

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

A. GENERAL INFORMATIONPermit No: 63-34354Exam Date: 12/27/17

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: Church of Jesus Christ Latter-day Saints
- 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: C103154

4. SOURCE TRIBUTARY

Groundwater

Method of Determination: Taxlots, GIS, well driller's report and water right field exam 63-10522

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
63-10522	Groundwater	Irrigation	Decree
Boise Kuna Irrigation District	Boise River	Irrigation	Decree
City of Kuna	Groundwater	Municipal	License

Comments: Water right 63-10522 was licensed in 1987 for irrigation of 1 acre of yard around the church. The church actually has 2.5 acres of irrigation. This permit is used to cover the entire irrigated area for the church. Boise Kuna Irrigation District water is diverted for irrigation from two sump pumps on the north side of the property to supply water to the same 2.5 acres; however, the application states that Boise Kuna Irrigation water is no longer available to the property. City of Kuna water covers in-church water use.

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

Water Right No.	Source	Purpose of Use	Basis
63-10522	Groundwater	Irrigation	Decree
Boise Kuna Irrigation District	Boise River	Irrigation	Decree

Comments: Water right 63-10522 was licensed in 1987 for irrigation of 1 acre of yard around the church. The church actually has 2.5 acres of irrigation. This permit is used to cover the entire irrigated area for the church. Boise Kuna Irrigation District water is diverted for irrigation from two sump pumps on the north side of the property to supply water to the same 2.5 acres however, the application states that Boise Kuna Irrigation water is no longer available to the property.

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

Source	Govt Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well			SW	SW	24	02N	01W	B.M.	Ada

Method of Determination: Taxlots, GIS, Well driller's report and water right field exam 63-10522

Change in POD? __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	
02N	01W	24											1.5						1.5
		Lot #																	
Total Acres =																			1.5

Method of Determination: Taxlots, GIS, Well driller's report and water right field exam 63-10522

Change 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.

__ 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
Unknown	Submersible	2HP			

*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
None						

2. Measurements: See field exam from water right 63-10522.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Please see field exam for water right 63-10522 for flow calculations.

Measurement = 0.11 cfs

Water Right 63-10522 authorizes = 0.02 cfs

Available water = 0.09 cfs

Permit allowed = 0.05 cfs

Acre limit = 1.5 acres X 0.03 cfs = 0.05 cfs

I am recommending 0.05 cfs, since the capacity of the well appears to be able to cover all the acres irrigated and the permit diversion rate matches the acres actually developed.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{1.5 \text{ acres} \times 4.5 \text{ afa} = 6.75 \text{ AF}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{0.05 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 25.8}$$

$$V = \text{Smaller of } \begin{matrix} V_{I.R.} & \text{and} & V_{D.R.} \end{matrix} = \underline{6.8 \text{ af}}$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USEIrrigation X Y N # Stock Domestic # of Homes

Other: < >

Change in Purpose of Use? Y X N

Method of Determination: Application, Statement of Completion, GIS, water right field exam 63-10522

If Yes: From Use To Use Amount CFS AFA **H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-house exam. This water use was previously field examined in water right 63-10522. Please see that field exam for more specific details of the system.

Water for this permit is used to irrigate 1.5 acres of lawn around the church property. Groundwater is diverted from an existing well with a 2HP pump. This point of diversion is shared with water right 63-10522 and Boise Kuna Irrigation District and is used to irrigate 2.5 total acres around the church property. (Water right 63-10522 authorizes irrigation of 1.0 acres.) The authorized diversion rate and volume were based on available water from the well at the shared point of diversion and the number of acres developed.

In addition to water right 63-10522, overlapping places of use include the Boise Kuna Irrigation District water and City of Kuna water (covers in-church water usage). The field exam for 63-10522 states that water use is combined with Boise Kuna Irrigation District but the examiner did not know if the church was authorized any of that water. Water right 63-

10522 was also licensed and decreed without supplemental conditions mentioning Boise Kuna Irrigation water. The application for this water right states that Boise Kuna water is no longer available to the property. Therefore, it appears as though the only source irrigating this property is groundwater.

Condition 1 (236) was removed because the condition had been met with the permit. Condition 2 (806) was removed because the condition is no longer active. Condition 3 was added to clarify the shared point of diversion. Conditions 4 and 5 were added to identify the point of diversion and point of use.

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	03/01 to 11/15	0.05 CFS	6.8 AF
	<u>Totals:</u>	0.05 CFS	6.8 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 – Rachael Smith – Water Right Agent

Field Examiner's Name Rachael Smith Date 12/27/17

Reviewer David D. Smith Date 12/28/17