

FOREST VIEW ACRES JUNE WATER OPERATION'S REPORT

This report will include any and all work and projects during the months of June.

1. Collected *water samples* according to the 2007 Monitor Schedule
2. A new chemical pump was purchased and put on line at the AWP. We have one spare chemical pump presently. The spare pump will be sufficient for feeding chlorine and or KMnO₄ (potassium permanganate).
3. An additional pump was purchase for the surface water plant. It is strictly a polymer pump. The pump was purchased because poly is the primary chemical used for treatment. If we loose either pump, we are unable to treat the plant and stay in the State guidelines for turbidity.
4. Because of the transmission line leak, our project for locating valves was put on hold. Staff started to locate the systems valves this month. The goal is to find as many valves as possible in order to not only save water, but to eliminate shutting down any more people than necessary during a water break.
5. Inspections and curb stop identification is another project are in progress. We know of two residents that have lines after the meter going to a barn or shed what is not being registered. In addition, hydrants are still on the list to be inspected. During the course of the boil order, staff found two hydrants that are in need of fixing
6. The new pump that has been sitting at the SWP to be installed, is the wrong pump. It has been sitting there for years to be installed after the contact line was completed. It is actually the wrong design. The company is no longer in business that FVA's purchased the pump from. I will provide you with the right pump and design that needs to be done if the board decides to go with the larger pump. I recommend that we cover this at the next work session.
7. A weed eater will be purchased for the District so that the water plants will be able to be maintained as per the contract.
8. Backwash repair kits for the surface water plant got underway this month. There are four more left to install. In addition, the filters will be raked and more replacement media ordered for primary filter #3.
9. I would suggest at the next work session to discuss the water plants treatment improvements. This would include for present and future improvements. One issue that comes to mind is that there needs to better control as to running a water plant at demand to maintain the demand. We have two plants that pump under or above the demand. By having a plant that is better apt to keep up with demand, we could eliminate starting up and shutting down plants so often.

**FOREST VIEW ACRES WATER DISTRICT
PRODUCTION REPORT FOR 2007**

ITEM	MEASURE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2007
SURFACE WATER PLANT:														
Effluent	Gallons	1,292,500	1,857,300	1,339,900	1,076,800	1,933,400								7,456,900
Backwash	Gallons	79,500	123,700	217,200	171,600	334,000								926,000
Filler to Waste	Gallons	0	0	0	0	0								0
Combined Backwash & Waste Usage	Gallons	79,500	123,700	217,200	171,600	334,000								926,000
Usage Required for Production	%	6.3%	6.7%	16.2%	15.9%	17.3%								12.5%
Time On-Line	Days	23.0	28.0	29.0	25.0	29.0								134.0
Net Production	Gallons	1,173,000	1,733,600	1,121,700	905,200	1,599,400								6,530,900
Average Flow Rate Per Minute	GPM	85.4	43.0	25.3	26.1	98.3								53.7
Average Flow Rate Per Day	GPD	51,000	61,914	38,679	36,268	55,152								46,591
Percentage of Total Production	%	55.5%	100.0%	62.8%	51.9%	51.6%								72.3%
2006 Effluent	Gallons	2,576,000	2,989,600	2,085,500	2,594,500	2,678,200	1,461,700	1,600,000	964,400	1,000,300	990,400	1,388,900	901,900	13,904,564
Effluent Difference from 2006	%	-105.7%	-59.9%	-55.7%	-140.0%	-38.5%								-80.0%

SARASOE WELLS WATER PLANT:														
Effluent	Gallons	1,021,931	0	699,795	895,625	291,635								2,908,886
Backwash	Gallons	71,890	0	29,377	42,006	46,529								189,802
Wells to Waste	Gallons	8,593	0	6,348	11,324	96,828								125,093
Combined Backwash & Waste Usage	Gallons	80,483	0	35,725	53,330	143,357								313,695
Usage Required for Production	%	7.9%	0.0%	5.1%	6.0%	49.5%								13.7%
Recharge Line Usage @ Booster Station	Gallons	0	0	0	0	0								0
Time Well Pump Online	Days	8.1	0.0	5.3	7.0	3.3								23.7
Time Booster Pump Online	Days	7.4	0.0	5.0	6.5	2.0								21.0
Net Production	Gallons	941,548	0	664,070	842,195	147,278								2,595,191
Average Flow Rate Per Minute	GPM	87.6	0.0	89.1	89.5	50.7								63.9
Average Flow Rate Per Day	GPD	126,466	0.0	131,716	128,925	70,050								92,008
Percentage of Total Production	%	44.5%	0.0%	37.2%	48.2%	8.8%								27.7%
2006 Effluent	Gallons	1,313,300	1,718,800	961,700	70	259,200	1,594,300	2,487,800	2,076,700	1,234,937	1,028,258	534,060	1,145,539	13,904,564
Effluent Difference from 2006	%	-28.5%	-100.0%	-48.9%	-100.0%	-118.1%								-6.2%

TOTAL PRODUCTION:														
Storage Tank Difference	Gallons	-26,415	-21,698	-47,170	3,774	36,793								612,267
Clear Lines Post Repair (Estimate)	Gallons	0	0	0	0	0								0
Effluent	Gallons	2,274,431	1,857,300	2,038,695	1,972,325	2,225,035								10,367,786
Backwash	Gallons	151,190	123,700	246,977	213,606	373,523								1,114,602
Filler to Waste	Gallons	8,593	0	6,348	11,324	96,828								125,093
Combined Backwash & Waste Usage	Gallons	159,783	123,700	253,325	224,930	470,357								1,239,695
Usage Required for Production	%	7.0%	6.7%	12.4%	11.4%	21.5%								11.6%
Net Production	Gallons	2,114,648	1,733,600	1,785,370	1,747,995	1,748,678								9,128,091
Average Flow Rate Per Minute	GPM	48.23	43.00	36.43	38.46	39.11								41.05
Average Flow Rate Per Day	GPD	69,455	61,914	52,458	55,407	56,314								59,110
Production Unaccounted For (Loss)	Gallons	818,531	529,898	606,666	429,721	496,485								2,881,302
Percent Loss	%	38.7%	30.6%	34.0%	24.6%	28.4%								31.3%
2006 Effluent	Gallons	3,689,300	4,688,400	2,447,000	2,564,500	2,937,400	3,956,000	2,688,400	2,441,700	2,285,237	2,013,558	1,922,960	2,047,439	32,986,394
Effluent Difference from 2006	%	-43.9%	-170.4%	-37.0%	-47.9%	-68.2%								-81.5%

REVENUE:														
Residential (includes Wides)	Gallons	1,320,532	1,223,400	1,129,934	1,311,400	1,210,400								6,195,666
Dollars		\$10,638,065	\$9,787,200	\$9,039,477	\$10,491,200	\$9,683,200								\$49,639,133
Neveins Stable Usage	Gallons	2,000	2,000	2,000	2,500	3,000								11,500
Dollars		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								\$0.00
Number of Taps Being Served	Each	284	285	285	285	285								285
Total Service Fee Billed	Dollars	\$9,236,000	\$8,265,000	\$8,265,000	\$8,265,000	\$8,265,000								\$41,296,000
Total Debt Service Fee Billed	Dollars	\$7,384,000	\$7,410,000	\$7,410,000	\$7,410,000	\$7,410,000								\$37,024,000
Total Capital Improvement Fee Billed	Dollars	\$11,928,000	\$11,970,000	\$11,970,000	\$11,970,000	\$11,970,000								\$59,808,000
Total Water Sales	Gallons	1,322,532	1,225,400	1,131,934	1,313,900	1,213,400								6,207,166
Dollars		\$10,638,065	\$9,787,200	\$9,039,477	\$10,491,200	\$9,683,200								\$49,639,133
Average per Gallon Billed	Dollars	\$0.0080	\$0.0080	\$0.0080	\$0.0080	\$0.0080								\$0.0080
Total Fees Billed	Dollars	\$27,548,000	\$27,645,000	\$27,645,000	\$27,645,000	\$27,645,000								\$138,128,000
Grand Total Billing (Usage + Fees)	Dollars	\$38,166,065	\$37,432,200	\$38,684,477	\$39,136,200	\$37,328,200								\$187,871,133
Average Usage Per Tap	Gallons	4,657	4,300	3,972	4,610	4,258								4,359
Average Total Billing Per Tap	Dollars	\$134.46	\$131.94	\$133.81	\$132.72	\$130.98								\$131.96

NOTES:
 *4/1/06 Est Value of Water Rights \$2000-\$12000/AcreFoot
 *4/1/06 Est Usage Allowance per day per person per household per the state is 75 Gallons

JUNE 2007 Operation's Report Forest View Acres

This report will include any and all work and projects during the month of June and July.

1. Bought a weed eater with blade and trimmed up water plants. More work needs to be done on the recovery pond and BPS.
2. All of the backwash cylinders at the SWP have been rebuilt. I believe that they have never been replaced.
3. One of the next projects will be to install 4 inch lines to replace the 1 ½ inch line prior to winter. This should allow more gpm to be treated at the plant. Will have to discuss with the State to convert the backwash to treated raw water for backwashing. Might need an engineer to get involved. This will allow more water to stay in the tank.
4. Working with a firm to come in and mud-jack the floor at the AWP.
5. Work in progress to have tank cleaned. Need to confirm convenience in getting trucks to work.
6. Intake cleaned twice in this time period due to heavy rains. Water is decreasing in the stream.
7. Annual CCR produced per Regulations. Additional test required for the AWP for 2007
8. State needs a Monitoring Plan and Emergency Plan for Forest View Acres. They have on record that the AWP is only operated in Emergencies. The State also needs an updated Inventory of Forest View Acres. This will be something that I will have to provide for them.
9. Valve location project is on going for preparation for Master Map. Goal is to be complete by August 1st.

**FOREST VIEW ACRES WATER DISTRICT
PRODUCTION REPORT FOR 2007**

ITEM	MEASURE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2007
SURFACE WATER PLANT:														
Effluent	Gallons	1,252,500	1,857,300	1,338,900	1,076,800	1,833,400	1,923,300	-	-	-	-	-	-	9,382,200
Backwash	Gallons	79,500	123,700	217,200	171,600	334,000	153,900	0	-	-	-	-	-	1,079,900
Filler to Waste	Gallons	0	0	0	0	0	0	0	-	-	-	-	-	0
Combined Backwash & Waste Usage	Gallons	79,500	123,700	217,200	171,600	334,000	153,900	0	-	-	-	-	-	1,079,900
Usage Required for Production	%	6.3%	6.7%	16.2%	15.9%	17.3%	8.0%	0.0%	-	-	-	-	-	11.7%
Time Online	Days	23.0	28.0	29.0	25.0	29.0	30.0	-	-	-	-	-	-	164.0
Net Production	Gallons	1,173,000	1,733,600	1,121,700	905,200	1,599,400	1,769,400	-	-	-	-	-	-	8,302,300
Average Flow Rate Per Minute	GPM	35.4	43.0	38.6	35.1	45.1	41.0	-	-	-	-	-	-	34.9
Average Flow Rate Per Day	GPD	51,000	61,914	38,679	36,208	55,152	56,980	-	-	-	-	-	-	50,322
Percentage of Total Production	%	55.5%	100.0%	62.8%	61.8%	82.2%	71.7%	-	-	-	-	-	-	70.7%
2006 Effluent	Gallons	2,576,000	2,969,600	2,085,300	2,564,500	2,678,700	1,461,700	180,500	364,400	1,000,300	990,400	1,388,900	901,900	18,181,800
Effluent Difference from 2006	%	-105.7%	-59.9%	-55.7%	-140.0%	-38.5%	-24.0%	-	-	-	-	-	-	-52.6%

ITEM	MEASURE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2007
ARAPAHOE WELL WATER PLANT:														
Effluent	Gallons	1,021,931	0	699,795	895,525	491,635	736,980	-	-	-	-	-	-	3,845,866
Backwash	Gallons	71,690	0	29,377	42,006	45,529	33,384	-	-	-	-	-	-	221,986
Well to Waste	Gallons	8,593	0	6,348	11,324	98,828	5,872	-	-	-	-	-	-	130,965
Combined Backwash & Waste Usage	Gallons	80,283	0	35,725	53,330	144,357	39,256	-	-	-	-	-	-	352,951
Usage Required for Production	%	7.9%	0.0%	5.1%	6.0%	29.4%	5.3%	-	-	-	-	-	-	8.9%
Recharge Line Usage @ Booster Station	Gallons	0	0	0	0	0	0	-	-	-	-	-	-	0
Time Well Pump Online	Days	8.1	0.0	5.3	7.0	3.3	6.9	-	-	-	-	-	-	30.6
Net Production	Gallons	841,648	0	664,070	842,195	347,278	697,724	-	-	-	-	-	-	3,492,915
Average Flow Rate Per Minute	GPM	87.8	0.0	81.5	99.5	119.6	72.2	-	-	-	-	-	-	76.8
Average Flow Rate Per Day	GPD	126,466	0.0	131,716	128,825	172,204	103,944	-	-	-	-	-	-	110,526
Percentage of Total Production	%	44.5%	0.0%	37.2%	48.2%	17.8%	28.3%	-	-	-	-	-	-	29.3%
2006 Effluent	Gallons	1,313,300	1,716,800	361,700	0	259,200	1,994,300	2,487,800	2,076,700	1,284,937	1,028,256	534,060	1,145,539	15,804,594
Effluent Difference from 2006	%	-28.5%	-100.0%	-48.3%	100.0%	-47.3%	-116.3%	-	-	-	-	-	-	-8.2%

ITEM	MEASURE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2007
TOTAL PRODUCTION:														
Storage Tank Difference	Gallons	-28,415	-21,698	-47,170	3,774	36,793	-58,491	-	-	-	-	-	-	754,720
Clear Lines Post Repair (Estimate)	Gallons	0	0	0	0	0	0	-	-	-	-	-	-	0
Effluent	Gallons	2,274,431	1,857,300	2,038,695	1,972,625	2,425,035	2,660,280	-	-	-	-	-	-	13,228,066
Backwash	Gallons	151,190	123,700	246,577	213,606	379,529	187,284	-	-	-	-	-	-	1,301,886
Filler to Waste	Gallons	8,593	0	6,348	11,324	98,828	5,872	-	-	-	-	-	-	130,965
Combined Backwash & Waste Usage	Gallons	159,783	123,700	252,925	224,930	478,357	193,156	-	-	-	-	-	-	1,432,851
Usage Required for Production	%	7.0%	6.7%	12.4%	11.4%	19.7%	7.3%	-	-	-	-	-	-	10.7%
Net Production	Gallons	2,114,648	1,733,600	1,785,770	1,747,395	1,946,676	2,467,124	-	-	-	-	-	-	11,795,215
Average Flow Rate Per Minute	GPM	48.23	43.00	35.43	38.48	43.58	46.67	-	-	-	-	-	-	42.73
Average Flow Rate Per Day	GPD	69,456	61,914	32,458	55,407	62,762	67,201	-	-	-	-	-	-	61,533
Production Unaccounted For (Loss)	Gallons	610,531	529,898	605,968	425,721	695,465	875,119	-	-	-	-	-	-	3,956,417
Percent Loss	%	38.7%	30.8%	34.0%	24.6%	35.8%	35.5%	-	-	-	-	-	-	33.2%
2006 Effluent	Gallons	3,893,300	4,688,400	2,447,000	2,564,500	2,937,400	3,056,900	2,688,400	2,441,100	2,285,237	2,018,658	1,922,960	2,047,439	32,866,394
Effluent Difference from 2006	%	-83.9%	-170.4%	-37.0%	-47.9%	-50.8%	-23.9%	-	-	-	-	-	-	-69.0%

ITEM	MEASURE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2007
REVENUES:														
Residential (includes Wide)	Gallons	1,220,532	1,223,400	1,129,934	1,311,400	1,210,400	1,647,000	-	-	-	-	-	-	7,842,866
	Dollars	\$10,636.06	\$9,787.20	\$9,039.47	\$10,491.20	\$9,683.20	\$13,176.00	-	-	-	-	-	-	\$62,815.13
Neighborhood Usage	Gallons	2,000	2,000	2,000	2,500	3,000	3,000	-	-	-	-	-	-	15,000
	Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	-	-	-	-	-	-	-
Number of Taps Being Served	Each	284	285	285	285	285	282	-	-	-	-	-	-	284
Total Service Fee Billed	Dollars	\$6,236.00	\$6,265.00	\$6,265.00	\$7,410.00	\$6,265.00	\$6,178.00	-	-	-	-	-	-	\$49,474.00
Total Debt Service Fee Billed	Dollars	\$7,384.00	\$7,410.00	\$7,410.00	\$7,410.00	\$7,410.00	\$7,332.00	-	-	-	-	-	-	\$44,356.00
Total Capital Improvement Fee Billed	Dollars	\$11,928.00	\$11,970.00	\$11,970.00	\$11,970.00	\$11,970.00	\$11,844.00	-	-	-	-	-	-	\$71,652.00
Total M&S Sales	Gallons	1,329,532	1,325,400	1,331,934	1,313,900	1,213,400	1,650,500	-	-	-	-	-	-	7,857,666
Total Water Sales	Dollars	\$10,636.06	\$9,787.20	\$9,039.47	\$10,491.20	\$9,683.20	\$13,176.00	-	-	-	-	-	-	\$62,815.13
Average per Gallon Billed	Dollars	\$0.0080	\$0.0080	\$0.0080	\$0.0080	\$0.0080	\$0.0080	-	-	-	-	-	-	\$0.0080
Total Fees Billed	Dollars	\$27,548.00	\$27,645.00	\$27,645.00	\$27,645.00	\$27,645.00	\$27,354.00	-	-	-	-	-	-	\$165,482.00
Grand Total Billing (Usage + Fees)	Dollars	\$38,186.06	\$37,432.20	\$36,684.47	\$39,136.20	\$37,328.20	\$40,530.00	-	-	-	-	-	-	\$225,297.13
Average Usage Per Tap	Gallons	4,657	4,300	3,972	4,610	4,258	5,853	-	-	-	-	-	-	4,609
Average Total Billing Per Tap	Dollars	\$134.46	\$131.34	\$128.72	\$133.81	\$130.98	\$143.72	-	-	-	-	-	-	\$133.84

NOTES:
 *1/1/06 Est Value of Water Rights \$2000-\$12000/AcreFoot
 *4/1/06 Est Usage Allowance per day per person per household per the state is 75 Gallons