

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

Permit No: 65-22946

Exam Date: 8/30/2012

1. Current Owner: MICHAEL J DE BOER  
130 SANDHILL LANE  
MCCALL ID 83638-5107  
(208)634-1438
2. Accompanied by: Michael DeBoer  
Phone No: Same  
Address: Same  
Relationship to Permit Holder:

3. SOURCE TRIBUTARY  
MEADOW CREEK LAKE FORK

**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:

MEADOW CREEK NW1/4SW1/4 Sec. 26, Twp 18N, Rge 03E, B.M.  
VALLEY County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: WILDLIFE STORAGE

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    |        |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | Totals |
| 18N | 03E | 26  |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |        |

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

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<br/>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<br/>Size</u> |
|--------------------------------------|-------------------|-----------|-------------------------|------------------|----------------------------------------------|
| N/A                                  |                   |           |                         |                  |                                              |
|                                      |                   |           |                         |                  |                                              |
|                                      |                   |           |                         |                  |                                              |
|                                      |                   |           |                         |                  |                                              |

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

#### D. FLOW MEASUREMENTS

1.

| <u>Measurement<br/>Equipment</u> | <u>Type</u> | <u>Make</u> | <u>Model No.</u> | <u>Serial No.</u> | <u>Size</u> | <u>Calib. Date</u> |
|----------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|
| N/A                              |             |             |                  |                   |             |                    |

2. Measurements: Flow depth at 36" diameter CMP outlet/overflow pipe. Measured water depth of 0.5'. Water flow cross sectional area of 0.77 ft<sup>2</sup>.

#### E. FLOW CALCULATIONS

\_\_\_\_\_ Additional Computation Sheets Attached

Measured Method: (Continuity Equation:  $Q = VA$ )

$$V = 5 \text{ ft/sec (Assumed)}$$

$$Q = VA = 5 \text{ ft/sec} \times 0.77 \text{ ft}^2 = 3.85 \text{ cfs}$$

$$A = 0.77 \text{ ft}^2 \text{ (Flow Cross-Sectional Area)}$$

Note: Flow cross-sectional area calculated from 'Cross Sectional Area of Flow Calculator for Water Flowing in Circular Conduit'

**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: N/A

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

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

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

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

Storage Pond Surface Area (A) – 1.3 acres

Average Pond Depth (D) – 7'

$$V = AD = 1.3 \text{ acres} \times 7' = 9.1 \text{ AFA}$$

Evaporation: 1.3 acres  $\times$  2.0 AFA = 2.6 AFA (2.0 AFA is consumptive irrigation use)

$$V = 9.1 \text{ AFA} + 2.6 \text{ AFA} = 11.7 \text{ AFA} \sim 12.0 \text{ AFA}$$

**G. NARRATIVE/REMARKS/COMMENTS****STORAGE POND:**

A 1.3 acre storage pond was constructed on Meadow Creek. According to file documents prepared by Secesh Engineering, the initial pond size was 0.9 acres. The right holder expanded the storage pond by 0.4 acres.

Meadow Creek discharges to the north end of the storage pond. The storage pond water level is controlled by a 36" CMP outlet/overflow pipe. The outlet/overflow pipe discharges downstream to Meadow Creek.

**Pond Recirculating System:**

A recirculating stream, which is located on the north and south sides of the right holder's home, is used to supply oxygen to the storage pond. A 5-hp pump, located in a pump house at the southwest corner of the storage pond, discharges water to the upper end of the recirculating stream. The recirculating stream, which is comprised of deeper pools, meanders through the right holder's property and discharges to the storage pond.

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

CONDITION NO.5 (18C) – Prior to diversion of water, the right holder shall provide a means acceptable to the Department to measure the amount of water entering the storage pond and released from the storage pond. Contacted John Leedom, Watermaster for District 65K, to request the Department issue a waiver to Condition No.5. Mr. Leedom submitted a letter to the Department on April 23, 2013, which stated that he is okay with waiving the flow measurement devices for the inlet and outlet of the storage pond.

**RATE &/OR STORAGE RECOMMENDED FOR LICENSING**

| Description               | Rate of Flow (cfs) |      | Storage (af) |
|---------------------------|--------------------|------|--------------|
| Permit Amount             | N/A                | &/or | 12.0         |
| Beneficial Use Limit      | N/A                | &/or | N/A          |
| System Measurement        | 3.85               | &/or | 12.0         |
| Proof Fee Amount          | 0.20               | &/or | 20.0         |
| <b>Recommended Amount</b> | N/A                | &/or | 12.0         |

**H. RECOMMENDATIONS****1. Recommended Amounts**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| WILDLIFE STORAGE      | 01/01 to 12/31       | N/A                   | 12.00 AF             |
| <u>Totals:</u>        |                      | N/A                   | 12.00 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    \_\_\_ Other

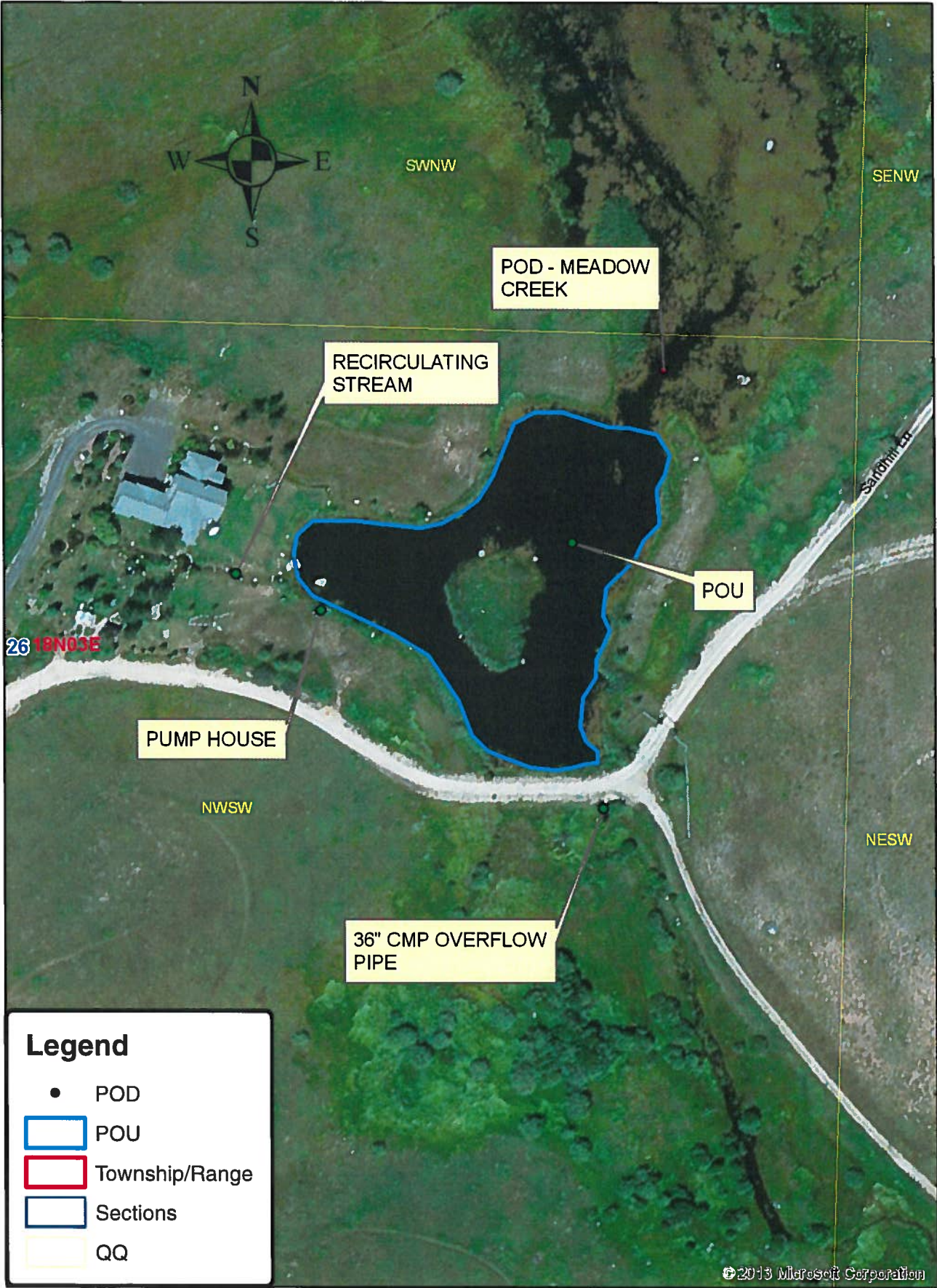
**I. AUTHENTICATION**

Field Examiner's Name Rick Collingwood Date 4/26/13

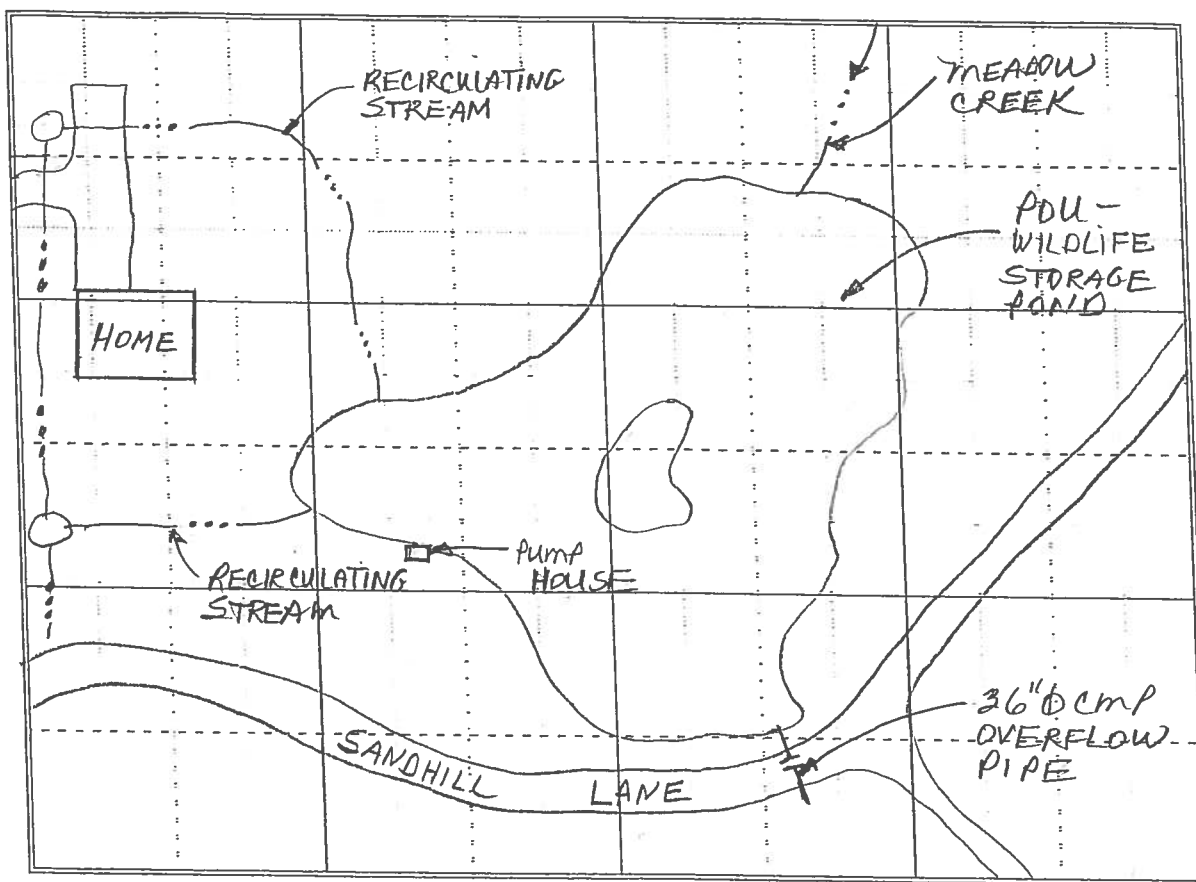
Reviewer \_\_\_\_\_ Date \_\_\_\_\_

65-22946

BING AERIAL PHOTO - 2011



- 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: 65-22946

Field Exam Date: 8-30-12

PLS: NW1/4, SW1/4 Section 26, T.18N, R.03E.

Field Examiner: RC



Place of Use: View northeasterly of the northerly end of the wildlife storage pond. The pond is filled by Meadow Creek, which discharges at the north end of the storage pond.



View easterly of the 36" CMP overflow pipe at the dam.



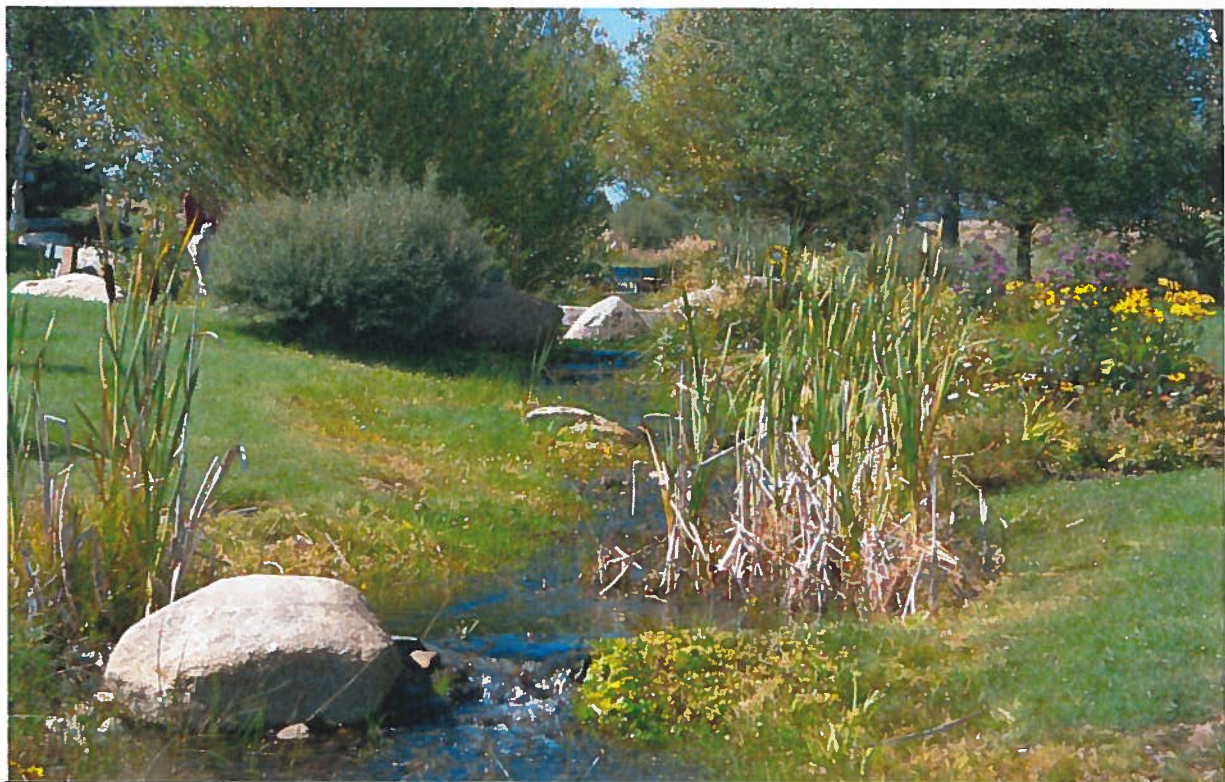
Self-Cleaning screen for 4" suction line located at the southwesterly end of storage pond. A 5 hp pump diverts water from the pond and discharges to a recirculating lined stream channel located westerly of the storage pond.



View southerly of point of beginning for the meandering recirculating stream channel..



View easterly of the meandering recirculating stream channel located southerly of the right holder's home.



View westerly from near the wildlife storage pond of the meandering recirculating stream channel.

April 22, 2013

RECEIVED

APR 23 2013

WATER RESOURCES  
WESTERN REGION

Dear Rick Collingwood:

I am writing regarding our conservation about water right permit number 65-22946, for Michael Deboer .

I think we can go ahead and wave the measuring devise on the inlet and the Outlet to this pond.

Thank you,

John Leedom, water master of 65-K





State of Idaho

## DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C. L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Interim Director

August 14, 2012

Michael J. De Boer  
130 Sandhill  
McCall, ID 83638-5107

**RE: Scheduling Field Exam for Water Right Permit No. 65-22946**

Dear Mr. De Boer:

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 water from Meadow Creek for 12.00 AF of 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 21, 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 that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

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



## State of Idaho

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C. L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Interim Director

August 8, 2012

Michael J. De Boer  
P.O. Box 1751  
McCall, ID 83638

### RE: Scheduling Field Exam for Water Right Permit No. 65-22946

Dear Mr. De Boer:

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 water from Meadow Creek for 12.00 AF of 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 17, 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,

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