

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 29-14200
Exam Date: 05/03/2024

1. Current Owner:
TRAVIS MANNING 1891 E CRANDALL CIR SALT LAKE CITY UT 84106
2. Accompanied by: Travis Manning
Phone No: (801) 643-5970
Address: 1891 E Crandall Cir, SLC UT 84106
Relationship to permit Holder: Permit Holder

3. **SOURCE:**
UNNAMED STREAM

Tributary
DEMPSEY CREEK

Method of Determination: On-site Inspection

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
29-14401	Ground Water	Domestic	License

Comments: Water right 29-14401 is owned by Lava Ranch Property Owners and provides water to local property owners from a pump station used to fill water containers.

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments:

C. DIVERSION AND DELIVERY SYSTEM

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

UNNAMED STREAM SE¼ NW¼ SW¼, Sec. 5, Twp 10S, Rge 38E, B.M. BANNOCK County
 UNNAMED STREAM SW¼ NE¼ SW¼, Sec. 5, Twp 10S, Rge 38E, B.M. BANNOCK County
 UNNAMED STREAM NW¼ SE¼ SW¼, Sec. 5, Twp 10S, Rge 38E, B.M. BANNOCK County
 UNNAMED STREAM NW¼ SE¼ SW¼, Sec. 5, Twp 10S, Rge 38E, B.M. BANNOCK County
 UNNAMED STREAM NW¼ SE¼ SW¼, Sec. 5, Twp 10S, Rge 38E, B.M. BANNOCK County

Method of Determination: On-site inspection – five pond impoundments

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	
10S	38E	5									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	
10S	38E	5									X	X		X					

PLACE OF USE: AESTHETIC 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	
10S	38E	5									X	X		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 ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
PODIDs: 1073780, 1073781, 1073782, 1073783 & 1073784					

D. FLOW MEASUREMENTS – N/A

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: N/A

E. FLOW CALCULATIONS – Storage Right

____ Additional Computation Sheets Attached

Measured Method:

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: Wildlife Storage, Recreation Storage and Aesthetic Storage:

Ponds are flat bottomed, Pond #1 (see System diagram) is approximately 10' deep; Ponds #2 & #3 are approximately 5' deep; Pond #4 is approximately 4.5' deep; and Pond #5 is approximately 4' deep:

$$0.5 \text{ acre surface area} \times 5.7' \text{ (average depth of ponds)} = 2.85 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

I met with Mr. Manning on the morning of 5/3/2024 to conduct the field exam for permit 29-14200. What I found were 5 ponds constructed on-stream and in what clearly had been a marsh area (complete with cattails and other marsh vegetation). Access to the ponds was somewhat limited due to wet spring conditions and marsh area around the ponds. The ponds had been constructed by the properties previous owner and Mr. Manning filed an application for permit to legitimize the developed ponds. Mr. Manning indicated that the depths initially reported in the application for permit were inaccurate and reported approximate average depths of these mostly flat-bottomed ponds to be as follows:

Pond #1 approximately 10' deep

Ponds #2 & #3 approximately 5' deep

Pond #4 approximately 4.5' deep

Pond #5 approximately 4.0' deep

The permitted volume of 2.6 acre feet was calculated assuming the ponds were v-shaped, not flat bottomed and also did not account for evaporative or seepage losses. Since the ponds were constructed in a wetland area, seepage is negligible and evaporative losses would be lower than the amount of water transpired from the marsh vegetation, which I assume was mostly cattails due to their presence in the non-developed parts of the marsh.

Recommend licensing as permitted for 2.6 acre feet of storage and limiting the total surface area to 0.5 acres.

Have conditions of permit approval been met? X 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>
WILDLIFE STORAGE	01/01 to 12/31		2.6 AF
RECREATION STORAGE	01/01 to 12/31		2.6 AF
AESTHETIC STORAGE	01/01 to 12/31		2.6 AF

Totals:

2.6 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 X None

I. AUTHENTICATION

Bill Mills -

Field Examiner's Name

Date

Reviewer

Date

5-6-2024

5/10/2024



Figure 1 : Pond #1



Figure 2: Pond #2



Figure 3: Pond #3



Figure 4: Pond #4

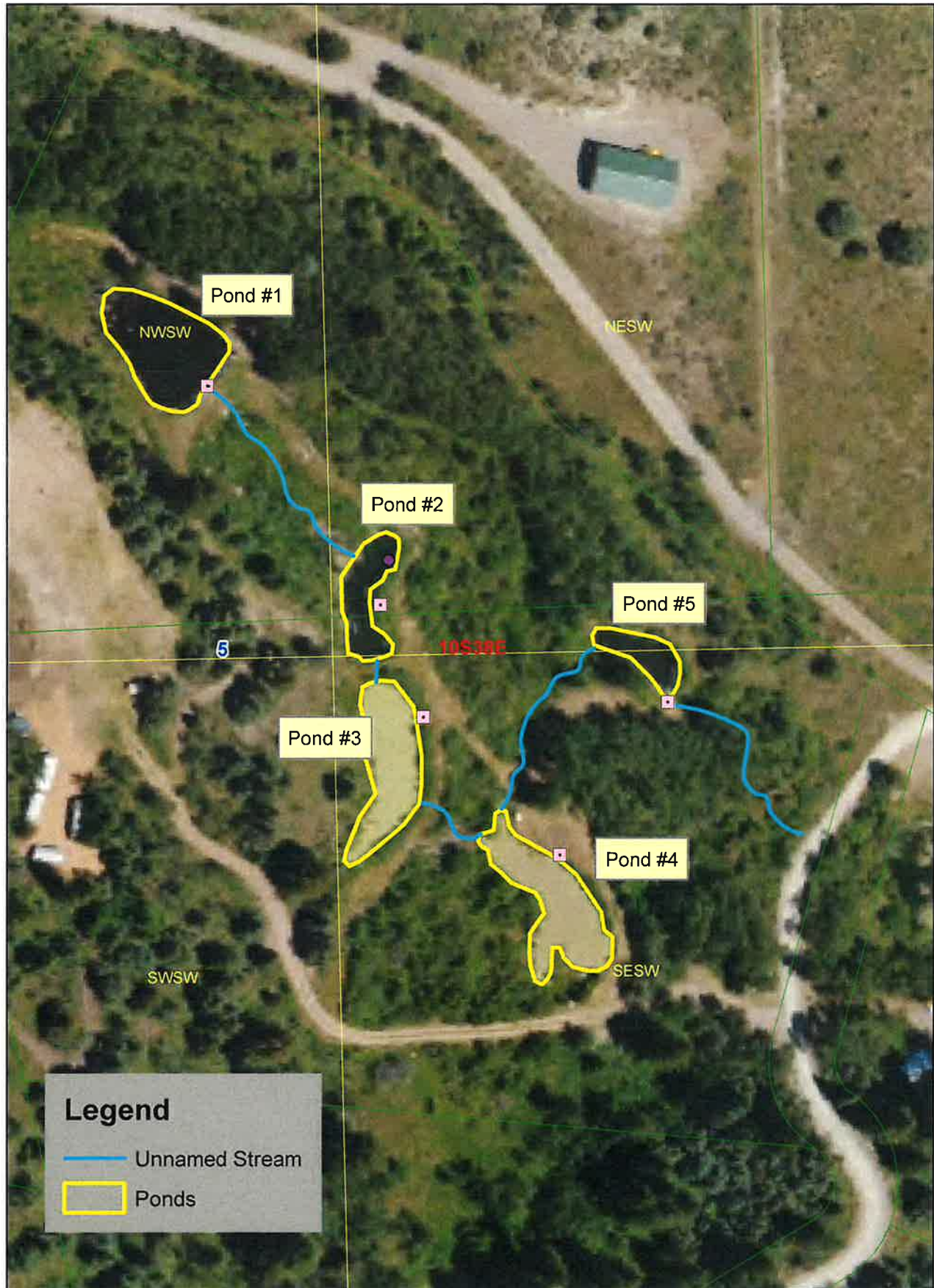


Figure 5: Pond #5



Figure 6: Wetland between Pond #1 & #2

System Diagram



State of Idaho
Department of Water Resources
Attachment to Water Right
29-14200

This map depicts the WILDLIFE STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



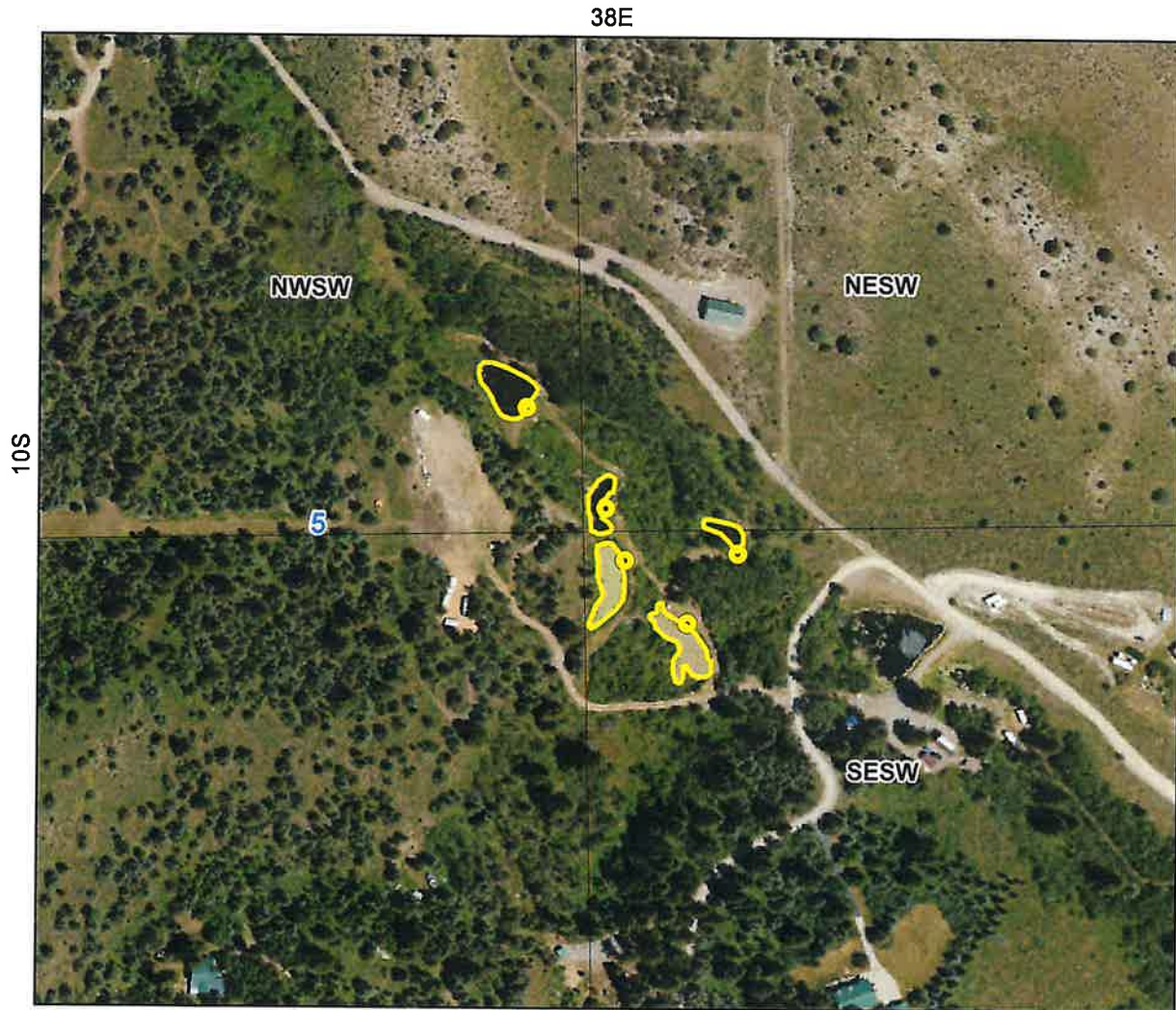
0 0.035 0.07 0.14 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion
-  State Outline



State of Idaho
Department of Water Resources
Attachment to Water Right
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This map depicts the RECREATION STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.035 0.07 0.14 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion
-  State Outline



State of Idaho
Department of Water Resources
Attachment to Water Right
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This map depicts the AESTHETIC STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.035 0.07 0.14 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion
-  State Outline

