

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 1-7125
Exam Date: 4/3/2014

1. Current Owner: J P WOOLSTENHULME
805 S RIVER DR
HEYBURN ID 83336
(208)678-5696

And

SUE WOOLSTENHULME
805 S RIVER DR
HEYBURN ID 83336
(208)678-5696

2. Accompanied by: Bill R Williams
Phone No: (208)677-4637
Address: 805 S River Drive, Heyburn, ID 83336
Relationship to Permit Holder: Current land/right owner

3. SOURCE
SNAKE RIVER

TRIBUTARY
COLUMBIA RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 36-12205 (decreed domestic groundwater right) and property is within Minidoka Irrigation District Service area (Mr. Williams indicated that he pays MID assessments but does not get water).
2. Other water rights with the same point of diversion: None

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

SNAKE RIVER L6 SW1/4SE1/4 Sec. 22, Twp 10S, Rge 23E, B.M.
MINIDOKA County

Method of Determination: Aerial photography, GIS, and field verification

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	
10S	23E	22															.3		.3
																	L 6		

Total Acres: 0.3

Method of Determination: Aerial photography, GIS, and field verification

D. FLOW MEASUREMENTS

Not required for permits with irrigation of less than five (5) acres per new Beneficial Use Examination Rules implemented 3/29/2012.

$$\text{Theoretical yield: } Q = \frac{8.8 \times (H_p) \times (\text{Eff})}{H}$$

Where: $H_p = 1.0$ Hp (from name plate on pump motor)

$\text{Eff} = 70\%$ (assumed)

$H = \text{elevation distance} + 2.31 \times \text{operating pressure}$ (assume elevation difference of 3.0 feet based on field observation and estimate of pumping height and assumed operating pressure of 30.0 psi based on lawn sprinkler).

$$H = 3.0 \text{ feet} + (2.31 \times 30.0 \text{ psi}) = 72.3 \text{ feet}$$

$$Q = \frac{8.8 \times (1.0) \times (0.70)}{72.3}$$

$Q = 0.085$ cfs Rate exceeds permitted amount of 0.02 cfs, therefore use permitted amount.

E. VOLUME CALCULATIONS

Not required for permits with irrigation using natural stream flow from a stream or spring (surface water source) per new Beneficial Use Examination Rules implemented 3/29/2012. However, due to the nature of this right and the requirement to obtain supplemental (possibly rental) water, it is recommended that this right be licensed with a diversion volume.

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.3 \text{ acres}) \times (4 \text{ AFA per acre}) = 1.2 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.02 \text{ cfs}) \times (246 \text{ days}) \times 1.9835 = 9.8 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.2 \text{ AFA}$$

F. NARRATIVE/REMARKS/COMMENTS

Application for Permit 01-7125 was filed on April 4, 1994 by JP &/or Sue Woolstenhulme to appropriate 0.02 cfs of water from the Snake River for irrigation of 0.3 acres on Lot B of Sonville Subdivision, Minidoka County. The permit was approved on June 13, 1994 and Proof of Beneficial Use was filed on May 26, 2005 by JP and Sue Woolstenhulme. Apparently sometime in history, JP &/or Sue Woolstenhulme sold the property to Bill and Carolyn Williams. I was able to contact Bill Williams and arrange a time to conduct the licensing exam for permit 01-7125. On April 4, 2014, I met Mr. Williams and conducted the licensing exam for the permit.

The 01-7125 system consists of a 1.0 Hp pump and motor (Weg item # 10223904) that diverts water from the Snake River to an underground sprinkler system with six stations of pop up sprinkler heads used to irrigate the lawn and landscaping on Lot B of Sonville Subdivision. During the exam, the system was not in operation since Mr. Williams had removed the pump and motor for the winter and had not yet reinstalled the pump and motor. However, he was able to show me the pump and motor in his shop and the location where he pumps from the river (see attached point of diversion photos). Utilizing aerial photography, GIS, field observation, and conversation with Mr. Williams it appears that there is approximately 0.3 acre of the property irrigated with the system.

One item of note relating to the permit is the relatively late priority on the Snake River and a condition on the permit indicating that "No water may be diverted under this right until adequate supplemental water is obtained for the irrigation season when the natural flow is not available." During the exam, Mr. Williams indicated that he sends a check to Idaho Falls every year for his water and that he also pays the Minidoka Irrigation District (MID), but does not receive any MID water for the property. After the exam, I contacted Water District 01 personnel and they indicated that they had record of Mr. Williams and

the previous owner (JP &/or Sue Woolstenhulme) paying a \$50.00 fee to the district on an annual basis and they had not curtailed this particular diversion. It appears that Water District 01 has been aware of the diversion and water use for several years. It is recommended that the condition indicating that "No water may be diverted under this right until adequate supplemental water is obtained for the irrigation season when the natural flow is not available." be retained on the license.

Another item of note relates to the permitted period of use of 4/1 to 10/31. The currently authorized irrigation period of use for the area is 3/15 to 11/15. It is recommended that license 01-7125 be issued with the currently authorized irrigation period of use for the area of 3/15 to 11/15.

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

G. 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 11/15	0.020 CFS	1.20 AF
<u>Totals:</u>		0.020 CFS	1.20 AF

2. Recommended Amendments

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

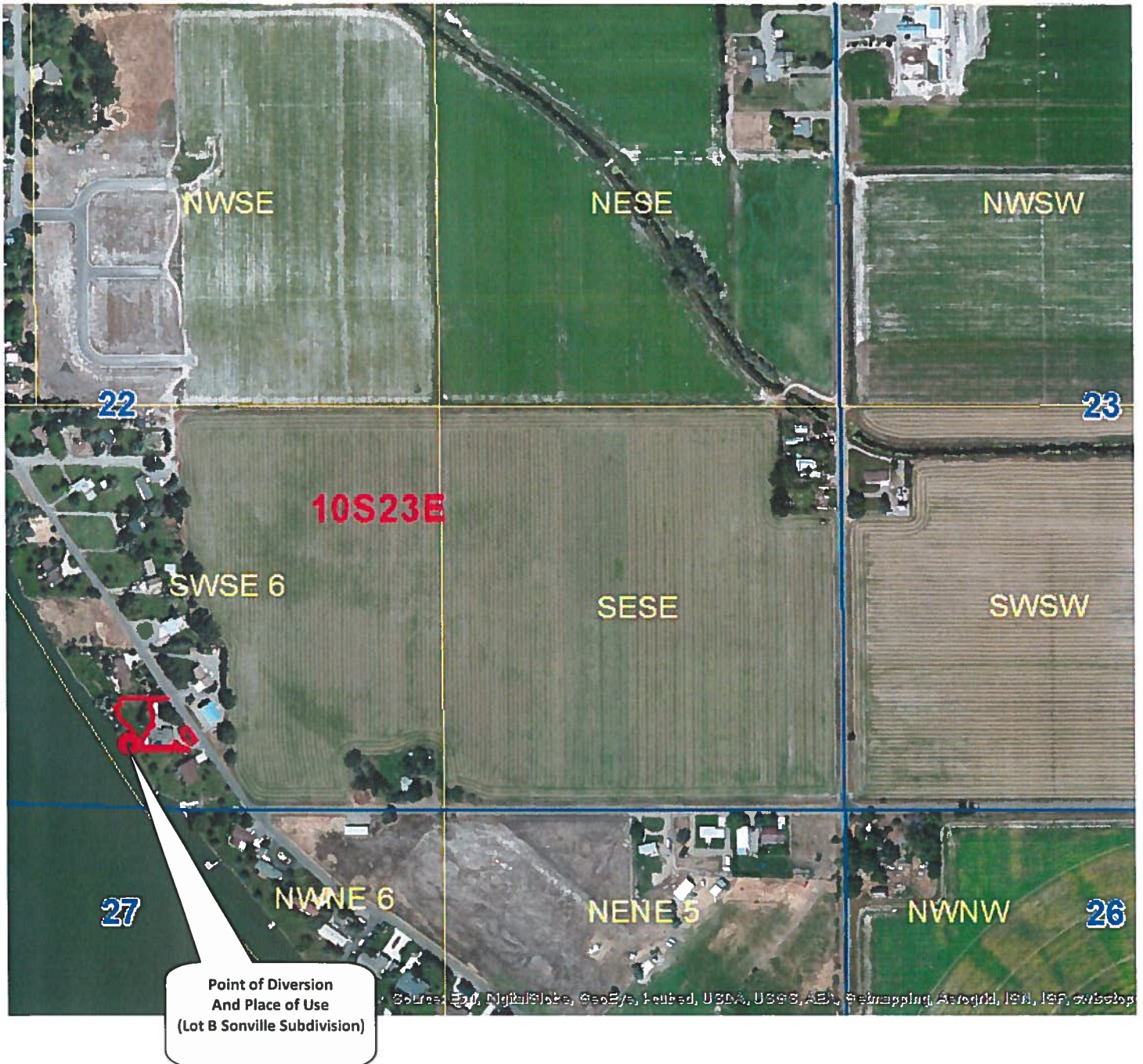
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

H. AUTHENTICATION

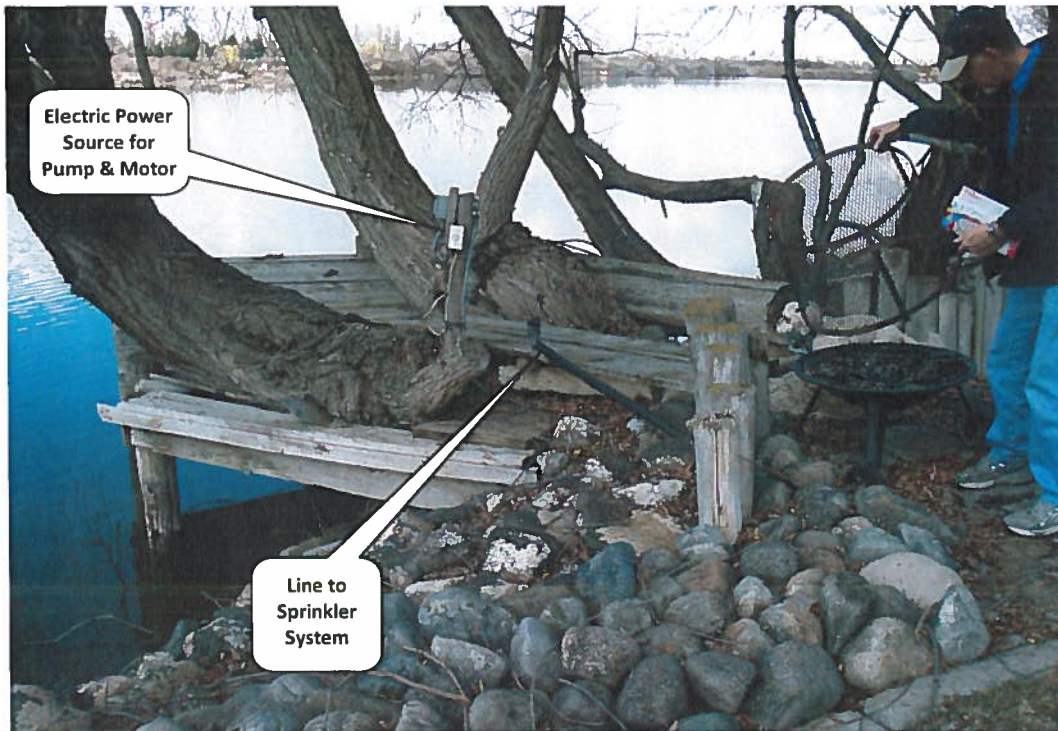
Field Examiner's Name  Date 5/19/2014

Reviewer  Date 6/3/2014

01-7125 Point of Diversion and Place of Use Map (ESRI Imagery)

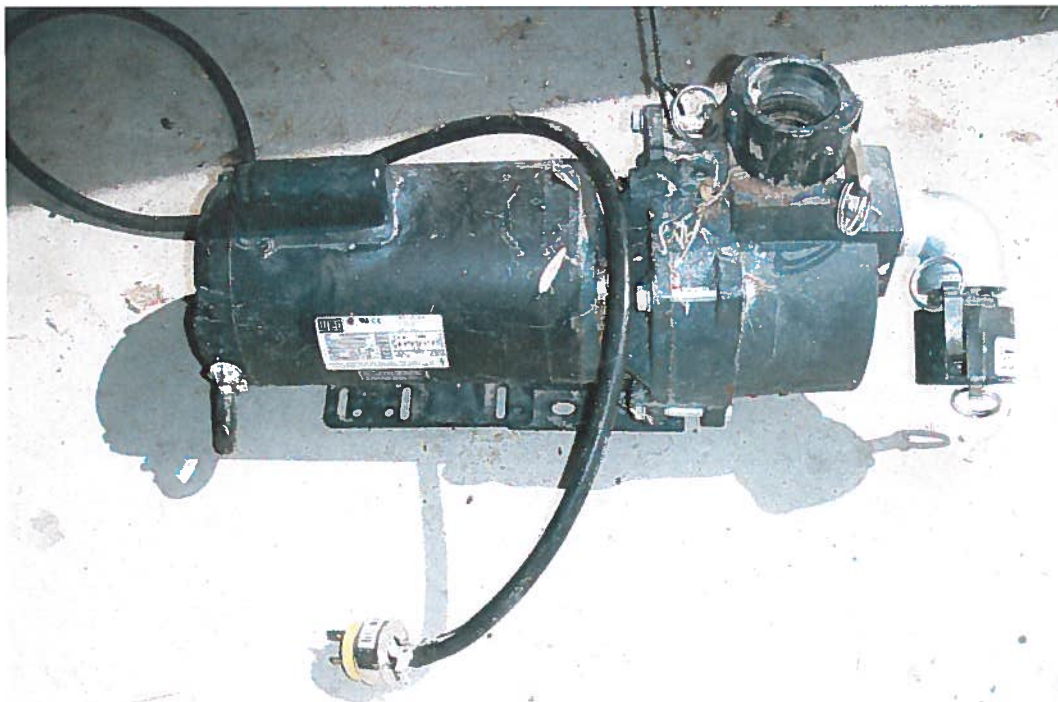


01-7125 Point of Diversion Photos



ABOVE: View of the 01-7125 Point of Diversion location, at the Snake River at the back of Lot B of Sonville Subdivision. Note that the pump has been removed for the winter.

BELOW: View of the pump and motor (Weg 1 hp item # 10223904) used to pump water from the Snake River. The pump was being stored in Mr. Williams' shop for the winter.



01-7125 Place of Use Photos



ABOVE: View of the back of Lot B of Sonville Subdivision, behind the house. This is the main area of irrigation occurring under 01-7125. Water is pumped from the river and feeds an underground sprinkler system with six stations of pop up sprinkler heads.

BELOW: View of the front of Lot B of Sonville Subdivision from across the street. There is a minimal amount of irrigation in front of the house and along the sides of the lot. In total, approximately 0.3 acre is irrigated on the property from the 01-7025 system.

