6,912.8
Out	Mfr	14.0
		<hr/> 14.0
TOTAL		<hr/> 6,926.8

Refuse - active accounts

sourceDate

/
7 / 2021

Location	Refuse Type	Accounts
IN		
	Small Dumpster	42
	PA	42
	Medium Dumpste	55
	Large Dumpster	70
	Compactors	4
	Cans Low Rate	6
	Cans	865
		1,084
Out		
	Large Dumpster	1
		1
	TOTAL	1,085

Recycle - pickups by Class

sourceDate
/
7 / 2021

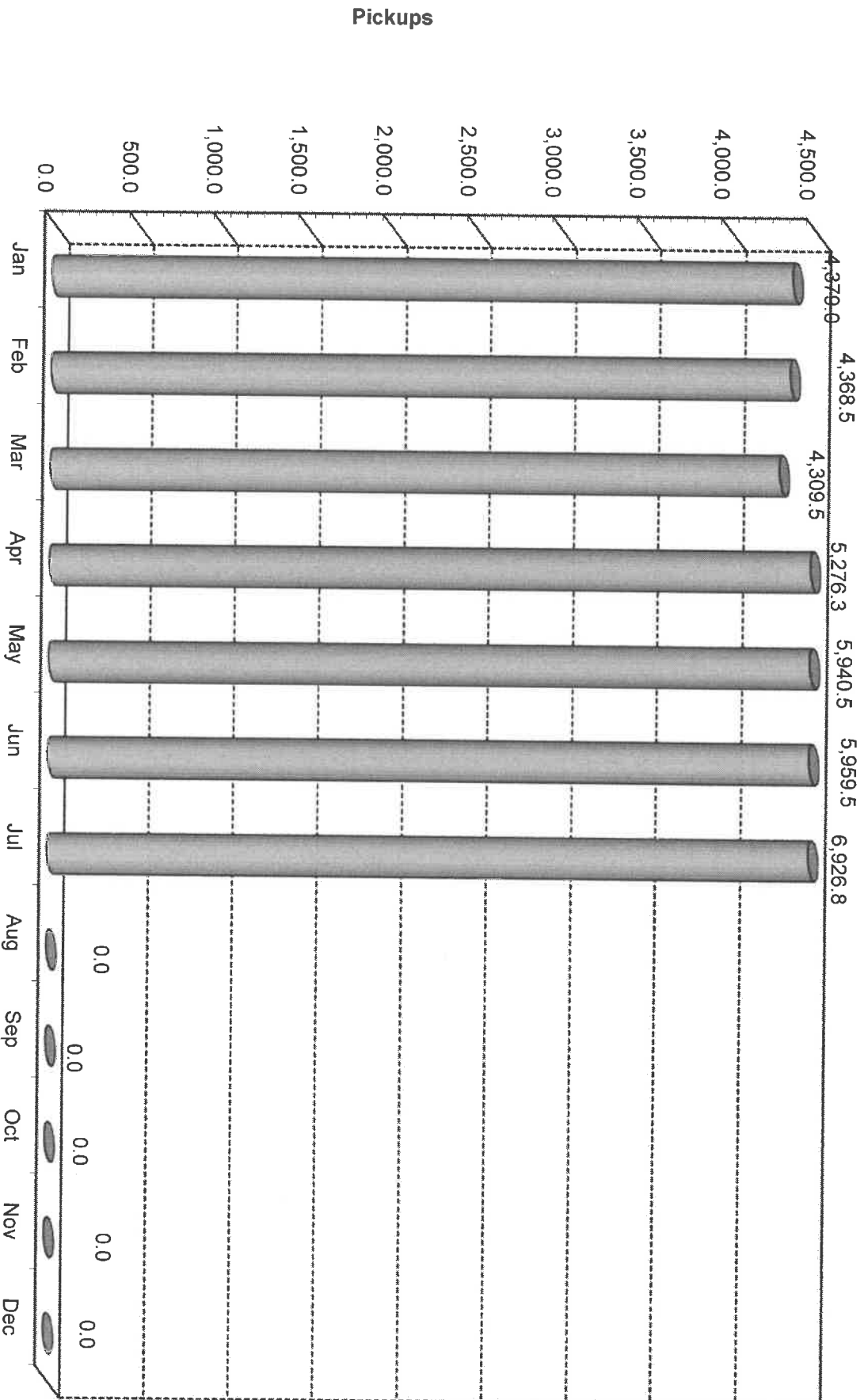
Location	Class	Pickups
IN	Sfr	893
	RefuseOnly	26
	PA	0
	Mfr	132
	Ind	12
	Com	8
		1,071
Out	Mfr	0
		0
TOTAL		1,071

Town of Friday Harbor

Refuse Pickups - 2021 YTD

Account Type	SFR	Refuse Only	P.A	MFR	IND	COM	Other	Total
Jan	1,990.0	221.0	90.0	613.0	14.0	1,444.0	7.0	4,379.0
Feb	1,912.0	196.0	103.5	548.5	19.5	1,581.0	8.0	4,368.5
Mar	1,696.0	191.0	107.0	531.5	22.5	1,754.5	7.0	4,309.5
Apr	2,038.0	234.5	131.5	571.0	20.8	2,273.5	7.0	5,276.3
May	2,440.0	244.0	121.0	641.5	19.0	2,466.0	9.0	5,940.5
Jun	2,169.0	294.0	114.0	618.0	19.0	2,735.5	10.0	5,959.5
Jul	2,323.0	386.5	85.0	659.0	20.0	3,439.3	14.0	6,926.8
Aug								0.0
Sep								0.0
Oct								0.0
Nov								0.0
Dec								0.0
YTD	14,568.0	1,767.0	752.0	4,182.5	134.8	15,693.8	62.0	37,160.1

Refuse Pickups by Month - 2020



Finish Water Flow to Town
source: Water Treatment Facility Monthly Report

Revised reporting period: per K. Anderson 03/06/17
to reflect meter reading dates (?).
Start/End dates may change monthly.

30 :count of days in reporting period.

	June 15, 2021		July 15, 2021
day	flow (total flow)	day	flow (total flow)
13		1	470
14		2	503
15	360	3	531
16	331	4	505
17	409	5	457
18	415	6	423
19	479	7	443
20	387	8	487
21	374	9	406
22	437	10	457
23	462	11	492
24	439	12	452
25	445	13	508
26	490	14	458
27	491	15	
28	492	16	
29	615		
30	507		
31			
days	7133	days	6592
	TOTAL DAYS	30	
	TOTAL FLOW		13725
			1,000's gallons

TOWN OF FRIDAY HARBOR

Flow to Town (Gross Water Production) 2020

Revised reporting period: per K. Anderson 03/06/17
to reflect meter reading dates (?).

Reporting (meter reading) period			days in period	Gross flow to Town	Flow to Town (millions)
from WTP Chem. Wts. & Finish Flow to Town Report	to				
15-Dec	to	14-Jan	31	7,320,000	7,320
15-Jan	to	14-Feb	31	7,539,000	7,539
15-Feb	to	14-Mar	28	7,160,000	7,160
15-Mar	to	14-Apr	31	8,464,000	8,464
15-Apr	to	16-May	32	10,115,000	10,115
17-May	to	14-Jun	29	10,626,000	10,626
15-Jun	to	14-Jul	30	13,725,000	13,725
	to		0	0	
	to		0	0	
	to		0	0	
	to		0	0	
	to		0	0	
	to		0	0	
			212	64,949,000	64949.0

TOWN OF FRIDAY HARBOR

WATER CONSUMPTION (Use) BY CUSTOMER CLASS

source: utilTrry08 & 13.mdb

2020

CLASS:	COM	IND	MFR	P.A	SFR	Special	other uses	TOTAL	% of Use	Avg. Daily Use
JAN	1,245,000	106,800	1,477,460	778,750	2,353,930	8,953	519,909	6,490,802	6.4%	209,381
FEB	1,472,570	103,550	1,708,290	877,370	2,579,290	31,010	586,762	7,358,842	7.2%	253,753
MAR	1,269,760	79,450	1,581,430	597,760	2,269,100	15,009	668,075	6,480,584	6.4%	209,051
APR	855,070	67,640	1,845,470	421,860	2,823,760	41,241	621,772	6,676,813	6.6%	222,560
MAY	979,450	83,580	1,960,930	673,160	3,435,470	102,507	630,453	7,865,550	7.7%	253,727
JUN	1,163,080	85,270	2,111,320	827,450	3,654,370	42,123	699,038	8,582,651	8.4%	286,088
JUL	1,887,081	227,720	2,157,360	1,425,030	4,208,750	64,034	730,079	10,700,054	10.5%	345,163
AUG	2,827,729	284,390	2,761,380	2,072,320	5,553,590	139,076	800,183	14,438,668	14.2%	465,763
SEP	2,207,410	222,810	2,194,420	1,543,250	4,211,890	112,212	579,688	11,071,680	10.9%	369,056
OCT	1,679,380	128,740	2,014,950	1,065,460	2,981,580	41,258	675,971	8,587,339	8.4%	277,011
NOV	1,265,230	97,420	1,931,840	618,010	2,785,370	30,930	557,304	7,286,104	7.1%	242,870
DEC	993,490	89,190	1,717,840	424,420	2,518,610	28,300	604,796	6,376,646	6.3%	205,698
TOTAL	17,845,250	1,576,560	23,462,690	11,324,840	39,375,710	556,653	7,674,030	101,915,733	100.0%	278,458
AVERAGE	1,487,104	131,380	1,955,224	943,737	3,281,309	54,721	639,503	8,492,978	-4,520,267 :LOSS for Year	
% of USE	17.5%	1.5%	23.0%	11.1%	38.6%	0.6%	7.5%	100.0%	106,436,000 :FLOW (User+Loss)	
% of FLOW	16.8%	1.5%	22.0%	10.6%	37.0%	0.6%	7.2%	95.8%	-4.2%	Loss as % of Flow

2021

CLASS:	COM	IND	MFR	P.A	SFR	Special	other uses	TOTAL	% of Use	Avg. Daily Use
JAN	943,778	86,800	1,925,507	421,580	2,857,180	14,797	568,569	6,818,211	11.1%	219,942
FEB	1,019,552	99,720	2,009,594	424,210	2,683,576	14,773	873,443	7,124,868	11.6%	245,685
MAR	1,134,550	88,180	1,663,991	379,770	2,288,939	26,197	689,989	6,271,616	10.2%	202,310
APR	1,530,264	123,740	2,047,854	564,700	2,798,290	22,363	582,096	7,669,307	12.5%	255,644
MAY	1,764,589	144,350	2,245,302	833,740	3,508,804	36,628	991,837	9,525,250	15.5%	307,266
JUN	2,087,531	168,720	2,157,495	1,122,340	4,054,951	40,167	662,526	10,293,730	16.8%	343,124
JUL	2,745,449	219,570	2,503,215	1,917,270	5,527,261	107,125	571,487	13,591,377	22.2%	438,432
AUG							0	0	0.0%	0
SEP							0	0	0.0%	0
OCT							0	0	0.0%	0
NOV							0	0	0.0%	0
DEC							0	0	0.0%	0
TOTAL	11,225,713	931,080	14,552,958	5,663,610	23,719,001	262,050	4,939,947	61,294,359	100.0%	287,767
AVERAGE	1,603,673	133,011	2,078,994	809,087	3,388,429	37,436	411,662	5,107,863	-3,654,641 :LOSS for Year	
% of USE	18.3%	1.5%	23.7%	9.2%	38.7%	0.4%	8.1%	100.0%	64,949,000 :FLOW (User+Loss)	
% of FLOW	17.3%	1.4%	22.4%	8.7%	36.5%	0.4%	7.6%	94.4%	-5.6%	Loss as % of Flow

Net Water Production - 2021

amounts in gallons

	Jan	Feb	Mar	Apr	May	Jun
Gross Production for billing period from WTP Chemical Weights & Finish Flow to Town Report	7,320,000	7,539,000	7,160,000	8,464,000	10,115,000	10,626,000
3% meter loss	187,489	187,543	167,449	212,616	256,002	288,936
Flushing	172,750	555,250	405,350	101,100	208,700	116,850
SJC#3 FD use	5,000	5,000	5,000	5,000	30,400	10,000
Leaks	203,330	125,650	112,190	263,380	496,735	246,740
notes						
other non-metered use						
notes						
Additional water in storage						
notes						
Total other uses	-568,569	-873,443	-689,989	-582,096	-991,837	-662,526
Net production	6,751,431	6,665,557	6,470,011	7,881,904	9,123,163	9,963,474

	Jul	Aug	Sep	Oct	Nov	Dec
Gross Production for billing period from WTP Chemical Weights & Finish Flow to Town Report	13,725,000	0	0	0	0	0
3% meter loss	390,597	0	0	0	0	0
Flushing	42,500					
SJC#3 FD use	5,000					
Leaks	133,390					
notes						
other non-metered use						
notes						
Total other uses	-571,487	0	0	0	0	0
Net production	13,153,513	0	0	0	0	0

Water Consumption & Production

Revised meter loss reporting begin 07/09 (per Robert Krebs, Evergreen Rural Water Assoc.)

Period	USE (consumption)	Cumulative Use YTD	Flow (production)	Unaccounted over / (under)	Cumulative Flow YTD	Average Daily Flow	
2019							
<i>gallons</i>	Jan-19	6,193,133		6,982,000	-788,867		225,226
	Feb-19	7,413,239	13,606,372	7,865,000	-451,761	14,847,000	280,893
	Mar-19	6,065,311	19,671,683	7,468,000	-1,402,689	22,315,000	240,903
	Apr-19	7,852,517	27,524,200	8,604,000	-751,483	30,919,000	286,800
	May-19	8,660,158	36,184,358	9,522,000	-861,842	40,441,000	307,161
	Jun-19	12,028,022	48,212,379	12,495,000	-466,978	52,936,000	416,500
	Jul-19	12,121,969	60,334,348	12,159,000	-37,031	65,095,000	392,226
	Aug-19	13,865,988	74,200,336	13,977,000	-111,012	79,072,000	450,871
	Sep-19	12,170,164	86,370,500	12,723,000	-552,836	91,795,000	424,100
Average	Oct-19	8,415,461	94,785,961	8,868,000	-452,539	100,663,000	286,065
Monthly Use	Nov-19	7,281,193	102,067,154	7,708,000	-426,807	108,371,000	256,933
9,060,242	Dec-19	6,655,754	108,722,907	7,416,000	-760,246	115,787,000	239,226
							-9,750,254
YEAR TOTAL:	12	108,722,907	Cumulative Metered/Other Use YTD	115,787,000	-7,064,093	Cumulative Unaccounted 3% meter loss	317,242 2,989,222
2020							
<i>gallons</i>	Jan-20	6,490,802		6,771,000	-280,198		218,419
	Feb-20	7,358,842	13,849,644	7,991,000	-632,158	14,762,000	285,393
	Mar-20	6,480,584	20,330,228	7,169,000	-688,416	21,931,000	231,258
	Apr-20	6,676,813	27,007,042	6,984,000	-307,187	28,915,000	232,800
	May-20	7,865,550	34,872,592	7,971,000	-105,450	36,886,000	257,129
	Jun-20	8,582,651	43,455,243	9,137,000	-554,349	46,023,000	304,567
	Jul-20	10,700,054	54,155,297	10,903,000	-202,946	56,926,000	351,710
	Aug-20	14,438,668	68,593,965	14,737,000	-298,332	71,663,000	475,387
	Sep-20	11,071,680	79,665,645	11,463,000	-391,320	83,126,000	382,100
Average	Oct-20	8,587,339	88,252,984	8,823,000	-235,661	91,949,000	284,613
Monthly Use	Nov-20	7,286,104	95,539,088	7,733,000	-446,896	99,682,000	257,767
8,492,978	Dec-20	6,376,646	101,915,733	6,754,000	-377,355	106,436,000	217,871
							-4,520,267
YEAR TOTAL:	12	101,915,733	Cumulative Metered/Other Use YTD	106,436,000	-4,520,267	Cumulative Unaccounted 3% meter loss	291,584 2,827,251
2021							
<i>gallons</i>	Jan-21	6,818,211		7,320,000	-501,789		236,129
	Feb-21	7,124,868	13,943,079	7,539,000	-414,132	14,859,000	269,250
	Mar-21	6,271,616	20,214,695	7,160,000	-888,384	22,019,000	230,968
	Apr-21	7,669,307	27,884,002	8,464,000	-794,693	30,483,000	282,133
	May-21	9,525,250	37,409,253	10,115,000	-589,750	40,598,000	326,290
	Jun-21	10,293,730	47,702,983	10,626,000	-332,270	51,224,000	354,200
	Jul-21	13,591,377	61,294,359	13,725,000	-133,623	64,949,000	442,742
	Aug-21	0	61,294,359	0	0	64,949,000	0
	Sep-21	0	61,294,359	0	0	64,949,000	0
Average	Oct-21	0	61,294,359	0	0	64,949,000	0
Monthly Use	Nov-21	0	61,294,359	0	0	64,949,000	0
8,756,337	Dec-21	0	61,294,359	0	0	64,949,000	0
							-3,654,641
YEAR TOTAL:	7	61,294,359	Cumulative Metered/Other Use YTD	64,949,000	-3,654,641	Cumulative Unaccounted 3% meter loss	305,959 1,690,632

3 YEAR AVERAGES:	Use 5,484,428 :gal/month	Flow 9,263,613 :gal/month	Daily Flow 199,181	3 Year Loss as % of Flow 6.24%
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source: Monthly Water Treatment Plant Report & utility.mdb's
 3 yr cumulative flow 287,172,000
 3 yr unaccounted -17,925,161

Utilization of Sustainable Annual Water System Capacity

Period start: Aug-20

Period end: Jul-21

Sustainable Annual Yield (TFH
Comprehensive Water System Plan
Update, June, 2013, page 3-6)

205 million gallons

Annual use - 12 month period
percent of Sustainable Annual Yield

114.5 million gallons
55.8%

Exceeds Sustainable Yield?

No

Trout Lake Reservoir Level

Months with positive levels may reflect that a removable 7.25 inch riser has been added to the top of the original spillway.

end of	Inches above/(below) original spillway	end of	Inches above/(below) original spillway	end of	Inches above/(below) original spillway
Jan-15	0.00	Jan-18	0.00	Jan-21	0.00
Feb-15	0.00	Feb-18	0.00	Feb-21	0.00
Mar-15	0.00	Mar-18	8.75	Mar-21	8.25
Apr-15	6.50	Apr-18	8.25	Apr-21	4.30
May-15	0.00	May-18	1.50	May-21	4.30
Jun-15	-13.00	Jun-18	-10.50	Jun-21	-5.50
Jul-15	-29.50	Jul-18	-29.50	Jul-21	-34.00
Aug-15	-42.25	Aug-18	-42.00	Aug-21	
Sep-15	-49.50	Sep-18	-50.00	Sep-21	
Oct-15	-54.50	Oct-18	-54.50	Oct-21	
Nov-15	-17.25	Nov-18	-55.50	Nov-21	
Dec-15	0.00	Dec-18	-26.00	Dec-21	
Jan-16	0.00	Jan-19	0.00	Jan-22	
Feb-16	0.00	Feb-19	0.00	Feb-22	
Mar-16	0.00	Mar-19	2.75	Mar-22	
Apr-16	6.00	Apr-19	2.75	Apr-22	
May-16	-2.50	May-19	-0.75	May-22	
Jun-16	-11.00	Jun-19	-2.00	Jun-22	
Jul-16	-21.00	Jul-19	-16.00	Jul-22	
Aug-16	-36.50	Aug-19	-26.25	Aug-22	
Sep-16	-49.50	Sep-19	-40.00	Sep-22	
Oct-16	-51.00	Oct-19	-46.25	Oct-22	
Nov-16	-45.50	Nov-19	-49.75	Nov-22	
Dec-16	-10.35	Dec-19	-49.50	Dec-22	
Jan-17	0.00	Jan-20	-11.00	Jan-23	
Feb-17	0.00	Feb-20	0.00	Feb-23	
Mar-17	2.75	Mar-20	0.00	Mar-23	
Apr-17	9.00	Apr-20	4.00	Apr-23	
May-17	4.75	May-20	0.00	May-23	
Jun-17	-4.00	Jun-20	-0.75	Jun-23	
Jul-17	-19.00	Jul-20	-8.50	Jul-23	
Aug-17	-32.00	Aug-20	-22.50	Aug-23	
Sep-17	-43.00	Sep-20	-34.00	Sep-23	
Oct-17	-50.50	Oct-20	-42.50	Oct-23	
Nov-17	-48.00	Nov-20	-45.25	Nov-23	
Dec-17	-11.50	Dec-20	-28.25	Dec-23	

Rainfall - Trout Lake Water Treatment Facility

source: Water Treatment Plant Weather Reports

all figures in inches

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	average (2005-14)
JAN	5.49	6.87	6.51	2.34	3.82	4.73	5.90	3.46	4.14	2.86	4.61
FEB	1.01	1.61	2.83	1.78	1.50	1.24	2.74	3.38	1.32	4.22	2.16
MAR	2.33	0.91	3.70	1.99	2.05	3.30	3.37	3.09	3.63	3.88	2.83
APR	1.37	2.23	1.49	1.32	2.07	1.47	2.96	1.91	2.70	1.94	1.95
MAY	1.08	1.24	0.78	1.26	1.69	2.09	3.07	1.09	2.20	1.05	1.56
JUN	1.63	0.56	1.03	1.16	0.35	1.10	0.68	2.60	0.83	0.52	1.05
JUL	0.70	0.26	1.56	0.21	0.45	0.11	0.84	1.04	0.00	0.36	0.55
AUG	1.60	0.03	0.64	1.88	0.81	0.72	0.29	0.00	0.95	0.49	0.74
SEP	0.94	1.15	0.54	0.84	1.58	4.35	0.72	0.12	5.08	1.34	1.67
OCT	3.50	1.89	2.12	1.83	5.24	1.38	2.29	6.40	1.42	4.00	3.01
NOV	4.28	10.43	2.32	5.15	6.76	2.94	4.50	3.32	2.49	4.00	4.62
DEC	2.89	3.74	4.59	3.70	1.80	6.55	1.88	4.79	2.28	3.37	3.56
Total	26.82	30.92	28.11	23.46	28.12	29.98	29.24	31.20	27.04	28.03	28.29

Cumulative thru

DEC	26.82	30.92	28.11	23.46	28.12	29.98	29.24	31.20	27.04	28.03
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all figures in inches

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
JAN	3.97	2.17	1.60	5.10	3.87	7.32	4.36			
FEB	2.95	4.83	2.99	3.80	1.76	5.34	3.41			
MAR	3.62	2.88	3.27	1.48	0.87	1.25	1.18			
APR	0.51	0.75	2.20	3.10	1.61	1.38	1.12			
MAY	0.30	0.48	1.61	0.07	1.29	1.49	0.40			
JUN	0.14	1.22	0.75	0.72	0.61	1.25	0.69			
JUL	0.36	0.32	0.15	0.18	0.75	0.86	0.00			
AUG	0.94	0.11	0.11	0.01	0.84	0.68				
SEP	1.28	1.40	0.71	1.27	2.74	2.34				
OCT	3.53	4.80	4.28	2.23	3.33	3.39				
NOV	6.19	3.47	4.32	4.32	2.1	4.68				
DEC	5.26	4.02	3.83	4.26	3.63	6.81				
Total	29.05	26.45	25.82	26.54	23.40	36.79	11.16	0.00	0.00	0.00

Cumulative thru

DEC	29.05	26.45	25.82	26.54	23.40	36.79	11.16	0.00	0.00	0.00
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Prevention of Wastewater Facility Overloading

Period start: Jan-20
 Period end: Dec-20

INFLUENT BOD LOADING (pounds per day)	AVG. EFFLUENT FLOW (millions of gallons per day)	SUSPENDED SOLIDS LOADING (pounds per day)
Design Criteria (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.A) max.month 1,600	Design Criteria (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.A) max.month 0.69000	Design Criteria (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.A) max.month 1,110
85% Capacity Planning Threshold (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.B.1) 1,360	85% Capacity Planning Threshold (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.B.1) 0.58650	85% Capacity Planning Threshold (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.B.1) 944
Month with highest average loading in period Jan-19	Month with highest average flow in period Jan-19	Month with highest average loading in period Jan-19
Highest average monthly loading in period (pounds per day) 559	Highest average monthly flow in period (millions of gallons per day) 0.4088414	Highest average monthly loading in period (pounds per day) 488
% of Design Criteria 35%	% of Design Criteria 59%	% of Design Criteria 44%
exceeds Design Criteria? No	exceeds Design Criteria? No	exceeds Design Criteria? No
Previous month's loading 509	Previous month's flow 0.2541	Previous month's loading 319
Following month's loading 524	Following month's flow 0.2799	Following month's loading 245
exceeds Planning Threshold for 3 consecutive months? No	exceeds Planning Threshold for 3 consecutive months? No	exceeds Planning Threshold for 3 consecutive months? No