

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-7905

Exam Date: 06/14/2022

1. Current Owner:

BARBARA RICHARDSON 18105 E RIVERWAY AVE SPOKANE VLY WA 99016 AND
VICTORIA SMITH 682 N STEAMBOAT BAY RD COOLIN ID 83821-9793 AND
WILLIAM STOLZ PO BOX 175 COOLIN ID 83821-0175 AND
MICHAEL RICHARDSON 18105 E RIVERWAY AVE SPOKANE VLY WA 99016 AND
DOMINICK FERRARO 2813 S STEEN LN GREENACRES WA 99016-7780 AND
TIFFANY FERRARO 2813 S STEEN LN GREENACRES WA 99016-7780

2. Accompanied by: Victoria Smith

Phone No: 509-991-7973

Address: Same as above

Relationship to permit Holder: Permit holder.

3. **SOURCE:**

GROUND WATER

Method of Determination: ArcMap and DRG.

B. OVERLAP REVIEW1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
97-7312	GROUNDWATER	DOMESTIC	LICENSE

Comments: Licensed Right 97-7312 backfile documentation illustrates the POD/POU is located on Lot 12, Sherwood Beach Subdivision. This is a lakefront parcel and the POD/POU is not associated with the applicant's system. There isn't any overlap concern between rights.

2. Other water rights with the same point-of-diversion: NO Overlap**C. DIVERSION AND DELIVERY SYSTEM**1. **LOCATION OF POINT(S) OF DIVERSION:**GROUND WATER L4 (NE $\frac{1}{4}$ SW $\frac{1}{4}$), Sec. 3, Twp 59N, Rge 04W, B.M. BONNER County

Method of Determination: GPS. POD is located at -116°50.4407, 48°29.4257; well 98-88-N-8.

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
59N	04W	3											X L5				X		

Method of Determination: Beneficial use field examination and ArcMap aerial imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
☒ Indicate weir size/pipe as applicable.

☒

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

☒

Aerial Photo Attached (required for irrigation of 10+ acres).

☒

Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
98-88-N-88	FRANKLIN ELECTRIC	1	2801084915	GRUNDFOS	UNKNOWN

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Unable to perform flow measurements due to inadequate pipe requirements. Main water line from well routed direct to pressure tank prior to water distribution.

E. FLOW CALCULATIONS☒

Additional Computation Sheets Attached

Measured Method: Theoretic pump equation estimates flow as follows:

- 98-88-N-8 - 1 hp pump motor at 120 ft with 30 PSI operating pressure equals 16.7 gpm or **0.04 cfs** considering department rounding standards.

F. VOLUME CALCULATIONS

- Volume Calculations for irrigation: N/A
- Volume Calculations for Other Uses: Domestic annual & maximum diversion volume = 4 homes x 1.2 af per home (1/2 ac irrigation included) = **4.8 af**.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 6/14/2022 with one of the current permit holders, Victoria Smith, showed a groundwater well being used for domestic uses. At the POD, GW well 98-88-N-8 routes a buried main service line a short distance to a circular vaulted culvert pump station that includes the control panel for the 1 HP Grundfos pump and Franklin Electric pump motor installed in the well and the pressure tank associated with the diverting works. From the pressure tank the main line routes along a roadway North a short distance on Sherwood Beach Rd before turning East and then South into Sherwood Forest Subdivision.

I was unable to perform a flow measurement due to inadequate pipe requirements and a theoretic pump equation derives flow rate for the 1 HP pump motor at 120 ft depth with 30 PSI operating pressure equaling 16.7 gpm or 0.04 cfs considering department rounding standards. This is consistent with the well driller report that designated a yield rate of 20 gpm at time of well construction. **0.04 cfs** is recommended as the maximum diversion rate for licensing purposes. The applicant was approved to develop up to 0.10 cfs but is limited at licensing to the pump performance determined at time of beneficial use exam.

The Domestic POU was walked with Mrs. Smith during the exam, and I sketched out approximate pipeline routes for the water system and domestic uses accompanied with photographs to illustrate 4 homes service connected to the water system. Each of four parcels has a home constructed and irrigation up to ½ acre per home was observed during the exam. One of the permit holders, Christine Bliesner, had sold their stake in the Permit at the time of examination. During licensing review, I mailed the current parcel owner for Lot 1, Blk D, Sherwood Forest Sub., parcel No. RP0042200D0010A that a change of ownership was required at time of licensing. IDWR receive the ownership change documents and Dominick Ferraro & Tiffany Ferraro are designated as the current property owners for Lot 1, Blk D in AdHoc.

Within the domestic POU each home and ½ acre irrigation was evaluated toward licensing the annual & maximum diversion volume, which equals 4 homes x 1.2 af per home = **4.8 af**. There is a statutory claim No. 97-4240 with POU that overlaps this right, but the backfile designates a lakefront parcel as the POU and it isn't a concern for overlap; it also was not listed as overlap based on the statutory claim. The only other overlapping POU has been discussed above, which also doesn't represent concern for overlap toward licensing this permit. During licensing review, I removed condition 046 and replaced condition 070 with a text version of 187 to better describe the ½ acre per home authorized under domestic use. All other conditions on the permit have been carried forward to licensing.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	4.8 AF
<u>Totals:</u>		0.04 CFS	4.8 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Luke Bates -

Field Examiner's Name *L. Bates* Date 11/9/2024
 Reviewer *Chris Bell* Date

State of Idaho
Department of Water Resources
Attachment to Field Exam
97-7905

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.

04W



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

0 0.035 0.07 0.14 Miles



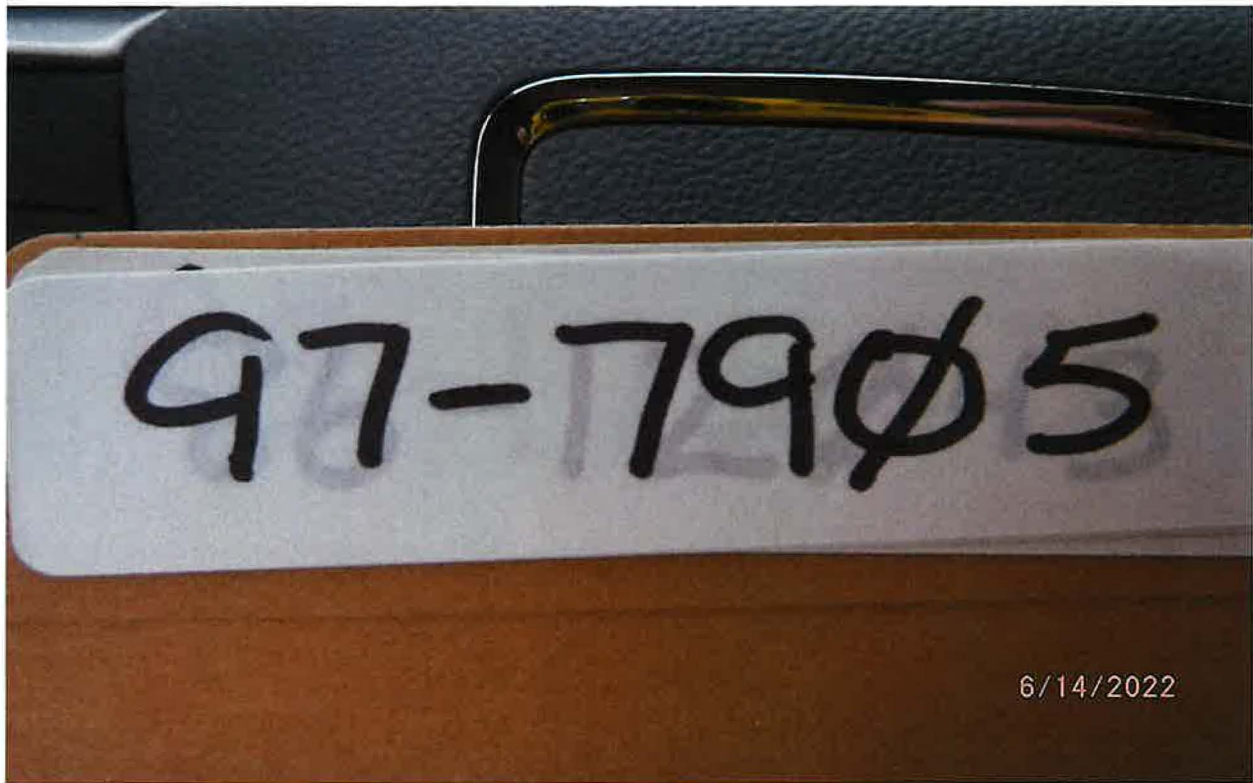
THEORETICAL PUMPING EQUATION(S) FOR WR# 97-7905

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 120 ft, and running at 30 psi.

PUMP EQUATIONS

WATER RIGHT No. 97-7905

98-88-N-8		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1	189.3878	0.8	120	30
Q = 0.037 cfs 16.7 gpm						



BENEFICIAL USE FIELD EXAMINATION DATE 6/14/2022



POD – GW WELL & CULVERT PUMP STATION LOCATED BETWEEN ROAD & SHOP



POD – GW WELL 98-88-N-8 (NO D-TAG)



CULVERT VAULTED PUMP STATION



1 HP GRUNDFOS PUMP WITH MOTOR INSTALLED IN WELL





25 – 35 PSI PUM OPERATING PRESSURE



ELECTRIC POWER READER BOX



DOMESTIC POU – 86 S FOREST VIEW RD; LOT3, BLK C; SHERWOOD FOREST SUB.; RP0042200C0030A



DOMESTIC POU – 138 S FOREST VIEW RD; LOT4, BLK C; SHERWOOD FOREST SUB.; RP0042200C0040A



DOMESTIC POU – 117 S FOREST VIEW RD; LOT2, BLK D; SHERWOOD FOREST SUB.; RP0042200D0020A



DOMESTIC POU – 43 S FOREST VIEW RD; LOT1, BLK D; SHERWOOD FOREST SUB.; RP0042200D0010A