

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

**Permit No:** 91-7710  
**Exam Date:** 06/20/2018

1. Current Owner:  
NORVIN D SMITH 789 REEDS CREEK RD ST MARIES ID 83861 OR  
MARY LOU SMITH 789 REEDS CREEK RD ST MARIES ID 83861
2. Accompanied by: Mary Lou Smith  
Phone No: 208-245-8053  
Address: Same as above  
Relationship to permit Holder: Permit holder

3. **SOURCE:**  
REEDS CREEK

**Tributary**  
ST JOE RIVER

**Method of Determination:** Arcmap and DRG

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
91-7551	GROUND WATER	DOMESTIC	DECREED
91-7106	REEDS CREEK	IRRIGATION	DECREED

Comments: WR 91-7551 is for domestic use from ground water by same applicant. WR 91-7106 is for irrigation use from same source as this water right, but with different POD, and incorporates pond irrigation storage and irrigation from storage components. This water right provides water for the added irrigation acreage by applicant, and overlap of POU's established under WRs 91-7710 and 91-7106 are restricted to a total of 3.0 acres using condition X35 at time of licensing.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: \_\_\_\_\_

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**

REEDS CREEK NW¼ NW¼, Sec. 17, Twp 46N, Rge 01E, B.M. BENEWAH County

Method of Determination: Field exam and GPS. POD is pump in creek located at -116°22.240, 47°20.400.

**PLACE OF USE:** IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
46N	01E	17							2.6										2.6

Total Acres: 2.6

Method of Determination: Field exam and Arcmap.

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
NONE					

**D. FLOW MEASUREMENTS**

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 GAL Bucket Test						

2. Measurements: 5 gallon bucket test was performed to determine diversion rates in units = gpm as listed below:

- o Test 1 = (5 gal / 12 sec) x 60 sec = 25.0 gpm  
 Diversion rate for license = **0.06 cfs**.

**E. FLOW CALCULATIONS**

Measured Method: (5 gal / 12 sec) x 60 sec = 25.0 gpm = 0.06 cfs

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation: 2.6 ac x 3.0 af = 7.8 af

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.6 \text{ ac} \times 3.0 \text{ af} = 7.8 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \text{ cfs} \times 231 \text{ days} \times 1.9835 = 27.5 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 7.8 \text{ af}$$

2. Volume Calculations for Other Uses:

This is a surface water right, and as such no maximum diversion volume will be applied to license.

**G. NARRATIVE/REMARKS/COMMENTS**

At time of licensing, the permitted POD, and the irrigation Period of Use were found to be inaccurate, see below:

POD: permitted = SW $\frac{1}{4}$  NW $\frac{1}{4}$ , Sec. 17, Twp 46N, Rge 01E

POD: verified at time of licensing = NW $\frac{1}{4}$  NW $\frac{1}{4}$ , Sec. 17, Twp 46N, Rge 01E

Season of Use: authorized on permit = 03/15 to 11/15 (for Irrigation component).

Season of Use: verified at time of licensing = 03/15 to 10/31 (corrected to standard use for irrigation component).

An Application for Amendment was initiated, and mailed with cover letter to applicant on 16 June 2020. A memorandum dated 5/5/2020 was created to account for the change in season of use at time of licensing.

Field exam performed with the applicant, Mary Lou Smith, showed water being diverted from Reeds Creek being used for irrigation purposes. Applicant permitted for a diversion rate of 0.12 cfs, but during field exam a 5 gallon bucket test was completed, resulting in a diversion rate equaling  $(5 \text{ gal} / 12 \text{ sec}) \times 60 \text{ sec} = 25.0 \text{ gpm} = 0.06 \text{ cfs}$ , which will be carried forward to license.

Water was gravity flow diverted by black flexible poly pipe to the irrigation POU. Applicant used 1 inch poly tubing to supply water throughout the property, with hose splitters installed in order to water from above ground sprinklers at different times of day. At time of field exam, irrigation POU was identified and sketched on a map. Using arcmap, the irrigation acreage was traced out, minus 0.4 acres for driveway/homes/out-buildings, equaling 2.6 acres. As this is a surface water source, there is no annual volume nor maximum diversion volume applied to license. In order to maintain a clean mapping image, the shape attached to map for licensing irrigated area includes the 0.4 acres for driveway/homes/out-buildings, but that area is not included in overall irrigated acreage.

Condition 26A was removed from license. All other conditions will remain on license. Condition X35 was added to describe that WRs 91-7710 and 91-7106, when combined, are restricted to a total of 3.0 acres of irrigation. WR 91-7551 overlaps this WR, and is for domestic use from ground water by same applicant. WR 91-7106 is for irrigation use from same source as this water right, but with a different POD, and incorporates pond irrigation storage and irrigation from storage components. Condition X35 was added at time of licensing to mitigate any overlap concerns.

## H. RECOMMENDATIONS

### 1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>
IRRIGATION	03/15 to 10/31	0.06 CFS

Totals: 0.06 CFS

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

### 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

## I. AUTHENTICATION Luke Bates - Water Resource Agent

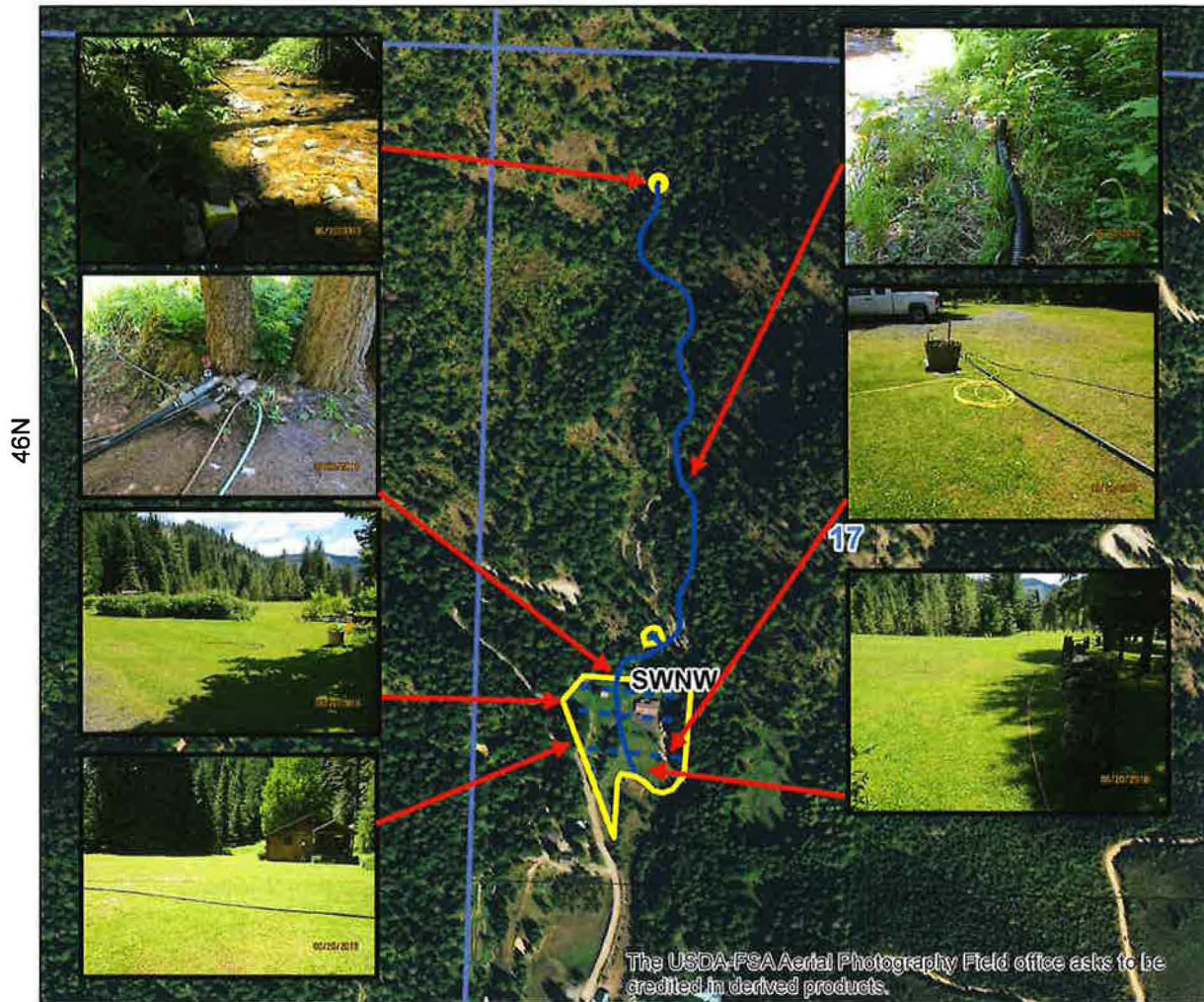
Field Examiner's Name [Signature] Date 6/16/2020  
 Reviewer [Signature] Date 6/30/2020



State of Idaho  
Department of Water Resources  
**Attachment to Field Exam**  
91-7710

IRRIGATION system diagram.

01E



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

0 0.05 0.1 0.2 Miles



## MEMORANDUM

**To: Water Right Permit 91-7710**

**From: Luke Bates** 

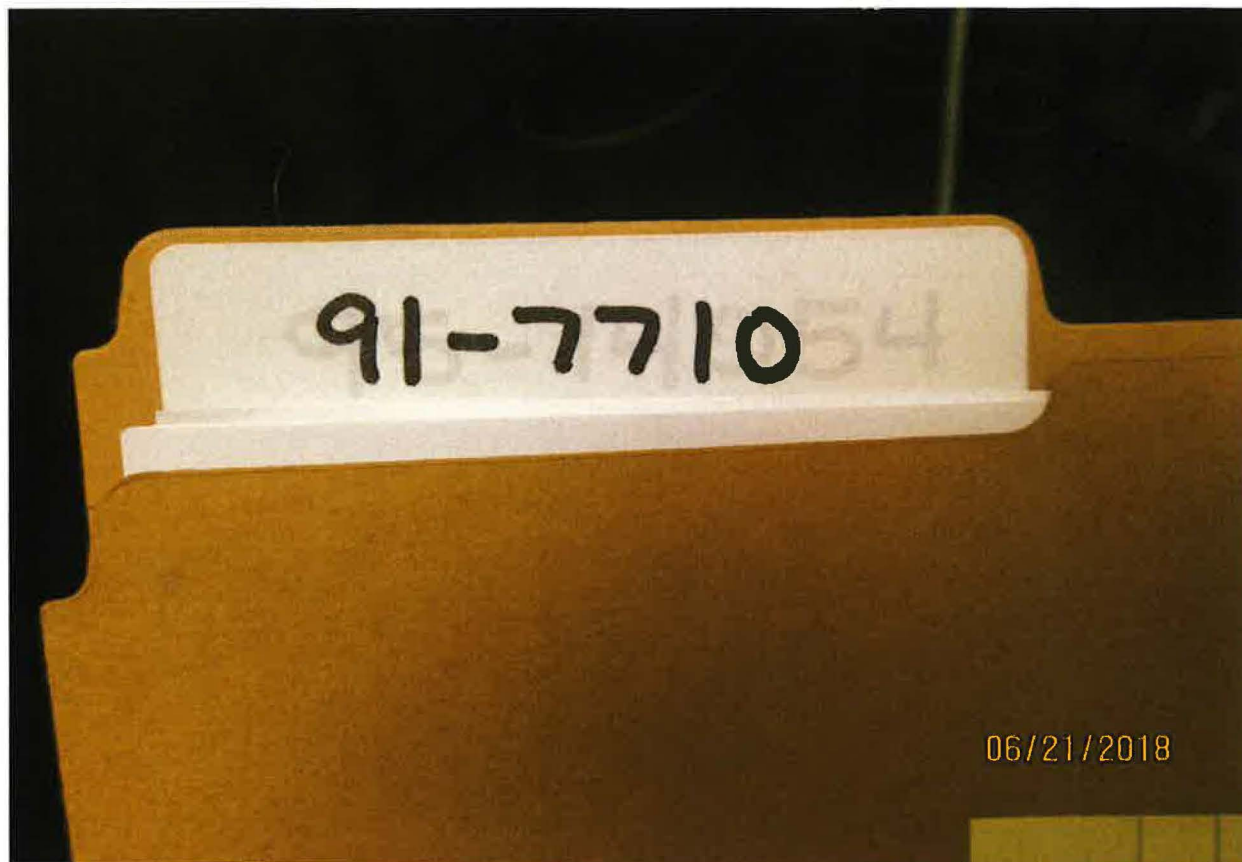
**Date: 6/16/2020**

**Re: Application for a Permit to Appropriate Water within the State of Idaho.**

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An application for permit was received for irrigation use in the name of Norvin D and Mary Lou Smith. The application was permitted with the season of use of 3/15-11/15. The department's standard season for the irrigation at the applicant's property is 3/15-10/31. Season of use will be changed on the license to reflect the department standard.



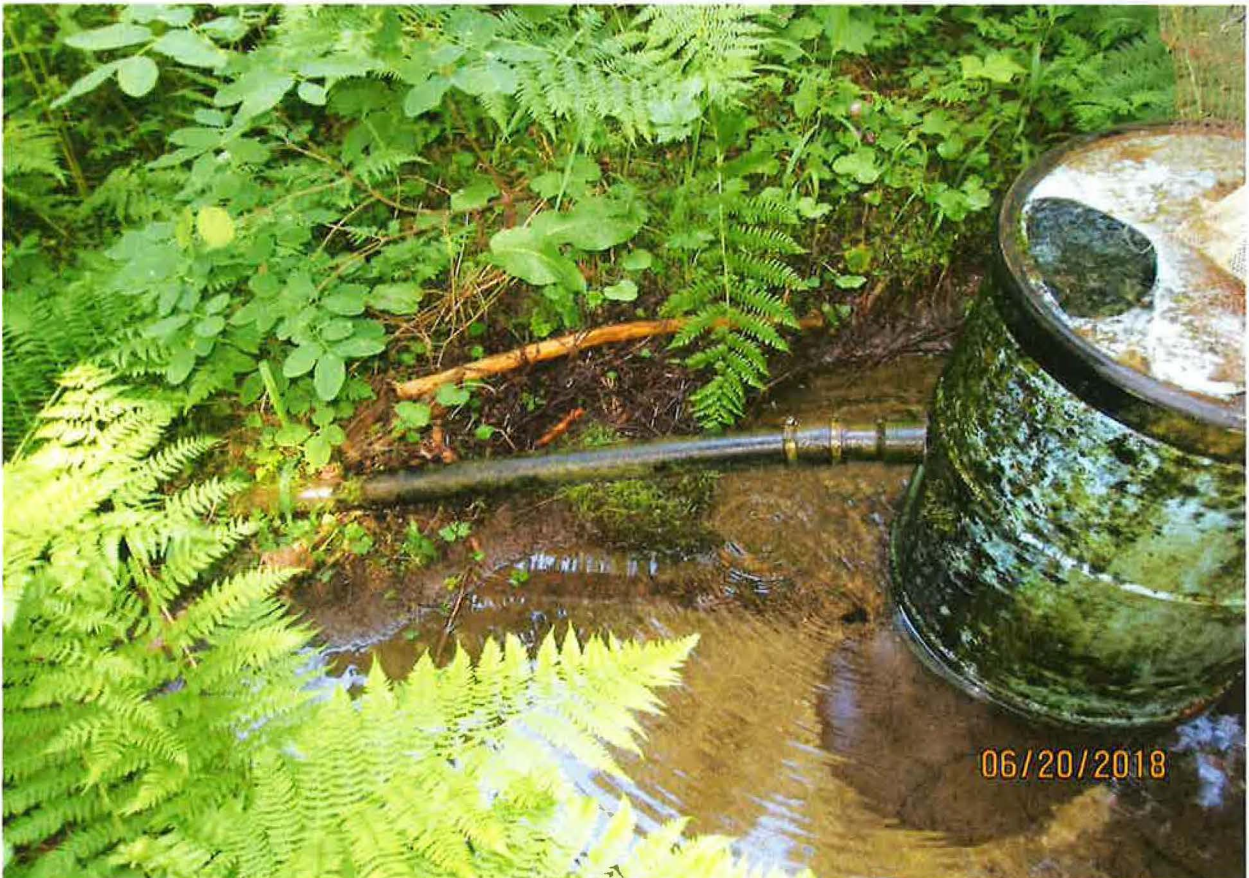


POD – GRAVITY FLOW FROM REEDS CREEK





GRAVITY FLOW PIPE FROM POD-TO-POU



WATER STORAGE TANK





IRRIGATION POU - WATER SYSTEM PIPE







IRRIGATION POU







IRRIGATION POU







IRRIGATION POU







IRRIGATION POU







IRRIGATION POU







IRRIGATION POU

