

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

A. GENERAL INFORMATION

Permit No: 95-16931

Exam Date: 07/02/13

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: Todd Brinkmeyer
Owner of Record Correct? X Y N
Address of Record Correct? X Y N
If No: Address

Tax records show the parcel associated with this permit is owned by Todd Brinkmeyer.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C105864

4. <u>SOURCE</u>	<u>TRIBUTARY</u>
1. <u>NAME</u>	
2. <u>LOCATION</u>	
3. <u>DATE</u>	
5. <u>REMARKS</u>	

Ground Water

Method of Determination: Well Driller Log from Wells data, well ID 442459, tag number D0069681 shows well drilling was completed on 9/29/2015.

Change in Source: Y X N

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
95-11706	Coeur d'Alene Lake	Irrigation	Claim-Recommended Disallowed

Comments: The only direct overlap was 95-11706. This was an adjudication claim filed by the current land owner but was recommended disallowed by the adjudication because there was not sufficient proof provided to show the beneficial use prior to the mandatory permit statute. All other potential overlapping places of use and places of diversion were determined to not be direct overlaps.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There is an exempt domestic well on the property. This well was mentioned in the application as being used for domestic lawn and garden. The application lists the well tag as D0028259 however, the drillers log lists this tag as D0040243. I have notified personnel in charge of this data within the Department of Water Resources of this error. It is not a concern at this time.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

[illegible]

Method of Determination: Well data and parcel data reviewChange in POD? X N Amendment Required? N2. 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	
50N	04W	8		1															
		Lot #3																	
Total Acres =																			1

Method of Determination: Tax parcel data and GIS reviewChange in POU? X N Amendment Required? N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). 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
442459					

*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

2. Measurements: < >**E. FLOW CALCULATIONS** Additional Computation Sheets Attached

Measured Method:

1 acres * (0.03 cfs) = 0.03 cfs

Per processing administrative memo #17 = 0.03 cfs

Permit allowed = 0.12 cfs

When delineating the actual irrigated land surface in GIS (excluding areas covered by driveways, parking areas, beach and buildings), total irrigated area came to 1 acre. Per Application Processing Memo # 17, a rate of up to 0.03cfs/acre is allowed for irrigation of up to five acres. I am therefore recommending this permit be licensed for a rate of 0.03 cfs.

License recommend for 0.03 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \times 3 = 3$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \times 246 \times 1.9835 = 53.6$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3 \text{ af}$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USEIrrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: _____

Change in Purpose of Use? ☐ Y ☐ NMethod of Determination: Tax Parcel dataIf Yes: From Use 3/15 To Use 11/15 Amount 0.03 CFS 3 AFA _____**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-house field examination. The application was originally for a diversion rate of 0.12 cfs on 4 acres for irrigation of greenspace and trees throughout the property. The application stated that an 8" diameter well may be required to reach the target volume. In reviewing the driller's log, I see that an 8" casing was drilled to a depth of 197 feet and a 7" screen from 196 to 202 feet. In the application, there was also a comment about an existing exempt well on the property used for domestic lawn and garden. Because the new well covered in the current license review is for irrigation of the entire greenspace of the property, I am recommending the exempt well only be used for in-house use. During overlap analysis, several places of use and point of diversions showed up as overlapping. Upon further examination, all but one was found to not be direct overlaps. Claim #95-11706 was a direct overlap. This was a claim filed by the applicant for irrigation sourced from Coeur d Alene Lake. The claim was declared disallowed because there was not sufficient proof provided to show beneficial use prior to the mandatory permit statute date.

When I outlined the property in Arc GIS to only include irrigated areas (excluding area covered by pavement, buildings and beaches) I came up with a total acreage of 1 ac. In reviewing NAIP imagery from 2017 and Google Earth imagery from 06/20/2017 and 07/14/2018, it is apparent that no irrigation has taken place outside of the lawn, landscaping and trees immediately surrounding the main structure. The north portion of the property, between the main road and the irrigated lawn, shows no signs of irrigation in all aerial imagery available between the time the permit was issued and the current year (2018). Additionally, when reviewing Sentinel remote sensing data for the summer months over the years since permit issuance, it is also apparent this area had not been irrigated. As such, I have adjusted the place of use to reflect the area that has been irrigated and total acreage for that area equaled exactly 1 acre. This is under the 5 acre limit established by Application Process Memo 17 and therefore allows for up to 0.03 cfs of diversion per acre. Using these numbers and the headgate requirements of 3 for this area I am recommending this license be approved for 0.03 cfs on 1 acre at a total of 3 acre-feet per year.

Permit conditions 1,2,3 and 5 will be removed at licensing as I standard. Conditions 4, 6 and 7 will be carried forward to 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>
Irrigation	04/01 to 10/31	0.03 CFS	3 AF
<u>Totals:</u>		0.0 CFS	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 - Scott Storms - Senior Water Agent

Field Examiner's Name

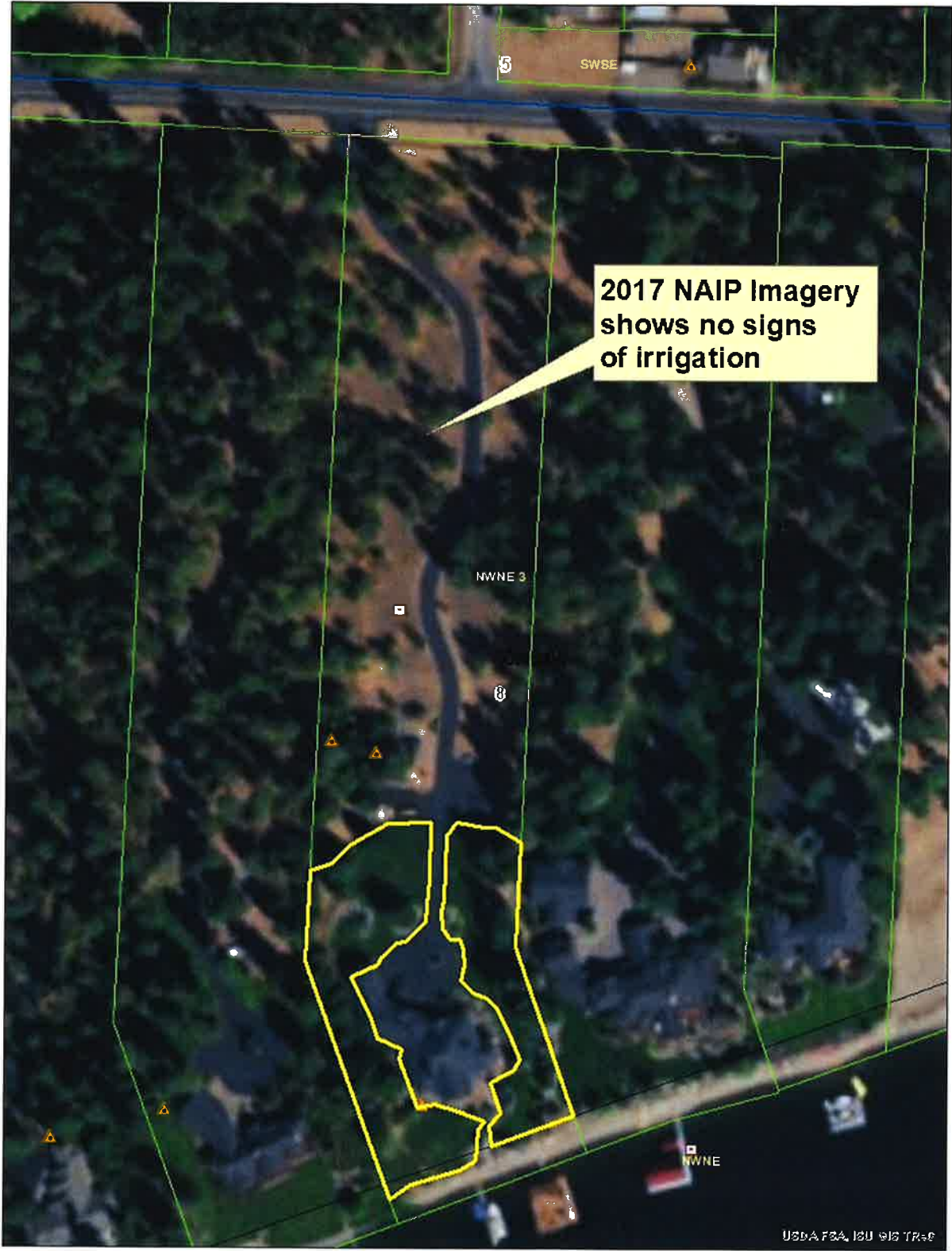
Date

12/19/2018

Reviewer

Date

12-20-18



2018 Google Earth Imagery - No signs of irrigation in north 3/4 of property

Legend



Google Earth

200 ft

