

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17105

Exam Date: 6/13/2017

1. Current Owner:

WAYNE ZIMMERMAN PO BOX 351 ST. MARIES ID 83861 2085820709 And/Or

ANGELA ZIMMERMAN PO BOX 351 ST MARIES ID 83861 2085820709

2. Accompanied by: Wayne Zimmerman

3. SOURCE:

UNAMED STREAM
GROUND WATER

TRIBUTARY:

BENEWAH CREEK

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:

UNAMED STREAM NW¼SW¼ Sec. 26, Twp 46N, Rge 03W, B.M. BENEWAH County

GROUND WATER NW¼SW¼ Sec. 26, Twp 46N, Rge 03W, B.M. BENEWAH County

Method of Determination: Maps and GPS. POD location at 47° 18.079, 116° 41.292

2.

PLACE OF USE: FIRE PROTECTION 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	03W	26										X							

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	03W	26										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.

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.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A
2. Volume Calculations for Other Uses: SEE ATTACHED POND ANALYSIS SHEET

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Wayne Zimmerman showed a small pond on unnamed stream and also filling with groundwater. Surface area of pond was equal to 0.03 acres with a maximum depth of 12 feet or average depth of 4.8 feet. Pond was excavated with small 4-5 foot dam with overflow back into unnamed stream. Pond was used for wildlife purposes and for fire protection storage. Pond analysis sheet shows storage is only 0.2 acre-feet, 0.14 acre-feet for initial fill and 0.04 acre-feet for evaporation. License will be issued for 0.2 acre-feet for wildlife and fire protection storage. No overlap concerns and license will be issued with conditions 218, 219, and 220.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FIRE PROTECTION STORAGE	01/01 to 12/31		0.2 AF
WILDLIFE STORAGE	01/01 to 12/31		0.2 AF
<u>Totals:</u>			0.20 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

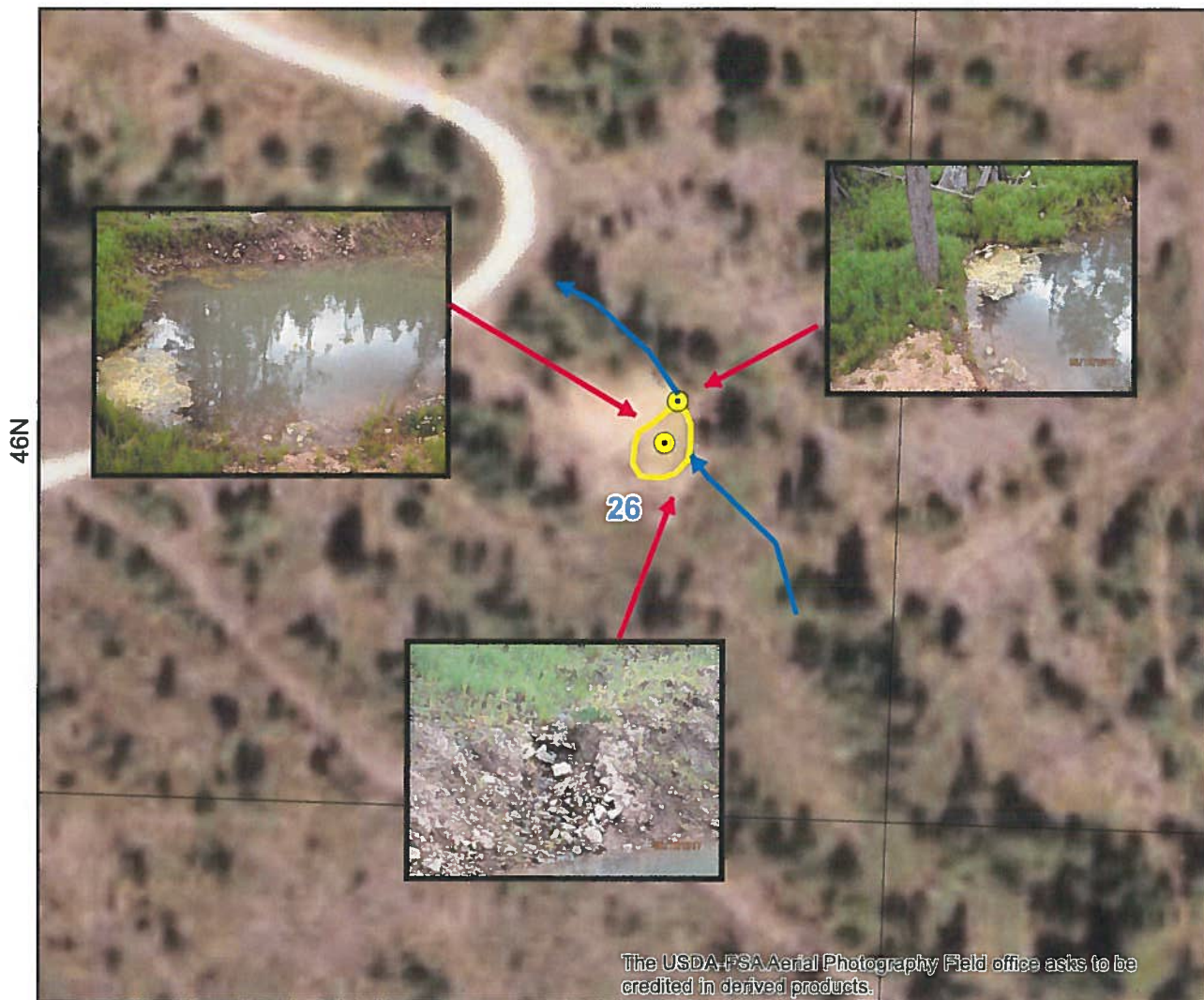
I. AUTHENTICATION

Field Examiner's Name Adam Fuchini Date 6-16-2017
 Reviewer Morgan Cox Date 6/20/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-17105

FIRE PROTECTION STORAGE and WILDLIFE STORAGE
SYSTEM DIAGRAM

03W



0 0.0125 0.025 0.05 Miles

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



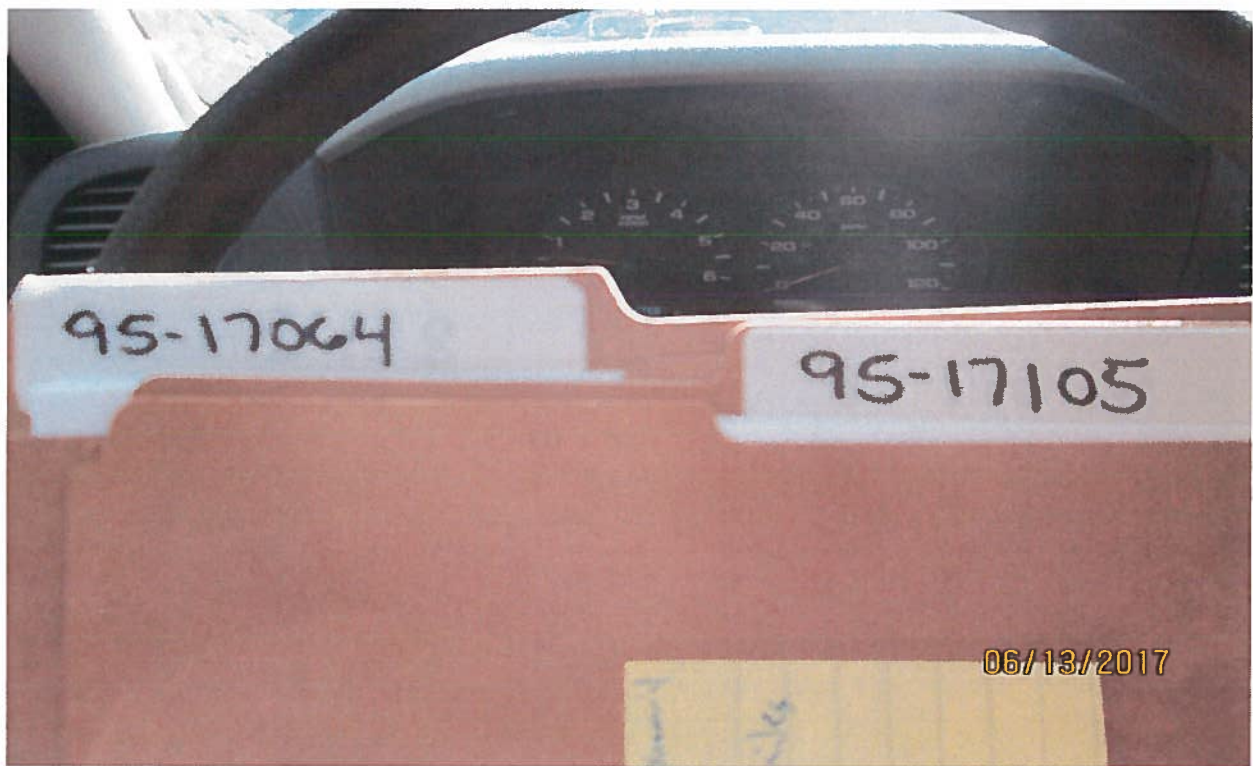
Total Storage Calculations

FILE NUMBER	95-17105
REVIEWER	Adam Frederick
DATE	6/16/2017

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.)	0.03	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4.8	"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)	0.14	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)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.04	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.2	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.



Pond with surface area of 0.03 acres with maximum depth of 12 feet.



Pond was excavated with 4-5 foot high dam. Overflow of pond above.



Water flowing in from unnamed stream.



View of pond looking uphill at drainage area.



View of unnamed stream below dam.

