

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-18365
Exam Date: 07/25/2024
Re-Exam Date: 04/23/2025

1. Current Owner:

FACELESS CEDAR LLC 11065 S CARLIN BAY RD HARRISON ID 83833-7800

2. Accompanied by: BOB HAGEN

Phone No: (208) 449-6177

Address: SAME AS ABOVE

Relationship to permit Holder: OWNER

3. SOURCE:

UNNAMED STREAM

GROUND WATER

Tributary

TURNER CREEK

TURNER CREEK

Method of Determination: ArcMap and DRG. GPS Locator -116 45.693, 47 34.148

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

Water Right No.	Source	Purpose of Use	Basis
95-17841	UNNAMED STREAM	IRRIGATION	PERMIT- B U EXAM
95-17901	GROUNDWATER	COMMERCIAL	LAPSED

Comments: There is a permit for water right #95-17841 which is a direct overlap of this water right place of use. This is for irrigation directly from the unnamed stream and not from the pond. It overlaps the irrigation on this water right, but it is for 6 acres that are all within the same place of use. This reflects the Text Condition which was added to the permit stating that the two rights when combined do not exceed 0.12 cfs for the irrigation beneficial use. This mitigates stacking water rights related to irrigation use between the two rights.

I do not have any overlap concerns with water right 95-17901, it has lapsed and the applicants decided not to pursue the Commercial use.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-17841	UNNAMED STREAM	IRRIGATION	PERMIT- B U EXAM

Comments: This permit for water right #95-17841 is using the same point of diversion from the unnamed stream and the same pipeline that runs to the pond. This is a back-up in case the owners decide to irrigate directly from the unnamed stream instead of pulling from the pond. The main irrigation system is hooked up to the pond and I don't see any concern about pulling water from both as long as it doesn't exceed 0.12 cfs.

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

UNNAMED STREAM SW¼ SW¼, Sec. 20, Twp 49N, Rge 03W, B.M. KOOTENAI County

GROUND WATER SW¼ SW¼, Sec. 20, Twp 49N, Rge 03W, B.M. KOOTENAI County

Method of Determination: **ArcMap and GPS**

PLACE OF USE: IRRIGATION 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	
49N	03W	20											X						

PLACE OF USE: IRRIGATION FROM 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	
49N	03W	20										1.6	7.4						9.0

Total Acres: 9.0

PLACE OF USE: FIRE PROTECTION 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	
49N	03W	20											X						

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	
49N	03W	20											X						

Method of Determination: **ArcMap and GPS**

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.

☒ 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					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 GAL BUCKET						

2. Measurements: Field Exam was originally done July 25, 2024 and there was evidence of water flowing but it was minimal due to the time of the year. I returned April 23, 2025 and was able to do a 5 gallon bucket test. Three 5-gallon bucket tests were completed from the point of diversion pipe which was gravity fed to the pond. The test was performed at the direct flow shut off prior to going into the pond. I am recommending a rate of 53.07 gpm = **0.12 cfs**, considering department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5-GAL Bucket Test = (5 gal / 5.68 sec) x 60 sec/min = 52.82 gpm
 = (5 gal / 5.63 sec) x 60 sec/min = 53.29 gpm
 = (5 gal / 5.65 sec) x 60 sec/min = 53.1 gpm

Average of 3ea 5-GAL Bucket Tests = (52.82 gpm + 53.29 gpm + 53.1) / 3 = **53.07 gpm = 0.12 cfs considering department rounding standards.**

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 9 \times 3 = 27 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.12 \text{ cfs} \times 229 = 27.48 \times 1.9835 = 54.5 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 27 \text{ af}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

I met Bob & Charlotte Hagen on July 25, 2024 and performed the Beneficial Use Field Exam. At the POD, there was very little water flowing through the pipe as shown in the picture with the fish screen. We discussed coming back in the spring to get a better measurement. I returned on April 23, 2025, meeting with Bob Hagen. We were able to get a measurement from the pipe that flows into the pond. I performed three 5-gallon bucket test measurements from the diversion pipe resulting in an average diversion rate of 53.07 gpm = **0.12 cfs**, considering department rounding standards, which is recommended for licensing purposes as the maximum diversion rate.

During the first exam, there was evidence of irrigation and I mapped that out on ArcMap which agreed with the 9 acres they applied for which equates to 27 AFA. The pond size is confirmed as 0.5 acres and the applicant states it is 15 ft deep at the deepest point. The aesthetic use is pumped up through the water feature and then right back into the pond so there is very little evaporation. Fire Protection is also permitted when fighting a fire.

Condition. All conditions on the permit were carried forward to licensing.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
IRRIGATION STORAGE	01/01 to 12/31		27.0 AF
IRRIGATION FROM STORAGE	03/15 to 11/15		27.0 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		4.1 AF
AESTHETIC STORAGE	01/01 to 12/31		4.1 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.12 CFS	

Totals: 0.12 CFS 31.1 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 Tammy Alleman - Water Resource Agent

Field Examiner's Name Tammy Alle Date 5/2/25
 Reviewer Chris Buff Date 6/30/25

95-18365



100 ft of corrugated pipe to 900 ft of 2-inch pipe to Pond





Intake with Fish Screen



2 Inch Gravity Fed Line Diversion to Storage

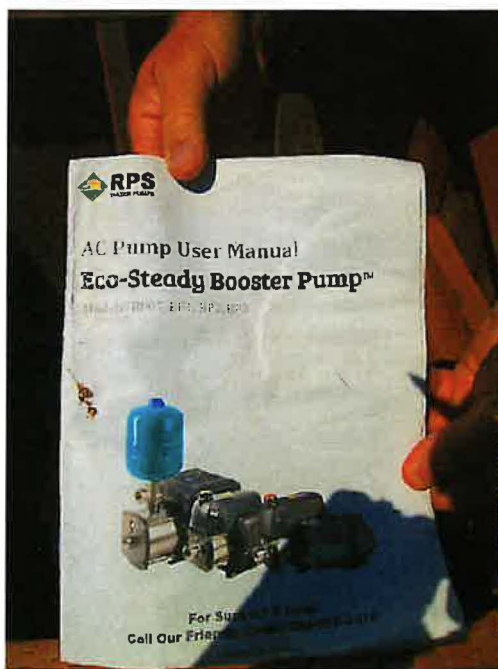


Outflow from Storage Pond to Pump House with Booster Pump to Irrigation System





3 HP RPS Booster Pump & Sprinkler Manifold





Pond with Aesthetic Use



6 Sprinkler Station to 2" Pipe to 1 ½" Galvanized Pipe with 3/8" Rain Bird Sprinkler Head



Irrigation Uses



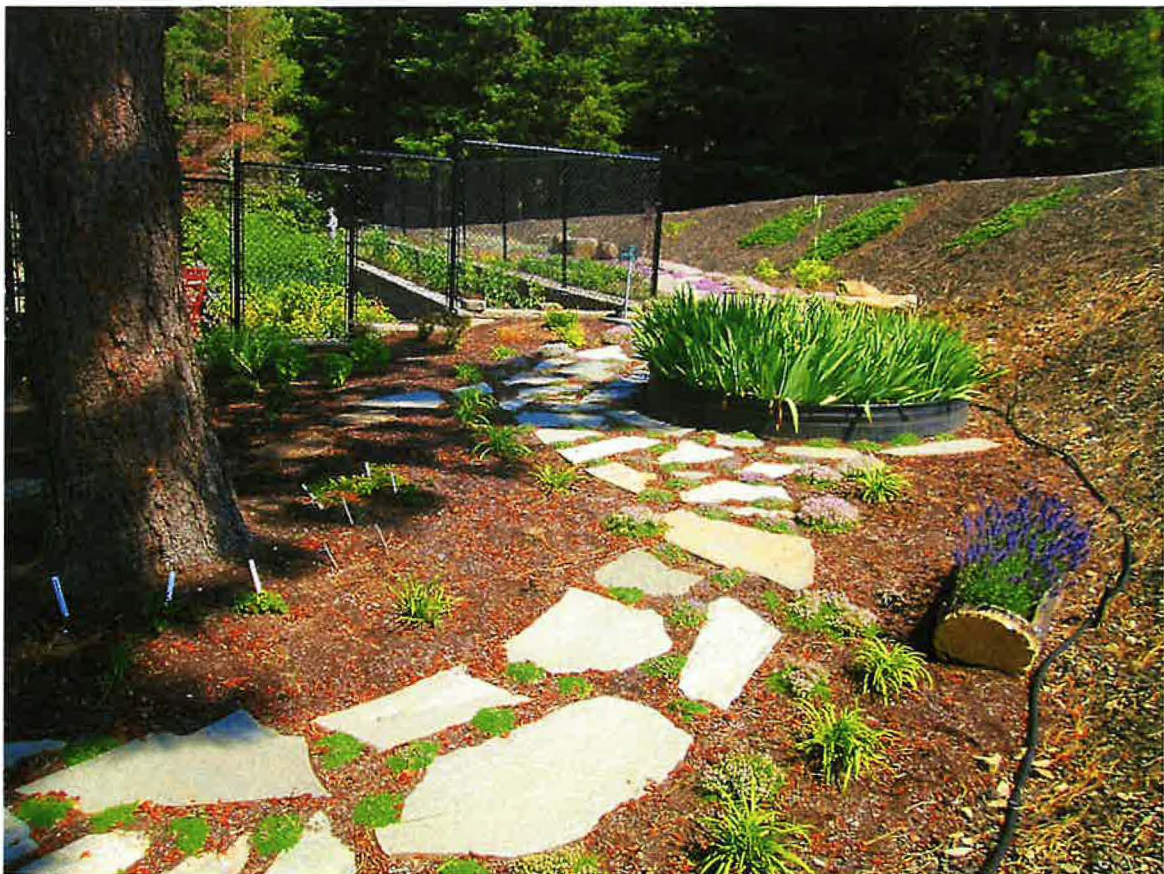


Irrigation Uses





Garden Irrigation





Irrigation Uses



Total Storage Calculations

FILE NUMBER	95-18365
REVIEWER	TAMMY ALLEMAN
DATE	4/23/2025

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.5	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	6	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	3	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	27	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.5	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.6	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	31.1	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.