

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 92-10143
Exam Date: 6/13/2017

1. Current Owner:
NICHOLAS M SHEA 420 WHISKEY LN SAINT MARIES ID 83861 2082455460
And/Or
BARBARA J SHEA 420 WHISKEY LN SAINT MARIES ID 83861 2082455460
2. Accompanied by: Barbara Shea

3. **SOURCE:**
UNNAMED STREAM

TRIBUTARY:
ST MARIES RIVER

B. OVERLAP REVIEW

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

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

UNNAMED STREAM NW¼SW¼ Sec. 35, Twp 46N, Rge 02W, B.M. BENEWAH County

Method of Determination: Maps and GPS. POD location at 47° 17.267, 116° 33.885

2.

PLACE OF USE: WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
46N	02W	35										X							

PLACE OF USE: STOCKWATER STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
46N	02W	35										X							

Method of Determination: Google Earth and Arc map.

3.

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

X

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

X

1:24,000 or greater.

X

Aerial Photo Attached (required for irrigation of 10+ acres).

X

Photo of Diversion and System Attached

4.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses: SEE ATTACH POND ANALYSIS SHEET

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Barbara Shea showed a small on-stream pond with 10 foot high dam. Surface area of dam was equal to 0.08 acres with a maximum depth of 10 feet or average depth of 4 feet. Applicant did not have any diversion system for stockwater from the unnamed stream or from the pond. Both of those uses will be removed at licensing. Pond analysis sheet shows pond has an overall storage volume of 0.5 acre-feet including the initial fill of 0.3 acre-feet and 0.1 acre-feet each for evaporation and seepage. License will be issued for 0.5 acre-feet for stockwater storage and wildlife storage. Conditions 219 and 220 will be kept on license and there are no overlap concerns.

Have conditions of permit approval been met? X Yes ____ No**H. RECOMMENDATIONS****1. Recommended Amounts**BENEFICIAL USE

STOCKWATER STORAGE

WILDLIFE STORAGE

PERIOD OF USE

01/01 to 12/31

01/01 to 12/31

ANNUAL VOLUME

0.5 AF

0.5 AF

Totals:

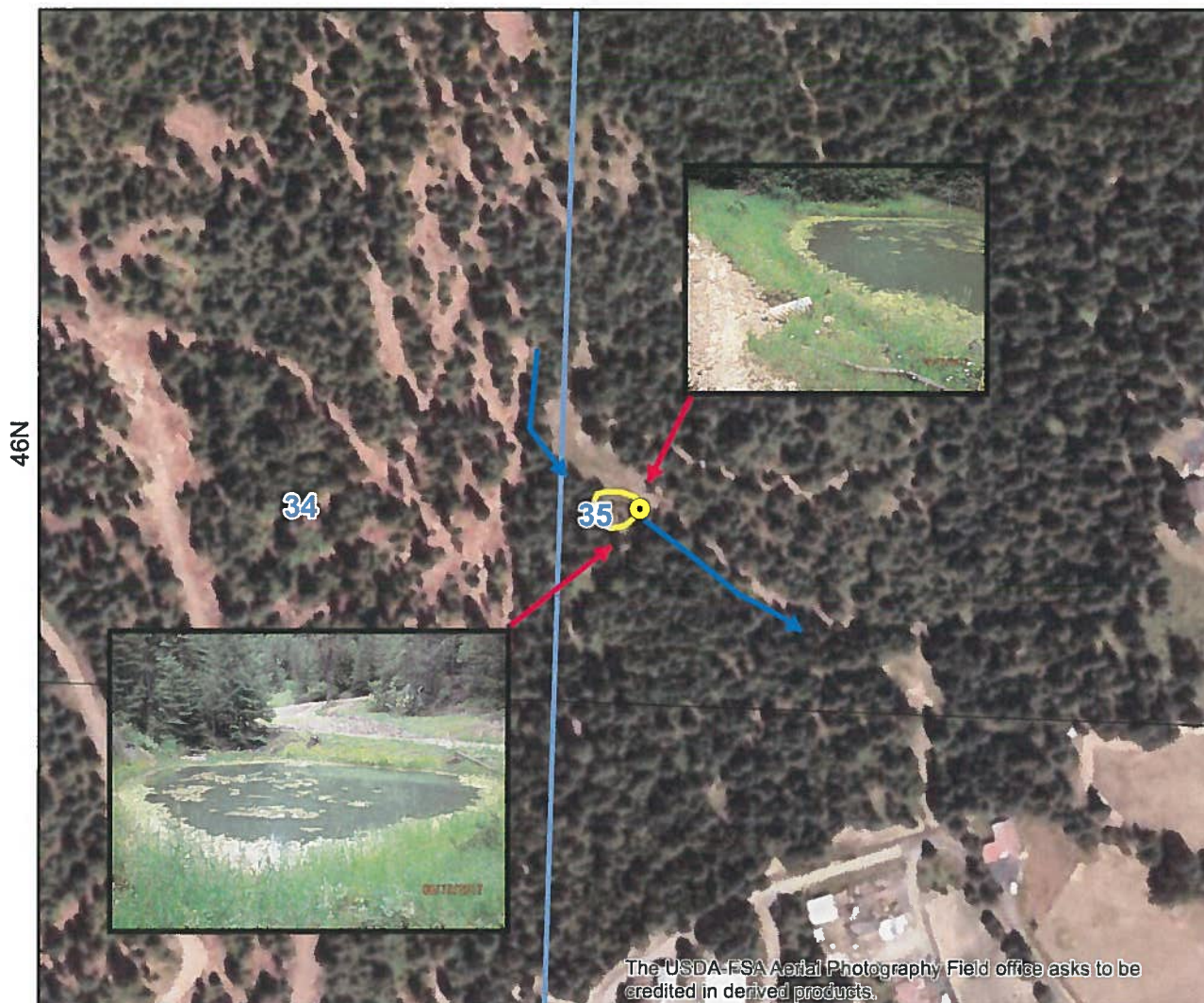
0.50 AF

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**Field Examiner's Name Adam Fendrich Date 6-19-2017Reviewer Morgan Case Date 6/20/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
92-10143

STOCKWATER STORAGE and WILDLIFE STORAGE
SYSTEM DIAGRAM

02W



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

0 0.035 0.07 0.14 Miles



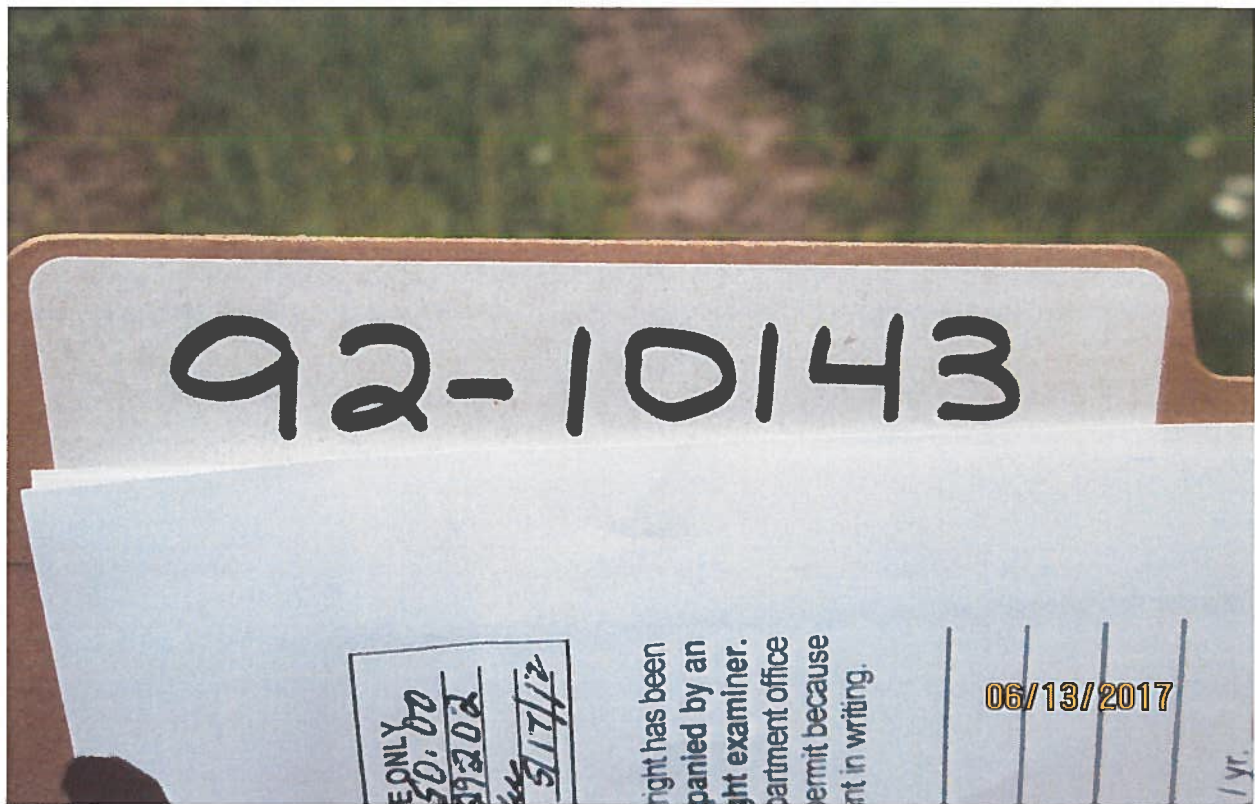
Total Storage Calculations

FILE NUMBER	92-10143
REVIEWER	Adam Frederick
DATE	6/19/2017

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.)	0.08	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4	"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. <i>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.</i>
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). <i>Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.</i>
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.



Dam with overflow culvert.



View downstream from dam. Culvert washed out this spring and had been replaced by applicant.



View of pond from dam.



View above pond at unnamed stream feeding pond.

