

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 95-12565

Exam Date: 6/4/2015

1. Current Owner: COACH LANE ESTATES  
415 COACH LN  
COEUR D'ALENE ID 83814  
(208)870-9539
2. Accompanied by: Donald Baldwin  
Phone No: 208-870-9539  
Address: 415 S. Coach Ln.

3. SOURCE

SPOKANE RIVER

TRIBUTARY

COLUMBIA RIVER

**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:

SPOKANE RIVER L8 SE1/4NE1/4 Sec. 12, Twp 50N, Rge 05W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 41.725, 116° 53.777 (A0015406)

2.

PLACE OF USE: FIRE PROTECTION

| Twp Rge Sec | NE |    |    |          | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-------------|----|----|----|----------|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|             | NE | NW | SW | SE       | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 50N 05W 12  |    |    |    | X<br>L 8 |    |    |    |    |    |    |    |    | X  |    |    |    |        |

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 |        |
| 50N 05W 12  |    |    |    | 2.4<br>L 8 |    |    |    |    |    |    |    |    | 2.9 |    |    |    | 5.3    |

Total Acres: 5.3

Method of Determination: GPS and maps.

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</u><br><u>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</u><br><u>Size</u> |
|--------------------------------------------|-------------------|-----------|-------------------------|------------------|----------------------------------------------------|
|                                            |                   | 5         |                         |                  |                                                    |

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

#### D. FLOW MEASUREMENTS

1.

| <u>Measurement</u><br><u>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:

#### E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. THEORETICAL PUMPING EQUATION ESTIMATES  $(5 \text{ HP})(8.8)(0.8) / 90 + (55 \times 2.3087) = 0.16 \text{ CFS}$ . APPLICANT SAID PUMP WAS 5 HP AND RAN AT 55 PSI.

**F. VOLUME CALCULATIONS****1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5.3 \text{ AC} \times 3 \text{ AF} = 15.9 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \times 246 \times 1.9835 = 53.7 \text{ AF}$$

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

**2. Volume Calculations for Other Uses: 15.9 AF****G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED THAT APPLICANT HAD 5 HP PUMP THAT RAN AT 55 PSI PER CONVERSATION WITH APPLICANT. UNABLE TO PERFORM FLOW MEASUREMENT BECUASE OF INADEQUATE PLACE TO PUT FLOW METER. THEORETICAL PUMPING EQUATION ESTIMATES FLOW WITH 5 HP PUMP AT 55 PSI PUMPED TO HIGHEST POINT OF SMALL POND IS 90 FEET WHICH IS 73 GPM OR 0.16 CFS. APPLICANT HAD PUT SMALL POND BY ENTRANCE WHERE WATER WAS PUMPED FROM RIVER TO POND THEN PUMPED OUT OF POND FOR IRRIGATION AND FIRE PROTECTION PURPOSES. POND WAS 15 FEET BY 30 FEET AND 3 FEET DEEP. IDWR HAD DETERMINED THAT POND IS COVERED UNDER 24 HOUR RULE BECUASE POND 0.03 AF IN SIZE AND EVAPORATION IS 28 GPD AND THERE IS NO SEEPAGE BECUASE POND IS LINED. POND STORAGE IS 9,775.5 GALLONS WHICH IS LESS THAN 24 HOUR RULE FOR RIGHT WHICH IS 97,000 GPD. LICENSE WILL BE ISSUED FOR 0.11 CFS FOR IRRIGATION OF 5.3 ACRES WITH ANNUAL VOLUME OF 15.9 AF. FIRE PROTECTION WILL BE GIVEN DIVERSION RATE OF 0.15 CFS.

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> |
|-----------------------|----------------------|-----------------------|----------------------|
| FIRE PROTECTION       | 01/01 to 12/31       | 0.150 CFS             |                      |
| IRRIGATION            | 03/15 to 11/15       | 0.110 CFS             | 15.90 AF             |
| <u>Totals:</u>        |                      | 0.150 CFS             | 15.90 AF             |

**2. Recommended Amendments**

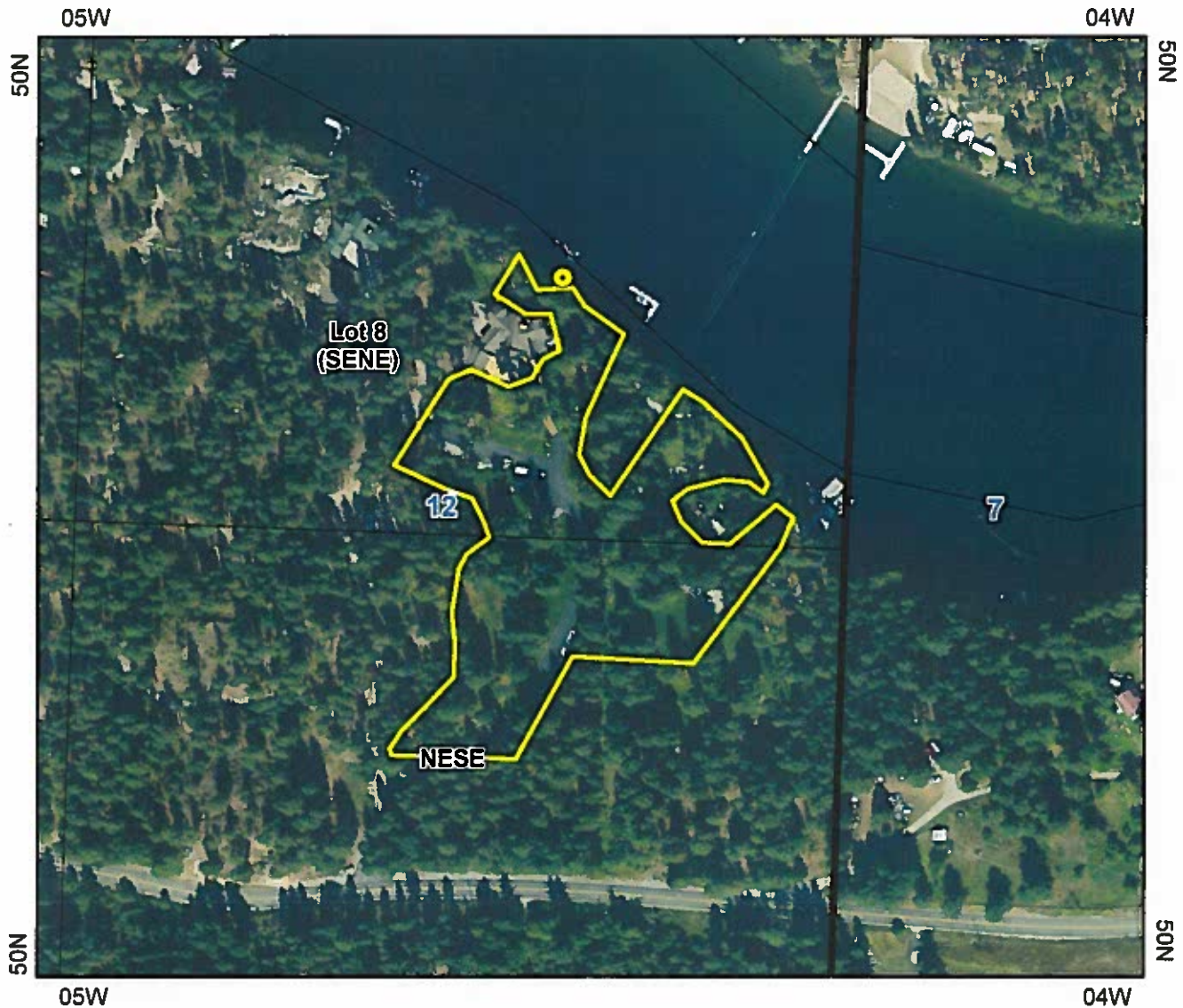
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

**I. AUTHENTICATION**

Field Examiner's Name Adam Franklin Date 2-11-2016  
 Reviewer Keith E. Franklin Date 2-12-2016

State of Idaho  
Department of Water Resources  
**Water Right License**  
95-12565  
*Irrigation*

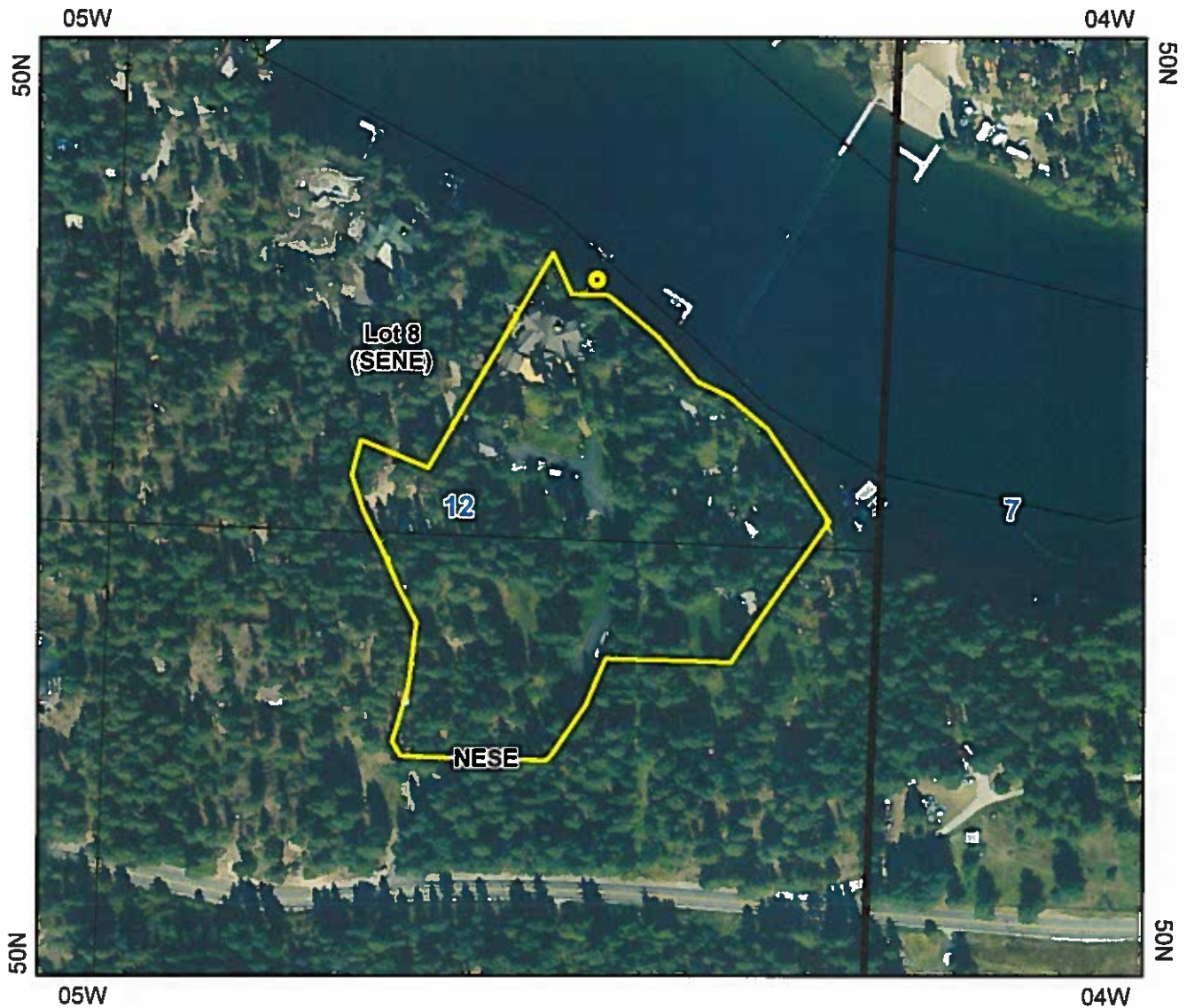


0 0.035 0.07 0.14 Miles

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



State of Idaho  
Department of Water Resources  
**Water Right License**  
95-12565  
*Fire Protection*



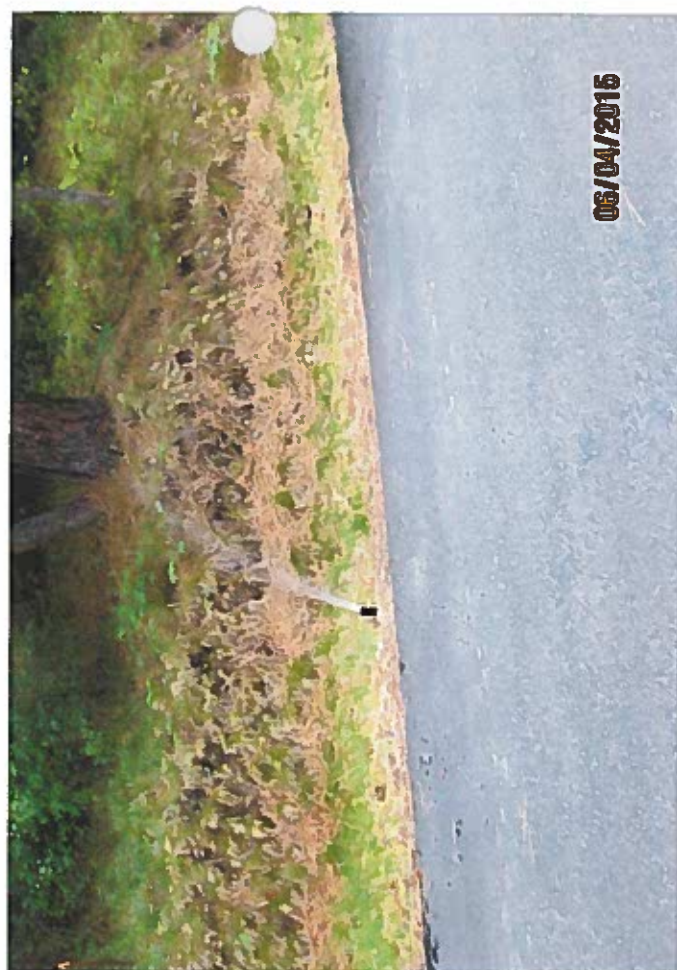
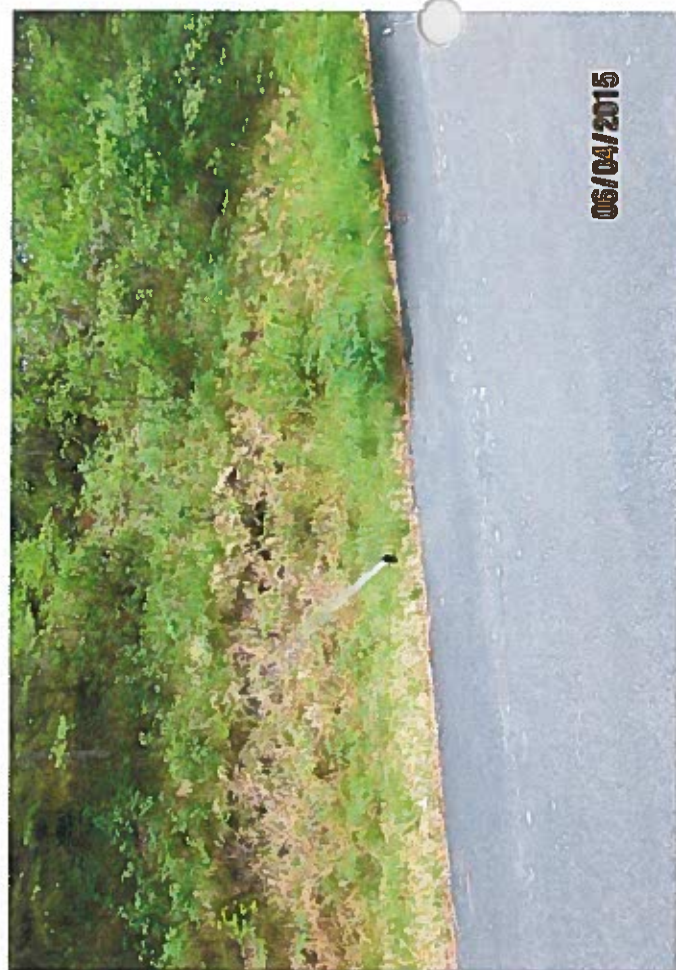
0 0.035 0.07 0.14 Miles

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

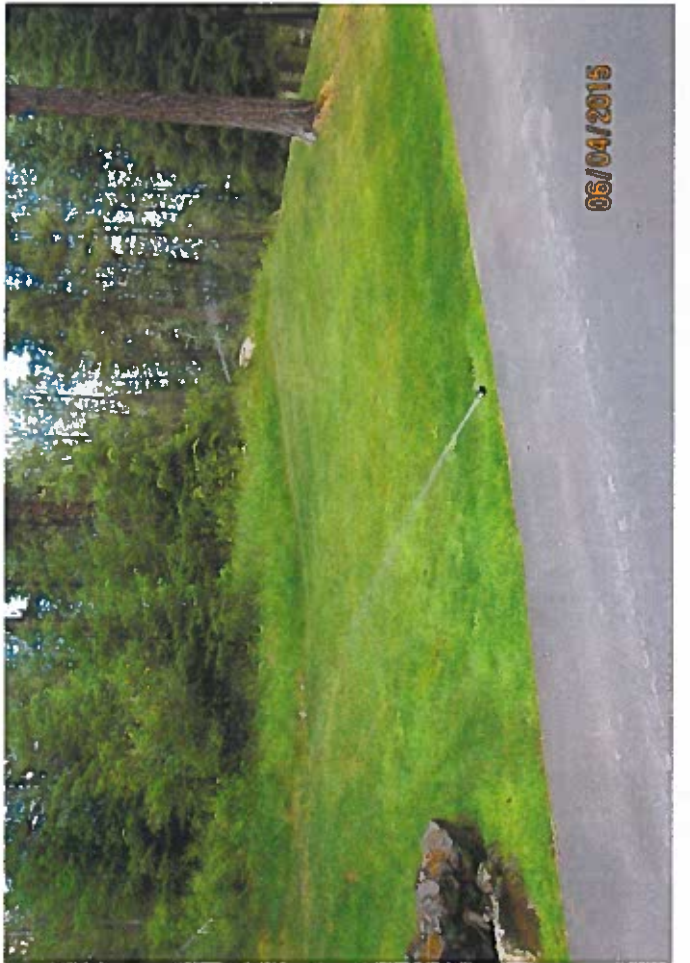
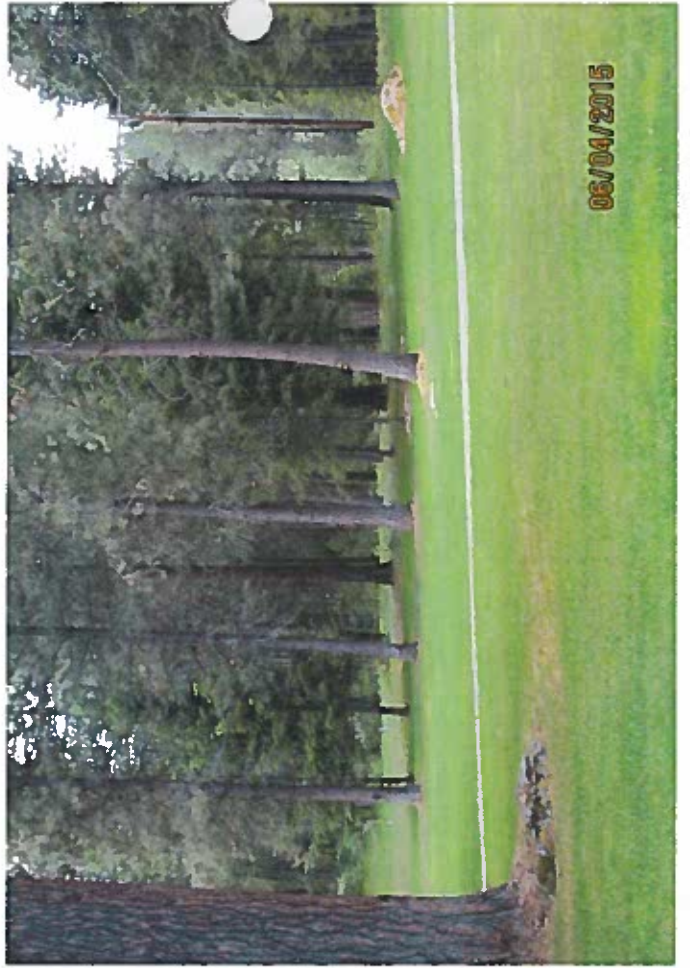


APPLICANT SAID HE HAD 5 HP PUMP THAT RAN AT 55 PSI. THE RISE IN ELEVATION FROM THE RIVER TO SMALL HOLDING POND COVERED UNDER 24 HOUR RULE WAS 90 FEET HIGHER THAN RIVER.

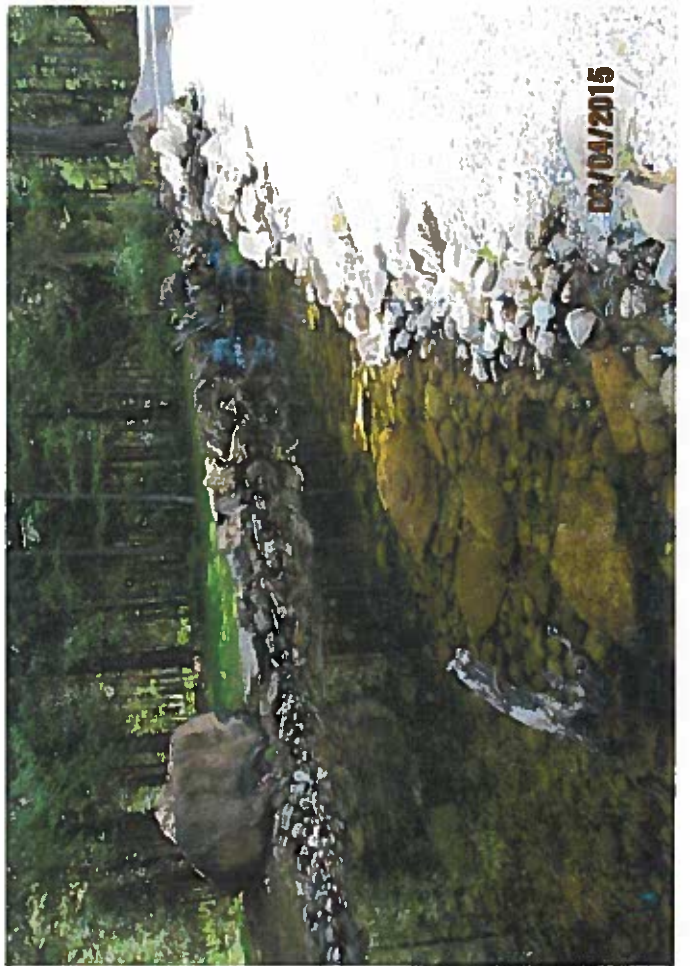
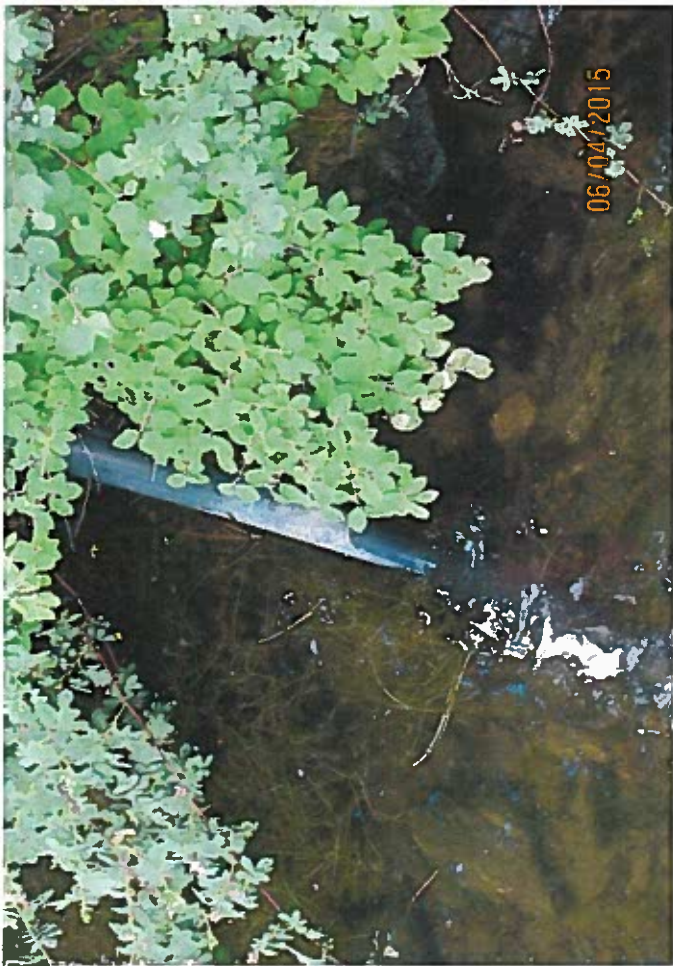
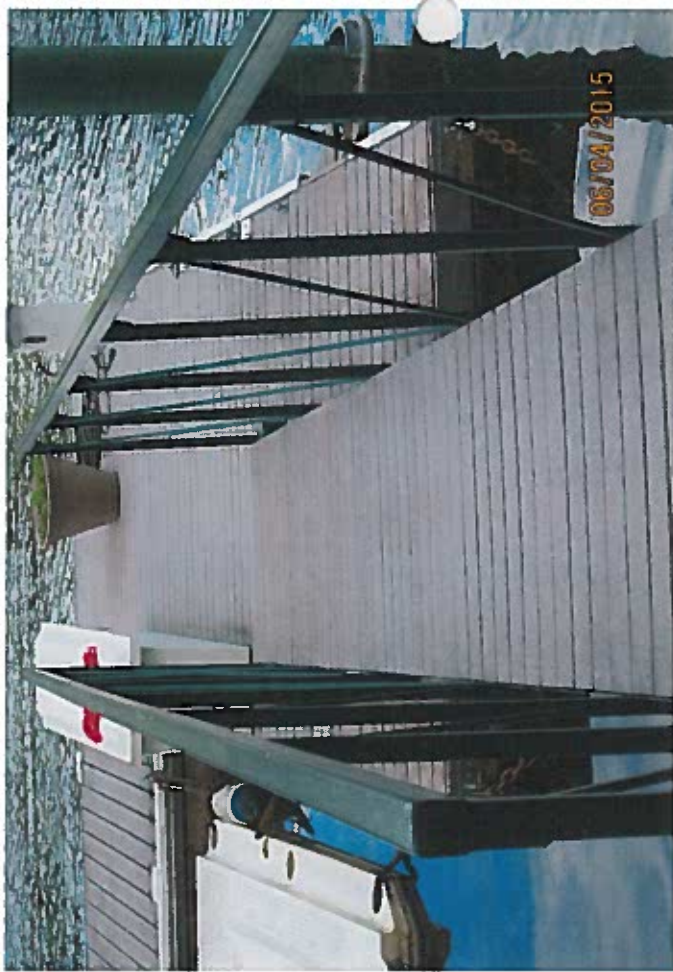
| PUMP EQUATIONS<br>WATER RIGHT No. |                  |    |           |                         |                      |                        | 95-12565 |  |
|-----------------------------------|------------------|----|-----------|-------------------------|----------------------|------------------------|----------|--|
|                                   |                  | HP | H in feet | Efficiency as a decimal | Pumping lift in feet | System pressure in PSI |          |  |
| Q =                               | HP*8.8*Eff/<br>H | 5  | 217.2109  | 0.8                     | 90                   | 55                     |          |  |
| Q = 0.162 cfs                     |                  |    |           |                         |                      |                        | 72.9 gpm |  |



95-12565



95-12515



95-12565



95-12565