



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

October 8, 2013

NORTHWEST FARM CREDIT SERVICES FLCA
1408 POMERELLE AVE STE B
BURLEY ID 83318

WEBB BASIN DAIRY
406 N HISAW LN
AMERICAN FALLS ID 83211

RE: License No. 43-7306

Issuance of License

Dear Water Right Holder(s):

The Department of Water Resources has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review the conditions of approval and remarks listed on your license.

The license is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

Please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions.

If you have any questions, please contact me at 208-287-4916.

Sincerely,

Craig L. Saxton
Water Rights Supervisor

Enclosure(s)

CERTIFICATE OF SERVICE

I hereby certify that on October 8, 2013, I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER (Approved License) to the person(s) listed below:

RE: WATER RIGHT NO. 43-7306

**NORTHWEST FARM CREDIT SERVICES FLCA
1408 POMERELLE AVE STE B
BURLEY ID 83318**

**WEBB BASIN DAIRY
406 N HISAW LN
AMERICAN FALLS ID 83211**



**Darla Block
Technical Records Specialist**

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was not held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) The petition for reconsideration is disposed of; or
- (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 43-07306

Priority: September 17, 1990

Maximum Diversion Rate: 0.30 CFS
Maximum Diversion Volume: 88.8 AF

It is hereby certified that NORTHWEST FARM CREDIT SERVICES FLCA
1408 POMERELLE AVE STE B
BURLEY ID 83318

And

WEBB BASIN DAIRY
406 N HISAW LN
AMERICAN FALLS ID 83211

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated August 28, 1990; and has submitted Proof of Beneficial Use on June 21, 1994. An examination confirms water is diverted from:

SOURCE

GROUND WATER

and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL DIVERSION VOLUME</u>
COMMERCIAL	01/01 to 12/31	0.30 CFS	61.6 AF
STOCKWATER	01/01 to 12/31	0.30 CFS	61.6 AF
DOMESTIC	01/01 to 12/31	0.11 CFS	7.2 AF
IRRIGATION	03/15 to 11/15	0.15 CFS	20.0 AF

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW1/4NW1/4 Sec. 35, Twp 09S, Rge 27E, B.M. CASSIA County
GROUND WATER SE1/4SW1/4 Sec. 35, Twp 09S, Rge 27E, B.M. CASSIA County

PLACE OF USE: COMMERCIAL AND STOCKWATER

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
09S 27E 35							X				X						

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
09S 27E 35							X					X					

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 43-07306

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
09S 27E 35	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	5.0
							1.5					3.5					

Total Acres: 5

CONDITIONS OF APPROVAL

1. Commercial use is for a dairy.
2. Domestic use is for 6 homes. Irrigation of lawn, garden and landscaping associated with the home is authorized under the irrigation component of this right.
3. This right is for the use of trust water and is subject to review 20 years after the issuance of the permit to determine availability of water and to re-evaluate the public interest.
4. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversions.
5. Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 130.
6. This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
7. Right 43-7287 is also diverted through the points of diversion described above.
8. Rights 43-7287 and 43-7306 when combined shall not exceed a total diversion rate of 0.30 cfs.

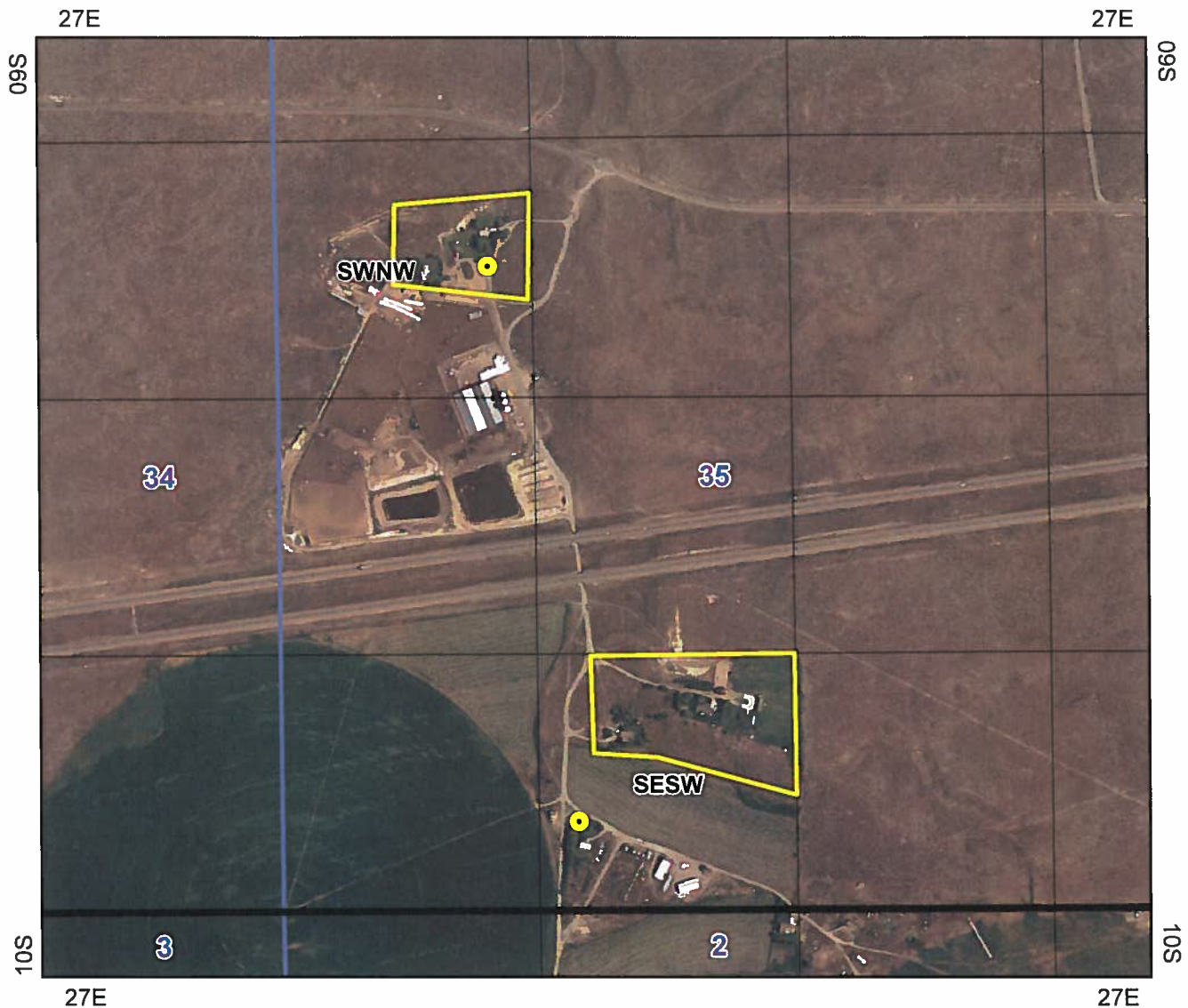
This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 7th day of October, 2013.


for GARY SPACKMAN
Director

State of Idaho
Department of Water Resources
Attachment To Water Right License
43-7306

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.1 0.2 0.4 Miles



State of Idaho
Department of Water Resources

Attachment To Water Right License

43-7306

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



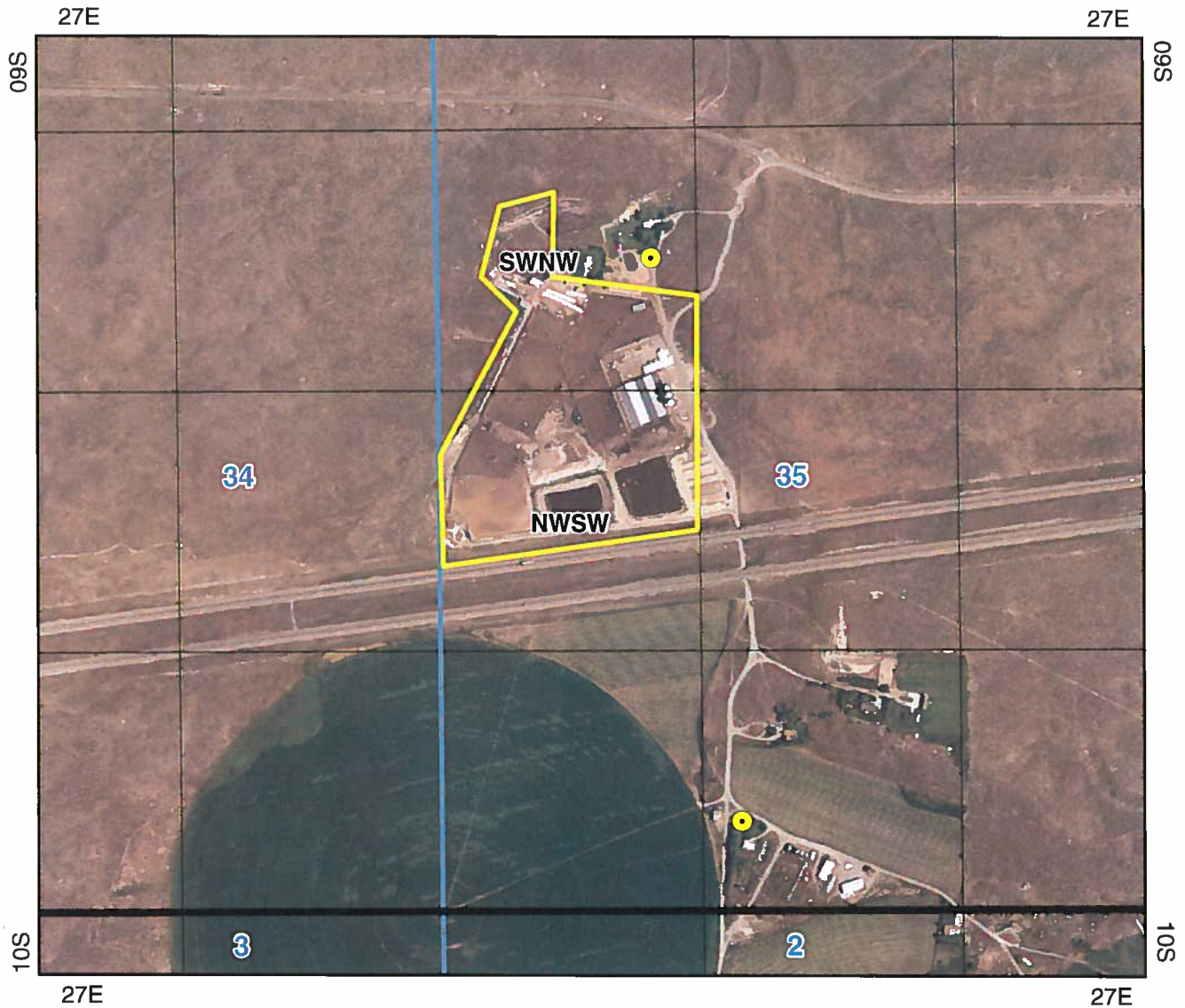
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.1 0.2 0.4 Miles



State of Idaho
Department of Water Resources
Attachment To Water Right License
43-7306

This map depicts the COMMERCIAL AND STOCKWATER place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.1 0.2 0.4 Miles



MEMORANDUM

TO: File 43-7306

FROM: Daniel Nelson – Staff Hydrologist

DATE: October 4, 2013

SUBJECT: Licensing Review

I have been asked to review water right 43-7306 for licensing purposes. During my review of this water right I found a couple of issues that need to be addressed. I will discuss each issue separately below:

Dairy Volume:

The field examiner found a total commercial and stockwater volume of 45.7 acre feet. After reviewing the file, I was concerned that many of the standard water uses for a dairy were not accounted for. So I contacted the owner of the dairy and discussed the amounts of water they use for their dairy. I then reworked the dairy worksheet and discovered that 49.7 acre feet of stockwater and 12 acre feet of commercial water are used for this dairy for a total commercial and stockwater volume of 61.6 acre feet. This water right also supplies water for the irrigation of 5 acres, and domestic use 6 homes. I agree with the volumes calculated by the field examiner for the domestic and irrigation uses. The total water use for this water right according to my calculations was 88.8 acre feet. The field examiner came up with a total volume of 72.9 acre feet.

There is an overlapping water right, 43-7287 that uses another 7.8 acre feet of water out of this system for 3 different homes and 1.5 acres of irrigation. When the two water rights are combined, my volume calculations came to a total of 96.6 acre feet, and the field examiner's volume came to 80.7 acre feet. Review of the WMIS data on this system shows a high annual volume of 110 acre feet, and an average volume of 90.82 acre feet. WMIS data shows that the meter was broken in 2011, a good reading was taken in 2007 with 96.69 annual acre feet reported, a broken meter in 2004 and 2005, and good readings were taken in 2000 and 2001 with 77.94 and 100.03 annual acre feet reported.

When considering the WMIS information, the calculations that I calculated very closely matches the 2007 readings and the average readings, so I am recommending we license this water right for 61.6 acre feet for stockwater, 61.6 acre feet for commercial, 7.2 acre feet for domestic, and 20 acre feet for irrigation for a total of 88.8 acre feet. No combined volume limitation will be necessary, since the volumes for water right 43-7287 and 43-7306 should be considered additive

Overlap:

The shape file for the irrigation water rights, 43-13229, 43-13231, 43-13235, and 43-13233 overlap the irrigation place of use for House 4. These rights are out of the irrigation well that irrigates the surrounding fields. The field examiner states that this property is actually irrigated out of the domestic system and doesn't discuss any overlapping water rights. The lawns irrigated around House 1, House 2, House 3, House 5 and House 6 have enough irrigated lawn to cover the irrigation limit of 5 acres associated with this water right. Water right 43-7287 covers the lawn irrigation of House 7, House 8, and House 9. Therefore, I did not include the irrigation of House 4 in this water right, since it is already covered under water rights 43-13229, 43-13231, 43-13235, and 43-13233.

Diversion Rate Calculation:

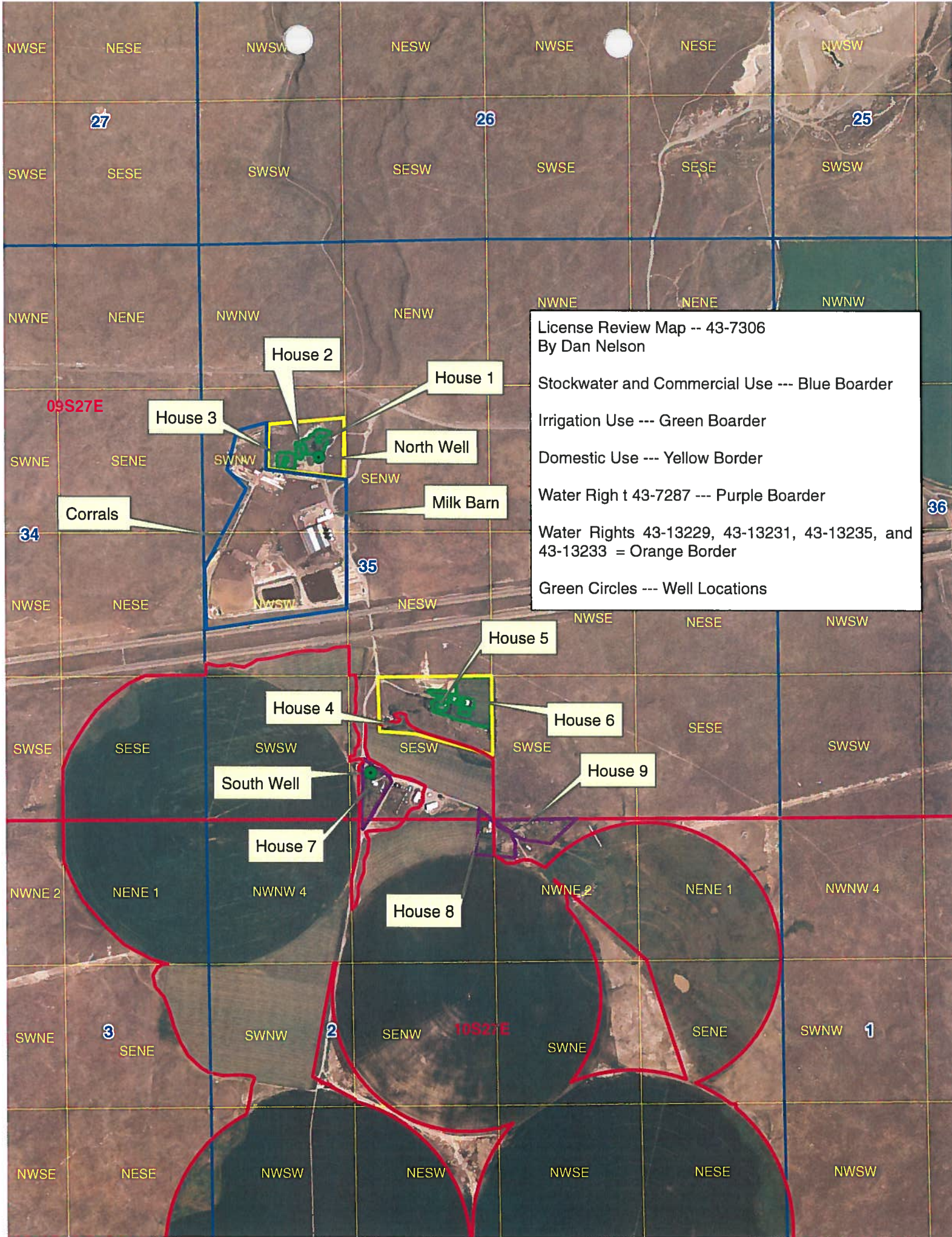
The field examiner for this water right only measured one of the wells associated with this system and then used the licensed capacity of the other well as determined in water right 43-7287 to determine the flow rate of the second well. The field examiner came up with a total diversion rate of 0.23 cfs. My review of the WMIS data shows measurements on these two wells indicate a combined well capacity of 0.30 cfs. The field examiner should have used an actual measurement rather than using the amount licensed on the other water right to determine the diversion rate. Therefore, I am recommending that this permit be licensed for 0.15 cfs for irrigation (based on 0.03 cfs per acre for 5 acres), 0.11 cfs for domestic (based on standards found in Field Examiner's Handbook --- see attached sheet), and 0.30 cfs for the commercial and stockwater uses (the dairy spreadsheet shows that to supply the needs of the dairy within a 2 hour period, which is the standard for dairy uses, the dairy would require a diversion rate of 0.92 cfs --- see attached dairy sheet). A combined limitation of the cfs will be needed, since the diversion rate for this water right and water right 43-7287 are not additive. When combined 43-7306 and 43-7287 should be limited to 0.30 cfs.

Conditions:

Conditions 051, 052, 26A, and the stockwater numbers condition were not carried over to licensing. Condition 053 was replaced with 132, condition 051 was replaced with R55, and condition 01C was replaced with condition R43. Condition R68, R05, X35, and X36 were added to the license. These points of diversion are located in Water District 130.

ArcMap Shape Files:

No ArcMap files or quality maps were supplied to create the shape files. I did the best that I could using the information in the file and the aerial photography. It appears as though a small portion of a feed area or calving huts area spreads into NESW of Section 35, Township 9S, Range 27E. This land is owned by BLM, so I did not include it in the shape file for this water right. If they are calving huts, all of the water and milk is generally mixed and measured at a feed barn or shop and delivered to the huts. I used the GPSed data points in WMIS for the points of diversion. Please see the attached map for additional information.



VOLUME COMPARISON WATER RIGHT 43-7306

Original Field Exam Volume Amounts:

Stockwater = 38.7 af

Commercial = 7 af

Domestic = 7.2 af

Irrigation = 20 af

Total = 72.9 af

Existing overlapping water right 43-7287 = 7.8 af

Total from wells = 72.9 af + 7.8 af = 80.7 af

Licensing Calculations:

Stockwater = 49.6 af

Commercial = 12 af

Domestic = 7.2 af

Irrigation = 20 af

Total = 88.8 af

Existing overlapping water right 43-7287 = 7.8 af

Total from wells = 88.8 af + 7.8 af = 96.6 af

WMIS Data:

High Volume = 110 af (2001)

Average Volume = 90.8 (I only used year where data seemed reasonable)

2007 = 96.69 af (This year is representative of the flows calculated by the spreadsheet.)

Please Note: I contacted Cindy Yenter, watermaster of 130, concerning the WMIS data and she wasn't confident in the volume amounts supplied in that database. She told me that she could support any volume amount recommended using the WMIS or the spreadsheets.

Recommendation:

The field exam data was missing many water uses common with a dairy, and did not make sense. I recommend that the calculations that I compiled be used. I recommend that we use the 88.8 acre feet calculated in the licensing review.

DAILY FRESH WATER REQUIREMENT FOR DAIRY FACILITY

Date: August 23, 2013
 Water Right Number: 43-7306
 Water Right Holder: Webb Basin Dairy
 Prepared By: DANIEL A NELSON



STOCKWATER REQUIREMENTS

Animal Type	Number	GPD/head	Total GPD	Total AFA	GPM if Diverted in 2 Hrs.	CFS if Diverted in 2 Hrs.
MILKING/LACTATING COWS	787.00	35.00	27,545.00	30.85	230	0.511
DRY COWS	860.00	17.00	14,620.00	16.38	122	0.271
HEIFERS/REPLACEMENT	180.00	12.00	2,160.00	2.42	18	0.040
YOUNG STOCK	40.00	4.00	160.00	0.18	1	0.003
TOTAL =			44,485	49.7	371	0.83

Stockwater Annual Volume Needed in AF =	49.7 AF
Stockwater Diversion Rate Needed in CFS =	0.83 CFS

COMMERCIAL RATE & VOLUME REQUIREMENT

Wash Pen Requirements

GPM Per Nozzle	Number of Nozzles	Total Gpm	Minutes per Day used	Total GPD	Total AFA
0.00	0.00	0	0.00	0	0.0

Milking Parlor Requirements

Item	Gals/ Operation	Times/Day	Total GPD	Total AFA	GPM if Diverted in 2 Hrs.	CFS if Diverted in 2 Hrs.
BULK TANK (3 TANKS 1 @ 200 GAL AND 2 @ 120 GAL)	440.00	1.00	440.00	0.49	4	0.008
COW PREP (18 GALLONS MIXED WITH IODINE)	18.00	1.00	18.00	0.02	0	0.000
PIPELINES (APPROXIMATELY 17 GPM EVERY 15 MINUTES BETWEEN 22 AND 24 HOURS PER DAY)	1,600.00	1.00	1,600.00	1.79	13	0.030
PARLOR CLEANUP	300.00	3.00	900.00	1.01	8	0.017
WASHPEN CLEANUP	0.00	0.00	0.00	0.00	0	0.000
PLATE COOLER (1500 GALLONS PER MILKING)	1,500.00	3.00	4,500.00	5.04	38	0.084
PIPE FLUSHING	287.00	3.00	861.00	0.96	7	0.016
Total Milking Parlor Use				9.32	25	0.05

MISCELLANEOUS USES

Item	Gal/ Operation	Times/Day	Total GPD	Total AFA	Gpm if diverted in 2 hrs.	CFS if Diverted in 2 Hrs.
TOWEL WASHING	0.00	0.00	0.00	0.00	0	0.000
# of EMPLOYEES	12.00		0.00	0.00	0	0.000
SHOWERS & RESTROOMS (Fixtures)	12.00	30.00	360.00	0.40	3	0.007
MAINTENANCE SHOP	2,000.00	1.00	2,000.00	2.24	17	0.037
<other>			0.00	0.00	0	0.000
<other>			0.00	0.00	0	0.000
TOTAL MISCELLANEOUS USES			2,360.00	2.64	20	0.04

Commercial Diversion Rate Required if Diverted in 2 Hrs. in CFS =	0.10 CFS
Commercial Annual Volume Required in AF =	12.0 AF

Stockwater Volume Requirement in AF =	49.7
Commercial Annual Volume Requirement in AF =	12.0
TOTAL VOLUME REQUIRED =	61.6

Stockwater Diversion Rate Requirement in CFS =	0.83
Commercial Diversion Rate Requirement in CFS =	0.10
TOTAL DIVERSION RATE REQUIRED =	0.92

WMIS site Tag Records A0002921

Report Year	Alternate	FM	PCC	Time Clock
2012		0		
2011		0		
2010		0		
2009		21.18		
2008		30.92		
2007		33.78		
2006		33.08		
2005		4.31		
2004				
2003		22.06		
2002		19		
2001		31.22		
2000		17.7		
1999		14.46		
1998		0		
1997				

Tag Records A0002917

Report Year	Alternate	FM	PCC	Time Clock
2012		1.12		
2011		1.66		
2010		30.97		
2009		40.11		
2008		51		
2007		62.91		
2006		67.35		
2005		8.23		
2004				
2003		84.4		
2002		72.8		
2001		78.81		
2000		60.24		
1999		17		
1998		3.6		
1997				

Combined volumes	
2012	1.12
2011	1.66
2010	30.97
2009	61.29
2008	81.92
2007	96.69
2006	100.43
2005	12.54
2004	0
2003	106.46
2002	91.8
2001	110.03
2000	77.94
1999	31.46
1998	3.6
1997	0

Average of
Years it is
Assumed the
meter is
working. Years
used highlighted
in yellow
Average = 90.8

Highest volume use is
2001 for 110 af

Flow Meter Calibrations

You are viewing 401803; A0002917			
Report Year	Visit Date	Examiner	Reason for Visit
2011	4/19/2011	CYENTER	Flowmeter Calibration
Comments			
On this visit a software upgrade was installed in the Badger flowmeter. The Detect Factor, Full Scale flow and low flow cutoff values were also adjusted. See file for details. The meter totalizer was RESET TO ZERO as required after the upgrade. An accuracy test was performed prior to the upgrade so that existing data could be adjusted. However we could not obtain a second test after the upgrade, and suspect buildup on the inside of the pipe was interfering with polysonic readings. This meter should be operating within 1 percent, so calibration factor on this meter is assumed to be 1.0 until a test may be made.			

Flow Meter Calibrations

You are viewing 401804; A0002921			
Report Year	Visit Date	Examiner	Reason for Visit
2011	1/4/2011	CKNOWLES	Flowmeter Calibration
Comments			
Work was completed at the time of the end of year audit and meter was found to be not working. Settings were changed and the meter took right off and worked. The detect factor for this flow tube is 74.2 but was changed after ultrasonic measurements determined the meters were off by 12 percent. The new Detect Factor is different than the previous measurements due possibly to new piping configurations and a newer pump in the well. The software version is way behind and Badger is sending new upgrades in the mail to IDWR for any Primo unit that is found to be not working. CRK 1.5.11			
Report Year	Visit Date	Examiner	Reason for Visit
2000	11/28/2000	CKNOWLES	Flowmeter Calibration
Comments			
This well is located south of the freeway and out of the aquifer but is tied into the dairy well north of the freeway and in the aquifer. Pump service installed all three of the meters and all three installations are poor. I feel that the meter (McCrometer) has compensated (at this site) for the poor installation and is sufficient for the district requirements.			

Calibration Date/Time:	04/20/2011	Factor:	1
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	0	Standard Meter Flow:	0
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	STEEL
Volume Multiplier:	1	Outside Diameter (inches):	0
Volume Unit:	GAL	Wall Thickness (inches):	0
Location:		Downstream Distance (feet):	0
Comments:		Upstream Distance (feet):	0
Meter totalizer RESET TO ZERO after software upgrade. Test was not possible (see site visit), but this meter should be within 1 percent accurate. This factor to be applied to all data after 4.19.11. cy		Calibration Confidence:	
Installed Meter Information:			
Manufacturer:	BADGER	Installation Date:	11/1/2005
Model Number:	PRIMO	Serial Number:	5.0312E+13
Meter Type:	MAGNETIC, FULL PROFILE	Other Well:	

Calibration Date/Time:	01/04/2011	Factor:	0.97
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	49.7	Standard Meter Flow:	48.44
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	STEEL
Volume Multiplier:	1	Outside Diameter (inches):	2.38
Volume Unit:	GAL	Wall Thickness (inches):	0.17
Location:		Downstream Distance (feet):	0.5
Comments:		Upstream Distance (feet):	2.5
Meter was not working at the time of IDWR audit, corrections were made to the amplifier and the meter works great now. Detect Factor changed from 74.2 to 83.15 due to new piping configuration changes made in Nov. 2010 CRK 1.5.11 Software upgrade done on 1.13.11 and DF changed back to 74.2. Totalizer reset at this time volume was recorded at 520,818 gallons. CRK 1.19.11		Calibration Confidence:	
Installed Meter Information:			
Manufacturer:	BADGER	Installation Date:	11/1/2005
Model Number:	PRIMO	Serial Number:	5.0312E+13
Meter Type:	MAGNETIC, FULL PROFILE	Other Well:	

Measurement
Done
on both
wells
in 2011

+ 85.9 GPM Well A0002917
+ 48.4 GPM Well A0002921
= 134.3 GPM / 448.8 = 0.30 CFS.

Calibration Date/Time:	04/19/2011	Factor:	1.02
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	84	Standard Meter Flow:	85.9
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	STEEL
Volume Multiplier:	1	Outside Diameter (inches):	2.38
Volume Unit:	GAL	Wall Thickness (inches):	0.15
Location:		Downstream Distance (feet):	1.5
Comments:		Upstream Distance (feet):	2.5
This test was taken prior to meter adjustment and software upgrade. Factor to be applied ONLY to data prior to 4.19.11 cy		Calibration Confidence:	
Installed Meter Information:			
Manufacturer:	BADGER	Installation Date:	11/1/2005
Model Number:	PRIMO	Serial Number:	5.0312E+13
Meter Type:	MAGNETIC, FULL PROFILE	Other Well:	

Calibration Date/Time:	09/26/2007	Factor:	1.04
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	51.9	Standard Meter Flow:	53.8
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	CARBON STEEL
Volume Multiplier:	1	Outside Diameter (inches):	2.38
Volume Unit:	GAL	Wall Thickness (inches):	0.15
Location:	GOOD	Downstream Distance (feet):	1
Comments:		Upstream Distance (feet):	2
		Calibration Confidence:	GOOD
Installed Meter Information:			
Manufacturer:	BADGER	Installation Date:	11/1/2005
Model Number:		Serial Number:	32001206
Meter Type:	MAGNETIC, FULL PROFILE	Other Well:	

Calibration Date/Time:	09/26/2007	Factor:	1.07
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	35	Standard Meter Flow:	37.5
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	CARBON STEEL
Volume Multiplier:	1	Outside Diameter (inches):	2.38
Volume Unit:	GAL	Wall Thickness (inches):	0.16
Location:	EXCL	Downstream Distance (feet):	1
Comments:		Upstream Distance (feet):	2
		Calibration Confidence:	FAIR
Installed Meter Information:			
Manufacturer:	BADGER	Installation Date:	11/1/2007
Model Number:		Serial Number:	32001207
Meter Type:	MAGNETIC, FULL PROFILE	Other Well:	

Calibration Date/Time:	11/24/2005	Factor:	0.99
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	35.1	Standard Meter Flow:	34.8
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	STEEL
Volume Multiplier:	1	Outside Diameter (inches):	2.4
Volume Unit:	GAL	Wall Thickness (inches):	0.22
Location:	GOOD	Downstream Distance (feet):	0.5
Comments:		Upstream Distance (feet):	0.5
Meter was reading high on first measurement (+11.77%) I adjusted the detect factor from 74.2 to 66.5 and the the meter reacted accordingly.		Calibration Confidence:	EXCL
Installed Meter Information:			
Manufacturer:	BADGER	Installation Date:	11/1/2005
Model Number:	PRIMO	Serial Number:	5.0312E+13
Meter Type:	MAGNETIC, FULL PROFILE	Other Well:	

85.9 gpm

Calibration Date/Time:	11/22/2005	Factor:	1
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	43.8	Standard Meter Flow:	43.8
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	STEEL
Volume Multiplier:	1	Outside Diameter (inches):	2.4
Volume Unit:	GAL	Wall Thickness (inches):	0.21
Location:	EXCL	Downstream Distance (feet):	0.5
Comments:		Upstream Distance (feet):	1
Meter was a bit high on first test (- 8.64%) I adjusted the detect factor from 75.9 to 82.73. Meter is working good.		Calibration Confidence:	EXCL
Installed Meter Information:			
Manufacturer:	BADGER	Installation Date:	11/1/2005
Model Number:	PRIMO	Serial Number:	5.0312E+13
Meter Type:	MAGNETIC, FULL PROFILE	Other Well:	

Calibration Date/Time:	12/26/2001	Factor:	0.95
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	45.23	Standard Meter Flow:	42.8
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	STEEL
Volume Multiplier:	10	Outside Diameter (inches):	3.53
Volume Unit:	GAL	Wall Thickness (inches):	0.25
Location:	GOOD	Downstream Distance (feet):	1
Comments:		Upstream Distance (feet):	5
		Calibration Confidence:	FAIR
Installed Meter Information:			
Manufacturer:	MCCROMETER	Installation Date:	11/15/1998
Model Number:		Serial Number:	988008-2
Meter Type:	PROPELLER	Other Well:	

Calibration Date/Time:	12/10/2004	Factor:	0.58
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	21.39	Standard Meter Flow:	12.33
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	STEEL
Volume Multiplier:	10	Outside Diameter (inches):	2.4
Volume Unit:	GAL	Wall Thickness (inches):	0.16
Location:	POOR	Downstream Distance (feet):	0
Comments:		Upstream Distance (feet):	1.5
Had to run a 30 min. average due to pump cycl.		Calibration Confidence:	POOR
Installed Meter Information:			
Manufacturer:	MCCROMETER	Installation Date:	
Model Number:		Serial Number:	98-8007-2
Meter Type:	PROPELLER	Other Well:	

Calibration Date/Time:	11/28/2000	Factor:	1.02
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	30.6	Standard Meter Flow:	31.3
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1	Pipe Material:	STEEL
Volume Multiplier:	10	Outside Diameter (inches):	2.4
Volume Unit:	GAL	Wall Thickness (inches):	0.16
Location:	POOR	Downstream Distance (feet):	0
Comments:		Upstream Distance (feet):	1.5
This well is tied to A0002917 which is north of the freeway. Each have individual meters.		Calibration Confidence:	GOOD
Installed Meter Information:			
Manufacturer:	MCCROMETER	Installation Date:	2/15/1999
Model Number:		Serial Number:	98-8007-2
Meter Type:	PROPELLER	Other Well:	

