

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-12199

Exam Date: 8/29/2012

1. Current Owner: ROBERT FOREST STANLEY
3440 LONGVIEW RD
MCCALL ID 83638
(208)634-6369
2. Accompanied by: Forest Stanley
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCE TRIBUTARY
GROUND WATER

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:

GROUND WATER SW1/4SE1/4 Sec. 35, Twp 19N, Rge 02E, B.M.
ADAMS County

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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	
19N	02E	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	
19N	02E	35																X	

PLACE OF USE: AESTHETIC 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	
19N	02E	35																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	
19N 02E 35															X		

DIVERSION TO STORAGE same as WILDLIFE STORAGE

Method of Determination:

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.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
Unknown	N/A		N/A	N/A	(1 1/4")

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
5-Gallon Bucket						

2. Measurements: 5-Gallon Bucket. Measured flow of 6 gpm from artesian well.

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method: (5-Gallon Bucket)

Q(measured) = 6 gpm (Use .02cfs)

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: (Storage Pond)

(Storage Pond – Stock water, Aesthetic, and Wildlife)

Pond Surface Area = 0.20 acre

Pond Depth = 4'

$$V = AD = 0.20 \text{ acre} \times 4' = 0.80 \text{ AF}$$

$$V = 0.80 \text{ AFA} > 0.50 \text{ AFA (Permit)} - \text{Recommend pond storage volume of 0.50 AFA}$$

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

The right holder has excavated a 0.20 acre storage pond for stock water, aesthetic, and wildlife storage. Water from an artesian well is diverted into a small ditch for discharge to the storage pond. The storage pond provides drinking water for 20 horses.

The right holder is currently diverting water from the storage pond for irrigation of pasture land adjacent to the storage pond. Although the entire irrigation main line system has been installed, only 5 acres of the proposed 13.5 acres of pasture area is currently being irrigated. A 5-hp pump diverts water through a 3" suction line to the 4" irrigation main line. The irrigation main line is comprised of 4", 3", and 2 ½" underground piping. The pasture areas are irrigated by a K-Line irrigation system. The K-Line irrigation system connects to risers on the irrigation main lines.

In 2005, a stream alteration permit was issued to the right holder for realignment of Bear Creek to its original watercourse location. The material used to dam the straight sections of Bear Creek was produced from the current storage pond. The storage pond is filled by seasonal high ground water. Based on the flow measurement of 6 gpm at the artesian well, approximately 8,640 gpd is discharged into the storage pond.

The Application for Permit, which was submitted in 2003, indicates that the only source of water to fill the pond is the artesian well. As previously stated, the storage pond is filled by seasonal high ground water in the Bear Creek drainage, not the artesian well. The artesian well is not capable of filling the storage pond, and retaining adequate water levels for stock water storage or irrigation. The artesian well produces only enough water to irrigate approximately 0.5 – 1.0 acre of pasture. Based on the installed irrigation main lines, which run the entire length of the property, it appears that the future places of use for pasture irrigation will total approximately 13.5 acres.

Currently, the right holder is diverting water from the storage pond to irrigate approximately 5.0 acres of pasture. Since the artesian well production is inadequate in which to irrigate the 5.0 acres, the right holder is irrigating with seasonal high ground water. Therefore, the right holder will need to file a new Application for Permit to irrigate the additional 5.0 acres with water from the storage pond.

Recommendations: The irrigation and stock water beneficial uses shall be removed prior to licensing, and diversion to storage shall be reduced to 0.02 cfs, the measured discharge from the artesian well. Stock water, aesthetic, and wildlife storage beneficial uses will remain as indicated on the permit.

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

Due to the removal of the irrigation and stock water beneficial uses, Conditions of Approval items No.4 and No.7 shall be removed prior to licensing. Permit No:

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.42	&/or	0.50
Beneficial Use Limit	0.42	&/or	N/A
System Measurement	0.02	&/or	0.80
Proof Fee Amount	1.0	&/or	N/A
Recommended Amount	0.02	&/or	0.50

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	01/01 to 12/31	0.02 CFS	
STOCKWATER STORAGE	01/01 to 12/31		0.50 AF
AESTHETIC STORAGE	01/01 to 12/31		0.50 AF
WILDLIFE STORAGE	01/01 to 12/31		0.50 AF
	<u>Totals:</u>	0.02 CFS	0.50 AFA

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 ☐ Other

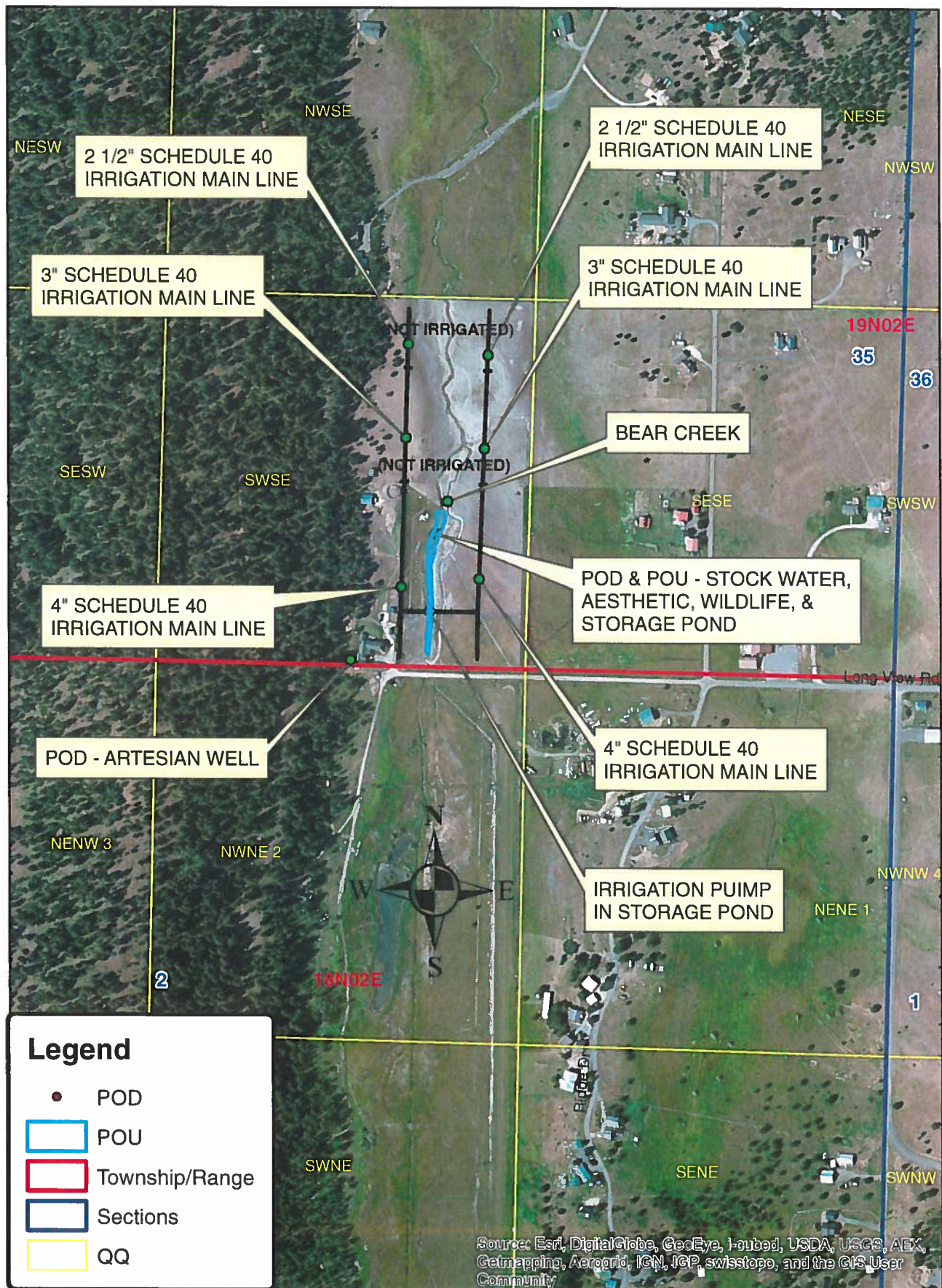
I. AUTHENTICATION

Field Examiner's Name *Rick Collingwood* Date 11/7/13

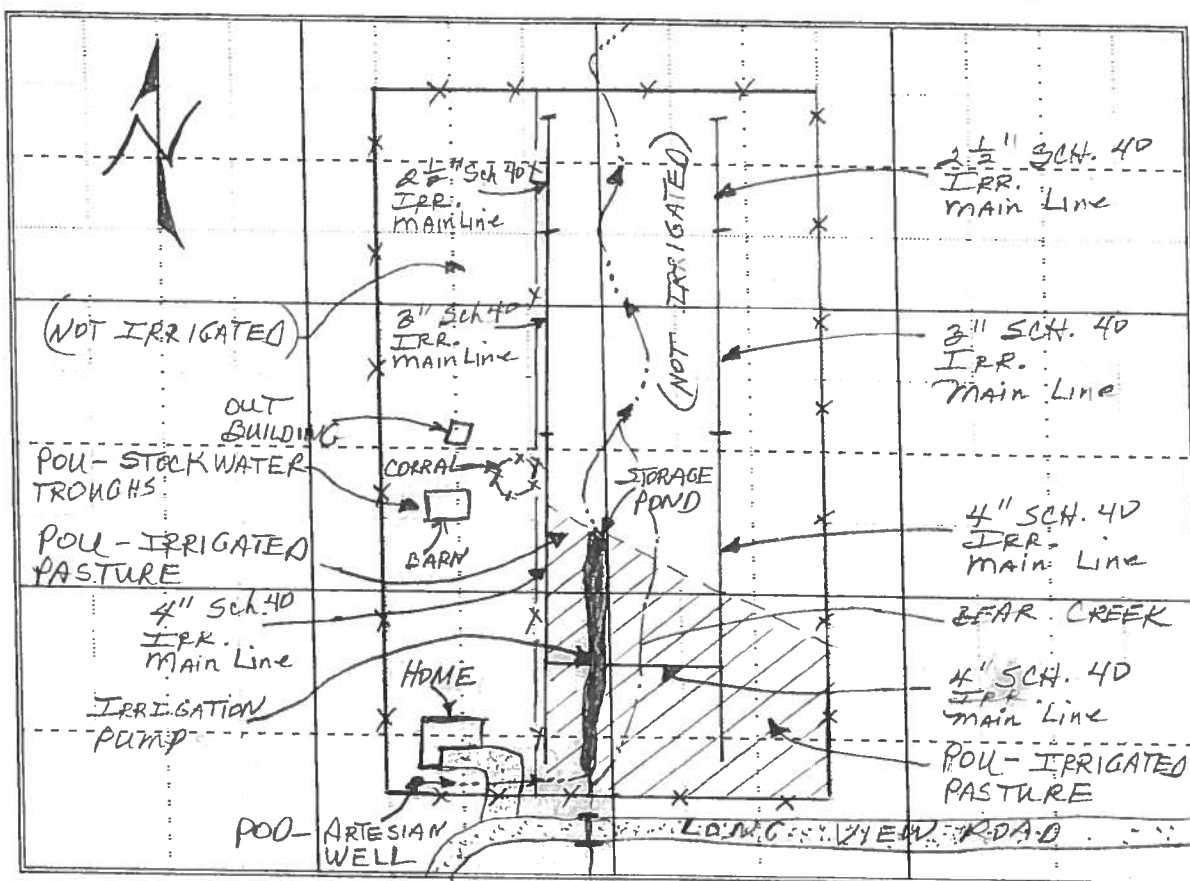
Reviewer _____ Date _____

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ESRI AERIAL PHOTO - 2012



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

FIELD EXAM PHOTOS

Water Right Permit: 78-12199

Field Exam Date: 8-29-12

PLS: SW1/4, SE1/4 Section 35, T.19N, R.02E.

Field Examiner: RC



Point of Diversion: View westerly of the artesian well. The well discharges to the east in a drain ditch which discharges into an irrigation/aesthetic storage pond.



View easterly from the artesian well of the drain ditch which discharges to an irrigation/aesthetic storage pond.



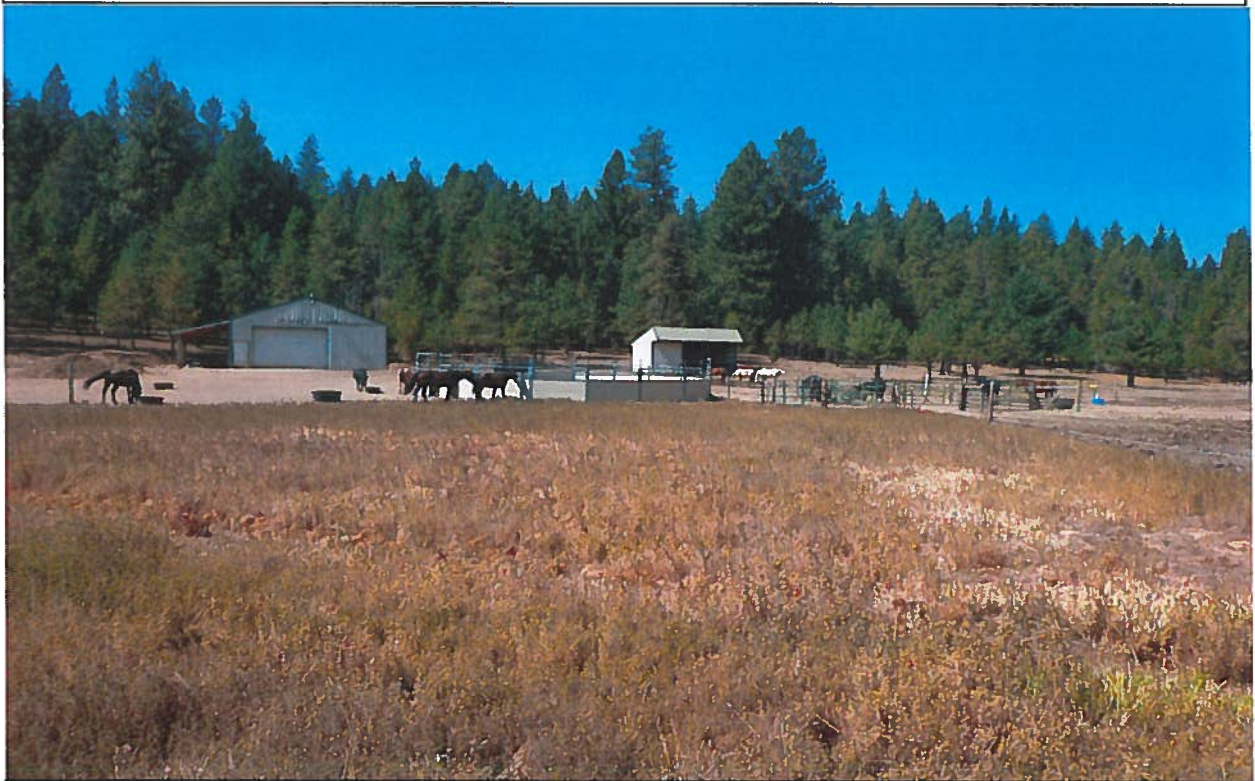
View southeasterly of the irrigation/aesthetic storage pond and a 5-hp Berkley irrigation centrifugal pump which diverts water from the storage pond through a 3" suction line. The irrigation pump discharges water through a 4" flexible hose to the 4" Schedule 40 irrigation main line.



Place of Use: View southerly from the north end of the stock water, aesthetic, and wildlife storage pond, and the irrigated pasture surrounding the storage pond. A 30" screened stand pipe controls the water level in the pond. The overflow water is discharged through a 30" culvert to Bear Creek.



View northerly from the north end of the storage pond of Bear Creek continuing northward through the right holder's property. The irrigation main lines have been installed, but the right holder has not yet planted or irrigated this pasture area.



Place of Use: View westerly of the irrigated pasture and the horse corral area. Frost free hydrants connected to the irrigation main line are used to fill watering troughs for 20 horses.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 6, 2012

Robert Forest Stanley
3440 Longview Road
McCall, ID 83638

RE: Scheduling Field Exam for Water Right Permit No. 78-12199

Dear Mr. Stanley:

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **on August 29, 30, & 31, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.420 cfs of ground water for irrigation of 20 acres, stock water for 20 horses, and diversion to storage for 0.50 AF of stock water storage, aesthetic storage, and wildlife storage.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 14, 2012, to conduct the exam on August 29, 30, or 31, 2012.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, reading 'Rick Collingwood'. The signature is fluid and cursive, with the last name 'Collingwood' being more prominent.

Rick Collingwood, P.E.
Water Resource Agent, Sr.