

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

A. GENERAL INFORMATIONPermit No: 96-16021

Exam Date: 08/26/2024

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y ___ N
- a. Irrigation of 5 acres or less
 - b. Storage of up to 14.6 AF for stockwater purposes only
 - c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - d. Other < >

2. Current Owner: Name: Anna and William Largen
Owner of Record Correct? X Y ___ N
Address of Record Correct? X Y ___ N
If No: Address

3. Beneficial Use Fees have been paid: X Y ___ N Receipt No: N044711

4. SOURCE TRIBUTARY
Spring Sinks

Method of Determination: GIS and Parcel Data

Change in Source: ___ Y ___ X ___ N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: No Overlap

Water Right No.	Source	Purpose of Use	Basis
None			

Comments:

No water rights overlap the POU. There are no overlap concerns.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Spring		SW	SW	SE	27	55N	02W	B.M.	Bonner

Method of Determination: GIS and Parcel data.Change in POD? X ___ N Amendment Required? X ___ N

2. **PLACE OF USE:** Use: Domestic and Stockwater

TWP	RGE	Sec	NE				NW				SW				SE				Total s
			NE	N W	S W	SE	NE	N W	S W	SE	NE	N W	S W	SE	NE	N W	S W	SE	
55N	02W	27															D		
55N	02W	27															S		
Total Acres =																			N/A

Method of Determination: GIS and aerial imageryChange 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 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 Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
PUMP					

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, but Applications Processing memo #17 and a theoretical calculation were used to determine an acceptable rate.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

No information on the pump was provided by the permit holder. Per Processing Memo #22, a diversion of 13,000 gallons daily is allowed for domestic use (0.04 cfs as a constant flow rate). Per Processing Memo #3, 20 head of range cattle is assumed to give a generous estimate of the stockwater need of 20 mixed livestock, equating to a diversion rate of 0.02 cfs. I am recommending a total diversion rate of 0.06 cfs for supplying the needs of a single home and 20 mixed livestock. Correspondence with the permit holder has confirmed the existence of a garden somewhere within the place of use, thus an irrigated area of 0.5 acres is assumed for the purposes of the volume calculations below.

0.04 cfs (domestic) + 0.02 cfs (20 head range cattle) = 0.06 cfs

Permitted Rate = 0.06cfs

Theoretical Rate = 0.06 cfs

B.U Limit = 0.06 cfs

Recommended Rate = 0.06 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

V = (Acres Irrigated) x (Irrigation Requirement) = N/A
I.R.

$V = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\text{N/A}}$
 D.R.
 $V = \text{Smaller of } V_{\text{I.R.}} \text{ and } V_{\text{D.R.}} = \underline{\text{N/A}}$

2. Volume Calculations for Other Uses:

1.2 AFA (domestic) + 0.2 AFA (stockwater) = 1.4 AFA

G. PURPOSE OF USE

Irrigation ☐ Y ☒ X ☐ N # Stock 20 Domestic # of Homes 1

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Tax lot data and documentation from owner.

H. NARRATIVE/REMARKS/COMMENTS

Permit 96-16021 qualifies for an in-office examination because the permitted rate is less than 0.24 cfs and there is no storage component.

The information for the current permit holder matches the information on the statement of completion provided to the Department. Provided pictures show the diversion works and pump.

The permit holder described the delivery system as drawing water from a spring cistern with a pump. No delivery system diagram was provided. The domestic portion of the permit includes both the structure contained within the place of use and a small garden to its southwest. No barn has been constructed per communications with Mr. Largen (See correspondence in licensing file). Consequently, the place of use has been adjusted from its shape in the permit stage to represent the domestic indoor use and outdoor irrigation. Per guidance from application processing memo #22 a generic volume of 1.2 acre feet annually and diversion rate of 0.04 cfs is recommended for domestic use for a single household when outside irrigation is included. Application processing memo #3 recommends 0.2 acre feet annually and a diversion rate of 0.02 cfs for 20 head of range cattle (used as a general approximation for mixed livestock). I am recommending a diversion rate of 0.06 cfs for the supply of a home and 20 head of mixed livestock.

Condition X01 and 187 will be retained in keeping with the definition of a domestic right per Processing Memo #22. Condition X02 will be removed as per department standard at licensing, see the usage description for X02. Condition 004 will be removed as there are no property concerns.

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

I. RECOMMENDATIONS**1. Recommended Amounts**

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
Domestic	01/01 to 12/31	0.04 CFS	1.2 AFA
Stockwater	01/01 to 12/31	0.02 CFS	0.2 AFA
<u>Totals:</u>		0.06 CFS	1.4 AFA

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ X None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ X None

Other: < >

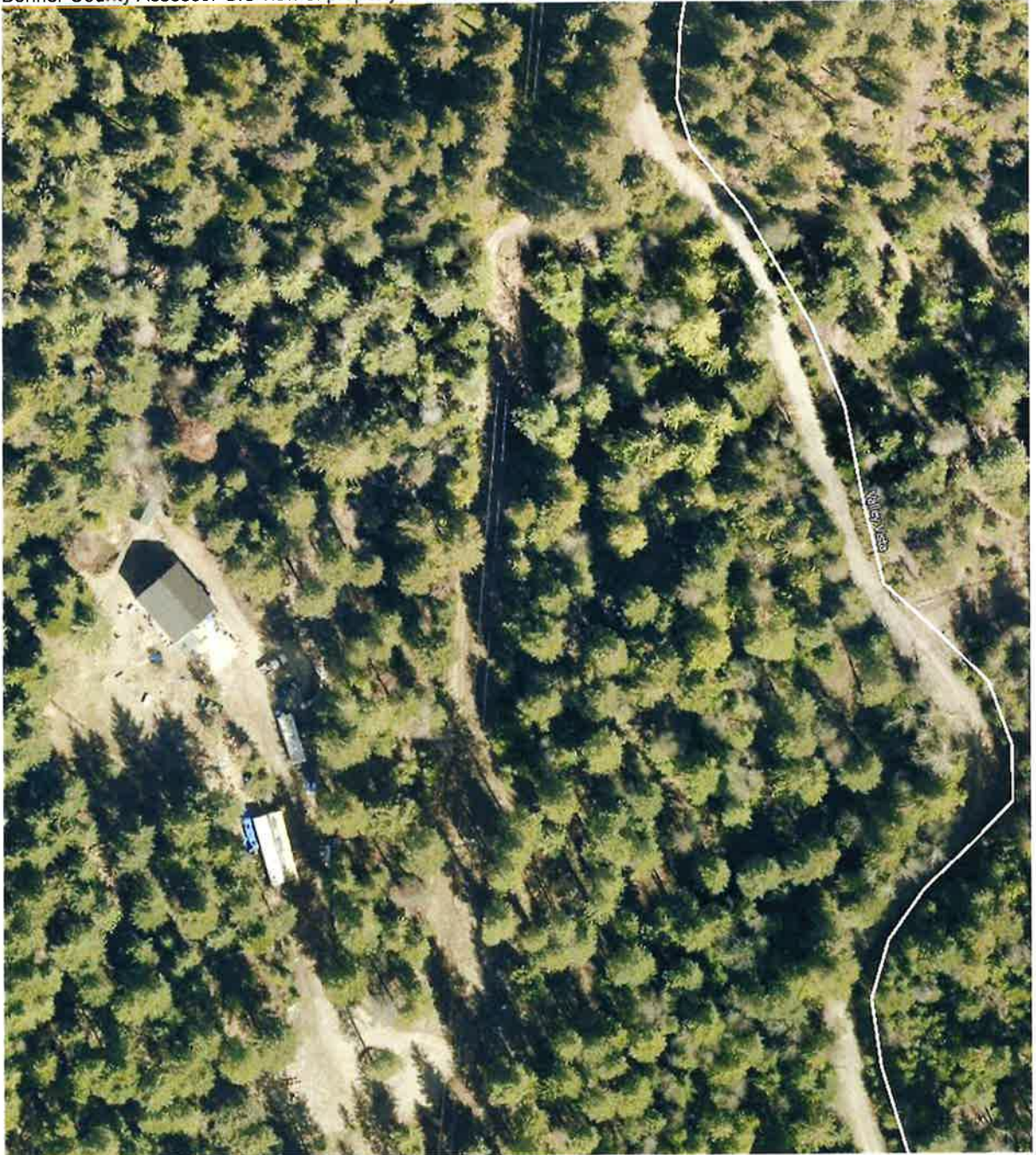
J. AUTHENTICATION- Water Resources Agent- Jacob Caraig

Water Resources Agent's Name Jacob Caraig Date 10/10/2024

Reviewer HR Date 10/16/24

Supporting Imagery –

1. Bonner County Assessor GIS view of property



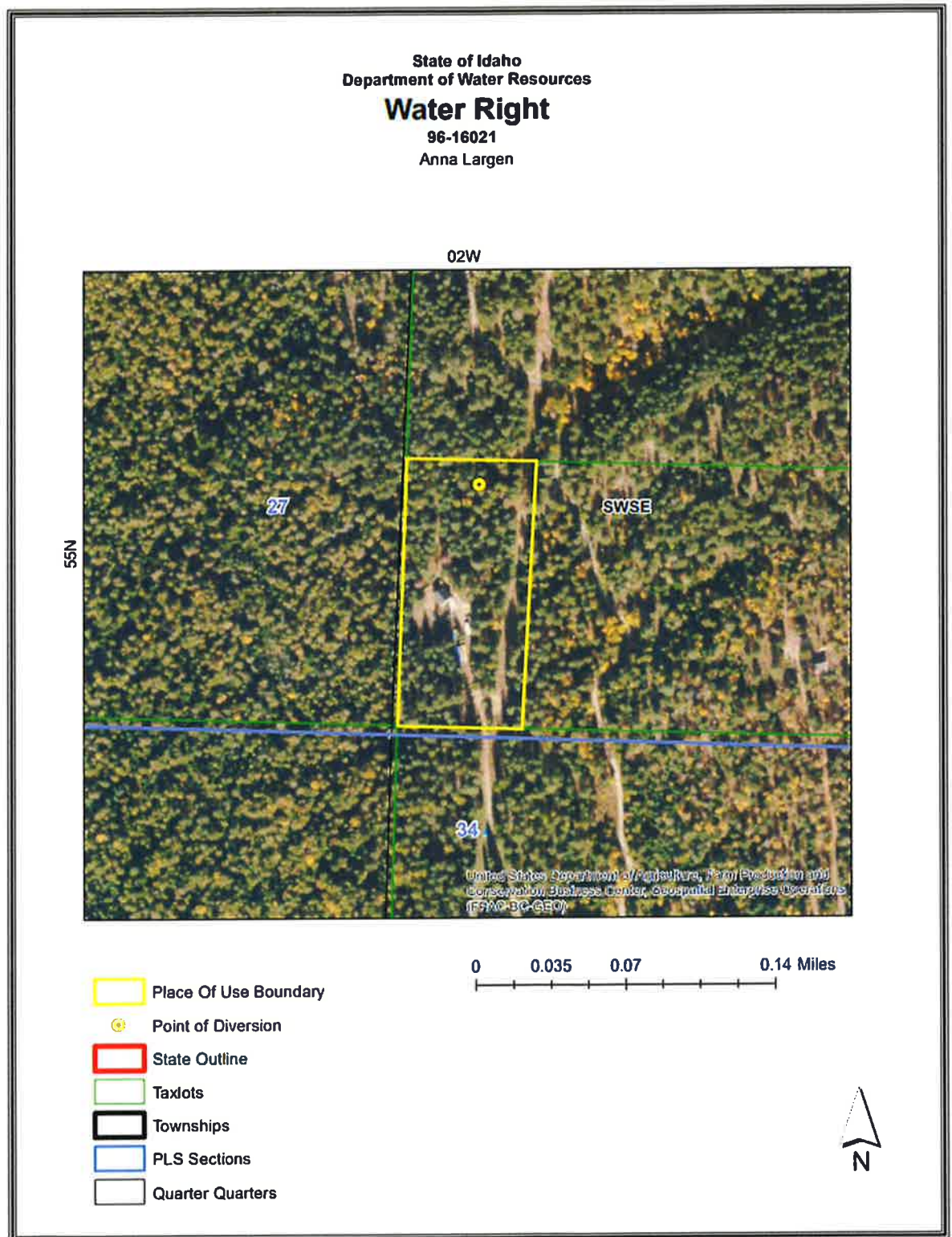
2. Pictures of point of Diversion: (Top) Pump and filtration system drawing from (Bottom) pool fed by sinking spring



3. Map of Place of use and Point of Diversion for Domestic indoor and outdoor irrigation beneficial use



4. Map of Place of Use and Point of Diversion for Stockwater beneficial use



Caraig, Jacob

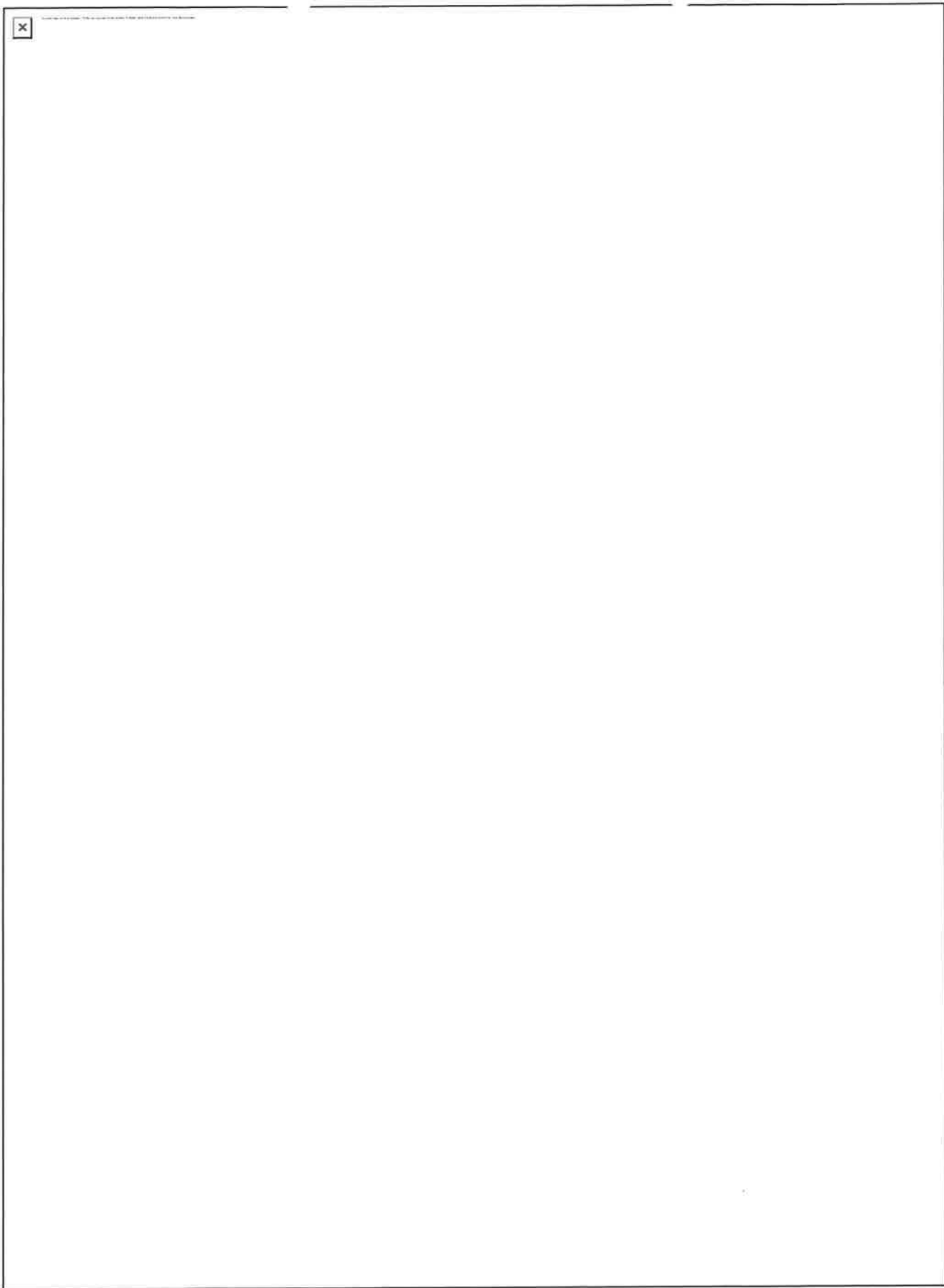
From: 12bravo SGT <12bravosgt@gmail.com>
Sent: Wednesday, September 18, 2024 4:59 PM
To: Caraig, Jacob
Subject: Re: Place of use for Licensing of Permit 96-16021
Attachments: image001.png

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

It's just SW of the structure about 30ft from the SW corner. I'll try to mark up the image but I don't have a printer or edit tools.

On Tue, Sep 17, 2024, 12:20 PM Caraig, Jacob <jacob.caraig@idwr.idaho.gov> wrote:

Thank you for the clarification, could you outline on this picture the approximate location of the garden? Is it closest to the structure on the East or West end of your parcel?



-Jacob Caraig

From: 12bravo SGT <12bravosgt@gmail.com>
Sent: Tuesday, September 17, 2024 11:45 AM
To: Caraig, Jacob <jacob.caraig@idwr.idaho.gov>
Subject: Re: Place of use for Licensing of Permit 96-16021

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We have a small garden, but no lawn or green house

On Tue, Sep 17, 2024, 8:57 AM Caraig, Jacob <jacob.caraig@idwr.idaho.gov> wrote:

Apologies, I forgot to ask this earlier but do you also use the domestic portion of your permit for irrigation? I don't see any lawns, gardens, or greenhouses from our current imagery, but I just wanted to double check.

-Jacob Caraig

From: 12bravo SGT <12bravosgt@gmail.com>
Sent: Tuesday, August 27, 2024 3:11 PM
To: Caraig, Jacob <jacob.caraig@idwr.idaho.gov>
Subject: Re: Place of use for Licensing of Permit 96-16021

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Not yet but some time in the future.

On Tue, Aug 27, 2024, 12:21 PM Caraig, Jacob <jacob.caraig@idwr.idaho.gov> wrote:

Good afternoon Mr. and Mrs. Lagen,

I am currently processing the conversion of your permit (96-16021) into a license and wanted to ask you about your 20 head of livestock. Specifically, do you have a barn you keep them in or any similar structure? Ultimately such information isn't necessary, but it would be helpful for drawing an accurate place of use for licensing.

Thank you for your time,

-Jacob Caraig

Jacob Caraig

Idaho Dept. of Water Resources

Engineer Intern

Office # 208-287-4879

Jacob.Caraig@idwr.idaho.gov

<https://www.idwr.idaho.gov/water-rights/>