

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-34666
Exam Date: 3/5/2025

1. Current Owner:
JOPLIN LAKE LLC 11450 JOPLIN RD BOISE ID 83714-1001

2. Accompanied by: Mark Guho
Phone No: (208) 841-4715
Address: 11330 Joplin Rd. Garden City, ID
Relationship to permit Holder: Joplin Lake LLC Manager

3. **SOURCE:**
GROUND WATER

Tributary
BOISE RIVER

Method of Determination: ArcMap, Proof of Beneficial Use, In-Person Field Examination

B. OVERLAP REVIEW

1. Other water rights with the same place of use: **YES** Overlap

Water Right No.	Source	Purpose of Use	Basis
63-34149	Groundwater	Commercial	Permit

Comments: Permit 63-34149, owned by Sunroc Corp., shows as a partial overlap in the NWSW ¼ ¼ of 04N01E Sec. 23. Permit 63-34149 POU outlines the parcel owned by Clements Concrete Co., rather than their actual place of use. It was confirmed by Mark that Clements Concrete Company place of use does not overlap with 63-34666. The place of use will be updated at licensing and should no longer appear to overlap with WR 63-34666.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no overlapping points of diversion with water right 63-34666.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L9 (SW¼ SW¼), Sec. 23, Twp 04N, Rge 01E, B.M. ADA County

Method of Determination: ArcMap Aerial Imagery, Proof of Beneficial Use, In-Person Field Examination

PLACE OF USE: AESTHETIC STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	01E	26						X											
04N	01E	23							X L8		X	X	X L9						
04N	01E	23									X L6	X L8							
04N	01E	23									X L10	X L9							

PLACE OF USE: RECREATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	01E	26						X											
04N	01E	23							X L8		X	X	X L9						
04N	01E	23									X L6	X L8							
04N	01E	23									X L10	X L9							

Method of Determination: ArcMap Aerial Imagery, Proof of Beneficial Use, In-Person Field Examination

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
☒ Indicate weir size/pipe as applicable.

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).

☒ 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
N/A	N/A	N/A	N/A	N/A	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: No flow measurements were taken during this field examination as the system consists of a groundwater pond. Flows were not available.

E. FLOW CALCULATIONS

Measured Method: N/A

F. VOLUME CALCULATIONS**Volume Calculations for Aesthetic and Recreation storage**

At the time of the field exam, the aesthetic and recreation pond had a surface area of 100.6 acres and an average depth of 45 feet. Clements Concrete Corporation has excavated the pond, with the intention to fill in the 12 acres that falls within their property boundary, so 88.6 acres on Joplin Lake LLC land should be considered under the licensing of WR 63-34666. Condition 220 was placed on the permit, limiting the pond to a storage capacity of 2370 and a surface area of 95 acres. Considering 95 acres of surface area, the mitigation plan accounted for 100 AFA of consumptive use, fully covering the consumptive losses developed under WR 63-34666.

Total capacity, as developed

Capacity:

$$88.6 \text{ acres surface area} * 0.4 * 45 \text{ ft maximum depth} = 1,595 \text{ AF}$$

Precipitation deficit from Boise WSFO Airport station:

$$\frac{322.92 \frac{\text{mm}}{\text{yr}} * 88.6 \text{ acres}}{304.8} = 93.8 \text{ AFA evaporative losses}$$

$$1,595 \text{ AF capacity} + 93.8 \text{ AF evaporative losses} = \mathbf{1,689 \text{ AFA}}$$

G. NARRATIVE/REMARKS/COMMENTS

On January 15, 2025, the department received proof of beneficial use for permit 63-34666. Permit owner, Mark Guho of Joplin Lake LLC, specified that the system had been developed to include a shallow groundwater pond with a capacity of 2470 AF used for aesthetic and recreation storage. The evaporative losses are mitigated by WR 63-30130 by non-use for 2.08 cfs from 3/01 to 11/15. I conducted a field exam on March 5th, 2025, accompanied by Joplin Lake LLC Manager, Mark Guho.

The system includes a groundwater pond which was historically excavated for gravel mining by SunRoc Corporation. Mined grounds total to 100.6 acres which have naturally filled with groundwater. Only 88.6 acres of the developed pond lie within land owned by the current owner of WR 63-34666, while the remaining 12 acres are on land owned by SunRoc. After contacting Mike Medford with SunRoc, he clarified that the portion of the pond on SunRoc property is anticipated to be filled in within the reasonable future. This portion of the pond has been excluded from the Recreation and Aesthetic Storage place of use. The maximum depth of the pond was stated by Mark to be 45 feet, while the average depth is 18 feet. Total volume for WR 63-34666 after the development period is 1,689 AFA, including the pond capacity at 1,595 AF and 93.8 AF evaporative losses. Three sets of pipes are located on or around the pond to mitigate pit capture effects from high flow events from the Boise River. Aesthetic and Recreation use is for wildlife, and fishing and swimming, respectively.

Condition 220 was placed on permit 63-34666 to not exceed a total capacity of 2370 acre-feet or a total surface area of 95 acres and should remain on the license. The developed pond capacity is 1,811 AF and surface area of 100.6 acres, though the licensed surface area includes 88.6 acres. I recommend an amendment to update the place of use, as reflected in the legal description in item C1. The previous mitigation plan covered 100 acre-feet of evaporative losses. The licensed portion of the pond will lose 93.8 acre-feet annually to evaporation. Water right 63-34666 should be licensed for the portion of the pond which will continue to be used for recreation and aesthetic storage.

Condition 103 replaced 121, per department standards. Conditions 219 and 220 were updated with appropriate volumes for this license. Conditions 930, 170, and 123 were carried over to the license without alteration. Condition 26A was removed, as the project construction has reached completion.

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>Annual Volume</u>
AESTHETIC STORAGE	01/01 to 12/31	1,690 AF
RECREATION STORAGE	01/01 to 12/31	1,690 AF

Totals: 1,690 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 Kate Englund - Water Resource Agent

Field Examiner's Name Kate Englund Date March 6, 2025

Reviewer *Austin King* Date April 30, 2026

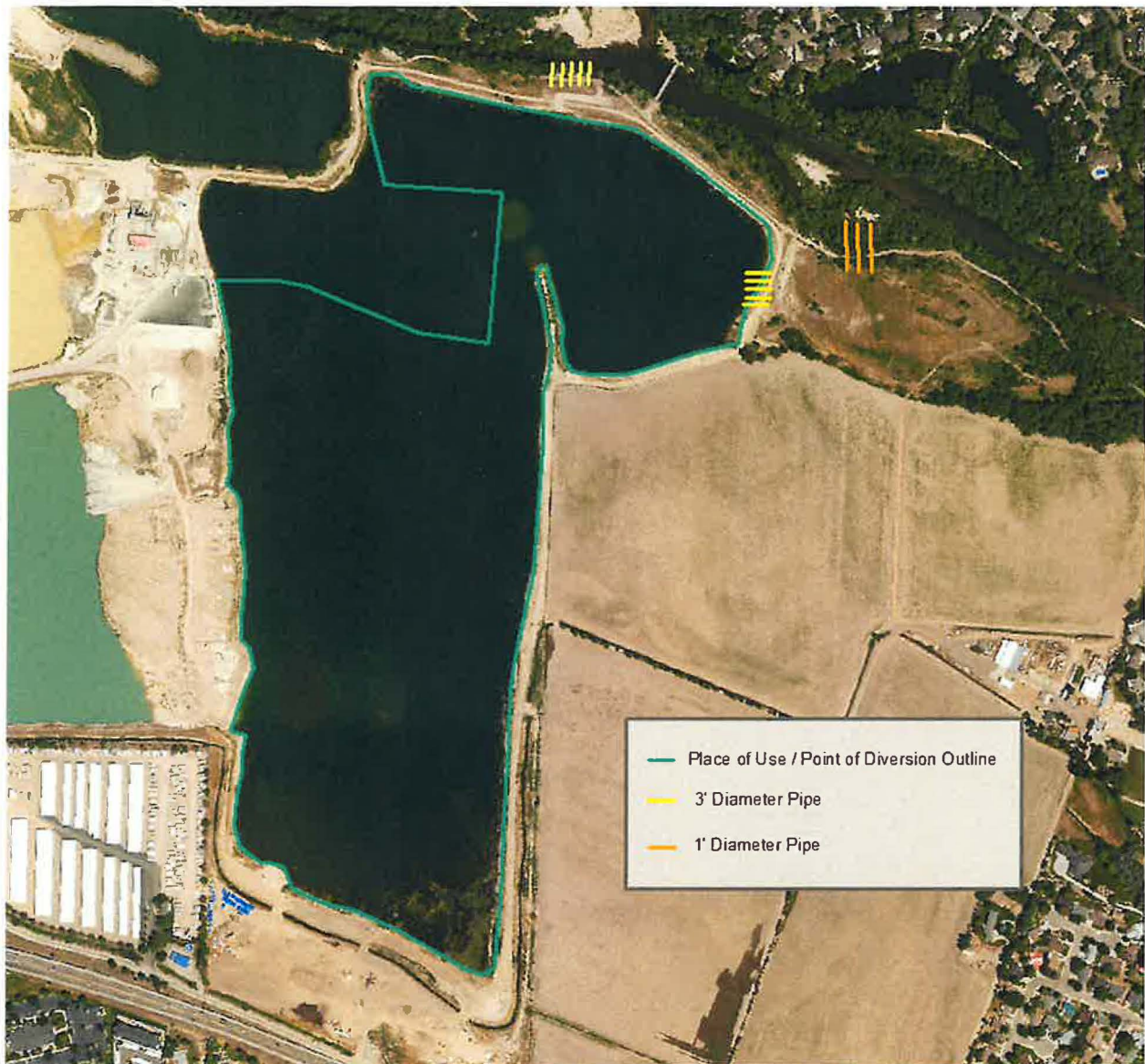


Figure 1 System diagram featuring the pond as place of use and point of diversion, outlined in blue. A total of thirteen pipes are included to prevent pit capture during high flow events in the Boise River.

Precipitation Deficit

Station: Boise WSFO Airport

Month	mm/day ¹	Days per month	mm/Month
Jan	0.00	31	0.00
Feb	0.23	28	6.44
March	0.30	31	9.30
April	0.79	30	23.70
May	0.92	31	28.52
June	1.81	30	54.30
July	2.00	31	62.00
August	1.70	31	52.70
September	1.30	30	39.00
October	1.36	31	42.16
November	0.16	30	4.80
December	0.00	31	0.00

Total mm/year = 322.92

$$\left(\frac{322.92}{304.8} \right) \times 100.60 = 106.6 \text{ AFA}$$

[(mm/yr) ÷ (convert to feet)] X (Surface area of pond, in acres) = Evaporation Loss in Acre Feet

Figure 2 Evaporative losses calculation extracted from pond loss calculation spreadsheet. Value 106.6 AFA used to represent the annual evaporative losses for a 100.6-acre pond near the Boise Airport weather station.



Figure 3 North facing photo from the southern end of the pond. The photo features the north bank, about 0.6 miles away.



Figure 4 3" diameter pipes as part of the pit capture prevention system. These pipes are located on the Northeast end of the pond and are featured in the system diagram in figure 1.



Figure 5 Dry land East of the pond. Photo features 1" diameter pipes for pit capture prevention system in lefthand side of photo.



Figure 6 Photo facing South from North bank of pond.



Figure 7 Photo facing North, taken at North end of the pond. The photo features five 3' diameter pipes that provide prevention for pit capture.