

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-18104
Exam Date: 7/23/2020

1. Current Owner:
STEVEN M LISS 14121 S HWY 97 HARRISON ID 83833 AND/OR
KIM M LISS 14121 S HWY 97 HARRISON ID 83833
2. Accompanied by: Steven Liss
Phone No: 208-691-1446
Address: Same as above
Relationship to permit Holder: Permit Holder

3. **SOURCE:**
SPRING

Tributary
SINKS

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap
2. Other water rights with the same point-of-diversion: NO Overlap

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

SPRING L9 (NW¼ NW¼ NE¼), Sec. 10, Twp 49N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS. POD is a pond earthen dam; location -116°42.645, 47°36.708.

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	
49N	03W	10		X L9			X												

Method of Determination: Field exam and Arcmap aerial imagery.

3.

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

X 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
N/A					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: See attached pond analysis worksheet.

G. NARRATIVE/REMARKS/COMMENTS

This water right was split from 95-12628, because there is no interconnection between the spring source associated with this small pond, and the other pond(s) and water sources identified during the field exam.

Field exam performed on 7/23/2020 with the applicant, Steven Liss, showed a small pond that had been excavated to capture spring water daylighting at the edge of the pond. There is no diversion rate associated with this right, as the spring fills the pond from within the high water mark of the pond.

During the exam, it was identified this small pond was not part of the permit approved beneficial use(s) POU. Based on the total development & volume of water usage found to be occurring under permit 95-12628 following the field exam, it was determined this pond's annual volume does not enlarge the total permit approved recreation storage volume for permit 95-12628 and 2nd split right 95-18105 respectively. An amendment of permit has been initiated for the original permit 95-12628 to account for the development of this small pond and a second small pond (95-18105) which was developed in a different quarter-quarter section than authorized. The amendment of permit shall cover both split rights 95-18104 & 95-18105.

The Recreation Storage POU was identified as a small pond Mr. Liss excavated to reduce the erosion occurring on his property from spring water, and uses the pond for recreation purposes. The pond was sketched out on field maps during the exam, and Arcmap aerial imagery was used to accurately trace out the pond's surface area during licensing review. The pond has a surface area of 0.02 acres, but due to department significant figure standards the surface area was rounded up to 0.1 acres. The pond has a 2-4 foot earthen dam, and there is no overflow discharge from the pond. Water from the pond either sinks or evaporates annually at a rate that keeps the pond full, but does no overflow. The pond has a maximum capacity of 0.3 af, a maximum depth of 7 feet, an average depth of 2.8 feet, and estimated seepage and evaporation loss of 0.2 af. The total volume required for the pond equals **0.5 af**, which is recommended as the maximum diversion volume for licensing purposes.

Conditions 029, 082, 123, 26A, and R62 were removed from the permit during licensing review. Condition 219 was edited to reflect the pond volume data for the pond linked to this split right. Condition 220 was added describing the pond's size and volume capacity. All other conditions on the permit will be carried forward to licensing. There are no overlap concerns with this water 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>Annual Volume</u>
RECREATION STORAGE	01/01 to 12/31	0.5 AF

Totals: 0.5 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 Luke Bates - Water Resource Agent

Field Examiner's Name  Date 6/2/2021

Reviewer  Date 6/11/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-18104

RECREATION STORAGE system diagram.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.03 0.06 0.12 Miles



Total Storage Calculations

FILE NUMBER	95-12628
REVIEWER	Luke Bates
DATE	3/3/2021

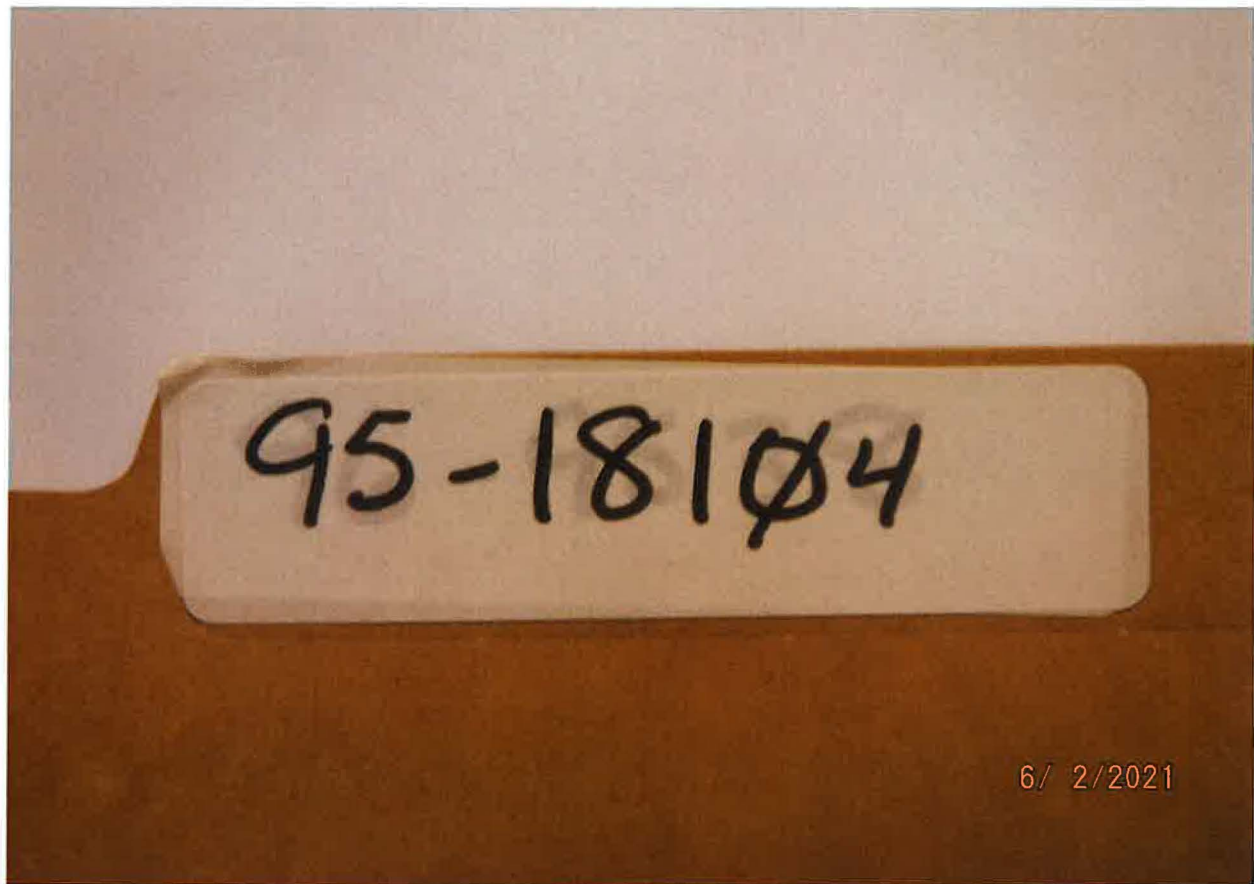
This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

POND 3

Surface Area (AC.)	0.1	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	3.2	"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)	0.3	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)	0	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)	0.1	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.1	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.5	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.



FIELD EXAM DATE 7/23/2020



POD & POU – RECREATION STORAGE, POND FILLED BY SPRING LOCATED AT EDGE OF POND