

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

A. GENERAL INFORMATIONPermit No: 91-7388

Exam Date: 8/29/2016

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: Chester L. Schilling
- Owner of Record Correct? X Y ___ N
- Address of Record Correct? X Y ___ N
- If No: Address

Tax lot data shows Chester L. Schilling as the owner of the property.

3. Beneficial Use Fees have been paid: X Y ___ N Receipt No: C102408
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: ___ Overlap

Water Right No.	Source	Purpose of Use	Basis
91-7157	St. Joe River	Municipal	Permit
91-2021	Rochat Creek	Municipal	Decree
91-4001	Rochat Creek	Municipal	Decree

Comments: Water right permit 91-7157 and water rights 91-2021 and 91-4001 are all water rights for the City of Saint Maries. The municipal system is delivered to this subdivision, but the owner doesn't state in the application if they use City water for the culinary use. There are several water rights in this subdivision that were filed to provide lawn irrigation under domestic uses, but used the City system for their culinary water. One of those rights (license 91-7803) is located 2 lots to the west.

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

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: There are no other rights that use the same point of diversion at this permit. The only other diversion in this 40 acre tract is for water right 91-7803, which is two lots to the west.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
River Pump	13		SE	SE	17	46N	2W	B.M.	BENEWAH
								B. M.	
								B.M.	

Method of Determination: GIS and Tax Lot 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																D	
		Lot #																13	
Total Acres =																			

Method of Determination: GIS and Tax Lot 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
River Pump	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:

A theoretical calculation was not used on this permit. The system is a basic pump from the river to the irrigation system.

Permit allowed = 0.04 cfs

Permit Processing Administrative Memorandum #3 guides us to use the standard of 0.04 cfs for domestic use if the pump size is unknown. I am recommending a diversion rate of 0.04 cfs for this system.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Permit Processing Administrative Memorandum #22 guides us to use a standard of 1.2 af for in-house use and yard irrigation. Since there is no confirmation that this property uses City of Saint Maries water for their culinary use, I am recommending a diversion volume of 1.2 af.

G. PURPOSE OF USE

Irrigation Y N # Stock Domestic # of Homes 1

Other: < >

Change in Purpose of Use? Y N

Method of Determination: Taxlot data and conversations with owner.

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

This permit is qualifies for an in-house exam. The application states that there is a single point of diversion from the St. Joe River. City of St. Maries service area overlaps the place of use, and previous exams confirm water from the City of St. Maries is supplied to the subdivision, but the application or the permit do not confirm if municipal water is used for the in-house use. Therefore, I am recommending that full allowable diversion rate and volume be licensed. The aerial photography clearly show a home has been on this property for some time. Therefore, there is no doubt that a domestic use has been established. There are several water right in this subdivision that diverted water from the river for lawn irrigation, so there is little doubt that the system was developed.

This permit does have fish screening conditions on the permit. The permit holder stated in the proof due notice that fish screening conditions were not on the permit, but that they had installed a fish screen. They have installed a fish screen there shouldn't be any issue. All of the conditions on the permit should be carried forward to licensing except for condition 26A, which should be removed as is the standard. Conditions X59 and X60 should be added to the permit to allow easier confirmation of the point of diversion and place of use for this permit in the future.

Have conditions of permit approval been met? X 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	01/01 to 12/31	0.04 CFS	1.2 AF
	<u>Totals:</u>	0.04 CFS	1.2 AF

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above ___ None

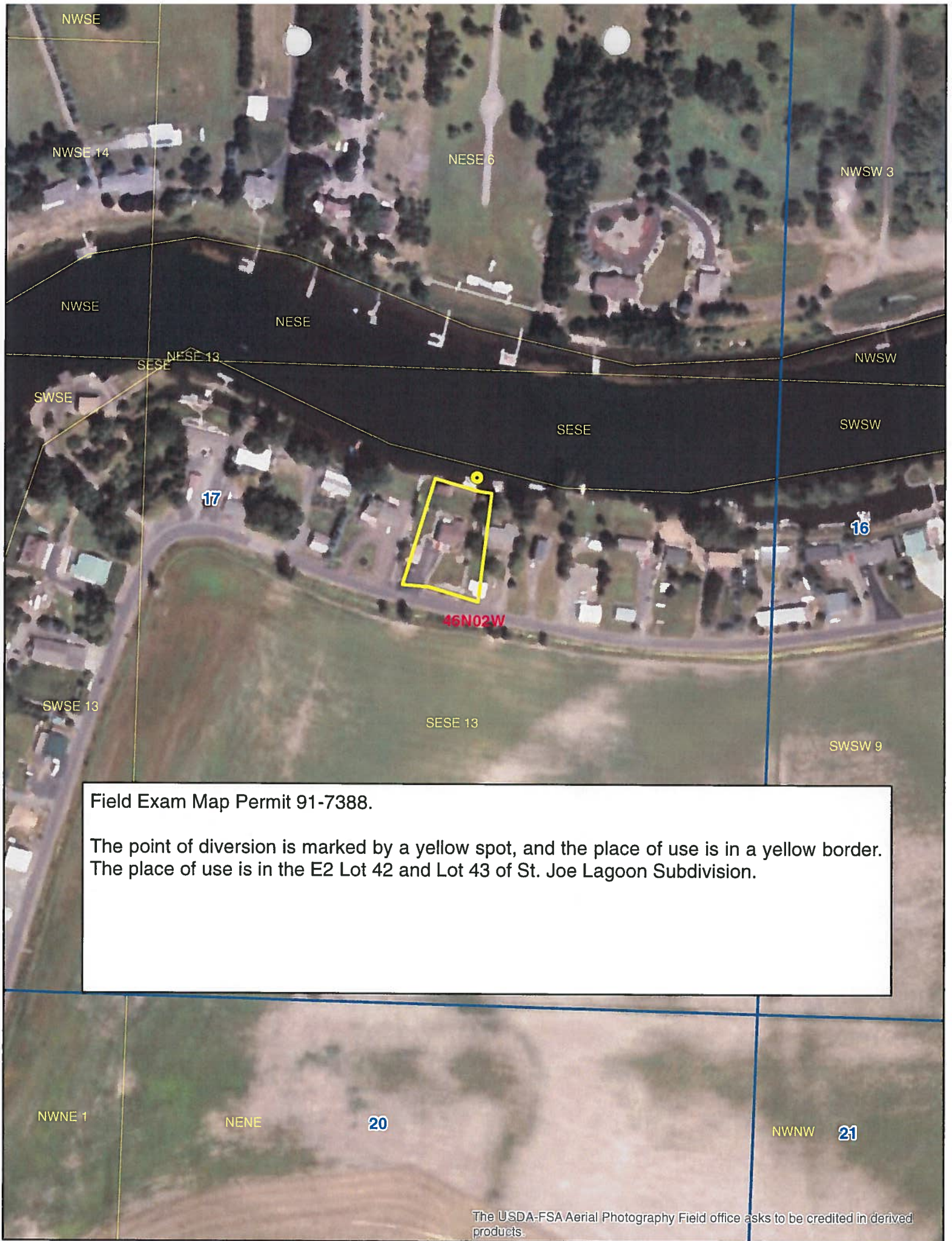
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ None

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – STAFF HYDROLOGIST

Field Examiner's Name  Date 8-29-16

Reviewer _____ Date _____



Field Exam Map Permit 91-7388.

The point of diversion is marked by a yellow spot, and the place of use is in a yellow border. The place of use is in the E2 Lot 42 and Lot 43 of St. Joe Lagoon Subdivision.