

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

A. GENERAL INFORMATIONPermit No: 91-08029

Exam Date: 10/31/18

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: Jim Lyon and/or Lisa Lyon
2207 E Loch Haven Dr.
Hayden, ID 83835

Owner of Record Correct? ___ Y ___ N

Address of Record Correct? ___ Y ___ N

If No: Address

NOTE: Owner of record determined by checking Benewah County Parcel Information System.3. Beneficial Use Fees have been paid: X Y ___ N Receipt No: C1056994. **SOURCE** TRIBUTARY

St. Joe River

Coeur d'Alene Lake

Method of Determination: Source and tributary determined by ArcGIS

Change in Source: ___ Y ___ X ___ N

B. OVERLAP REVIEW1. Other water rights with the same place of use: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis
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Comments:

In checking ARC Map and Query six neighbors show Water Rights in the neighboring lots. POU's however, are limited to the individual lots.2. Other water rights with the same point of diversion: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis
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Comments:

In checking ARC Map and Query six neighbors show Water Rights in the neighboring lots. POD's however, are different from the POD for this right.**C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
St Joe River	12		NE	SE	16	46N	01W	B.M.	Benewah

Method of Determination: Permit lists POD and ArcMap confirms

Change in POD? ___ Y ___ 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	01W	16													X				
		Lot #													12				
Total Acres =																			.8

Method of Determination: Acreage determined by reference to ARC GIS. POU confirmed by ArcGIS and tax lot informationChange in POU? Y X N Amendment Required? Y X N

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
Indicate weir size/pipe as applicable.

Aerial Photo Attached (required for irrigation of 10+ acres).

Photo of Diversion and System Attached

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Unknown	1			

*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. Measurements: No flow measurement possible due to in-house exam. A theoretical calculation was done based on information in the application for permit and contour lines on ArcMap

E. FLOW CALCULATIONSAdditional Computation Sheets Attached

Measured Method:

Per IDWR standard: Assume pump efficiency = 0.7 (70%) and PSI = 30psi for small irrigation. Lift estimated from Contour Elevations (GIS visual, 40 ft. min. unit) between pump and field = 10.

Pump horsepower was determined by information in application for permit.

$$Q = [(8.8) (1HP) (.70)]/[10\text{Lift} + (50\text{PSI} \times 2.31)] = .049 \text{ cfs (rounded to .05cfs)}$$

Theoretical = 0.05 cfs

Permit allowed = 0.04 cfs

License recommend for 0.04 cfs.

F. VOLUME CALCULATIONS1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses:

Domestic Calculations determined using Administrative Memo #22 = 1.2 af

G. PURPOSE OF USEIrrigation ☐ Y ☒ X ☐ N # Stock _____Domestic # of Homes 1

Other: None

Change in Purpose of Use? ☐ Y ☒ X ☐ NMethod of Determination: Beneficial use determined from information in application and permit.

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

H. NARRATIVE/REMARKS/COMMENTS

The applicants submitted their statement of completion for submitting proof of beneficial use on 9/24/18 for this water right. Review of the application shows that a fish screen is required and installed. A measuring device is not required and a lockable device is not required to control the diversion. The use is for 1 household including irrigation of not more than .2 acres. The total rate of diversion or storage volume submitted was .04 cfs. Based on diversion rate this qualifies for an in-house review. The owner of record is correct and address is correct based on Bnewah County Parcel Information. The fees have been paid (receipt was attached) and the source, listed as St. Joe River - tributary of Coeur d'Alene Lake was confirmed by referring to ArcGIS. Overlap include POU's and POD's on separate lots neighboring or nearby. No actual overlap was found according to IDWR database/ArcMap. Point of Diversion was confirmed through ArcMap and Place of Use was confirmed using ArcMap and tax lot information. Applicant listed a 1 hp pump as the system of diversion. Using a theoretical calculation of the information provided in the application and the contour lines in ArcMap allowable flow measurement was determined to be up to .05cfs – as .04cfs was requested via the application and proof of beneficial use the license will be for .04cfs.

- .029 – Fish and Game Screening

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	03/15 to 10/31	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 – Rosemary DeMond, Administrative AssistantField Examiner's Name Rosemary DeMondDate 10/31/18Reviewer Daniel A. MillerDate 11-1-18

Permit 91-8029 - In House Exam Map

The yellow border below shows the place of use and the yellow dot shows the place of diversion. The entire POU is within lot 11 of Cedar Grove Subdivision.



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Taxlots

0 0.035 0.07 0.14 Miles



Permit 91-8029

Parcel Information from Benewah County.

