

Saxton, Craig

From: Cooper, Peter
Sent: Friday, September 02, 2011 4:54 PM
To: Saxton, Craig
Cc: Olenichak, Tony
Subject: RE: Avon Wild Pump Information - 01-7126
Attachments: 2005-2010 Avon Wilde Pond Pump Cards.pdf; 2011 Avon Wilde Pond Pump Measurement.pdf; 2011 Avon Wilde Subdivision Pond Pump Measurement.pdf; 2008 Avon Wilde River Pump Measurement.pdf; 2007-2010 Avon Wilde River Pump Diversion Data.pdf; 2005-2010 Avon Wilde River Pump Cards.pdf

Craig-

Here is some information about the Avon Wilde Pumps. Tony is correct, there are 3 pumps that we monitor on the Wilde property: the River Pump, the Pond Pump, and the Subdivision Pond Pump. I have attached an aerial photo with the location of the 3 pumps marked on it. We have been monitoring the River Pump and Pond Pump for a number of years (I am not sure how many as I am new here as of last October, but I can find out if you need to know). A new pump, the Subdivision Pump, was installed in a pond on the Wilde property to water a park in the subdivision. I think the Subdivision Pond pump was installed within the last couple of years but we have only been monitoring it since the start of this irrigation season. I measured the Pond Pump and the Subdivision Pond Pump this year as those are the two pumps he has been using in 2011. Mr. Wilde has not used the River pump in 2011 due to high water. Previous to 2011, the Pond Pump had not been used since May 2006. The River pump has been used back to at least 2005.

I have attached some information for you to hopefully answer all of your questions.

First, I've attached the measurement card we completed for each of the 3 pump measurements. The River Pump was measured in 2008 at a flow rate of 495.6 gpm. The Pond Pump was measured in 2011 at a flow rate of 448.2 gpm. The Subdivision Pond Pump was measured in 2011 at a flow rate of 75.4 gpm (note: this pump is a variable speed pump so it is possible that the pump could pump greater than this amount).

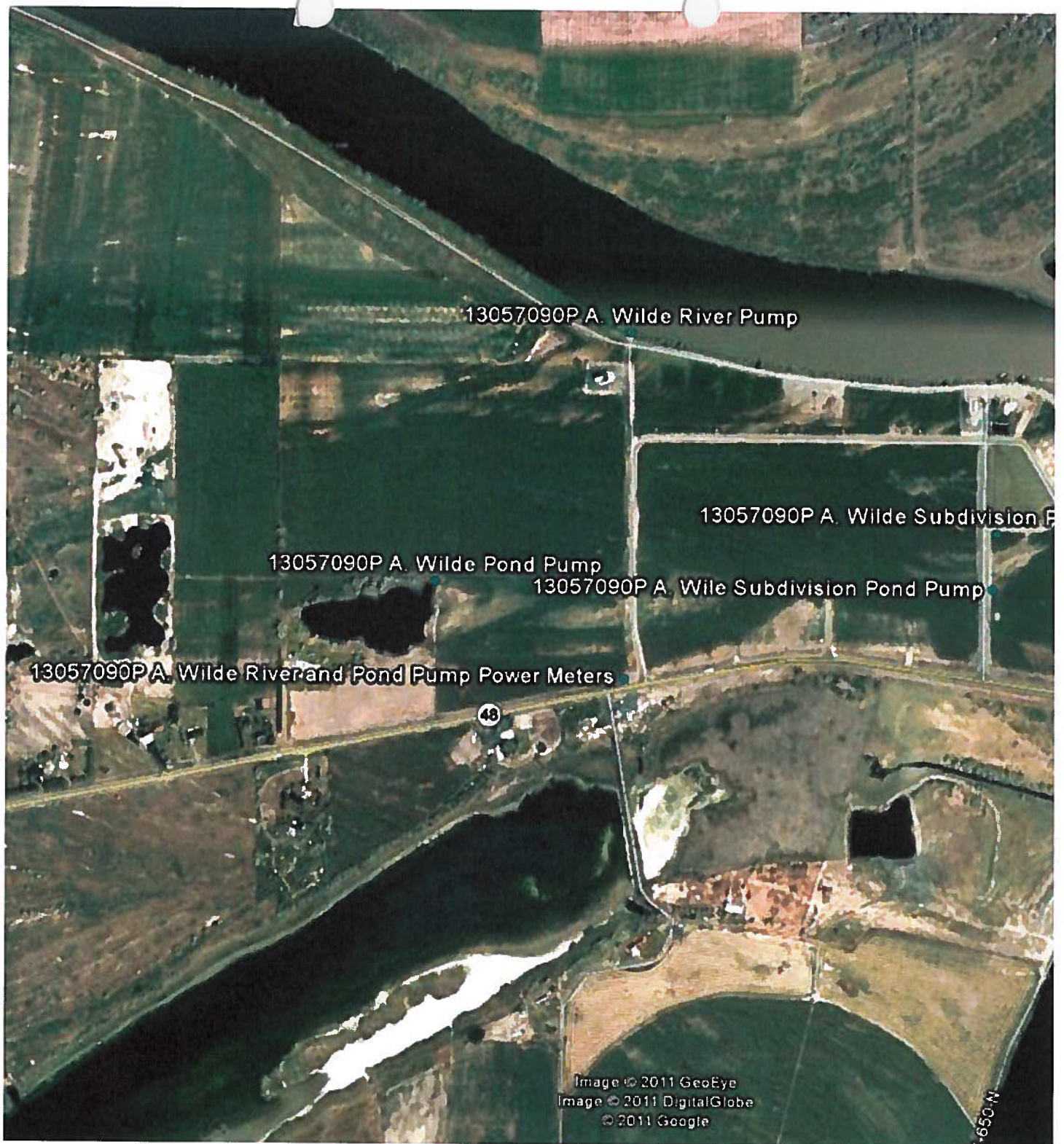
I have also attached the pump cards that we have received from Mr. Wilde detailing the usage of the River Pump and Pond Pump back to 2005.

Finally, I attached the processed data for the River Pump from 2007-2010 (note that some of the sheets say sum of 2 pumps, but only the River Pump was used from 2007-2010). Also note that the cfs values filled out are averaged over an entire day according to how many hours were pumped at a certain flow rate.

I hope this answers your questions. I know we have data going back further, so if this doesn't answer your questions, I can search for it. Let me know if you have questions.

Thanks-

Peter Cooper, PE
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From: Olenichak, Tony
Sent: Friday, September 02, 2011 4:04 PM
To: Saxton, Craig
Cc: Cooper, Peter
Subject: RE: Avon Wild Pump Information - 01-7126

Craig,

Avon Wilde currently has three pumps being monitored by Water District #1. Originally, Avon had only one pump that pumped out of a pond. Many years later he added the pump on the Snake River to irrigate the same ground. I've been told recently he has added a third pump that pumps from another pond nearby. Instead of creating a separate station number for each pump in our water-right accounting, all three pump diversions are summed into the one station 13057090 for Avon Wilde. You are correct, the point for 13057090 in ArcMap is in the wrong location.

It sounds like you need the diversion rates reported and/or measured for each individual pump along with its location. I've asked Peter Cooper to put this information together and forward it to you.

Tony

From: Saxton, Craig
Sent: Friday, September 02, 2011 3:10 PM
To: Olenichak, Tony
Subject: Avon Wild Pump Information - 01-7126

Hey Tony,

I am looking for any information on pump capacity or historic diversion from two points of diversion in the upper snake. I have looked at our website and in our GIS and I don't see that we have any information on these, but thought I would check.

- 1) T5N, R37E, S27, Lot 9. This is a pump directly out of the snake. Name of the guy would be Avon or Cloy Wilde.
- 2) T5N, R37E, S34, NWNW. This is a pump out of a pond that the file says is regulated by WD01 and treated as Snake River water.

I did find one record for A Wilde Pump with site ID number 13057090, but this isn't what I am looking for. This is a different property according to our GIS.

The reason I thought you might have data even though it isn't on the website, is because there is a letter from Avon Wilde where he says, *"The past two years this has been administrated by IDWR in Idaho Falls, and reported on cards each month showing gal used. This was reported to Tony Olenichak"*. But this was written in 1995 so it might not be monitored now.

Anyway, any information you could give me would be helpful. I am trying to issue a license for 01-7126 and I have conflicting data on how much water is diverted by each pump.

Thanks, and have a good weekend.

Later,
Craig

Water District 1 Pump Measurement Record

Diversion # 13057090 Date 6/2008

Name/Owner Wilde (River Pump)

Location of Measurement

Pipe Parameters Carbon Steel Aluminum / Other

Pipe Thickness .132 inches

Pipe Diameter 8.05 inches

Power Meter

kW or kW_{max} 24.03

kh Multiplier

 revs (blinks) / sec

Timer Method 1 kWh / 2 min 40.7 sec

PCC 22.4 kWh/hr

Fuji Meter Measurement

4956 gallons / 10 minutes

Flow Rate 495.6 gpm

Flow Rate 1.10 cfs

(PCC x 12.1 ÷ cfs) Correlation 246.4 kWh/AF

PCC

Water District 1 Pump Measurement Record

Diversion # 57090 Date 7/15/11

Name/Owner Wilde (south) Pond Pump

Location of Measurement Intake pipe

Pipe Parameters Carbon Steel / Aluminum / Other

Pipe Thickness 0.111 inches

Pipe Diameter 8.06 inches

Power Meter

(kW) or kW_{max} 22.398 11:00 11:46:35

kh 21.6 Multiplier 1 11:18 12:38:35

_____ revs (blinks) / _____ sec

Timer Method 18 kWh / 52 min 0 sec

PCC 20.77 kWh/hr

Fuji Meter Measurement

4482.0 gallons / 10 minutes

Flow Rate 448.2 gpm

Flow Rate 1.00 cfs

(PCC x 12.1 ÷ cfs) Correlation 251.3 kWh/AF

Water District 1 Pump Measurement Record

Diversion # 57090 Date 7/21/11

Name/Owner Ann Wilde Subdivision Pump

Location of Measurement Mainline downstream of pump

Pipe Parameters Carbon Steel / Aluminum / Other

Pipe Thickness 0.051 inches 16510 133.40

Pipe Diameter 403 inches 16513 213.20

Power Meter

kW or kW_{max} _____

kh 1.0 Multiplier _____

_____ revs (blinks) / _____ sec

Timer Method 3 kWh / 39 min 40 sec

PCC 4.54 kWh/hr

Fuji Meter Measurement

754 gallons / 10 minutes

Flow Rate 75.4 gpm

Flow Rate 0.17 cfs

(PCC x 12.1 ÷ cfs) Correlation 323.1 kWh/AF

Pumping Daily Values [CFS]

Year: 2007

Name: A Wilde Pump / River Pump

JRC-ok

13057090 B

Date	April / 4	May / 5	Jun / 6	Jul / 7	Aug / 8	Sept / 9	Oct / 10	Nov / 11	
1		0.6		0.7		0.7			1
2		0.6		0.7		0.7			2
3		0.6		0.7		0.7			3
4		0.6		0.7					4
5		0.6		0.7					5
6		0.6		0.7					6
7		0.6		0.7					7
8		0.6		0.7					8
9		0.6		0.7	0.7				9
10		0.6		0.7	0.7				10
11		0.6		0.7	0.7				11
12		0.6		0.7	0.7				12
13		0.6		0.7	0.7				13
14		0.7		0.7	0.7				14
15		0.7		0.7	0.7				15
16		0.7		0.7	0.7				16
17		0.7		0.7	0.7				17
18		0.7		0.7	0.7				18
19		0.7		0.7	0.7				19
20		0.7		0.7	0.7				20
21		0.7		0.7	0.7				21
22		0.7	0.7	0.7	0.7				22
23		0.7	0.7	0.7	0.7				23
24		0.7	0.7		0.7				24
25		0.7	0.7		0.7				25
26		0.7	0.7		0.6				26
27		0.7	0.7		0.6				27
28		0.7	0.7		0.6				28
29		0.7	0.7		0.6				29
30		0.7	0.7		0.6				30
31		0.7			0.6				31
cfs-day	0.0	20.4	6.3	16.1	15.5	2.1	0.0	0.0	
AF	0.0	40.5	12.5	31.9	30.7	4.2	0.0	0.0	

Total AF = 119.8

Total CFS-days = 60.4

Flow Rate	cfs	
PCC	none	KWH/ hr pumping
	Meter kwh	kwh
5/11/2007	68842	0
6/14/2007	77105	8263
7/6/2007	85255	8150
8/15/2007	98609	13354
9/28/2007	108738	10129
10/19/2007	108738	0

Pump cards used. PCC and Flow Rate unknown.

Pumping Daily Values [CFS]

Year: 2008

Name: A Wilde River Pump

Number: 13057090

April / 4	May / 5	Jun / 6	Jul / 7	Aug / 8	Sept / 9	Oct / 10	Date
							1
							2
							3
		0.7	0.6				4
		0.7	0.9				5
		0.7	1.1				6
		0.7	1.1				7
		0.7	1.1				8
		0.7	0.9				9
		0.7	0.8				10
		0.7	0.8				11
		0.7	1.1	1.1			12
		0.7	1.1	1.1			13
		1.1	1.1	1.1			14
		1.1	1.1	1.0			15
		1.1	1.1	1.0			16
		0.7	1.1	1.1			17
		0.7	1.1	1.1			18
		0.7	1.0	1.0			19
		1.1	1.1	1.1			20
	0.6	1.1	1.0	1.0			21
	0.6		1.1	1.0			22
	0.6		1.1	1.1			23
	0.6		1.1				24
	0.6		1.1				25
	0.6		1.0	1.1			26
	0.6		1.1	1.1			27
	0.6						28
	0.6						29
	0.6						30
0.0	6.6	14.6	24.6	14.9	0.0	0.0	31
0.0	13.1	29.0	48.8	29.6	0.0	0.0	

Total AF =	120.4	Total CFS-days =		60.7		
Flow Rate	1.1 cfs					
PCC	22.4 kWh/ hr pumping					
	Pwr Mtr	KWh	hrs	AF Pumped	days	Ave CFS
5/21/2008	13438					
6/1/2008	16586	3148	140.5	12.78	11	0.586
6/20/2008	23294	6708	299.5	27.22	19	0.722
7/1/2008	24293	999	44.6	4.05	11	0.186
7/21/2008	33763	9470	422.8	38.43	20	0.969
8/1/2008	37001	3238	144.6	13.14	11	0.602
8/25/2008	43864	6863	306.4	27.85	24	0.585
10/3/2008	44791	927	41.4	3.76	39	0.049
10/23/2008	44791	0	0.0	0.00	20	0.000
				127.25		

Pumping Daily values [CFS]

Year: 2009

Name: A Wilde (Sum of 2 pumps)

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Number: 13057090

Date	April / 4	May / 5	Jun / 6	Jul / 7	Aug / 8	Sept / 9	Oct / 10	Date
1			1.1		1.1			1
2			1.1		1.1			2
3					0.9	1.1		3
4					0.9	1.1		4
5					0.9	1.1		5
6					0.9			6
7					0.9			7
8					0.9			8
9			0.8					9
10			0.8					10
11			0.8					11
12								12
13								13
14				0.8				14
15				0.8				15
16		1.1		0.8				16
17		1.1		0.8				17
18		1.1		0.9				18
19		1.0		1.1				19
20		1.1		1.1				20
21		1.1		1.1				21
22		1.1		0.4				22
23		1.1		0.9				23
24		1.1		0.9				24
25		1.1						25
26		1.1						26
27		1.1						27
28		1.1		0.9				28
29		1.1		0.9				29
30		1.1		1.1				30
31		1.1		1.1				31
cfs-day	0.0	17.5	4.6	13.6	7.6	3.3	0.0	
AF	0.0	34.7	9.1	27.0	15.1	6.5	0.0	

Total AF =

92.4

Total CFS-days =

46.6

2008 Flow Rate

1.1 cfs

2008 PCC

22.4 kWh/ hr pumping

	Pwr Mtr	KWh	hrs	AF Pumped	days	Ave CFS
5/15/2009	44791					
6/1/2009	54313	9522	425.1	38.65	17	1.146
6/15/2009	56195	1882	84.0	7.64	14	0.275
7/1/2009	56195	0	0.0	0.00	16	0.000
7/9/2009	56195	0	0.0	0.00	8	0.000
8/1/2009	64090	7895	352.5	32.04	23	0.702
8/11/2009	67470	3380	150.9	13.72	10	0.692
9/1/2009	67470	0	0.0	0.00	21	0.000
9/23/2009	69166	1696	75.7	6.88	22	0.158

Pond pump not used in 2009.

98.93

Pump cards used for hours pumped. 2008 measurement used for flow rate.

Pumping Daily values [CFS]

Year: 2010

Name: A Wilde (Sum of 2 pumps)

PZC-ok

Number: 13057090

Date	April / 4	May / 5	Jun / 6	Jul / 7	Aug / 8	Sept / 9	Oct / 10	Date
1				0.7				1
2				0.7				2
3				0.7				3
4				0.7				4
5				0.4				5
6				0.7				6
7				0.7				7
8				0.7				8
9				0.7				9
10				0.7				10
11				0.2				11
12								12
13								13
14								14
15								15
16								16
17								17
18				0.2				18
19			0.7					19
20			0.7	0.4				20
21			0.7	0.7				21
22			0.7	0.7				22
23		0.4	0.7	0.7				23
24		0.3	0.6					24
25		0.3	0.7					25
26		0.4						26
27		0.3				0.7		27
28		0.4				0.7		28
29			0.4			0.7		29
30			0.7			0.5		30
31								31
cfs-day	0.0	2.1	5.9	9.6	0.0	2.6	0.0	
AF	0.0	4.2	11.7	19.0	0.0	5.2	0.0	

Total AF = 40.1

Total CFS-days = 20.2

2008 Flow Rate

1.1 cfs

2008 PCC

22.4 kWh/ hr pumping

		Pwr Mtr	KWh	hrs	AF Pumped	days	Ave CFS
IDWR	10/26/2009	69166					
	5/23/2010	69166					
	6/1/2010	70814	1648	73.6	6.69	9	0.375
IDWR	6/8/2010	Locked Gate					
	7/1/2010	76303	5489	245.0	22.28	30	0.374
	8/1/2010	83190	6887	307.5	27.95	31	0.455
	9/1/2010	83190	0	0.0	0.00	31	0.000
	10/1/2010	85383	2193	97.9	8.90	30	0.150
65.82							

Pond pump not used in 2010 according to Pump Cards.

No power readings taken by IDWR staff on River or Pond Pump in 2010 because of locked gates.

Power meter readings taken from Pump Cards

Pump cards used for hours pumped and flow rate.

