

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13822

Exam Date:
9/27/2012

1. Current Owner: WALTER H LYONS
2645 E MAIN
EMMETT ID 83617
(208)365-4010
2. Accompanied by: Mrs. Lyons
Phone No: SAME AS ABOVE
Address: SAME AS ABOVE
Relationship to Permit Holder: WIFE
3. SOURCE TRIBUTARY
UNNAMED DRAIN 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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED DRAIN SW1/4NE1/4 Sec. 9, Twp 06N, Rge 01W, B.M.
GEM County

Method of Determination: GPS – GARMIN 43.87552, -116.45778

2.

PLACE OF USE: IRRIGATION

TwpRgeSec	NE				NW				SW				SE				Totals
06N01W 9	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	1.5
			1.5														

Total Acres: 1.5

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.

<u>Well or Diversion</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>
POD	Smith or Centuryite	2	model 7-193800-01	Red Lion	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>
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2. Measurements: none taken

E. FLOW CALCULATIONS _____ Additional Computation Sheets Attached
Measured Method:

[1] THEORETICAL FLOW CALCULATION: 2 hp pump, 70% efficiency, 40 psi, z = 12 lift, 40 psi

$$\frac{8.8 \times 2 \times 0.7}{12 + 40 \times 2.31} = \frac{12.32}{104.4} = 0.118 = 0.12 \text{ cfs}$$

[2] IDWR standard 0.03 cfs per acres for small system, up to 5 acres

$$0.03 \times 1.5 \text{ acres} = 0.045 \text{ cfs} = 0.05 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 21.5 \times 4.5 = 6.75 = 6.8 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .05 \times 260 \times 1.9835 = 25.78 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.8 \text{ af}$$

2. Volume Calculations for Other Uses: not applicable

G. NARRATIVE/REMARKS/COMMENTS

Mrs. Lyons accompanied me on the exam. The source is an unnamed drain or waste ditch. The permittees state that the ditch is locally known as the Northside Drain tributary to the Tunnel #7 Wasteway.

There is a 2 hp pump with a 2" intake pipe. A 2" pipe from the pump is buried and connected underground to 48 sprinkler heads of various types. The pipe from the ditch is also plumbed to 2 faucets on the west and south portion of the parcel.

Irrigation occurs along the north and east property boundaries, and around the house. There are isolated trees and shrubs south of the house that are watered by hand with wastewater. There is a maximum of 1.50 acres irrigated with wastewater. The permittees also have a domestic well that irrigates some of the lawn and trees that are irrigated with the wastewater.

According to ArcMap, the parcel is in the Last Chance Ditch Co. and Emmett Irrigation District service area. It is not in a drainage district.

In ArcMap, it appears that the POD and a narrow strip of the POU are in the NWNE Sec 9, very close to the QQ line. The permit was not issued in this QQ. However, it is also clear from ArcMap that the taxlots are offset from the PLS grid. Hence, no amendment is necessary because changing the POD and adding the NWNE may be an error and an unnecessary expense to the permittees.

A theoretical flow calculation was made, and the rate found to be 0.12 cfs. However, I recommend using the 0.03 cfs/acres for licensing the 1.5 acres, the IDWR standard for acreage less than 5 acres, for a quantity of 0.05 cfs. The volume recommended for licensing is 6.8 afa, the smaller of the Vir and the Vdr calculations.

There is no lockable device on the pump as required by the permit conditions. I contacted the Watermaster who responded that it was okay to waive the lockable device. The condition should be replaced to allow IDWR to require one in the future for this small diversion.

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

H. RECOMMENDATIONS

- 1) Permit amount 0.12 cfs
- 2) Beneficial use limit 0.5 cfs
- 3) System measurement 0.5 cfs
- 4) Proof fee amount 0.20 cfs

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.050 CFS	9.00 AF
<u>Totals:</u>		0.050 CFS	9.00 AF

2. Recommended Amendments

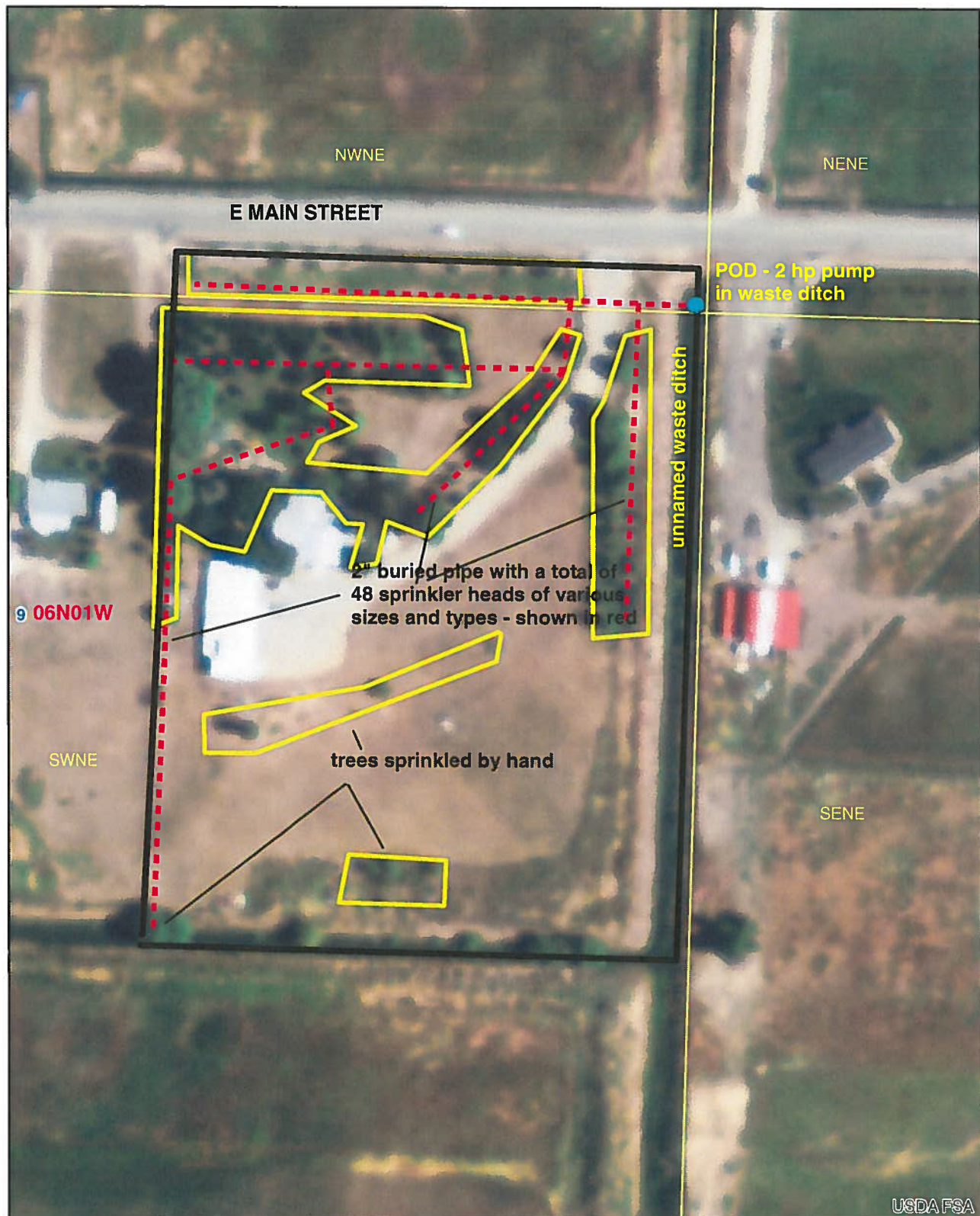
 Change P.D. as reflected above Add P.D. as reflected above x None

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

I. AUTHENTICATION

Field Examiner's Name Wick Linsie Date 2-11-13

Reviewer _____ Date _____



65-13822 -- 2011 photography of POD, POU and delivery system. Irrigated place of use in yellow. Parcel outlined in black.

Music, Vicky

From: waterdist65 [waterdist65@srvinet.com]
Sent: Friday, February 08, 2013 2:17 PM
To: Music, Vicky
Subject: RE: measuring condition 65-13822

Dear Ms. Music,

Thank you for the good information you have provided me in regard to this application.

I believe it is appropriate to waive the requirement for a locking device in this instance, as long as the Department reserves the right to reinstate the requirement in the event it becomes necessary to properly administer this right and other water rights that may exist on the stream.

Best regards,

Ron Shurtleff
State Water District No. 65
102 N. Main
Payette, ID 83661
Phone: 208-642-4465
Fax: 208-642-1042
E-mail: waterdist65@srvinet.com

From: Music, Vicky [<mailto:Vicky.Music@idwr.idaho.gov>]
Sent: February 01, 2013 10:10
To: waterdist65@srvinet.com
Subject: measuring condition 65-13822

Good morning Ron –

I am working on the licensing for 65-13822, 0.04 cfs from a waste ditch, in Emmett. The address of the property is 2645 E Main, Emmett, ID. The local name of the source is the Northside Ditch, tributary to Tunnel no. 7 Wasteway.

The applicant, Lyons, use a 2 hp pump for less than 2 acres irrigation, though 2 acres will be licensed.

A lockable device requirement is on the permit, as are the rental pool conditions. However, no lockable device was installed. Is a lockable device condition required, or can this be one that will be worded upon notification, a lockable device will be installed?

Attached is a layout of the place of use and the system.

Thank you.

Vicky Music
Sr. Water Resource Agent
IDWR Western Region
2735 Airport Way
Boise, ID 83705
208.334.2190



2 hp pump and 2" pipe from the unnamed ditch that runs along the east boundary of the Lyons property.



Sprinklers and irrigation of trees and grass along the east side of property.



Looking southwest at the trees and lawn irrigated in the Lyons front yard.



There are several scattered trees in the back portion of the property that are watered with wastewater from the unnamed ditch.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

September 17, 2012

Walter Lyons
2645 E Main
Emmett, ID 83617

Re Permit To Appropriate Water No. 65-13822

Dear Mr. Lyons:

The permit referenced above was issued to you for irrigation use from a drain for the irrigation of 4 acres. This letter is to request that you call me to schedule the field exam for this permit. A field exam is required by Idaho law before a license can be issued, at which time it becomes a water right. The license is the end product needed for continued water use.

The system must be operating the day of the exam and you will need to provide information regarding diversion and delivery works, such as pump and motor specs.

I will be conducting exams in the Emmett area on September 26 and 27, 2012. Please call me at 208.334.2190, **by September 21, 2012**, to set an appointment for the exam. Failure to respond to this letter request may result in the permit being voided or a license issued for less than the permitted amount. Thank you.

Sincerely,

Vicky Music
Sr. Water Resource Agent