

MONTHLY SUMMARY – Eagle Bend Water Supply – August 19, 2013

The Daily Flows Table (thru August 18th) and General Summary Table are attached. With the unusually wet weather in August, the two wells have only operated about 40% of the time while still keeping up with demands. Water use for 2013 is trending to be similar to that for 2010 and 2011, but significantly less (about 75%) than 2012.

We have not drawn any additional water from the ECCV Service Line since mid-July. Usage to date has been about 4½ million gallons which is about 9% of our total water supplied.

ECCV Valve Operation							
Open		Close		Turns	ECCV gpm	Approx. hrs	Approx
Date	Time	Date	Time			Time Open	Gallons
5/29/2013	12:12	6/1/2013	21:20	10?	378	81.1	1,842,051
6/13/2013	12:17	6/17/2013	9:17	10?	387	93.0	2,159,460
7/13/2013	11:22	7/14/2013	9:37	10?	387	22.3	516,645
						Total	4,518,156

I am discussing the monthly service charge for the ECCV Service Line with Pieter Van Ry of Aurora Water. Earlier representations by City staff were that the base monthly charge of approximately \$119 should not apply to the ECCV Service Line. Pieter said that he would investigate the issue and get back with us. Pieter also told me that a letter addressing the District’s concerns about the long term ability to utilize the ECCV Service Line had been mailed to Director Coker.

During the past month there has been two occurrence of the “Input Phase Fault” shut down of the North Well; with manual reset solving the problem without difficulty. Drive parameters are set for maximum variance, this specific alarm requires manual reset, and it is not recommended to disable the alarm - so we will just live with this minor inconvenience.

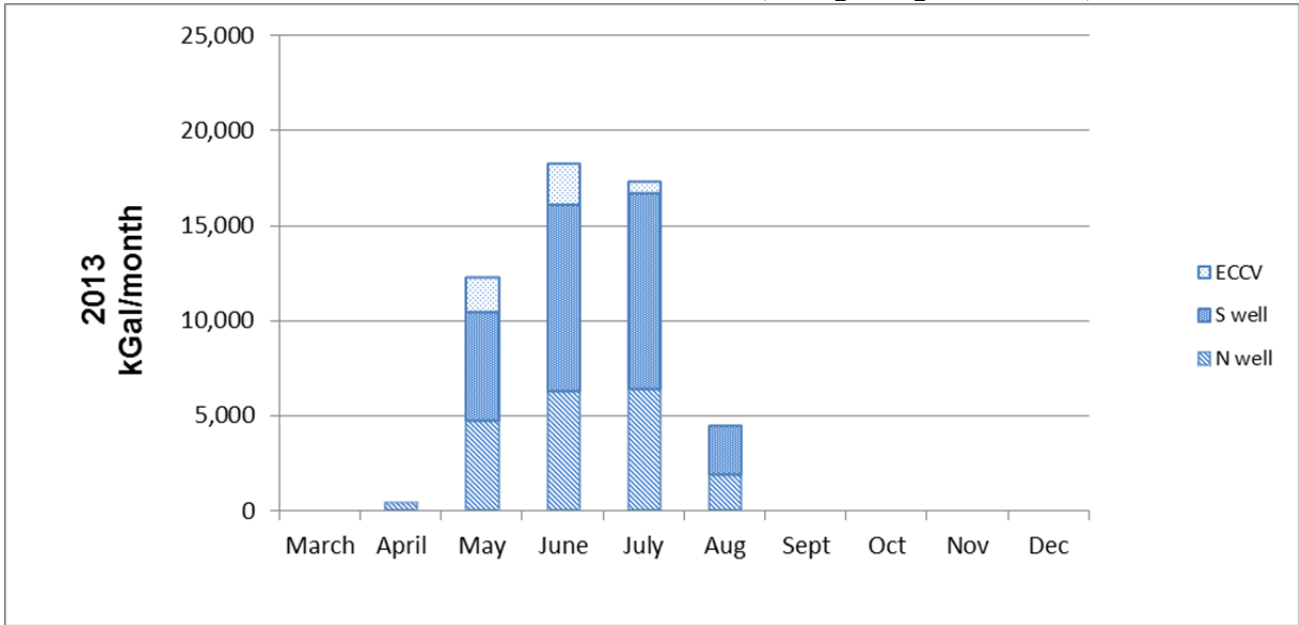
With the lightning and hail on the afternoon of August 12th, there was another failure of the radio telemetry between the South and North Wells. Upon investigation, I found that the surge arrestor for the antenna was blown out (which is what it is supposed to do in the event of a lightning strike). I have obtained a replacement surge arrestor and will install early this week and see if things return to normal. The South Well is currently being operated in the Hand mode. My current invoice includes \$1,590 for a spare set of the radio transmitters.

The cellular alarm dialer for the Filing 9 sump pump was installed by Cross Diamond Electric and placed into service by me after some initial problems with the SIM chip. The dialer will alert me and Roe Sherbert by text message if the water level rises above the high level alarm float switch. I will get the Iphone to Roe later this week. The data logger maintains a history of when the pump starts and stops; with the pump having run continuously since it was placed into service on August 7th. On August 15th the pump was putting out less than 0.25 gallons per minute and a high water level alarm was noted. Bill Hayne is having the pump supplier return to the site (scheduled for Wednesday 8/21) to remedy the pump problem.

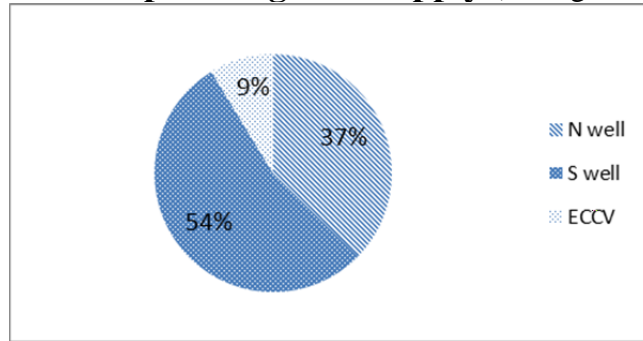
I remain available to discuss any questions. Scott Lehman (303)292-3456 Cell (303)668-9546

<u>Start Date</u>	North Well Flow <u>(gallons)</u>	South Well Flow <u>(gallons)</u>	<u>ECCV (gallons)</u>	<u>Rainfall (inches)</u>	
7/1/2013	258,778	381,905	0	0.06	
7/2/2013	255,881	380,194	0	0.00	
7/3/2013	255,195	380,228	0	0.00	
7/4/2013	253,392	380,196	0	0.00	later meter read by Aurora Water
7/5/2013	253,057	380,212	0	0.01	due to July 4th
7/6/2013	252,974	380,255	0	0.00	
7/7/2013	254,067	380,278	0	0.00	
7/8/2013	254,722	380,171	0	0.00	
7/9/2013	255,074	380,197	0	0.00	
7/10/2013	255,458	380,249	0	0.01	
7/11/2013	255,259	380,114	0	0.02	
7/12/2013	254,712	380,130	0	0.01	
7/13/2013	227,928	343,188	293,300	0.11	
7/14/2013	203,720	320,873	223,300	0.11	
7/15/2013	214,659	339,830	0	0.10	
7/16/2013	0	0	0	0.00	
7/17/2013	8,922	13,068	0	0.00	
7/18/2013	207,700	329,008	0	0.00	
7/19/2013	236,172	375,391	0	0.00	
7/20/2013	233,604	373,241	0	0.00	
7/21/2013	231,952	372,289	0	0.00	
7/22/2013	230,445	372,441	0	0.00	
7/23/2013	228,436	371,431	0	0.00	
7/24/2013	229,371	371,269	0	0.00	
7/25/2013	231,862	371,224	0	0.04	
7/26/2013	231,688	370,006	0	0.00	
7/27/2013	231,057	369,142	0	0.06	
7/28/2013	137,255	274,024	0	0.06	
7/29/2013	177,182	369,309	0	0.01	
7/30/2013	229,961	367,953	0	0.00	
7/31/2013	218,708	351,745	0	0.00	Total gal.
July totals	6,769,191	10,619,561	516,600	0.43	17,905,352
8/1/2013	226,521	367,842	0	0.00	
8/2/2013	225,928	366,054	0	0.04	
8/3/2013	144,983	234,980	0	1.44	
8/4/2013	0	0	0	0.00	
8/5/2013	0	0	0	0.00	
8/6/2013	0	0	0	0.01	
8/7/2013	0	0	0	0.01	
8/8/2013	160,212	0	0	0.20	
8/9/2013	231,725	278,833	0	0.23	
8/10/2013	74,931	95,101	0	0.40	
8/11/2013	158,742	199,785	0	0.00	
8/12/2013	83,461	134,638	0	0.26	
8/13/2013	0	0	0	0.03	
8/14/2013	0	0	0	0.00	
8/15/2013	0	0	0	0.00	
8/16/2013	202,329	139,746	0	0.00	
8/17/2013	195,869	372,641	0	0.00	
8/18/2013	187,882	372,634	0	0.00	Total gal.
August month to date	1,892,583	2,562,253	0	2.62	4,454,836

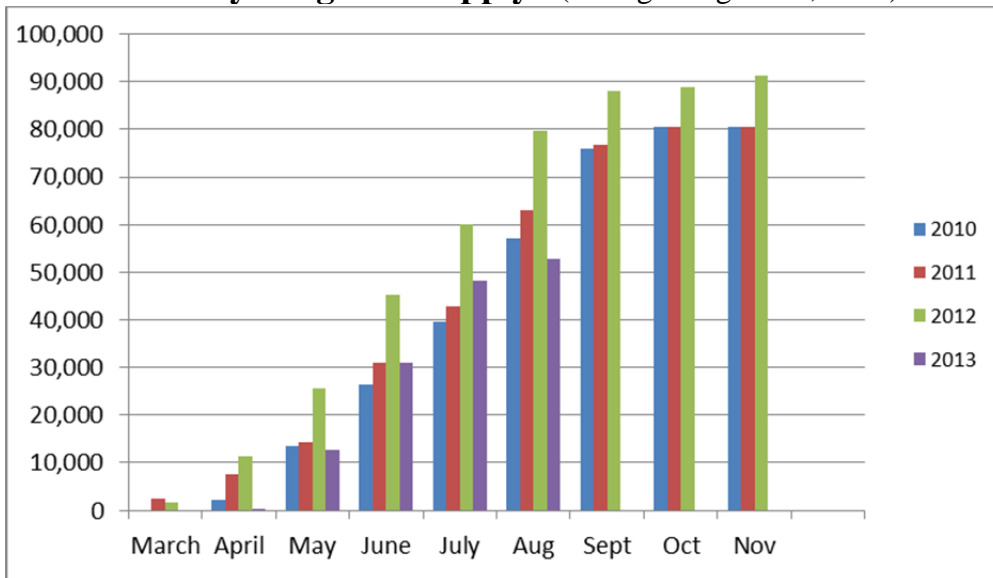
TOTAL IRRIGATION SUPPLY (through August 18, 2013)



Year to date makeup of irrigation supply (through August 18, 2013)



Monthly Irrigation supply (through August 18, 2013)



Partial data - Thru August 18, 2013

Eagle Bend - 2013								
Service Month (nominal)	Initial	March	April	May	June	July	Aug	YTD
Meter Reads								
North Well	101380	0	390	5105	11361	17777	0.01	
South Well	18163	18163	18163	23888	33756	44046		
ECCV	37974	37974	37974	39816	41975	42565		
Aurora Potable	25297	25297	25297	25297	25297	25297		
kgal								
North Well		0	390	4,715	6,256	6,416	1,890	19,667
South Well		0	0	5,725	9,868	10,290	2,560	28,443
ECCV		0	0	1,842	2,159	590	0	4,591
Aurora Potable		0	0	0	0	0	0	0
Total - kgal		0	390	12,282	18,283	17,296	4,450	52,701
Total - af		0.0	1.2	37.7	56.1	53.1	13.7	161.7
COA Billing (2 months)								
North Well	\$0.00	\$0.00	\$163.80	\$1,980.30	\$2,627.52	\$2,694.72		\$7,466.34
South Well	\$0.00	\$0.00	\$0.00	\$2,404.50	\$4,144.56	\$4,321.80		\$10,870.86
ECCV	\$0.00	\$0.00	\$0.00	\$11,936.16	\$13,990.32	\$3,823.20		\$29,749.68
Aurora Potable	\$87.14	\$43.57	\$43.57	\$43.57	\$43.57	\$43.57		\$304.99
Total	\$87.14	\$43.57	\$207.37	\$16,364.53	\$20,805.97	\$10,883.29		\$48,304.73
Xcel Energy Billing (2 months)								
North Well	\$814.33	\$2,409.16	\$2,554.18	\$4,366.01	\$5,425.94			\$15,569.62
South Well	\$1,093.64	\$540.27	\$543.30	\$4,335.04	\$7,173.36			\$13,685.61
Total	\$1,907.97	\$2,949.43	\$3,097.48	\$8,701.05	\$12,599.30	\$0.00		\$27,347.26
Xcel \$/kgal (approx., some time lag)								
North Well			\$6.55	\$0.93	\$0.87	\$0.00		\$0.79
South Well				\$0.76	\$0.73	\$0.00		\$0.48
Combined			\$7.94	\$0.83	\$0.78	\$0.00		\$0.57
HOA Billing	\$22,000.00	\$22,000.00	\$23,006.20	\$53,687.56	\$69,170.14	\$66,623.68		\$256,487.58
Net to District	\$0.00	\$19,007.00	\$19,701.35	\$28,621.98	\$35,764.87	\$55,740.39		\$158,835.59
Credit towards ECCV SL	\$0.00	\$0.00	\$0.00	\$8,012.70	\$9,391.65	\$2,566.50		\$19,970.85