

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22987

Exam Date: 10/9/2012

1. Current Owner: ALLAN METOS
81 RIVER RANCH DR
GARDEN VALLEY ID 83622
(208)462-3050

And

ANDREA METOS
81 RIVER RANCH DR
GARDEN VALLEY ID 83622
(208)462-3050

2. Accompanied by: Allan Metos
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCE

MIDDLE FORK PAYETTE RIVER

TRIBUTARY

PAYETTE 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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

MIDDLE FORK PAYETTE RIVER NW1/4NW1/4
BOISE County

Sec. 26, Twp 10N, Rge 04E, B.M.

Method of Determination: Arc Map (Aerial Photo)

2.

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	
10N	04E	23											1.7						1.7
												L 4							
10N	04E	26					.1												.1

Total Acres: 1.8

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 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>
N/A	A.O. Smith	1		Monarch	0402 (1 1/2")

*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. Flow measurement at 1 1/2" PVC discharge pipe to pond. Q = 25 gpm (0.06 cfs).

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 1/50 + (2.31 \times 40) = 6.16/142.4 = 0.04 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.04 \text{ cfs} = Q(\text{permit}) < 0.06 \text{ cfs } Q(\text{measured})$$

$$HP = 1$$

$$Z = 50' \text{ (Estimated)}$$

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

Appears that the current pumping system from the river can attain the permit diversion rate of 0.04 cfs.

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: N/A

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

A 1-hp pump diverts water through a screened 1 ½" PVC suction line in the Middle Fork of the Payette River for irrigation of lawn, landscaping, and garden areas on Lot 14 of the River Ranch Subdivision. Water is pumped up an approximate 50' high embankment through 1 ½" PVC pipe and discharges to a small and shallow landscaping pond. The pond contains a 12" PVC overflow pipe which discharges water to drain back to the river.

IRRIGATION SYSTEM:

A 2-hp pump diverts water from a small and shallow landscape pond. Water is diverted through 1 ½" PVC pipe to the pressurized irrigation system. The pressurized irrigation system is comprised of six (6) stations. Lawn stations contain eight (8) pop-up rotary sprinkler heads, while the garden area stations have up to six (6) pop-up sprinkler heads.

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

CONDITION NO.7 (01H) – Prior to diversion of water under this right, the right holder shall install a lockable device. Power to the river pump is controlled by a manual on/off switch in a junction box in the garage. Power to the pond pump is controlled by a manual on/off switch in a junction box mounted on a post next to the pond. The junction box has a latch for locking. The right holder has the ability to lock the power supplies to both pumps. Therefore, the right holder has complied with Condition No.7.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.04	&/or	N/A
Beneficial Use Limit	0.04	&/or	N/A
System Measurement	0.06	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.04	&/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>
IRRIGATION	03/15 to 10/31	0.040 CFS	N/A
<u>Totals:</u>		0.040 CFS	N/A

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

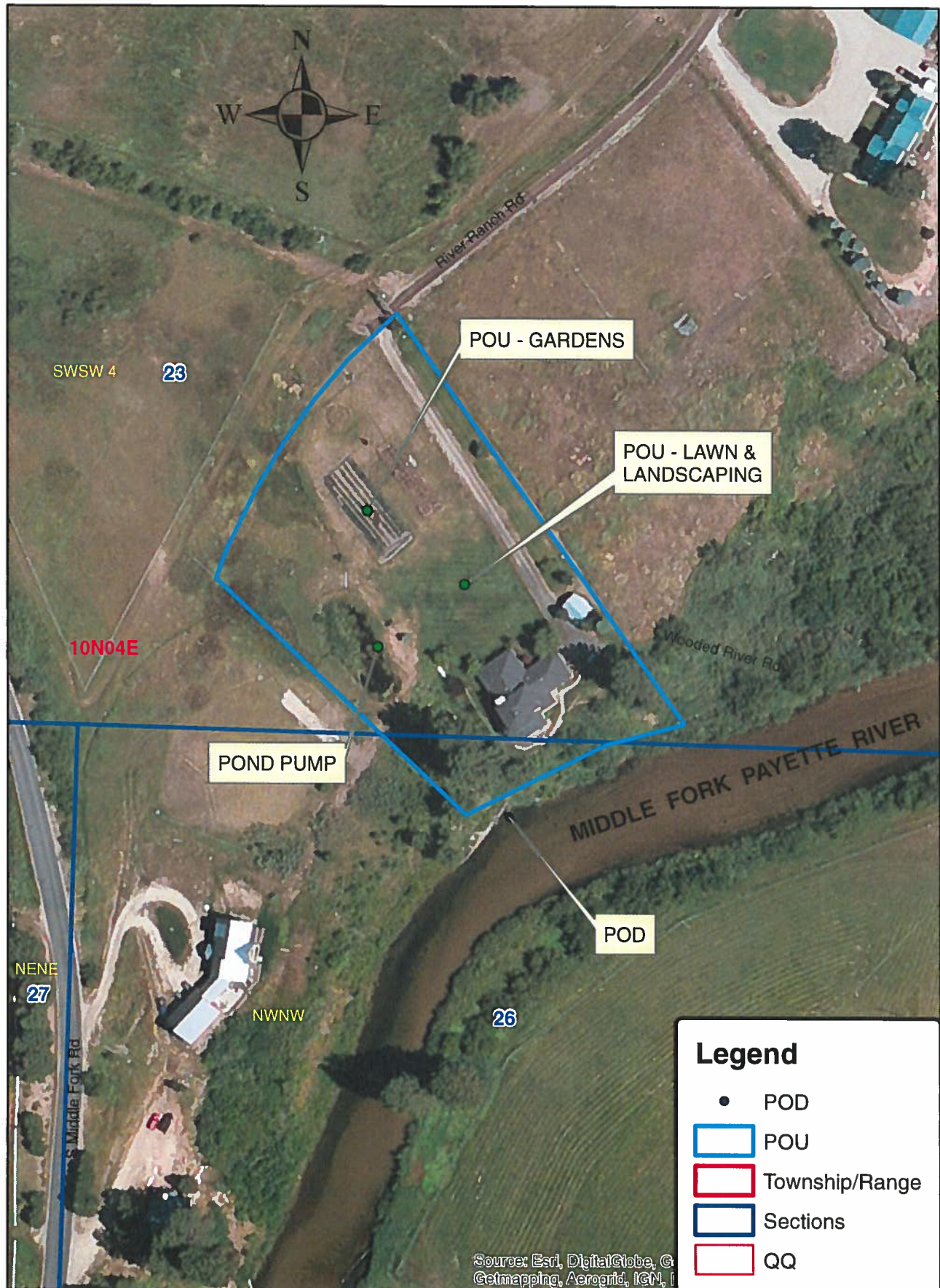
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 3/5/13

Reviewer _____ Date _____

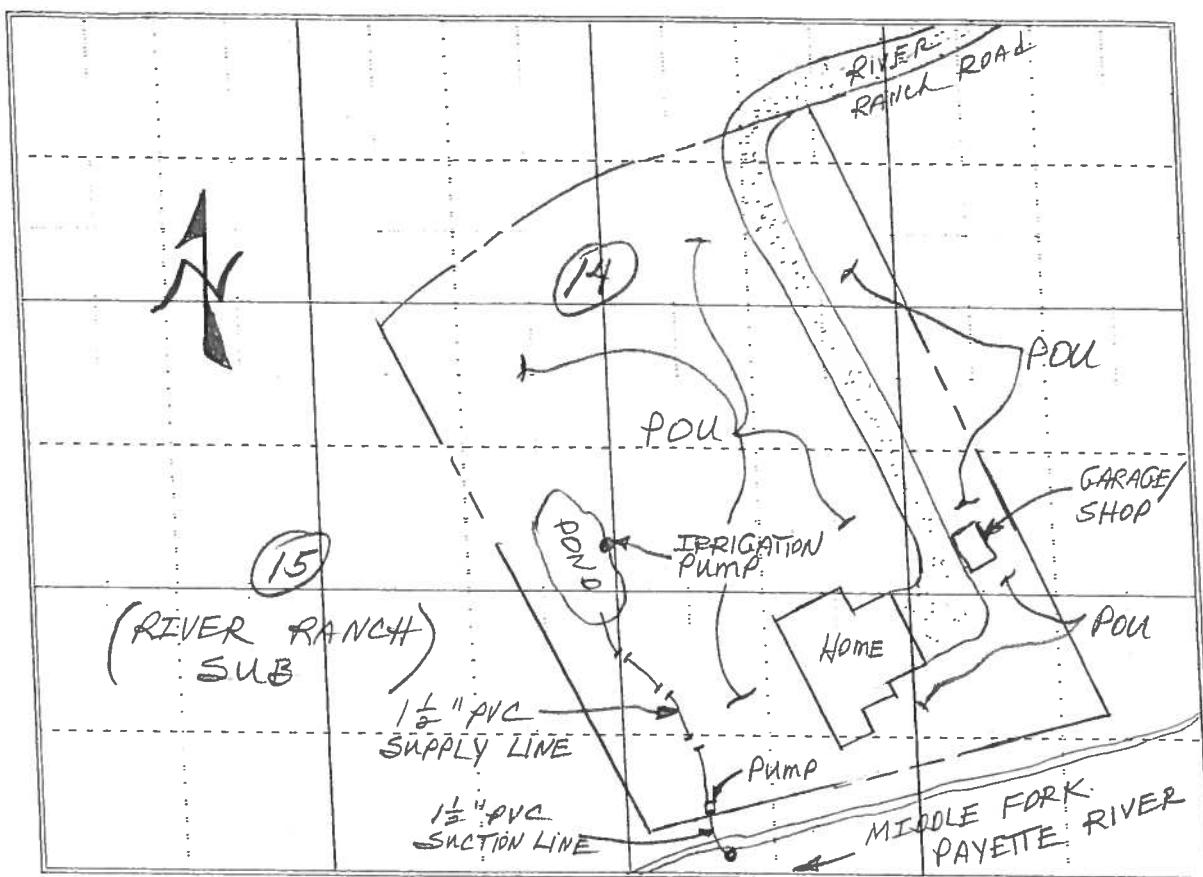
65-22987
GOV'T. LOT 4

ESRI AERIAL PHOTO - 2012



0 40 80 160 240 320
Feet

- 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

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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DM ID: [42144](#) Survey Type: [Original Survey](#) State: [Idaho](#)

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Sheet: 1 Description: ---

Map showing survey sections 16 through 27. A black circle highlights a specific area within Section 22. The map includes contour lines, a river, and various survey measurements. A 'Previous Survey by' label is visible. A 'zoom view' button is at the bottom right of the map area.

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FIELD EXAM PHOTOS

Water Right Permit: 65-22987

Field Exam Date: 10-9-12

PLS: NW1/4, NW1/4 Section 26, T.10N, R.04E.

Field Examiner: RC



Point of Diversion: View northeasterly of the 1 ½" PVC suction line from the Middle Fork of the Payette River. A plastic container float is attached to the screened intake to keep the suction line above the sandy river bottom.



Point of Diversion: View southerly of the 1-hp pump and the 1 ½" PVC suction line. The water is discharged into a storage pond approximately 40 to 50 feet above the river.



View southwesterly of the 1 ½" PVC pipe supply line discharging into a pond. Water is pumped from the pond for irrigation of the right holders lawn, landscaping, and gardens.



View westerly of 1 ½" PVC suction line and a 2-hp pump diverting water from a pond. Water is discharged through a 1 ½" PVC supply line to the pressurized irrigation system for irrigation of lawn, landscaping, and garden areas.



Place of Use: View northerly of the pressurized irrigation system operating to irrigate the lawn, landscaping, and garden areas.



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

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

October 3, 2012

Allan & Andrea Metos
81 River Ranch Drive
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-22987

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of October 15, 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 0.04 cfs from the Middle Fork of the Payette River for irrigation of 1.8 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 October 12, 2012, to conduct the exam during the week of October 15, 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.