

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

**A. GENERAL INFORMATION**

Permit No: 79-14115

Exam Date: 8/26/2011

1. Current Owner: RICK L ALLEY  
PO BOX 51  
WHITE BIRD ID 83554  
(208)839-9404
2. Accompanied by: Rick Alley  
Phone No: Hm: (208) 839-9404, Wk: 839-2294  
Address: PO Box 51, White Bird, ID 83554 (\*\*Physical Address: 165 Studebaker, White Bird, ID 83554)  
Relationship to Permit Holder: Self

3. SOURCE

WHITE BIRD CREEK

TRIBUTARY

SALMON RIVER

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: falls within 79-14053 City of White Bird (service area boundary)
2. Other water rights with the same point of diversion: None

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

WHITE BIRD CREEK  
IDAHO County

SE1/4SW1/4

Sec. 14, Twp 28N, Rge 01E, B.M.

Method of Determination: Garmin GPS Map 76S

2.

PLACE OF USE: DOMESTIC

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    |        |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | Totals |
| 28N | 01E | 14  |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |        |

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.

**Well or Diversion**

| <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 Size</u> |
|----------------|-------------------|-----------|-------------------------|------------------|------------------------------------------|
| A0016697       | Gould GT10        | 1 Hp      | 12211FM                 |                  | C48A95A06 1 ½ inch                       |

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

**D. FLOW MEASUREMENTS**

## 1. Measurements:

6 (1/4)-inch rainbirds run at 1 time at 30psi at the top and 40 psi at the bottom (35 psi average)

$$Q(\text{gpm}) = 30.0 \times D(\text{in})^2 \times P(\text{psi})$$

$$(30.0 \times 0.625 \times 5.916079783) / 448.8 = 0.075 = 0.08 \text{ cfs}$$

Pipe Conversion:

1 ½ inch pipe

$$Q = 5(3.1416) \times r^2 \times v = 0.06 \text{ cfs}$$

Theoretical:

$$[(8.8) \times (1 \text{ Hp}) \times (0.70 \text{ eff})] / [2 \text{ ft lift} + (35 \text{ psi} \times 2.31)] = 0.07 \text{ cfs}$$

**Recommend 0.02 cfs as permitted****E. VOLUME CALCULATIONS****Recommend IDWR Standard for Domestic External Use Only (yard/garden) = 0.6 af**Have conditions of permit approval been met? ☒ Yes ☐ No**F. DIVERSION NARRATIVE:**

2 inch screened intake at the creek, to 1 Hp Gould GT10 pump (C48A95A06, Serial No. 12211FM, 1 ½ inch discharge to 1 ½ inch ABS pipe that splits, and then has tri-valves for a total of 6-hoses with ¼ inch rainbirds attached to each (that can be moved around the yard/garden). 6 nozzles can run at the same time with 40 psi at the bottom of the yard, and 30 psi at the top of the yard (35 psi average).

**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       | 0.020 CFS             | 0.60 AF              |
| <u>Totals:</u>        |                      | 0.020 CFS             | 0.60 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

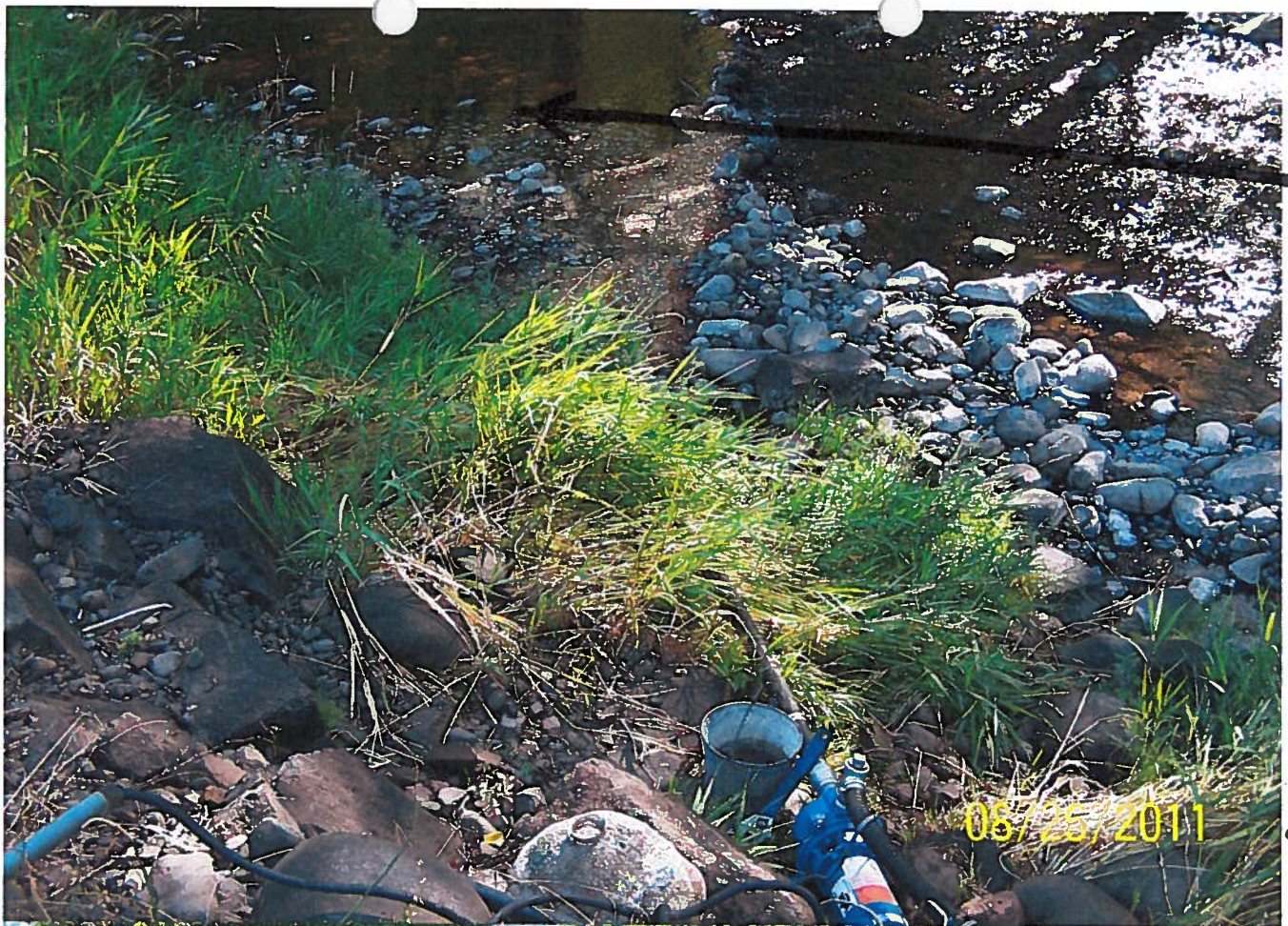
*Jandy Hemminger*

Date

9/7/2011

Reviewer

Date



POD  
2"  
screen  
intake

1 Hp  
Gould  
GT10  
C48A9SA  
1 1/2"  
discharge  
to  
1 1/2"  
ABS



POU

79-14115 Alley

S. Hemenway



Pou

various  
hoses  
with  
nozzles  
on  
each

08/26/2011



(6) 1/4"  
rainbird  
run  
at one  
time  
at  
35 psi  
average

08/26/2011

79-14115 Alley

S. Hemenway

