

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Claim No: 97-9023
Exam Date: 6/27/2023

1. Current Owner: Valencia Wetland Mgt LLC
Will Welker
355 E Settlement Rd
Priest River, ID 83856
253.218.8389
will@williamwelker.com

2. Owner of Record Correct? Y
Address of Record Correct? Y

Remarks: Will Welker is the manager of Valencia Wetlands Mtg LLC. According to the Idaho Secretary of State's website Donna Collier is the registered agent of Valencia Wetlands Mtg. Will Welker is Donna Collier's son.

3. SOURCE

Alder Creek
Method of Determination: Field exam
Change in Source:

TRIBUTARY

Pend Oreille River

N

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
97-7292	Ground water	Irrigation	License

Comments: Licensed right 97-7292 shares the SWNE quarter quarter but has a different owner and irrigates different acres.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: The pump from the creek only irrigates the place of use under this claim

C. DIVERSION AND DELIVERY SYSTEM

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

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Alder Creek			sw	ne	19	56n	4w	B.M.	Bonner

Method of Determination: GPS point

2. **PLACE OF USE:** 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	
56N	4W	19			19.3														19.3
Total Acres =																			19.3

Method of Determination: Field exam and imagery

3. x__ Delivery System Diagram Attached (optional). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- x__ Aerial Photo Attached (required for irrigation of 10+ acres).
- x__ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Floating Stick						

2. Measurements:

E. FLOW CALCULATIONS

__X__ Additional Computation Sheets Attached

Measured Method: Floated stick through culvert
3-foot diameter culvert
Water depth 3.5 inches

19.3 acres X 0.02 cfs = 0.38 cfs

Culvert measurement distance = 28 feet
3 measurements average float time 1 minute 17 seconds or 77 seconds
28 / 77 = .36

Area (see attached culvert calculation) 0.35 square feet

.36 X .35 = 0.13 cfs

Pump rated at 190 gpm 190 / 448.83 = 0.42 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: Surface water

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$

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

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

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation **Y** # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? N

Method of Determination:

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

The pump in Alder Creek supplies water for 19.3 acres of irrigation in T56N R4W Section 19 SWNE. A mainline from the pump follows the road to the north of the field. Two-inch handline originate at the mainline. There is 1,000 feet of handline moved to irrigate. According to the claimant they typically irrigate until the end of July or when water is available.

Licensed right 97-7292 shares the SWNE quarter quarter but has a different owner and irrigates different acres.

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	4/1 to 10/31	0.13 CFS	N/A AF
	<u>Totals:</u>	0.13 CFS	N/A 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 ___ **None**

Other: _____

J. AUTHENTICATION

Field Examiner's Name _____ Date _____

Reviewer _____ Date _____

Photos Taken June 27, 2023 by Scott Luvass and Sandra Thiel

Culvert upstream across the road from the pump



Pump from Alder Creek looking downstream



Pipe to Alder Creek





Pump

Culvert downstream

Looking downstream from culvert under the road. The field is irrigated on either side of the creek.



Irrigated land





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DOQQ 1998



USGS Earth Explorer imagery September 4, 1953



USGS Earth Explorer imagery August 11, 1953



USGS Earth Explorer imagery July 31, 1966



USGS Earth Explorer imagery July 27, 1977



USGS 8/8/1978



Culvert Calculation

Cross Sectional Area of Flow Calculator for Water Flowing in Circular Conduit

[READ ME](#)

Was the Diameter or Radius of the Pipe Measured?

☒ Diameter ☐ Radius

Was Sediment Observed & Measured in the Pipe?

☐ Sediment ☒ No Sediment

Converter: Inches --> Feet (Use as Needed)

X = inches = 0.29 feet

Input Observed Conditions (Units Must be in Feet)

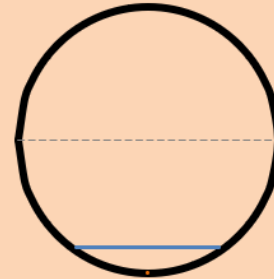
D = feet (radius of pipe)

h = feet (depth of water)

Cross Sectional Area of Flow

A_{FLOW} = 0.35 square feet

X-Sectional Flow Area Sketch



— Conduit Wall - - - - Horizontal Center Line
— Water Surface — Sediment Surface