

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

**A. GENERAL INFORMATION**

Permit No: 65-22983

Exam Date: 8/12/2013

1. Current Owner: CAMP HAL VAN HAWK LLC  
C/O JON VANDERHOEF  
PO BOX 4116  
BOISE ID 83711  
(208)250-3820
2. Accompanied by: Jon Vanderhoef  
Phone No: Same  
Address: Same  
Relationship to Permit Holder:

3. SOURCETRIBUTARY

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

GROUND WATER

L4 SW1/4SE1/4

Sec. 35, Twp 19N, Rge 03E, B.M.

VALLEY County

Method of Determination: Arc Map (Aerial Photo); GPS – Latitude N.44°56.147', Longitude - 116°03.153'; Datum – NVD83.

2.

PLACE OF USE: DOMESTIC

| 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 | 03E | 35  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X   |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | L 4 |    |        |

PLACE OF USE: IRRIGATION

| 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 | 03E | 35  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.0 |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | L 4 |    | 1.0    |

Total Acres: 1.0

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> |
|--------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------------------|
| <u>D0048074</u>                      | <u>Franklin</u>             | <u>3</u>                    | <u>Unknown</u>              | <u>Gould</u>                | <u>Unknown</u>                               |
| <u>                    </u>          | <u>                    </u> | <u>                    </u> | <u>                    </u> | <u>                    </u> | <u>                    </u>                  |
| <u>                    </u>          | <u>                    </u> | <u>                    </u> | <u>                    </u> | <u>                    </u> | <u>                    </u>                  |
| <u>                    </u>          | <u>                    </u> | <u>                    </u> | <u>                    </u> | <u>                    </u> | <u>                    </u>                  |

\*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> |
|----------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|
| Pitot Tube                       |             |             |                  |                   |             |                    |
|                                  |             |             |                  |                   |             |                    |

2. Measurements: Pitot tube too small to obtain a flow pressure measurement from a sprinkler head nozzle.

#### E. FLOW CALCULATIONS

                     Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 3/290 + (2.31 \times 40) = 18.48/382.40 = 0.05 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.05 \text{ cfs} < 0.13 \text{ cfs } Q(\text{permit})$$

$$HP = 3$$

$$Z = 290' \text{ (Estimated)}$$

$$P = 40 \text{ psi (Assumed)}$$

Appears that the current pumping system cannot attain the permit diversion rate of 0.13 cfs.

Recommend the theoretical pumping capacity of 0.05 cfs.

**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.0 \times 3.0 = 3.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \times 200 \times 1.9835 = 19.8 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: (Domestic – 3 homes)

$$V = 3 \text{ homes} \times 0.6 \text{ AF/home} = 1.8 \text{ AFA}$$

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

A 3-hp submersible pump diverts ground water to provide water to three (3) homes for domestic use, and for irrigation of approximately 1.0 acre of lawn and landscaping.

**IRRIGATION SYSTEM:**

The pressurized irrigation system is comprised of 40 stations operated by two (2) controllers. Each controller operates 20 stations. Each station operates an average of five (5) sprinklers. The sprinklers are a mixture of rotary and spray pop-ups, and drip lines.

**OVERLAP ANALYSIS:**

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 65-22983.

Place of Use: There are no place of use overlaps for Water Right Permit No. 65-22983.

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

### RATE &/OR STORAGE RECOMMENDED FOR LICENSING

| Description               | Rate of Flow (cfs) |      | Storage (af) |
|---------------------------|--------------------|------|--------------|
| Permit Amount             | 0.13               | &/or | N/A          |
| Beneficial Use Limit      | 0.13               | &/or | N/A          |
| System Measurement        | 0.05 (theoretical) | &/or | N/A          |
| Proof Fee Amount          | 0.20               | &/or | N/A          |
| <b>Recommended Amount</b> | 0.05               | &/or | N/A          |

#### H. RECOMMENDATIONS

##### 1. Recommended Amounts

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| DOMESTIC              | 01/01 to 12/31       | 0.050 CFS             | 1.8 AFA              |
| IRRIGATION            | 04/15 to 10/31       | 0.030 CFS             | 3.0 AFA              |
| <u>Totals:</u>        |                      | 0.050 CFS             | 4.8 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

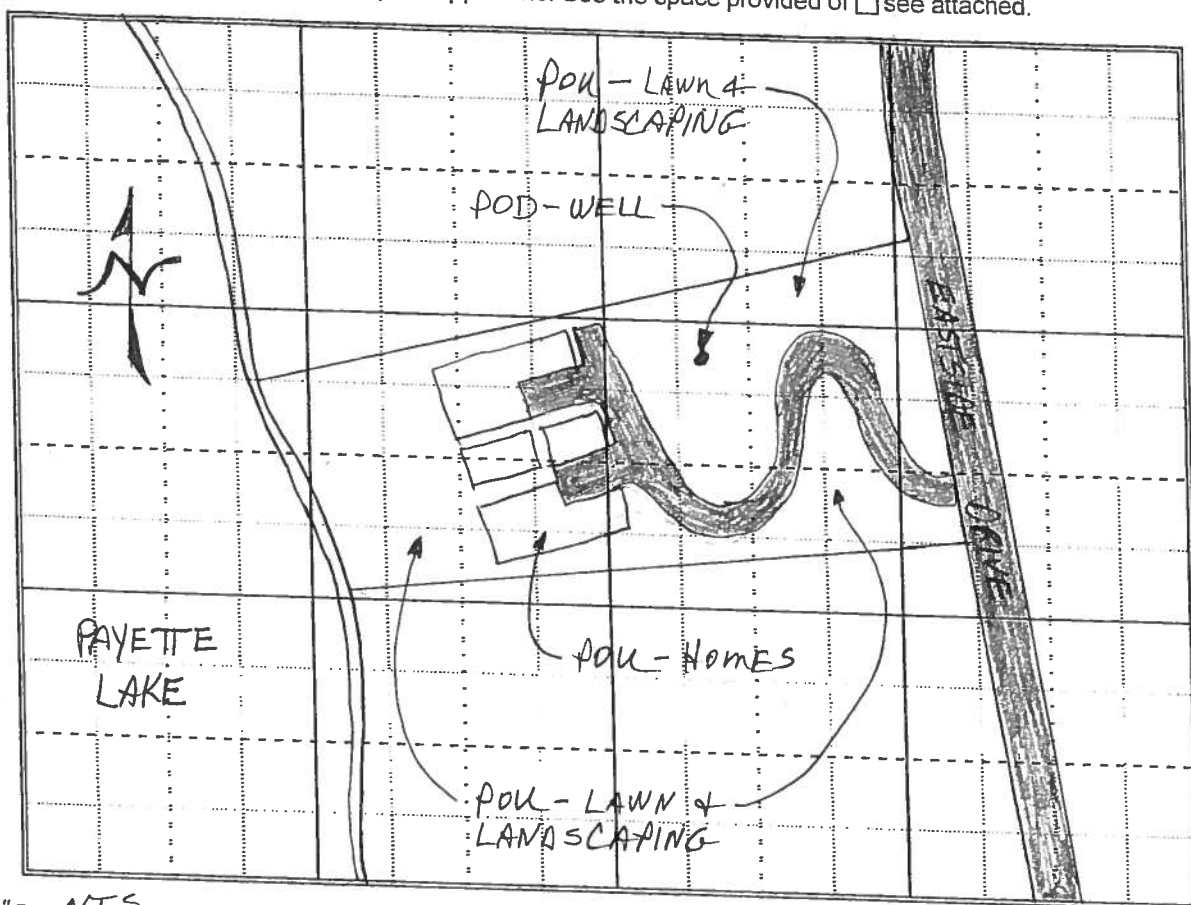
Field Examiner's Name *Rick Collingwood* Date 12/9/13

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

**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

# IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

843281

Office Use Only  
Well ID No. 413465  
Inspected by \_\_\_\_\_  
Twp \_\_\_\_\_ Rge \_\_\_\_\_ Sec \_\_\_\_\_  
1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_  
Lat: \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_ Long: \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_

1. WELL TAG NO. D D0048074  
DRILLING PERMIT NO. \_\_\_\_\_  
Water Right or Injection Well No. LS-22983

2. OWNER:

Name JON VANDERHOEF  
Address P.O. Box 4116  
City BOISE State ID Zip 83711

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 19 North ☒ or South ☐  
Rge. 3 East ☒ or West ☐  
Sec. 35 SW 1/4 SW 1/4 SE 1/4  
Gov't Lot 4 County VALLEY 160 acres  
Lat: 44:56:14.9 Long: 116:03:14.1  
Address of Well Site 2121 EAST SIDE DR.

City MCCALL  
(Give at least name of road + Distance to Road or Landmark)  
Lt. 17418 Blk. \_\_\_\_\_ Sub. Name HARRIS COVE

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation  
☐ Thermal ☐ Injection ☐ Other \_\_\_\_\_

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other \_\_\_\_\_

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other \_\_\_\_\_

7. SEALING PROCEDURES

| Seal Material    | From     | To        | Weight / Volume | Seal Placement Method |
|------------------|----------|-----------|-----------------|-----------------------|
| <u>BENTONITE</u> | <u>0</u> | <u>20</u> | <u>550lbs</u>   | <u>OVERBORE</u>       |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 238

Was drive shoe seal tested? ☒ Y ☐ N How? Air

8. CASING/LINER:

| Diameter  | From       | To         | Gauge     | Material     | Casing                              | Liner                               | Welded                              | Threaded                            |
|-----------|------------|------------|-----------|--------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <u>6"</u> | <u>12</u>  | <u>238</u> | <u>20</u> | <u>STEEL</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <u>4"</u> | <u>221</u> | <u>301</u> | <u>20</u> | <u>PVC</u>   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

Packer ☐ Y ☐ N Type \_\_\_\_\_

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method SAW

Screen Type & Method of Installation \_\_\_\_\_

| From       | To         | Slot Size    | Number    | Diameter  | Material   | Casing                   | Liner                               |
|------------|------------|--------------|-----------|-----------|------------|--------------------------|-------------------------------------|
| <u>281</u> | <u>301</u> | <u>1/4x6</u> | <u>20</u> | <u>4"</u> | <u>PVC</u> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

10. FILTER PACK

| Filter Material | From | To | Weight / Volume | Placement Method |
|-----------------|------|----|-----------------|------------------|
|                 |      |    |                 |                  |

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

40 ft. below ground Artesian pressure \_\_\_\_\_ lb.

Depth flow encountered 286 ft. Describe access port or control devices: \_\_\_\_\_

SANITARY WELL CAP

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

| Yield gal./min. | Drawdown | Pumping Level | Time         |
|-----------------|----------|---------------|--------------|
| <u>37.5</u>     |          | <u>300</u>    | <u>2 HRS</u> |
| <u>30</u>       |          | <u>280</u>    | <u>1 HR.</u> |

Water Temp. \_\_\_\_\_ Bottom hole temp. \_\_\_\_\_

Water Quality test or comments: \_\_\_\_\_

Depth first Water Encounter 19

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

| Bore Dia. | From       | To         | Remarks: Lithology, Water Quality & Temperature | Y                                   | N                                   |
|-----------|------------|------------|-------------------------------------------------|-------------------------------------|-------------------------------------|
| <u>10</u> | <u>0</u>   | <u>6</u>   | <u>BROWN CLAY</u>                               |                                     | <input checked="" type="checkbox"/> |
| <u>10</u> | <u>6</u>   | <u>19</u>  | <u>BROWN SAND &amp; Boulders</u>                |                                     | <input checked="" type="checkbox"/> |
| <u>10</u> | <u>19</u>  | <u>20</u>  | <u>FINE BLUE SAND</u>                           | <input checked="" type="checkbox"/> |                                     |
| <u>6</u>  | <u>20</u>  | <u>108</u> | <u>FINE BLUE SAND</u>                           | <input checked="" type="checkbox"/> |                                     |
| <u>6</u>  | <u>108</u> | <u>136</u> | <u>STICKY GRAY CLAY</u>                         |                                     | <input checked="" type="checkbox"/> |
| <u>6</u>  | <u>136</u> | <u>163</u> | <u>GRAY CLAY w/ SAND STRIPS</u>                 | <input checked="" type="checkbox"/> |                                     |
| <u>6</u>  | <u>163</u> | <u>189</u> | <u>STICKY GRAY CLAY</u>                         |                                     | <input checked="" type="checkbox"/> |
| <u>6</u>  | <u>189</u> | <u>207</u> | <u>SILTY GRAY SAND</u>                          | <input checked="" type="checkbox"/> |                                     |
| <u>6</u>  | <u>207</u> | <u>231</u> | <u>STICKY GRAY CLAY</u>                         |                                     | <input checked="" type="checkbox"/> |
| <u>6</u>  | <u>231</u> | <u>286</u> | <u>BAKED BROWN CLAY</u>                         |                                     | <input checked="" type="checkbox"/> |
| <u>6</u>  | <u>286</u> | <u>291</u> | <u>BROKEN BAKED CLAY</u>                        | <input checked="" type="checkbox"/> |                                     |
| <u>6</u>  | <u>291</u> | <u>303</u> | <u>BAKED BROWN CLAY</u>                         |                                     | <input checked="" type="checkbox"/> |

RECEIVED

SCANNED

MAY 31 2007

JUN 30 2007

WATER RESOURCES  
WESTERN REGION

Completed Depth 301 (Measurable)

Date: Started 5-24-07 Completed 5-29-07

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Menasco Drilling Firm No. 391

Principal Driller D. D. D. Date 5-30-07

and Driller or Operator II \_\_\_\_\_ Date \_\_\_\_\_

Operator I \_\_\_\_\_ Date \_\_\_\_\_

Principal Driller and Rig Operator Required.  
Operator I must have signature of Driller/Operator II.

## FIELD EXAM PHOTOS

Water Right Permit: 65-22983

Field Exam Date: 8-12-13

PLS: SW1/4, SE1/4 Section 35, T.19N, R.03E.

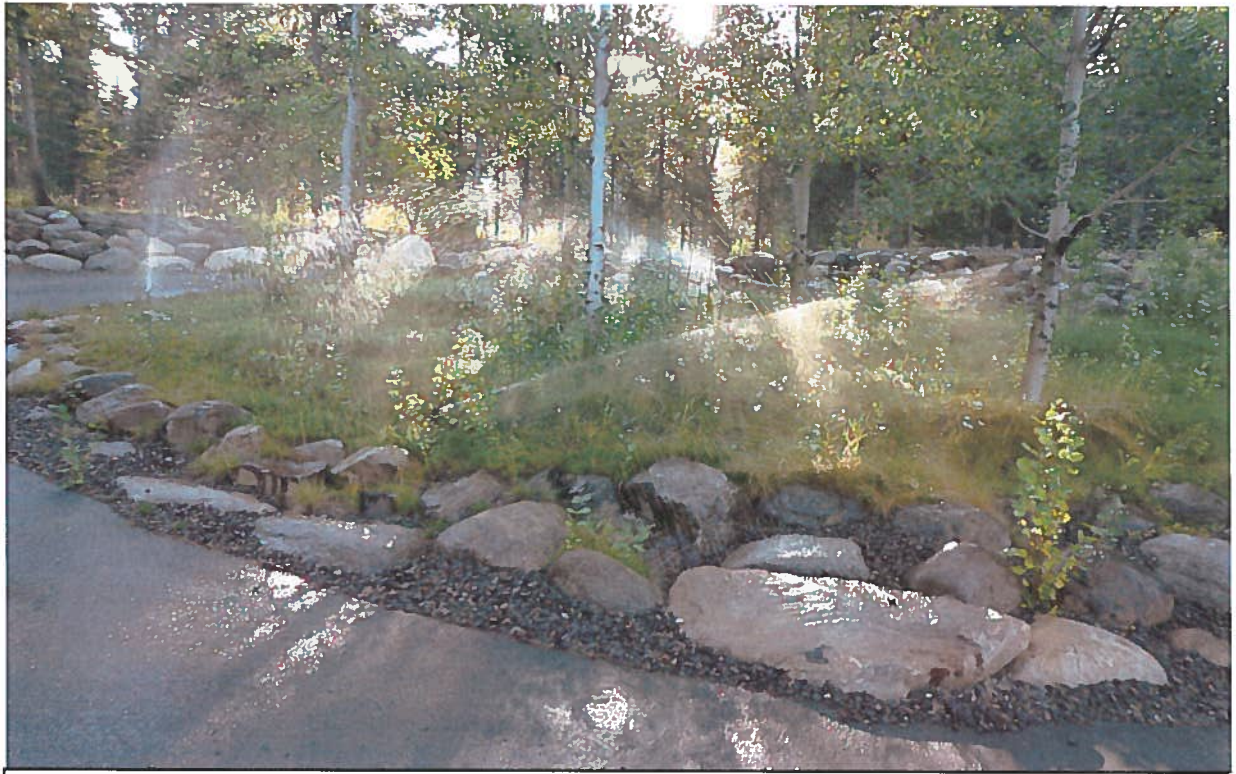
Field Examiner: RC



Point of Diversion: View easterly of the ground water well and irrigation control boxes. The pressurized irrigation system is comprised of 20 stations, with generally five sprinklers operating per station.



Place of Use: View westerly of a recreation/workshop type building and one of the three homes served by the ground water well for domestic use.



Place of Use: View southeasterly of a landscape area adjacent to the driveway being irrigated by the ground water well.



Place of Use: View westerly of two of the three homes served by the ground water well for domestic use.



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)

July 24, 2013

C. L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Interim Director

Camp Hal Van Hawk, LLC.  
c/o Jon Vanderhoef  
P.O. Box 4116  
Boise, ID 83711

### **RE: Scheduling Field Exam for Water Right Permit No. 65-22983**

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of August 12, 2013**. 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 0.13 cfs of ground water for domestic use for 3 homes and irrigation of 1.5 acres.

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 2, 2013, to conduct the exam during the week of August 12, 2013.** 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.