

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 23-11477

Exam Dates: 06/17/2025

Accompanied by: Shane Fleming, property manger

Examiner: Christian Stewart, IWDR Senior Water Resource Agent

1. Current Owner:

CITY OF SWAN VALLEY
PO BOX 105
SWAN VALLEY, ID 83449

2. **SOURCE: GROUND WATER**

B. OVERLAP REVIEW

1. Place of Use: No overlap.

2. Point of Diversion: No overlap.

C. DIVERSION AND DELIVERY SYSTEM

Water is pumped from a sandpoint well (<18ft) into the pond.

1. **POINT OF DIVERSION:**

GROUND WATER SE¼ SW¼, Sec. 36, Twp 02N, Rge 43E, B.M. BONNEVILLE County

2. **PLACE OF USE: WILDLIFE STORAGE**

Twp	Rng	Sec	NE				NW				SW				SE				Total s
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N	43E	36												X					na

Method of Determination: Site inspection. Aerial imagery.

3. DELIVERY SYSTEM DIAGRAM

4. SYSTEM SPECIFICATIONS:

Sandpoint well with small submerged pump

D. FLOW MEASUREMENTS

Measurement Equipment: 5 gallon bucket

Repeated tests of capturing flow from the pump with the 5 gallon bucket yielded an average of 1.50 seconds to fill the bucket to the 4 gallon mark.

$4 \text{ gal} \times 60 \text{ seconds} / 1.5 \text{ seconds} = \mathbf{160 \text{ gpm or } 0.36 \text{ cfs}}$

The closed conduit pipe did not have a good measurement site, as most of it was buried or curved. There was a highly turbulent, short channel where the open discharge from the sandpoint well flows into the pond. Due to the characteristics of this channel, it was too rocky, shallow and turbulent to gain an accurate measurement with a flowtracker.

F. VOLUME CALCULATIONS

1. Volume Calculations:

Storage Surface Area: 0.6 acres

Pond Depth: 12 ft

Pond Volume: $(\text{max depth } (12) \times \text{surface area}(0.6) \times 0.4) = 2.9 \text{ af}$

Evaporation = **0.7 AF** per year $(0.6 \text{ acres} \times 1.2 \text{ ft/yr precipitation deficit at Swan Valley})$

G. NARRATIVE/REMARKS/COMMENTS

This application was advertised for and applied for having 4.5 acre-feet of wildlife storage. The permit was issued only with the evaporation component of 0.9 AF for wildlife storage. Since initial fill mitigation was performed for 3.6 AF for initial fill, this component of the water right was not included on the license, although subsequent refills would need to be mitigated for. The pond was permitted for 0.8 acres surface area and 3.6 acre feet, but the constructed pond was smaller than permitted.

The pump can circulate water to decrease the pond temperature and oxygenate the water. The sandpoint well is located about 5 feet from the edge of the pond. The pump runs continuously, but under normal conditions when the pond is full, the pump is not diverting groundwater as much as it is recirculating water already stored, excepting the quantity diverted for evaporation losses or to fill the pond. Thus, the sandpoint well acts as both a diversion and a landscaping feature to recirculate water that has already been stored.

During the 2019 season, water right 23-11468 was not used on 2 acres due to construction activities at the place of use. 0.2 acres of right 23-11468 is still listed for mitigation of this right.

Have conditions of permit approval been met? X 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>
WILDLIFE STORAGE	01/01 to 12/31		0.7
DIVERSION TO STORAGE	1/01 to 12/31	0.36	

Totals: 0.36 CFS 0.7 AF

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

I. AUTHENTICATION Christian Stewart, IDWR Senior Water Resource Agent

Field Examiner's Signature Christian J Stewart

Reviewer Blake Jordan 8/21/2025

Date 8/20/25

State of Idaho
Department of Water Resources

Water Right

23-11477

City Of Swan Valley

August 01, 2025

43E



 Place Of Use Boundary

 Point of Diversion

 State Outline

Taxlots

 Townships

 PLS Sections

 Quarter Quarters

0 0.035 0.07 0.14 Miles




Decorative stream channel where water from sandpoint well is discharged in to the pond



📍 254°W (T) 📍 43.454302°N, 111.342870°W ±141ft



17 Jun 2025 10:28:53

View of the pond



☀ 249°W (T) ● 43.454376°N, 111.343019°W ±19ft



Submersible pump inside of the sandpoint well



☀ 99°E (T) ● 43.454307°N, 111.342963°W ±39ft



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