

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-34335
Exam Date: 01/23/2025

1. Current Owner:
GREENHEAD FARMS LLC 2251 W HAWKS VIEW LN EAGLE ID 83616-6952
2. Accompanied by: Dave Castro
Phone No: 208-921-3960
Address: 2251 W Hawks View Lane, Eagle ID 83616
Relationship to permit Holder: Permit Holder

3. **SOURCE:**
DIXIE SLOUGH

Tributary
BOISE RIVER

Method of Determination: Aerial photography and site visit

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
63-34443	Christian Gulch Wasteway	Irrigation	Decree

Comments: This right uses the same distribution channels as WR 63-34335.

2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

DIXIE SLOUGH SE¼ NE¼, Sec. 1, Twp 04N, Rge 05W, B.M. CANYON County

Method of Determination: Site visit and GPS at 43.71 N 116.87 W

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	05W	1			24.0	24.0									17.0				65.0

Total Acres: 65.0

PLACE OF USE: WILDLIFE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	05W	1			X	X									X				

PLACE OF USE: WILDLIFE STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	05W	1			X	X									X				

PLACE OF USE: RECREATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	05W	1			X	X									X				

PLACE OF USE: RECREATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	05W	1			X	X									X				

Method of Determination: Field photos and aerial photography used to verify.

3.

x Delivery System Diagram Attached (required). Indicate all major components and distances between components.
x Indicate weir size/pipe as applicable.

x Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be
x 1:24,000 or greater.

x Aerial Photo Attached (required for irrigation of 10+ acres).

x Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
1082718	Landmark	30	20010124	Fisher	FP0DP1280X4308

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Electromagnetic Flow Meter	Mag-Meter	IM Series Flow Meter	IM3000	GT16120341	12"	n/a
Electromagnetic Flow Meter	Mag-Meter	IM Series Flow Meter	IM3000	n/a	12"	n/a

2. Measurements: Took one reading per minute over ten minutes to total 10 readings and then averaged the readings.

E. FLOW CALCULATIONS

N/A Additional Computation Sheets Attached

Measured Method: Growsmart by IM Series Flow Meter

Standard Irrigation Rate 1.3 cfs
 Total Calculated Meter Rate 10.0 cfs
 Total Permitted Rate 9.75 cfs
 Total License Recommendation 9.75 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: No volume on surface water per IDAPA Beneficial Use Exam Rules 35.01. (j). viii

2. Volume Calculations for Other Uses:

Recreational and Wildlife: The Permit holder indicated the land is flooded around the first of September, and water runs until the end of February. This period is equal to 180 days, therefore $9.75 \text{ cfs} \times 1.9835 \text{ afd} \times 180 \text{ days} = 2920.21 \text{ AF}$ diverted during this period. This total volume also includes the initial filing and replacement of losses associated with the storage components of the permit. Therefore, the flow-through volume associated with the Recreation and Wildlife uses equates to $2920 \text{ AF} - 1820 \text{ AF} = 1100 \text{ AF}$.

Recreation and Wildlife Storage: The volume for storage was calculated by using the surface area and average depth. Surface area is approximately 65 acres, and the approximate average depth is 0.5 ft. Therefore $65 \times 0.5 \text{ ft} = 32.5 \text{ AF}$. Additionally, seepage and evaporation total have been calculated at 1756.8 AF and 27.5 AF. Totaling a recommendation of 1816.8 AF or 1820 when rounded per application processing memo #6.

G. NARRATIVE/REMARKS/COMMENTS

A field exam was conducted on 01/23/25 by Senior Water Right Agent Marcelina Riddle and accompanied by the permit holder. The permit was issued on September 13, 2018, and proof of beneficial use was submitted on September 16, 2024. The point of diversion (POD) location was confirmed at the Dixie Slough in the SENE QQ of 04N05W Sec 1 but on the permit, it was described in the NESE QQ of 04N05W Sec 1. An amendment will be required to correct the legal description of the POD. Water is diverted from the Dixie Slough into two wet wells that are ~ 7 ft deep that allow for the pumps to pull water and distribute to the system.

A 14-inch PVC main line leaves the pumps, goes underground, and splits into two 14-inch main lines, sending one line south following the field in the most southeastern area of the place of use (POU), and the other main line turns west distributes water to the west fields in the POU. All fields in the POU are flooded via an open channel system throughout the POU. The most northern fields in the POU were not flooded at the time of the field exam but the permit holder asserts the fields have been flooded in past years. Water is used for irrigation, wildlife storage, recreation storage, recreation, wildlife and diversion to storage. Irrigation had clearly been used to grow corn to help create wildlife habitat for animals in the winter. Recreation and wildlife beneficial uses are used as a flowthrough component to ensure all water does not freeze over in the coldest months. ArcMap tools and aerial imagery were used to verify the POU area. No amendment required to correct the legal description of the POU.

Condition 121 was updated to 103, 01J was updated to R43, and 26A was removed per department standards. Conditions 219, 220, R65, 176, R05, 020, 204 and three written conditions were carried over from the permit to the license.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/01 to 11/15	1.30 CFS	
WILDLIFE	09/01 to 02/28	9.75 CFS	1,100
WILDLIFE STORAGE	09/01 to 02/28		1,820.0 AF
RECREATION	09/01 to 02/28	9.75 CFS	1,100
RECREATION STORAGE	09/01 to 02/28		1,820.0 AF
DIVERSION TO STORAGE	09/01 to 02/28	9.75 CFS	

Totals: 9.75 CFS

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 ☒ None

I. AUTHENTICATION

Marcelina Riddle - Water Resource Agent

Field Examiner's Name

Marcelina Riddle

Date

10/17/25

Reviewer

[Signature]

Date

10/25/25

DELIVERY SYSTEM DIAGRAM

Water Right No. 63-34335





Fig. 1 – Location of POD Located in the SENE QQ by the Dixie Slough. View looking N.



Fig. 2 – Location of control box for the pumps for POD. View looking E.



Fig. 3 & 4 – Pump make and model.





Fig. 7 – Whole POD system view looking N.

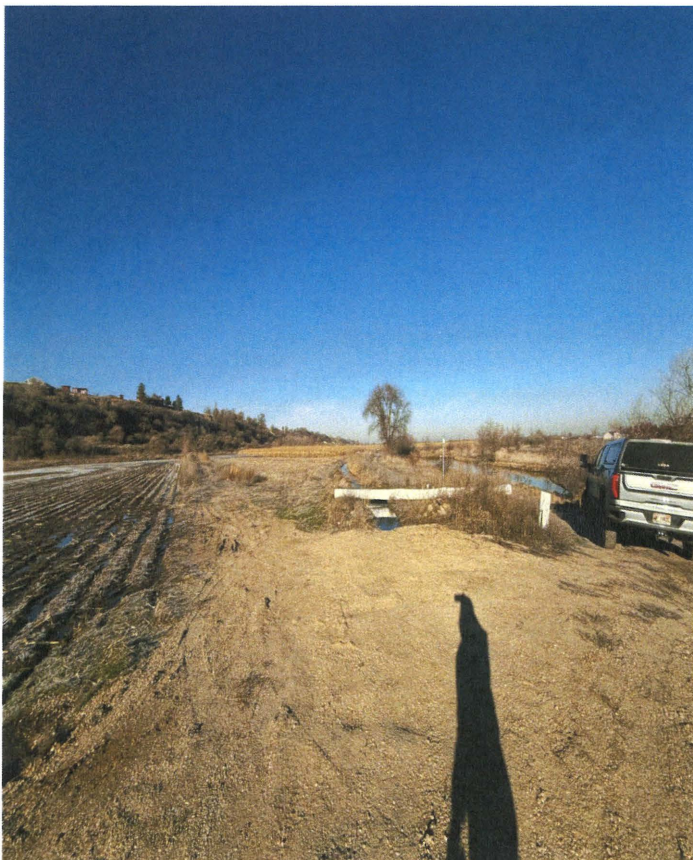


Fig. 8 – PVC pipe leaving POD to ditch in the SE area of the POU. View looking W.

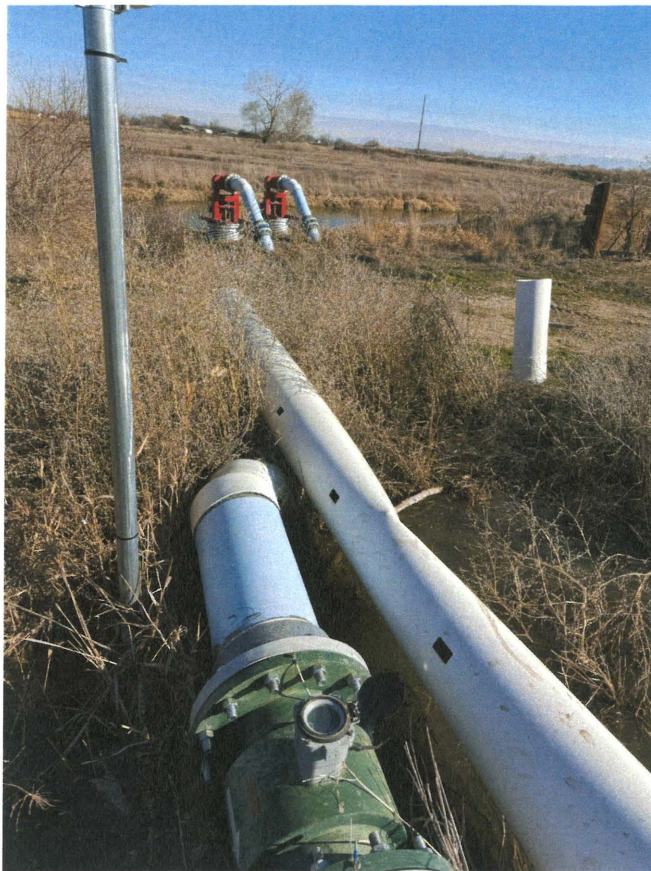


Fig. 9 – Close up of the PVC pipe leaving the POD with a meter attached. View looking N.



Fig. 10 – Meter reading after water had been flowing for over 2.5 hours.



Fig. 11 – Flooding in the NESE QQ of the POU. View W.

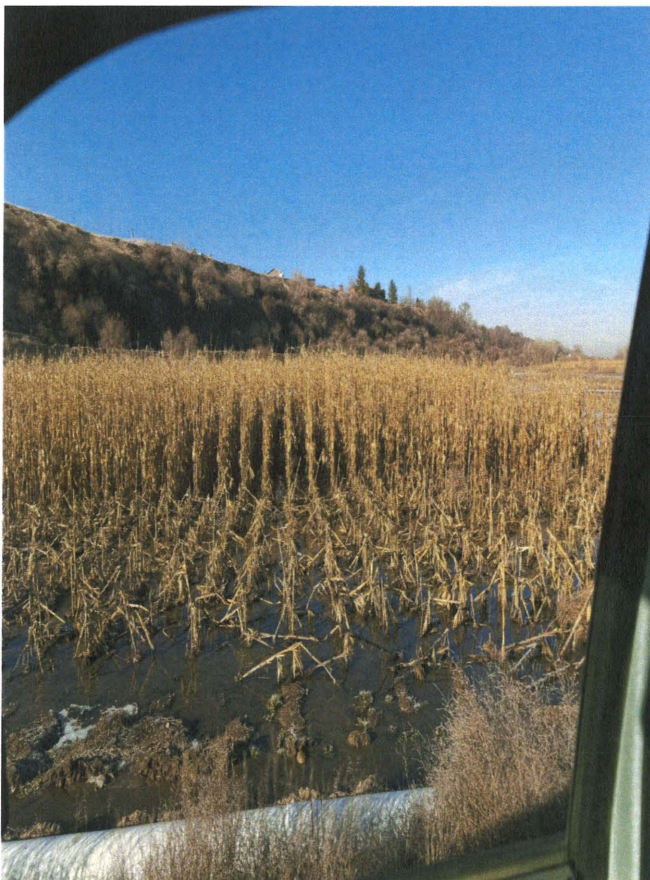


Fig. 12 –Flooding in the NESE QQ of the POU. View looking W.



Fig. 13 – Field flooding system PVC pipe that follows the POU south in the NESE QQ.



Fig. 14 – Same PVC pipe pictured above but at the end of the line where the water is flowing into the field.



Fig. 15 – Discharge of water to flood the POU in the NESE QQ of the POU.



Fig. 16 – More field flooding on the west side of the NESE QQ of the POU. View looking NW.



Fig. 17 – More field flooding on the west side of the NESE QQ of the POU. View looking NE.



Fig. 18 – More field flooding on the south side of the SWNE QQ of the POU. View looking SE.



Fig. 19 – Discharge of water to flood the POU in the SWNE QQ of the POU. View looking S.



Fig. 20 – More field flooding on the south side of the SWNE QQ of the POU. View looking NW.



Fig. 21 & 22 – View of the field flooding in the SWNE and SENE QQ of the POU. This field runs east to west View looking E.





Fig. 23 & 24 – View of the field flooding in the SWNE and SENE QQ of the POU. This field runs east to west
View looking E in image 23 and N in image 24.



Fig. 25 & 26 View of the field flooding in the far east of NESEQQ of the POU. This field run north to south View looking N.





Fig. 27 & 28 – Second meter in system located in the field that runs north and south in the NESE QQ.





Fig. 29 &30 – Corner of ditch system that sends water north to the field in the SENE QQ.



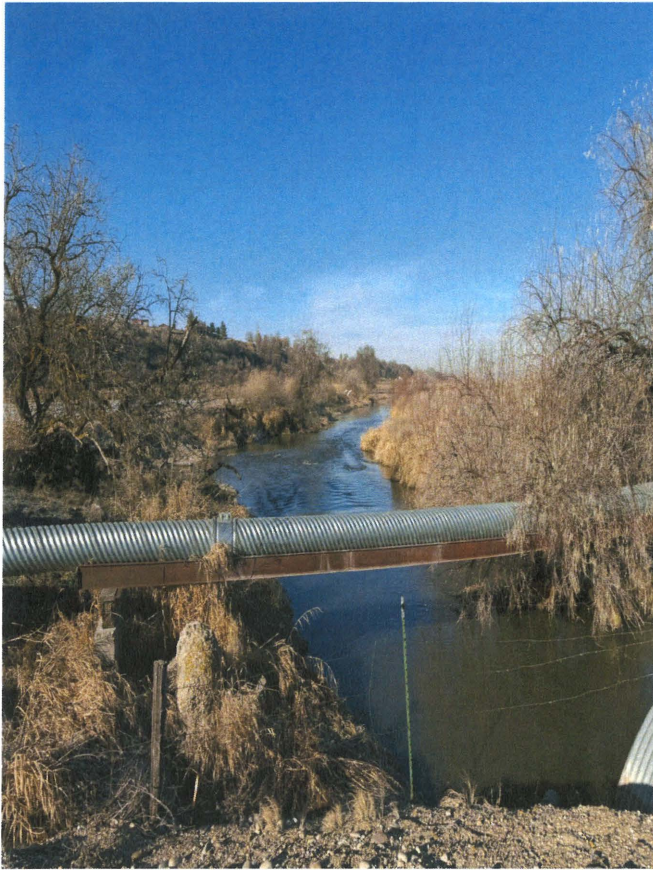


Fig. 29 – Conveyance system running north from NESE QQ over the Dixie Slough. View looking W.



Fig. 30– Open channel conveyance system ending in the SENE QQ. View looking W.



Fig. 31 – Open channel conveyance system running south in the SWNE QQ of the POU. POU undeveloped on the right side of the picture. View looking S.



Fig. 32 – Flooding to the right of picture but no developed acres on the left of POU in the SWNE QQ. View looking E.



Fig. 33 – Flooding developed POU in the SWNE QQ. View looking E.



Fig. 34 – Field flooding developed in the SWNE QQ. View looking SW.



Fig. 35 – Field flooding developed in the SWNE QQ. View looking SE.

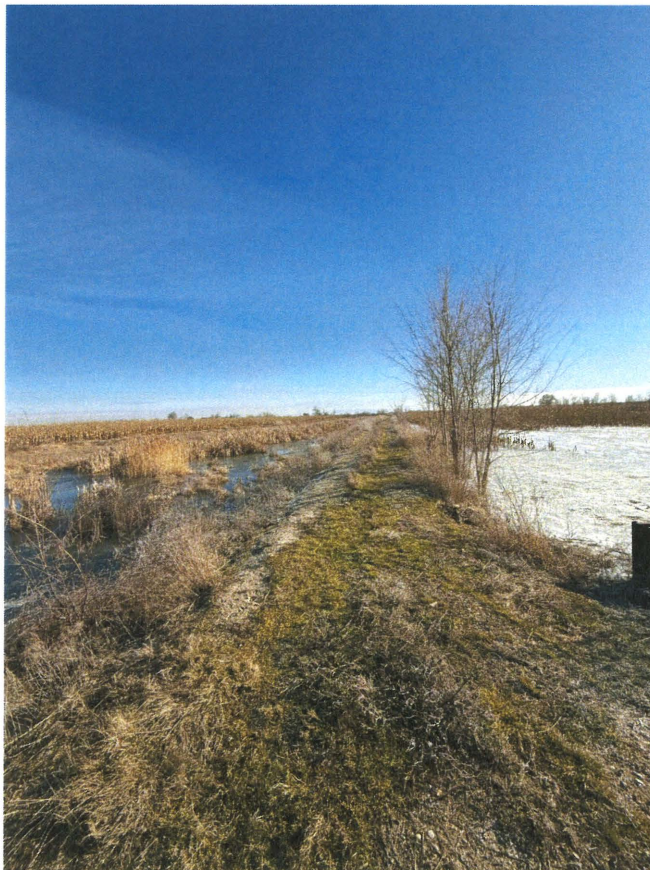


Fig. 36 – Field flooding developed in the SENE QQ. View looking E.