Permit No: 96-9722

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A.	GENERAL INFO	RMATION		Permit No: <u>96-9722</u>
				Exam Date: 3/19/2020
1.			(IDAPA 37.03.02.035.01.r)? <u>X</u> Y_	N
	_	tion of 5 acres or less		
		ge of up to 14.6 AF for sto		
			storage, if the combined diversion ra	ate is 0.24 cfs or less
	d. Other	< >		
2.	Current Owner:	Name: Alfred Bill and Shar	on Downing	
		Owner of Record Correct?	X_YN	
		Address of Record Correct?		
		If No: Address		
The D	Department's tax pa	rcel data shows the property i	s in the ownership of Bill and Sharon Dow	vning.
3.	Beneficial Use F	ees have been paid:	(YN Receipt No: N035961	
4.	SOURCE	_	TRIBUTARY	
	Pend Oreille River		Columbia River	
	Method of Detern	nination: GIS and Tax Parce	el Data	
	Change in Source	-	YX N	
	onango in ocuroc	•		
B.	OVERLAP REVI	EW		
1a O	ther water rights w	vith the same place of use:	NO Overlap	
Wa	ter Right No.	Source	Purpose of Use	Basis
Comr	nents: Water right	96-7816 is shown in this 40	acre tract. 96-7816 is owned by Euge	ene and Pearl Morse. A review of
warra	nty deeds in this a	rea do not show any of the	ots on the north side of the river owner	by Eugene and Pearl Morse. I
Gynes	v Ray Road The	property owned by Morse is	ound that Morse did own the property as located on the south side of the river.	A review of the warranty deeds
for the	Gynsy Bay Road	property shows that the M	orses owned the property until 2000, a	nd that Pearl Moree past way
aroun	d that same time	It is my assumption that w	ater right 96-7916 was described incorr	rectly in the field report and the
water	right license for w	ater right 96-7816. Therefo	ore, I do not believe that water right 96-	7816 is an actual overlapping
water	for this 40 acre su	ibdivision. There are a cou	ple of other rights in this same government	nent lot, but they are clearly
marke	ed on other proper	ties		1
2. O	ther water rights w	ith the same point of divers	on:NO Overlap	
	ter Right No.	Source	Purpose of Use	Basis
		NOW 100	r arpose or ose	2000
Comn	nents: There are	no other rights that are dive	rted from the river nump described in th	nis nermit

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DIVERSION AND DELIVERY SYSTEM

1 LOCATION OF POINT(S) OF DIVERSION:

Source	Govt.								
	Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
River Diversion	1		SE	SE	26	57N	3W	B.M _e	BONNER
								B.M.	
								B.M.	

Method	of	Determi	nation:	<u>GIS</u>	and	Tax	Lot	data.

Change in POD? X Amendment Required? X____N

2. PLACE OF USE: Use: Irrigation

TWP	RGE Se	RGE Sec NE			NW			SW			SE			Totals					
IVVF		Jec	NE	NW	sw	SE	NE	NW	SW	SE	NE	NW	sw	SE	NE	NW	sw	SE	Iorais
57N	3W	36												0.4				0.4	0.4
		Lot#												1				1	

Total Acres =

Method of Determination: GIS and Tax Lot Data

Change in POU?	XN	Amendment Required?	XN

__ 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
Lake Pump	Unknown	2			

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

Please Note: The application for permit states that the pump is a 2 Hp pump. There is no other information that states the type or manufacturer of the pump being used.

D. FLOW MEASUREMENTS

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	E.	FLOW	/ CALCUI	LATIONS
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YES_Additional Computation Sheets

Attached

Measured Method:

The application for permit does supply the horsepower of the pump, and using the contours for this area and a standard pressure of 50 psi, I was able to estimate the diversion rate. I also calculated the standard for irrigation for less than 5 acres use set forth by Administrative Processing Memo #17.

Theoretical Calculation = $(8.8 \times 2 \times 0.7) / (40 \times [50 \times 2.31]) = 0.79$ cfs Administrative Memo #17 = 0.4 acres $\times 0.03$ cfs/acre = 0.012 cfs rounded to 0.01 cfs Permit allowed = 0.02 cfs

I am recommending 0.02 cfs since the permit was approved at a rate higher than the standard 0.03 cfs per acre. It would be unjust to require such a reduction of the diversion rate for this type of system when it was approved by in the permitting process. It also appears from the theoretical calculation that the system was developed on the higher rate per acre authorization.

F. VOLUME CALCULATIONS

1	Volume	Calculations	for	Irrigation
	VOIGITIC	Calculations	101	III I Walioti.

٧	= (Acres	Irriga	ited) x	(Irrig	ation F	equirement) = 0.4 X 3 af/ac = 1.2 af	
٧	= [Divers	sion R	tate (cf	s)] x	(Days	in Irrigation season) x 1.9835 = <u>0.02 </u>	(246 days X 1.9835 = 9.858 af
V	Smaller of	٧	and	٧	=	1.2 af	

2. Volume Calculations for Other Uses:

Irrigation X Y N # Stock

G. PURPOSE OF USE

Other: < >					
Change in Purpose of Use?	YN				
Method of Determination: T	axlot data and conv	ersations with owner.			
If Yes: From Use	Tollse	Amount	CES	ΔΕΔ	

Domestic # of Homes __

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. There are no overlapping domestic water rights for the in-house use for this permit, so I am assuming that the permit holder is using the domestic exemption provided by Idaho Code § 42-227 and § 42-111 that authorizes in-house use and up to ½ acre of yard irrigation not to exceed 13,000 gpd. However, condition X31 should address any issues with overlapping water right.

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The permit required a fish screen, and the permit holder state	ed on the proof of beneficial use form that they had installed the
fish screen.	
Conditions 004 and V15 will be passed forward to licensian	Condition DCC will be replaced with smallton VCA limiting the

Conditions 004, and X15 will be carried forward to licensing. Condition R66 will be replaced with condition X31 limiting the diversion rate to 0.02 cfs and volume to 1.2 af. I do have a concern that this permit is upstream of minimum stream flow right 96-8730. No conditions were placed on the permit, and minimum streamflow conditions have only been placed on 2 of the 174 rights with a source of Pend Oreille River of Lake Pend Oreille. Since no conditions were placed on the permit, it was determined that it would create an additional burden to place this condition on the license.

Have conditions of pe	ermit approval been met?	XYesNo	כ	
I. RECOMMENDATIONS				
1. Recommended Amoun BENEFICIAL USE		DIVERSION RATE	ANNUAL VOLUME	
Irrigation	04/01 to 10/31	0.02 CFS	1.2 AFA 🌂	
	Totals	0.02 CFS	1.2 AFA 🔭	
Please Note: This is a surface	e water right, so no volume	will be included on the w	ater right license.	
2. Recommended Amend	ments			
Change P.D. as reflected aboveAdd P.D. as reflected aboveXNone				
Change P.U. as reflected aboveAdd P.U. as reflected aboveX_None Other: < >				
J. AUTHENTICATION - DANIEL A. NELSON - WATER RIGHT ANALYSIST 3				
Field Examiner's Name		Date	;	
Reviewer Angle	1. Gum	Date4	2 2020	
* VOLUME NO STREAM	or spring per 1	ULIGATION USE FREDAPA 37.03.02	of a natural	

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Field Exam Map:

The yellow border shows the parcel for this permit and the yellow dot shows the point of diversion. The imagery on the left is 2019 NAIP imagery, and the image on the right is 2017 NAIP Imagery.

