

2. Place of 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	
56N	03E	30	0.7																0.7
		Lot #																	
																		Total Acres =	0.7

Place of Use: Domestic, Stockwater

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
56N	03E	30	D,S																
		Lot #																	

Method of Determination: GIS, Idaho Tax Parcel Data, 2023 NAIP Aerial Imagery, 2024 Bonner County Aerial Imagery and a phone conversation with the permit holder on June 2nd, 2025.

Change in POU? Y X N Amendment Required? Y X N

3. Diversion System Information:

Description: According to the permit holders Proof Statement the diversion system consists of gravity-fed water lines from the Unnamed Stream into a 1,000-gallon tank.

 Delivery System Diagram Attached. (mark all major components and distances between components)

 X Aerial Photo indicating the location of the recommended POD and POU.

 X Aerial Photo Attached (required)

 Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

*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
N/A						

2. Measurement Comments: This permit qualifies for an in-office examination. Therefore, the measurement of a diversion rate or volume is not required according to the IDAPA Beneficial Use Examination Rules 37.03.02.035.01r.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: Since this permit qualifies for an in-office examination a measurement of diversion rate or volume is not required according to the IDAPA Beneficial Use Examination Rules 37.03.02.035.01r. According to Administrative Application Processing Memo #17 the standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs/acre. The permit authorized domestic use for 3 homes. According to the permit holders Application for Permit domestic water would be for one home, shop with restroom, and pumphouse with sink + laundry hookups. Therefore, in actuality only one home was developed along with building add-ons including two sinks, toilet and laundry washer. Average home water use data from the US Environmental Protection Agency was used to make a diversion rate recommendation.

According to EPA data these appliances would utilize 0.01 cfs (Table 1). According to Administrative Application Processing Memo #22 the standard diversion rate for the domestic use of 1 homes is 0.04 cfs. The permit authorized stockwater for 50 mixed livestock. Currently there are no diversion rate standards for mixed livestock. I recommend the standards for range cattle be used as a substitute. According to Administrative Application Processing Memo #3 the standard diversion rate for 50 mixed livestock would be 0.02 cfs. I am recommending a diversion rate of 0.05 cfs for domestic use, 0.02 cfs for stockwater, 0.02 cfs for irrigation, and 0.09 cfs total

Table 1. Calculation of diversion rate and volume for building add-ons based on EPA average household use data. Average household use for an average American home is 300 gal per day and 70%.

Appliance	Percent of Daily Use	Average Use Per Day (Gal)	Usage Per Year (Gal)	Converted to Acre-Feet (Rounded)	Converted to CFS (Rounded)
Two Sinks	19% (One sink)	79.8	29,127	0.1	0.01
Toilet	24%	50.4	18,144	0.1	0.01
Laundry Washer	17%	35.7	7,800	0.1	0.01
Total (Recommended)	60%	165.9	55,071	0.2	0.01

(0.7 confirmed acres of irrigation) * (0.03 cfs/acre) = 0.021 or 0.02 cfs rounded.

Administrative Application Processing Memo #17 Calculation = 0.02 cfs

Administrative Application Processing Memo #22 Standard = 0.04 cfs

EPA Average Household Water Use Data Calculation = 0.01 cfs

Administrative Application Processing Memo #3 Standard = 0.02 cfs

Permit allowed = 0.10 cfs

Total Recommendation = 0.09 cfs

F. VOLUME CALCULATIONS

2. Volume Calculations for Other Uses: The permit authorized diversion from natural flowing stream for irrigation. According to the IDAPA Beneficial Use Examination Rules 37.03.02.035.01j.viii if a permit authorizes irrigation diverting from a natural flowing stream/river or a spring a diversion volume recommendation is not required at licensing. The permit authorized in-house domestic use only. According to Administrative Application Processing Memo #22 the standard diversion volume for in-house domestic use 1 home is 0.6 af. According to EPA data building add-ons including two sinks, one toilet and one laundry washer, would utilize 0.2 af rounded. The permit authorized stockwater for 50 mixed livestock. Currently there is not a diversion volume standard for mixed livestock. I recommend the standards for range cattle be used as a substitute. According to Administrative Application Processing Memo #3 the standard diversion volume for 50 mixed livestock is 0.7 af. I am recommending a diversion volume of 0.8 af for domestic use and 0.7 af for stockwater.

G. PURPOSE OF USE

Irrigation X Y N # Stock 50 Mixed Livestock Domestic # of Homes 1 home and building add-ons

Change in Purpose of Use? Y X N

Method of Determination: GIS, Idaho Tax Parcel Data, 2023 NAIP Aerial Imagery and 2024 Bonner County Aerial Imagery, a phone conversation with the permit holder on June 2nd, 2025, and the permit holders Proof Statement.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-office examination. According to Idaho Tax Parcel Data the property was developed in 2016. The permit authorized domestic use for three homes, stockwater for 50 mixed livestock, and the irrigation of 1.0 acre. According to the application for permit domestic use is for one actual home, shop with a restroom, and pump house with a sink and washer hook up. Average home water use data from the US Environmental Protection Agency was used to make a diversion rate and volume recommendation for the building add-ons. According to 2024 Bonner County, 2023 NAIP Aerial Imagery, and a phone conversation with the permit holder on June 2nd, 2025, 0.7 acres of irrigation was confirmed within the permitted place of use (POU). I recommend the POU for domestic use and stockwater remain the boundary of the Tax Parcel owned by the permit holder. However, the Tax Parcel boundary and visually irrigated boundary are inconsistent. The irrigation POU was determined using the visually irrigated area.

After reviewing water right records it was determined that two existing water rights (WR) 96-8032 and 96-7704 overlap the proposed place of use (POU) and are owned by the permit holder according to Department Records. 96-8032 authorizes domestic use for one home and the irrigation of 2.5 acres diverting from Webb Canyon Creek. 96-7704 authorizes stockwater and the irrigation of 7.5 acres diverting from Webb Canyon Creek. The permit holder was contacted, via phone conversation on June 2nd, 2025, to clarify how these existing WR's interact with this permit. The permit holder confirmed the diversion systems for the permit and the existing WR's are interconnected. They explained diversion under the permit is used early in the irrigation season while flow is available in the unnamed stream to irrigate 0.7 acres around the home, and for domestic use and stockwater.

Later in the irrigation season when flows in the unnamed stream are low diversion is switched to Webb Canyon Creek. The permit holder confirmed they irrigate the full 9.5 acres authorized under the existing WR's. The permit holder also confirmed irrigated area authorized under the existing WR's includes the 0.7 acres authorized under the permit. Therefore, I recommend three combined limits be added to the license to prevent an enlargement of 96-7704 and 96-8032. The first

would limit the permit and 96-7704 and 96-8023 when combined with the irrigation of 9.5 acres. The second would limit the permit and WR 96-8032 when combined to a total diversion rate and volume for domestic use when combined to 0.05 cfs and 0.8 af. The third would limit the diversion rate and volume for stockwater under the permit and 96-7704 when combined to 0.02 cfs and 0.7 af.

A condition on the permit requires the permit holder to install a fish screen to meet the fish screening and passage requirements of the Idaho Department of Fish and Game. The permit holder confirmed a fish screen meeting those requirements was installed on their Statement of Completion for Proof of Beneficial Use. Since this permit qualifies for an in-office examination a measurement of diversion rate or volume is not required according to the IDAPA Beneficial Use Examination Rules 37.03.02.035.01r. The permit authorized stockwater for mixed livestock. Currently there are no diversion rate or volume standards for mixed livestock. I recommend the standards for range cattle be used as substitute.

Since the permit authorizes diversion from a natural flowing stream for irrigation a diversion volume is not required at licensing according to the IDAPA Beneficial Use Examination Rules 37.03.02.035.01j.viii. The standards set in Administrative Application Processing Memos #3, #17, and #22 were used to make a diversion rate and volume recommendation. All of the conditions on the permit have been met, and development of beneficial use was confirmed within authorization of the permit. Therefore, I am recommending a diversion rate of 0.05 cfs for domestic use, 0.02 cfs for stockwater, 0.02 cfs for irrigation, and 0.09 cfs total. I am also recommending a diversion volume of 0.8 af for domestic use and 0.7 af for stockwater.

Conditions 227, 132, R66, and 004 should remain on the license. Three X35 conditions should be added to the license. The first should limit the license and WR's 96-7704 and 96-8032 when combined to the irrigation of 9.5 acres. The second should limit the diversion rate and volume of the license and 96-8032 when combined to 0.05 cfs and 0.8 af for domestic use. The final X35 condition should limit the diversion rate and volume the license with WR 96-7704 when combined to 0.02 cfs and 0.7 af for stockwater. Condition #7 on the permit should be removed because IDWR is not responsible for enforcement any fees or permitting with the US Forest Service in association with the permit. Condition 029 should be removed because the permit holder confirmed they installed a fish screen meeting the fish screening and passage requirements of the Idaho Department of Fish and Game. Condition X02 should be removed as is the standard with licensing.

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	01/01-12/31	0.05 CFS	0.8 AF
Stockwater	01/01-12/31	0.02 CFS	0.7 AF
Irrigation	04/01-10/31	0.02 CFS	N/A
<u>Totals:</u>		0.09 CFS	N/A

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

J. AUTHENTICATION

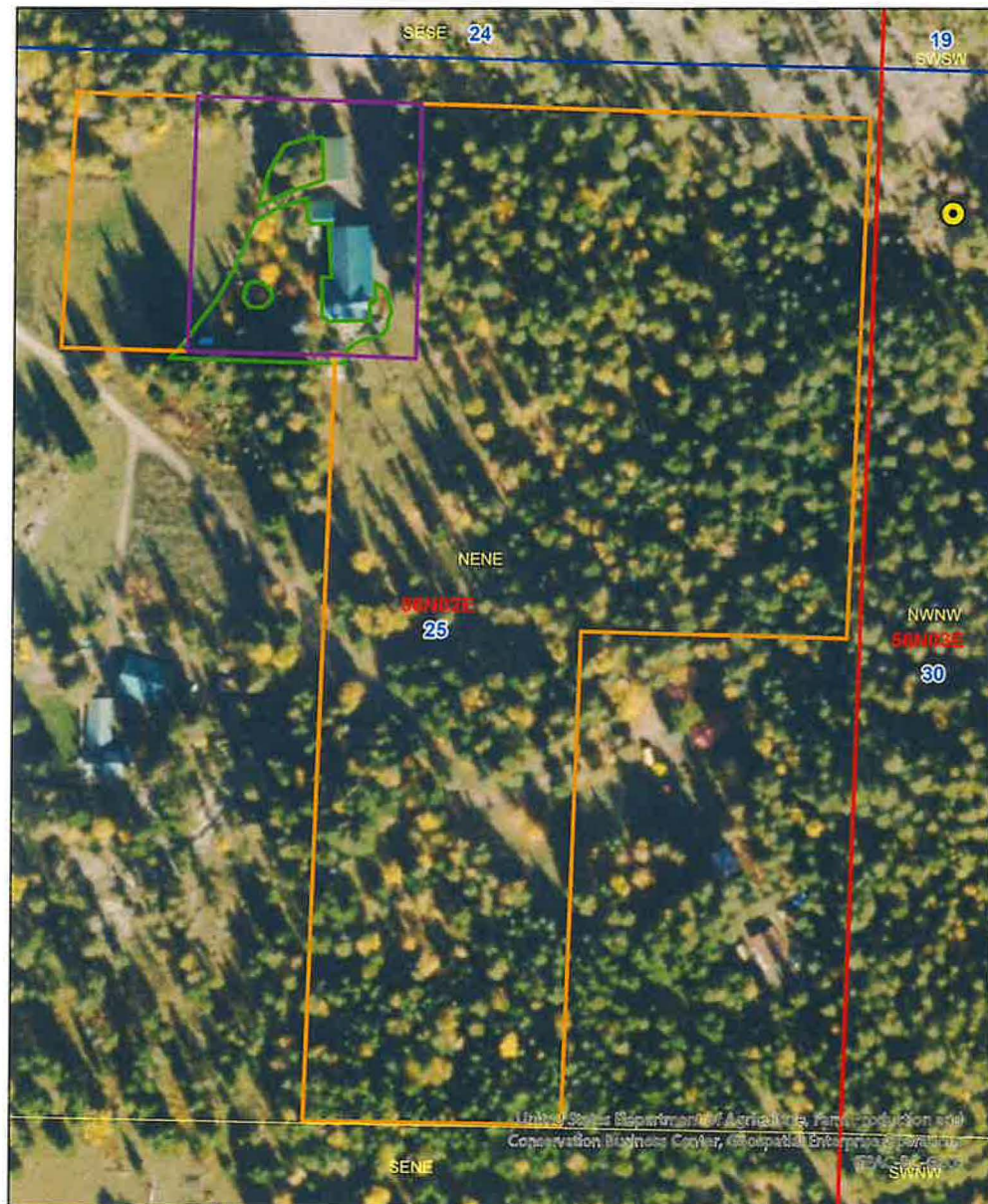
Field Examiner: **Skyler Cheever – Water Resource Agent, Sr – State Office**

Field Examiner's  Date 9/10/2023

Reviewer  Date 9/18/23

Field Exam Map

Map showing the authorized point of diversion (yellow point), irrigated place of use (green outline), domestic place of use (purple outline) and stockwater place of use (orange outline).



2024 Bonner County Aerial Imagery

96-10387 2024 Bonner County Aerial Imagery

