

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 91-7527

Exam Date: 12/1/2016

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: David and Valerie Hannon
- Owner of Record Correct? X Y N
- Address of Record Correct? Y N
- If No: Address

Tax lot data shows David Hannon as the owner of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C0

4. **SOURCE** **TRIBUTARY**
- St. Joe River Coeur D Alene Lake
- Method of Determination: GIS, and Taxlot Data
- Change in Source: Y X N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
91-7080	Ground Water	Municipal	Recommendation

Comments: Water right 91-7080 is a municipal water right that supplied the in-house water for the same property as described in this permit. There are another 10 water rights in the same 40 acre tract, but are for the irrigation of other properties in the same subdivision.

2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: No other water rights use this same point of diversion. As stated above, there are 10 other water rights that divert water in this same 40 acre tract for the irrigation of other properties in the same subdivision.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
River Pump	8		NE	SW	17	46N	2W	B.M.	BENEWAH
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Parcel data.Change in POD? X N Amendment Required? X N **2. PLACE OF USE:** Use: Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
46N	2W	17									0.6								0.6
		Lot #																	
Total Acres =																			0.6

Method of Determination: GIS and Tax Parcel DataChange 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	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well	Unknown				

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

D. FLOW MEASUREMENTS

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

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

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

The permit allowed a diversion rate of 0.03 cfs for 0.7 acres instead of the 0.02 cfs as is the standard at 0.03 cfs per acre (0.03 cfs/ac X 0.7 acres = 0.021 cfs). Due to the size of this irrigation use, this diversion rate seems reasonable, so I am carrying it over to license, since the acre amount being licensed is only be reduced by 0.1 acres. The system was probably designed for the 0.03 cfs, so reducing the diversion rate would probably put the permit holder out of compliance.

Permit allowed = 0.03 cfs

I am recommending a diversion rate of 0.03 cfs as recommended in the permit.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.6 \times 3.0 = 1.8 \text{ af}$$

$$V = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 231 \text{ days} \times 1.9835 = 13.7 \text{ af}$$

D.R.

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.8 \text{ af}$$

Please Note: No volume is required for surface water rights, but the total volume will be required in the conditions of the license.

2. Volume Calculations for Other Uses:

G. PURPOSE OF USEIrrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ☐ Y ☐ NMethod of Determination: Tax data, GIS, and Well Driller's Report.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

This permit is qualifies for an in-house exam. A large number of the homes in this subdivision use the St Joe River to irrigate their lawns instead of using the municipal water from the well. None of the water from the river is used in the home.

The permit allowed an enhanced diversion rate compared to the standard of 0.03 cfs per acre. I carried that diversion rate forward, since there is only 0.1 acres difference in acres irrigated. A diversion rate of 0.03 cfs is only 13 gpm, and most sprinkler systems are designed to run a minimum of 12 gpm. Therefore, I believe it is prudent to carry the 0.03 cfs diversion rate to the license.

In the proof of beneficial use, the owner's stated that they have complied with the fish screening conditions. They also supplied an approval letter from the Coeur D' Alene Tribe approving their boat dock and water withdrawal. It appears as though they have done their due diligence in attaining approval of the fish screen requirements.

Conditions 1 (004), 4 (X15), 5. (X16), and 6 (WB9) will be carried forward to licensing as is standard. Condition 2 (26A) will be removed at licensing. Condition 3 (R66) will be replaced with condition X31 limiting them to 0.03 cfs and 1.8 af.

Have conditions of permit approval been met? ☒ Yes ☐ No

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
~~Domestic~~ Irrigation	01/01 to 12/31	0.03 CFS	
	<u>Totals:</u>	0.03 CFS	

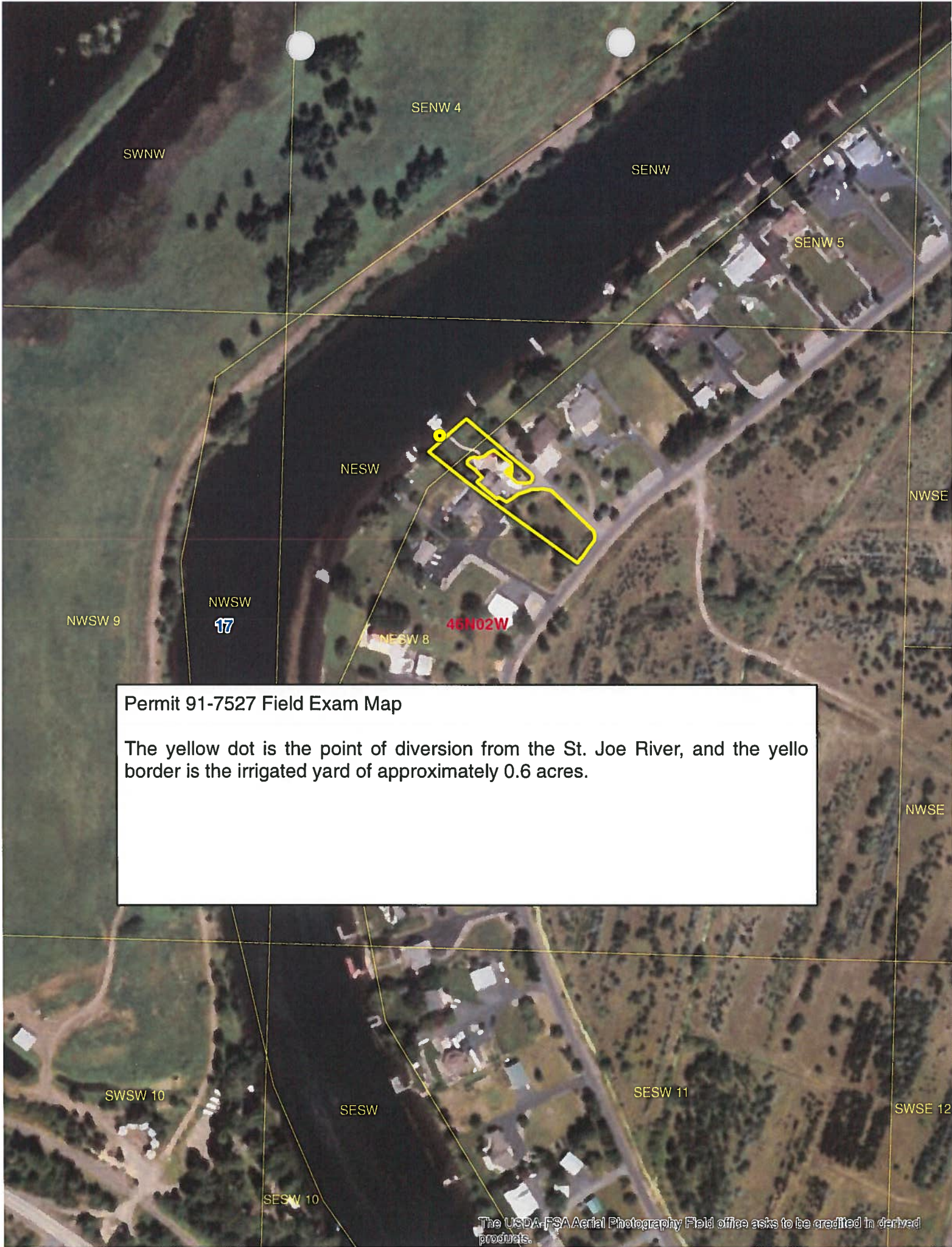
Please Note: No volume is required on surface water licenses.

2. Recommended Amendments☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – Analyst 3Field Examiner's Name Daniel A. Nelson Date 12-1-16

Reviewer _____ Date _____



Permit 91-7527 Field Exam Map

The yellow dot is the point of diversion from the St. Joe River, and the yellow border is the irrigated yard of approximately 0.6 acres.