STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

Α.	GENERAL	INFORMATION	Permit No:	<u>97-7561</u>
1.	Does this a	ualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? XY	Exam Date: N	4/20/2020
		rigation of 5 acres or less	-	
	b. S	torage of up to 14.6 AF for stockwater purposes only		
	c. A	ny use other than irrigation or storage, if the combined diversion rate is	s 0.24 cfs or	less
	d. C	ther < >		
2. (Current Owne	er: Name: Bagley Family Trust Owner of Record Correct? <u>X</u> YN Address of Record Correct? <u>Y</u> N If No: Address		
	epartment's ta a M. Bagley ⁻	ax parcel data shows the property for the place of use is in the ownership of the l Frustees.	Bagley Trust, F	Richard J. and

3.	Beneficial Use Fees have been paid:	<u>X</u> Y	_N Receipt No: C108577
4.	SOURCE		TRIBUTARY
	Spring		Sinks
	Method of Determination: GIS and Tax P	arcel Data	
	Change in Source:		<u>X</u> YN

B. OVERLAP REVIEW

1. Other water rights with the same place of use: <u>NO</u> Overlap

Water Right No.	Source	Purpose of Use	Basis	

Comments: Water right 97-7454 is in the same 40 acre tract, but it is downstream (west) of the parcel associated with this permit.

2. Other water rights with the same point of diversion: ____NO Overlap

Water Right No.	Source	Purpose of Use	Basis	

Comments: The point of diversion for this permit is the only point of diversion in the same 40 acre tract.

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C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Spring	6	SW	NE	SE	32	56N	4W	B.M.	BONNER
								B.M.	
								B.M,	

Method of Determination: GIS, Parcel Data, and the March 19, 2019, email from Wilma Robertson.

Change in POD? X____N Amendment Required? X___N

2. PLACE OF USE: Use: Domestic and Stockwater

TWP RGE Sec NE NW	SW SE	NE	NW	SW	SE	NE	BOA.	0144						Totals
					34	INC	NW	SW	SE	NE	NW	SW	SE	
					1					D				
										&				
56N 4W 32										S				
Lot #					1					6				

Method of Determination: GIS, Parcel Data, and the March 19, 2019, email from Wilma Robertson.

Change in POU? X_N Amendment Required? X_N

__ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

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

__ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Нр	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Spring	Unknown	3/4		· · · · · · · · · · · · · · · · · · ·	

*Code to correspond with No. on map and aerial photo

Please Note: The Hp was attained from the application for permit.

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D	FLOW MEASUREM	ENTS					
	1.Measurement	Туре	Make	Model No.	Serial No.	Size	Calib. Date
	Equipment						
	NONE						

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONS

__Additional Computation Sheets Attached

Measured Method:

The application for permit stated that a 3/4 Hp pump is used to pump the water from the spring to the two properties. The area around the spring is reasonably flat. If you calculate the volume with minimum lift and pressure, the 0.06 cfs flow rate is possible with a ¾ Hp pump. The 0.06 cfs does seem a bit of a stretch for a ¾ Hp pump, but it is possible that this flow rate would be met at high use. I determined that we couldn't count on the theoretical calculation to determine the flow rate for this permit. Therefore, I used Administrative Processing Memo #22 for the domestic use and Administrative Processing Memo #3 for the stockwater use.

(8.8 X 0.75 Hp X 0.70) / [5 ft lift + (30 psi X 2.31)] = 0.06 cfs or 28 gpm

Administrative Memo #22 = 0.04 cfs for domestic use <u>Administrative Memo #3 = 0.02 cfs for stockwater use</u> Total = 0.06 cfs

Permit allowed = 0.06 cfs (0.04 cfs domestic use and 0.02 cfs for stockwater use)

I am recommending 0.04 cfs for domestic use and 0.02 cfs for stockwater use for a total of 0.06 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

V = (Acres Irrigated) x (Irrigation Requirement) = _____ V = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = ____ V = Smaller of V and V = ____

2. Volume Calculations for Other Uses:

I am required to fall back on the standard for domestic use set forth by Administrative Processing Memo #22 and stockwater use in Administrative Processing Memo #3. I am recommending a diversion volume of 1.2 af for in-house use and up to ½ acres of irrigation and 0.2 af for the stockwater use for a total of 1.4 af.

G. PURPOSE OF USE

IrrigationYN	# Stock <u>5 mixed hea</u>	d Domestic # of Homes	_1
Other: < >			
Change in Purpose of Use?	YN		
Method of Determination: Ta	ixlot data and conversation	ons with owner.	
If Yes: From Use	To Use	Amount CFS	AFA

Permit No: 97-7561 H. NARRATIVE/REMARKS/COMMENTS

This permit gualifies for an in-house examination. The water source associated with this permit taken from a cistern within 20 feet of the Pend Oreille River. The permit holder and the permit state the water source as a spring. This system could be called a spring, shallow ground water, or Pend Oreille River. Whereas the permit refers to this source as a spring, I think we should carry that source through to licensing. The tributary is marked as Sinks, so I will carry that forward to licensing. However, I am concerned with the close proximity to the river that calling the tributary sinks could avoid future regulation in a water district situation. At this time, it shouldn't be an issues, since this area isn't in an active water district.

ArcMap is labeled incorrectly. Please see March 19/ 2019 email from Wilma Roberts concerning the legal description for this government lot and 40 acre tract.

Conditions X01, 187, and 004 should be carried forward to licensing. The remaining conditions should be removed. I feel condition 004 should be carried forward, because it is unclear if the spring is below the high water mark or not. Therefore, I feel it is necessary to keep the 004 condition.

Have conditions of permit approval been met? X Yes No

I. RECOMMENDATIONS

1. Recommended Amounts

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
Domestic	01/01 to 12/31	0.04 CFS	1.2 AFA
Stockwater	01/01 to 12/31	0.02 CFS	0.2 AFA
	Totals	0.06 CFS	1.4 AFA

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	<u>X</u> None
Other: < >		

J. AUTHENTICATION - DANIEL A. NELSON - WATER RIGHT ANALYSIST 3

Field I	Examiner's	Name
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Date

Reviewer Angele M. Gum Date 4/28/2020

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Field Exam Map:

The yellow border shows the parcel for this permit and the yellow dot shows the spring location. The 2013 aerial imagery below show the home and a barn.



The following is a photo of the property from Google Earth. You can see the home at the end of the driveway and the barn to the right of the driveway.

