

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10024
Exam Date: 4/11/2017

1. Current Owner:
KENNETH BOWMAN 671 KELSO WOODS DR ATHOL ID 83801 (530) 518-3663

2. Accompanied by: Ken Bowman

3. **SOURCE:**
SPRING
UNNAMED STREAM

TRIBUTARY:
SINKS
SINKS

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

UNNAMED STREAM NE¼NE¼ Sec. 21, Twp 54N, Rge 03W, B.M. BONNER County
SPRING NE¼NE¼NE¼ Sec. 21, Twp 54N, Rge 03W, B.M. BONNER County

Method of Determination: Maps and GPS. POD location at 116° 41.959, 48° 01.211

2.

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	
54N	03W	21	X																

Method of Determination: Google Earth and Arc map.

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

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

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

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Ken Bowman, the current owner of the property, showed an excavated pond. Mr. Bowman said the applicant Mr. Oler said he built the pond on a spring and it also filled from an unnamed stream. The pond was built on the unnamed stream so there is no need to have diversion to storage on license. Water was flowing into pond from the unnamed stream and flowing out of the pond back into the unnamed stream that sunk further down the hill. Pond was excavated with no dam, just a little depression that allowed water to flow through pond and back out.

Mr. Bowman said he knew the previous owner had 4 horses down next to the pond. Mr. Bowman was unsure if applicant had ever irrigated from the pond. During review using Arc map and Google Earth, there was no evidence that irrigation had occurred in the area around the pond. Because there is no evidence of irrigation occurring from the pond, irrigation storage and irrigation from storage will be removed.

Mr. Bowman said he wanted to try irrigating from the pond as he had recently thinned the forest around the pond. He said he would come in apply for new uses from the pond as well as apply for a change in ownership at time of licensing. This license will be issued for stockwater storage for the size of the pond plus evaporation which is equal to 2.0 acre feet.

Mr. Bowman came into the office on 6/5/2017 and filed a change in ownership form and applied for a new application for permit (95-17324) for irrigation from the pond.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER STORAGE	01/01 to 12/31		2.0 AF
<u>Totals:</u>			2.00 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

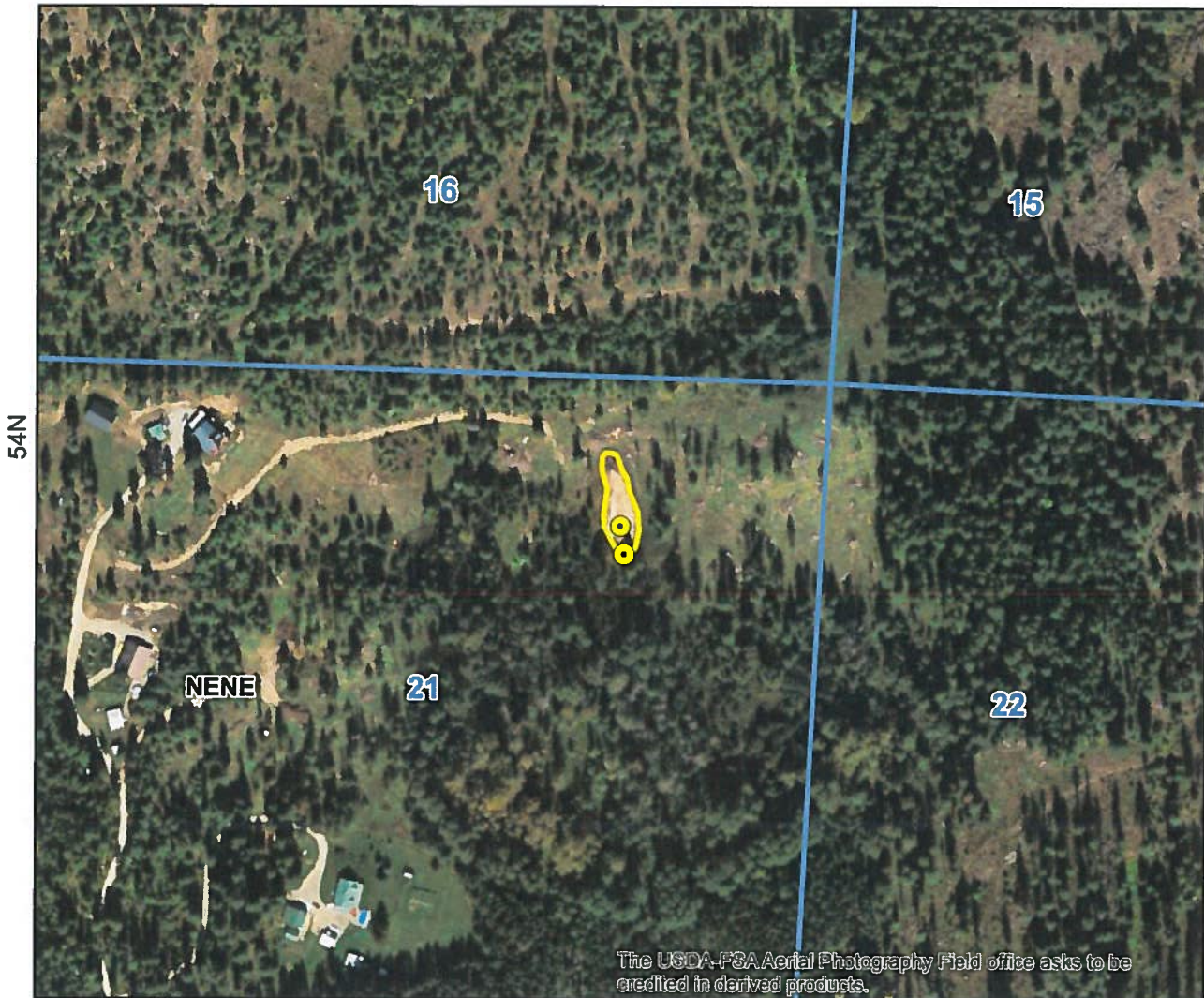
Field Examiner's Name Adam Fink Date 6-7-2017

Reviewer Morgan Case Date 6/12/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-10024

STOCKWATER STORAGE

03W



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

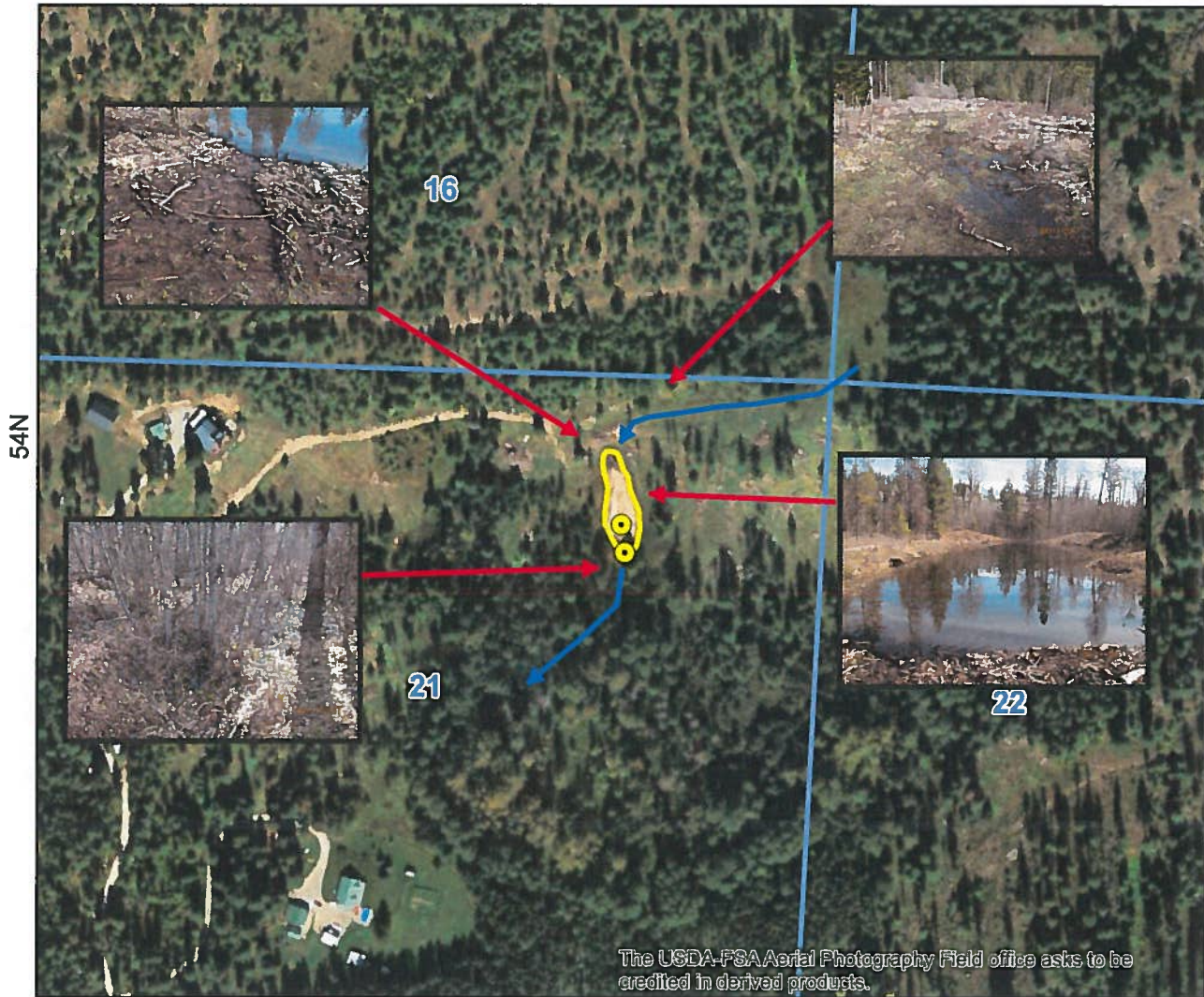
0 0.035 0.07 0.14 Miles

N
SCANNED
JUN 14 2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-10024

SYSTEM DIAGRAM

03W



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

0 0.035 0.07 0.14 Miles

N
SCANNED
JUN 14 2017

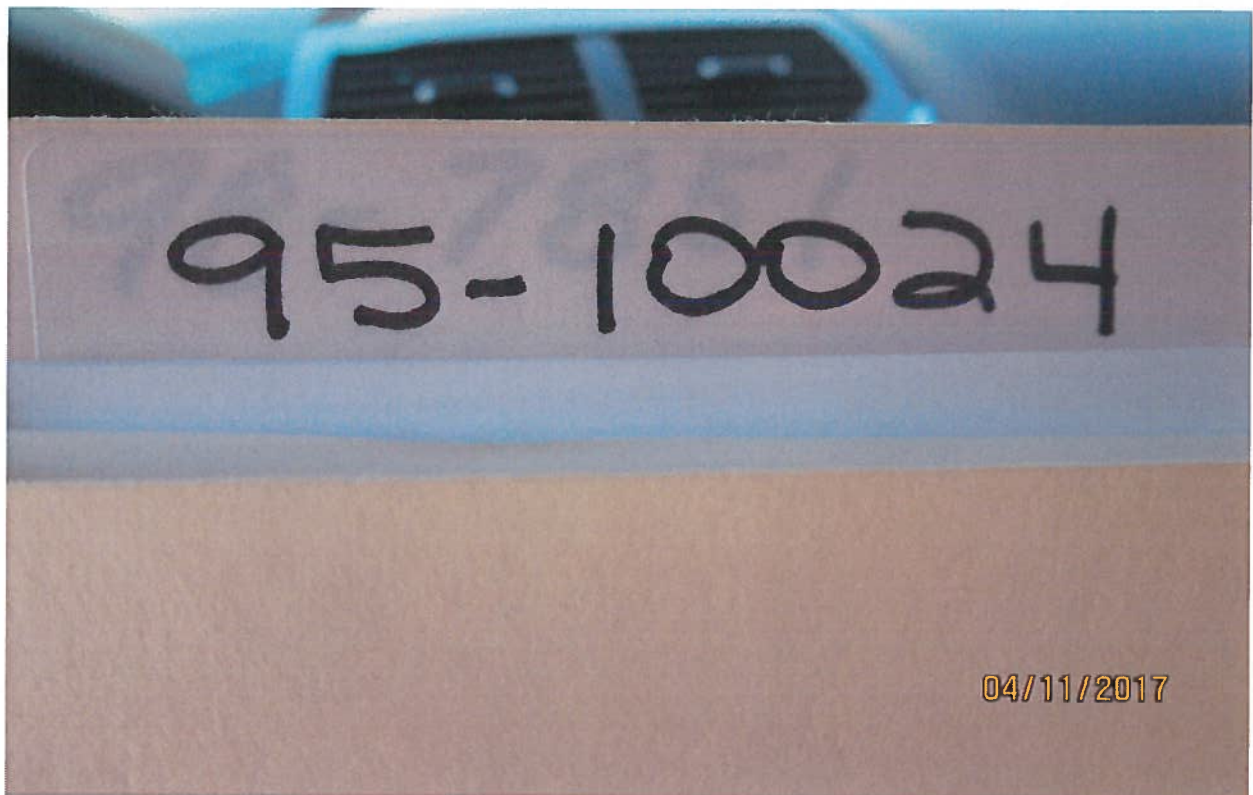
Total Storage Calculations

FILE NUMBER	95-10024
REVIEWER	Adam Frederick
DATE	4/12/2017

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.)	0.15	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	12	"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)	1.8	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)	0.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	2.0	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.



View of pond with unnamed stream flowing into pond on bottom of picture.

SCANNED
JUN 14 2017



Water flowing into pond from unnamed stream.



A view up from pond at unnamed stream.



Pond looking toward outlet.



Outlet of pond in upper right of picture.



View of outlet.



View of unnamed stream below pond. Unnamed stream sinks further downhill.

SCANNED
JUN 14 2017





State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region, 7600 Mineral Drive, Suite 100, Coeur d'Alene, Idaho 83815

Phone: (208) 762-2800 FAX: (208) 762-2819 www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

August 18, 2016

KENNETH BOWMAN
671 KELSO WOODS DR
ATHOL ID 83801-9687

Re: Application for Permit to Appropriate the Public Waters of the State of Idaho.

Permit 95-10024

The Idaho Department of Water Resources (IDWR) needs to have a Field Examination of Beneficial Use on your water permit. Please contact to set a date and time to conduct your Field Examination if the water system is in use.

Please call me at 208-762-2800 or email me at adam.frederick@idwr.idaho.gov to set up a date and time.

Sincerely,

Adam Frederick
Senior Water Resource Agent
Northern Region

SCANNED
JUN 14 2017