

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-7537
Exam Date: 11/12/2019

1. Current Owner:

DUNFEE FAMILY TRUST
5192 ESTASI ST
LAS VEGAS NV 89135-3273

2. Accompanied by: Clive Dunfee
Phone No: 208-589-9423
Address: 67 Cottonwood Lane, Challis, ID 83226-4922
Relationship to permit Holder: son of permit holders

3. **SOURCE:**
SALMON RIVER

Tributary
SNAKE RIVER

Method of Determination: ArcMap aerial imagery, site visit

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
72-10480, 72-10481, 72-10482 Gini Ditch Co. rights	Salmon River	Irrigation	Decree

Comments: Property lies within the Gini Ditch Company service area.

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

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

SALMON RIVER L7 (NE¼ SE¼), Sec. 3, Twp 13N, Rge 19E, B.M. CUSTER County
SALMON RIVER L8 (NW¼ SE¼), Sec. 3, Twp 13N, Rge 19E, B.M. CUSTER County
SALMON RIVER L5 (SE¼ NE¼), Sec. 3, Twp 13N, Rge 19E, B.M. CUSTER County

Method of Determination: ArcMap aerial imagery, site visit

PLACE OF USE: STOCKWATER STORAGE

[illegible]

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	
13N	19E	3				X L5									X L7	X L8	X L9		
13N	19E	3															X		

Method of Determination: ArcMap aerial imagery, site visit

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X 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.

XX 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
NA					

D. FLOW MEASUREMENTS

1. No measurement made because the system is on-stream storage with no diversion to storage.

2. Measurements: NA

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: NA

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: NA

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

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

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

2. Volume Calculations for Other Uses:

$$\text{Pond \#1} \quad 0.7 \text{ acres surface area} \times 2.0' \text{ average depth} = 1.4 \text{ AF}$$

$$\text{Pond \#2} \quad 1.5 \text{ acres surface area} \times 3.0' \text{ average depth} = 4.5 \text{ AF}$$

$$\text{Pond \#3} \quad 3.8 \text{ acres surface area} \times 3.7' \text{ average depth} = 14.1 \text{ AF}$$

$$\text{Total Volume} = 20.0 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 72-7537 was conducted on November 12, 2019, with Clive Dunfee, the son of the permit holders, present. Also in attendance were IDWR Southern Region Manager Corey Skinner and Michelle Richman, who is also from the IDWR Southern Region office.

This permit allows for up to 20.0 acre-feet of on-stream storage in a series of three excavated ponds on a side channel of the Salmon River, just south of Challis. The first pond (#1) is the upstream pond and has a surface area of 0.7 acre. Pond #2 is the middle pond and has a surface area of 1.5 acres. The furthest downstream pond is pond #3 and its surface area is 3.8 acres. The depth of the ponds varies from 0 to 10 feet deep, according to Mr. Dunfee. Flow through the ponds varies throughout the year, from low flows in the fall, to very high flows in the late spring during runoff and in the winter when the main Salmon River is plugged with ice jams.

To calculate the volumes of each pond, an attempt was made to figure an average depth for each pond from information provided by Mr. Dunfee and multiply that by the surface area outlined on ArcMap. Pond #1 has a surface area of 0.7 acres and an average depth of 2' for a volume of 1.4 AF. Pond #2 has a surface area of 1.5 acres and an average depth of 3.0' for a volume of 4.5 AF. Pond #3 has a surface area of 3.8 acres and an average depth of 3.7' for a volume of 14.1 AF, so the total volume of all three ponds combined is 20.0 AF.

The place of use was developed in a QQ which was not listed as a POU on the permit, so an amendment of permit will be sent to the permit holders.

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>
AESTHETIC STORAGE	1/01 to 12/31		20.0 AF
STOCKWATER STORAGE	1/01 to 12/31		20.0 AF

Totals:

20.0 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

Field Examiner's Name Jim Bitzenburg Date 11-26-19
 Jim Bitzenburg - Senior Water Resource Agent

Reviewer _____ Date _____

-7537 Dunfee Family Tract System Diagram; POD & POU Map



Legend

- Township/Range
- POU
- Sections
- POD
- QQ

0 0.05 0.1 0.2 Miles





Pond #1, South Pond, Point of Diversion (embankment)

Pond #1 Place of Use





Pond #2, Middle Pond, Point of Diversion (embankment)

Pond #2 Place of Use



72-7537 Dunfee Family Trust



Pond #3, North Pond, Point of Diversion (embankment)

Pond #3 Place of Use

