

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9679
Exam Date: 05/20/2021

1. Current Owner:
HEATHER NICOLE LACIVITA PO BOX 900 ATHOL ID 83801-0900
2. Accompanied by: Heather Lacivita
Phone No: 208-610-7002
Address: Same as above
Relationship to permit Holder: Permit holder

3. **SOURCE:**
UNNAMED STREAM

Tributary
COCOLALLA CREEK

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

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

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED STREAM L2 (NW¼ NE¼), Sec. 2, Twp 54N, Rge 03W, B.M. BONNER County

Method of Determination: GPS. POD is a 5-gal screened bucket with 1-inch delivery pipe in stream located at -116°39.636, 48°3.7509.

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
54N	03W	2	X L1																

Method of Determination: Field exam and Arcmap aerial imagery.

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 X Indicate weir size/pipe as applicable.
- X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- X Aerial Photo Attached (required for irrigation of 10+ acres).
- X 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
1" DELIVERY PIPE TO RAM PUMP		N/A			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5-GAL BUCKET MEASUREMENT						

2. Measurements: Three 5-gal bucket tests were completed from a ½-inch service poly pipe, with the average of three tests resulting in a diversion rate of $5 / 34.82 \text{ sec} \times 60 \text{ sec/min} = 8.62 \text{ gpm} = \mathbf{0.02 \text{ cfs}}$, considering department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5-GAL Bucket Test = $(5 \text{ gal} / 34.76 \text{ sec}) \times 60 \text{ sec/min} = 8.63 \text{ gpm}$
 $= (5 \text{ gal} / 35.07 \text{ sec}) \times 60 \text{ sec/min} = 8.55 \text{ gpm}$
 $= (5 \text{ gal} / 34.62 \text{ sec}) \times 60 \text{ sec/min} = 8.66 \text{ gpm}$

Average of 3ea 5-GAL Bucket Tests = $(8.63 \text{ gpm} + 8.55 \text{ gpm} + 8.66 \text{ gpm}) / 3 = 8.61 \text{ gpm} = \mathbf{0.02 \text{ cfs}}$ considering department rounding standards.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: Domestic annual volume & maximum diversion volume = **1.2 af**

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 5/20/2021 with the applicant, Heather Lacivita, showed water being diverted from an unnamed stream for domestic use. At the POD, the applicant has installed a 5-gal bucket with screened cover in within a small pooling of the stream. A 10 foot 1-inch delivery PVC pipe routes downstream to a RAM pump that is installed within the stream flow. A 1/2-inch service pipe routes water from the RAM pump serving as the diverting works. Due to the unconventional RAM pump installation (located in-stream flow), I was unable to capture diversion from the waste valve of the RAM pump. As water that outflows from the waste valve is returned to the stream in an area consisting of less than 12 feet (all on the applicant's family property), the wasted amount of the total diversion rate is not being considered as diverted water for flow measurement purposes. Three 5-gal bucket measurements were taken from a ½-inch service poly pipe, with the average of three tests resulting in a diversion rate of $5 / 34.82 \text{ sec} \times 60 \text{ sec/min} = 8.62 \text{ gpm} = \mathbf{0.02 \text{ cfs}}$, considering department rounding standards, which is recommended as the domestic beneficial use diversion rate & maximum diversion rate for licensing purposes.

From the POD, the ½-inch service poly pipe routes to 2ea 275-gal storage tanks prior to downhill flow to the domestic POU. The POU was walked with the applicant during the exam and sketched out on field maps. At the POU, the applicant currently uses stream water to service an RV that is being lived in while construction of the primary residence is completed. At time of exam & due to COVID-19 delays, the applicant had been unable to secure a builder to commence the work. A dedicated stub-in has been installed at the foundation site for the home, and once the house is built the domestic water currently used in the RV will be shifted over to the home. Small scale irrigation is occurring in the form of a small garden and potted vegetable plants. During licensing review, Arcmap aerial imagery was used to trace out the Domestic POU, which consists of the homesite and RV/garden site. The annual volume associated with domestic use includes up to ½ acre irrigation equaling **1.2 af**, which is recommended for licensing purposes.

Conditions of approval were reviewed at time of licensing, and all permitted conditions shall remain on the license. There are no overlap concerns for this water right. There is a minor shift in Arcmap aerial imagery versus the DRG layer, and the POD location is located on the applicant's property, of which had recently been plat surveyed, as asserted by the applicant.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	1.2 AF
Totals:		0.02 CFS	1.2 AF

2. Recommended Amendments

<u> </u> Change P.D. as reflected above	<u> </u> Add P.D. as reflected above	<u> X </u> None
<u> </u> Change P.U. as reflected above	<u> </u> Add P.U. as reflected above	<u> X </u> None

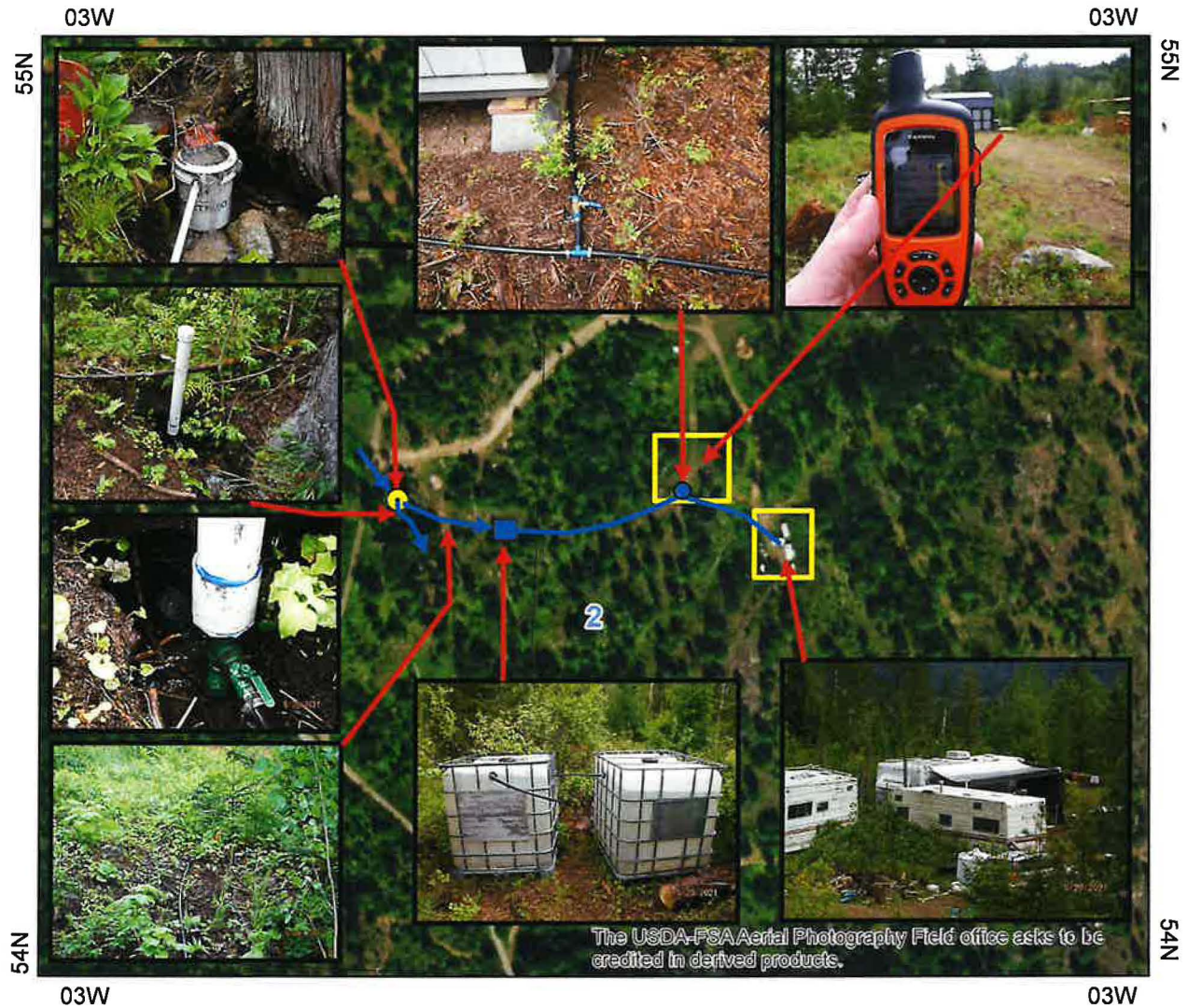
I. AUTHENTICATION

Luke Bates - Water Resource Agent

Field Examiner's Name J. B. K. Date 9/29/2021
Reviewer Adm. F. Date 11/17/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9679

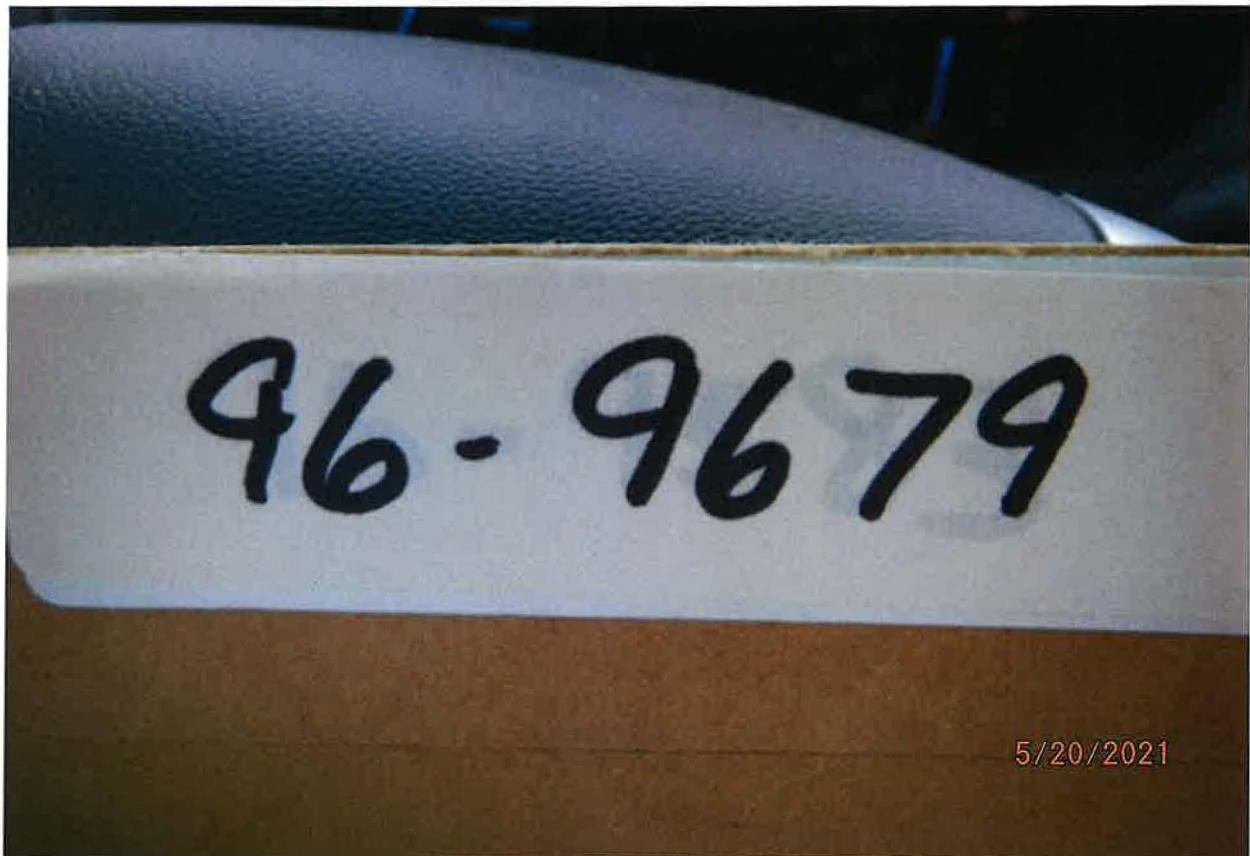
DOMESTIC system diagram.



- 03W 03W
- Point of Diversion
 - Place Of Use Boundary
 - Townships
 - PLS Sections
 - Quarter Quarters

0 0.035 0.07 0.14 Miles





FIELD EXAM DATE 5/20/2021



POD – CREEK DIVERSION TO RAM PUMP OPERATION – 10 FT OF 1" DRIVE PIPE TO RAM PUMP



RAM PUMP SITUATED IN CREEK





½ INCH DELIVERY PIPE FROM RAM PUMP TO STORAGE TANKS





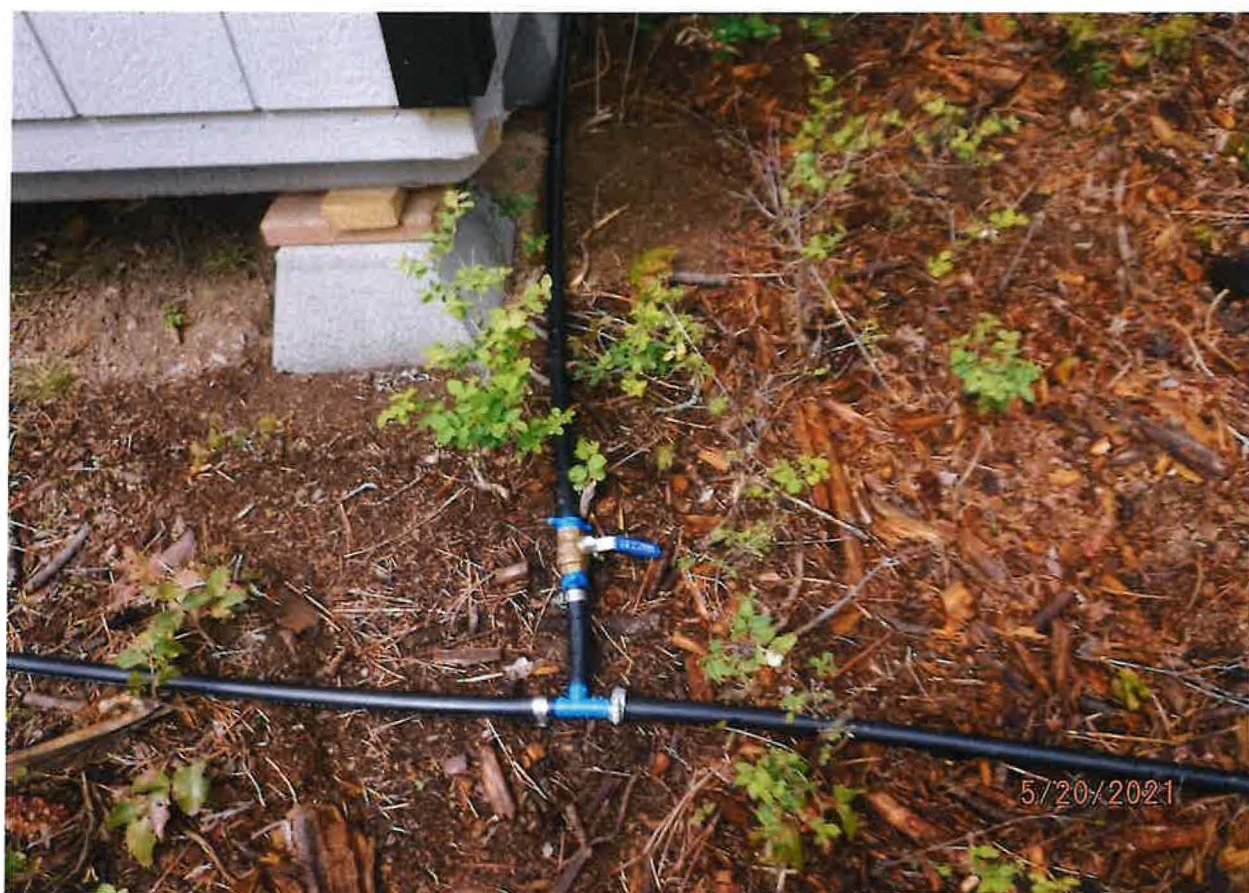
2 EA 275 GALLON STORAGE TANKS USED IN WATER SUPPLY SYSTEM



DISCHARGE LINE FROM L/H TANK RETURNS OVERFLOW WATER BACK TO CREEK



POLY LINE FROM STORAGE TANKS TO POU



TEE LINE – STUB IN TO DOMESTIC POU



DOMESTIC POU



GPS LOCATION OF HOUSE BUILT – DOMESTIC POU