

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-34706
Exam Date: 05/17/2022

1. Current Owner:
STEINER LIVING TRUST 7978 BASE LINE RD MELBA ID 83641-5122
2. Accompanied by:
Phone No: 208-250-4394
Address: 7978 BASE LINE RD MELBA ID 83641-5122
Relationship to Permit Holder: Permit Holder

3. **SOURCE:**
WASTE WATER

Tributary
SNAKE RIVER

Method of Determination: Aerial photography and site visit

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
WASTE WATER SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 35, Twp 01N, Rge 02W, B.M. CANYON County

Method of Determination: Site visit, aerial imagery

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	02W	35											1.3						1.3

Total Acres: 1.3

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	02W	35											X						

Method of Determination: Site visit, aerial imagery

3.
 - X 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.
 - N/A 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
1072649	General Electric	10	5XC38PN3011AI	General Electric	N/A

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Measurements: None taken**E. FLOW CALCULATIONS**N/A Additional Computation Sheets Attached

Measured Method: Following IDAPA Beneficial use exam rules 35.01.(r). no measurement was taken.

Standard Irrigation Rate 0.04 cfs

Standard Stockwater Rate 0.02 cfs

Total Permitted Rate 0.11 cfs

Total License Recommendation 0.06 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.3 \text{ acres} \times 4.5 \text{ AFA} = 5.85 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ cfs} \times 259 \text{ days} \times 1.9835 = 20.55$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 5.85 \text{ AF}$$

2. Volume Calculations for Other Uses:

Annual Use of Water for Stockwater Purposes using Processing Memo #3

$$10 \text{ LIVESTOCK} \times 0.0134 = 0.134 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

A field exam was conducted on May 17, 2022, by Senior Water Right Agent Marcelina Williams and was accompanied by the applicant, Mr. Steiner. The permit was approved on December 3, 2019, and proof of beneficial use was submitted on November 30, 2020

The point of diversion (POD) location was confirmed as wastewater from the Grouch Drain in the SWSW of Sec 35, T01N, R02W, and is accurately described by the permit. Water is diverted from the Grouch Drain via a gravity ditch system and then fed into a series of two sediment settling ponds. The first pond is approximately 20 X 30 ft. and 3 ft. deep, and the second one is approximately 25 X 30 ft. and 4 ft. deep. The first pond is connected to the second one via a small gravity fed channel. Another gravity fed channel is maintained leaving the second pond. This channel feeds the wastewater ditch allowing for water not being used to flow through and stay in the system. A 10 hp motor and a General Electric pump then divert water throughout the POU from the second pond. No overlapping PODs were found. No amendment is required to correct the legal descriptions.

From the second pond a 4-inch main line goes under the driveway and up the west side of the property to attached 4 separate 2-inch lines. Each 2-inch line has 4 rainbird sprinklers attached that water approximately 1 acre behind the house. Additionally, approximately 0.3 of an acre is watered in the southwest corner via a 4-inch main line that comes from the second pond and attaches to a 2-inch line with 5 rainbird sprinklers. It should be noted the irrigated lawn directly to the south and east of the home is watered from the domestic well. Stockwater was confirmed with 3 horses on the property. The permit authorizes 0.11 cfs for stockwater and irrigation use within the SWSW of Sec 35, T01N, R02W. ArcMap tools and aerial imagery, supported by photos taken during the field exam, were used to verify the area of irrigation and stockwater use. No amendment required to correct the legal description of the POU.

Pump and motor information was provided by the applicant. Using department standards of 0.03 cfs per acre and following Processing Memo #3 flow rate of 0.06 cfs was calculated which is less than the permitted rate. The recommended license flow rate for stockwater use is 0.02 cfs and 0.04 for irrigation. Making a total license recommendation of 0.06 cfs.

Condition 103 replaced condition 121, and R02 replaced 01H per department standards. Conditions R69, R05, 01R, 176, ad written in condition "Source locally known as Grouch Drain" were carried forward to license.

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>
IRRIGATION	03/01 to 11/15	0.04 CFS	5.85 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.2 AF

Totals: 0.06 CFS 6.1 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

I. AUTHENTICATION Marcelina Williams - Water Resource Agent, Sr

Field Examiner's Name Marcelina Williams Date 08-20-24
Reviewer [Signature] Date 8/20/24

DELIVERY SYSTEM DIAGRAM

Water Right No. 63-34706





Fig. 1& 2 – Location of pump to divert irrigation water from flow through pond 2. Located in the SWSW QQ. View looking E.





Fig. 3 Location of pump to divert irrigation water from flow through pond 2. Located in the SWSW QQ. View looking E.



Fig. 4 – Pump Information.



Fig. 5 & 6 – POD from Grouch Drain into flow through pond 1. Conveyance is underground piping with and unknown diameter. View looking SW.

GPS'd at:

43° 22' 22" N

116° 33' 60" W





Fig. 7 & 8 – Flow through pond 2 has an exit into Grouch Drain via an unknown diameter pipping.

