Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

May 3, 2021

Daniel E Davis
PO Box 1741
Bandon OR 97411

On April 26, 2021, the Water Resources Department received the Claim of Beneficial Use (COBU) for the following file(s):

Application R-86769 Permit R-14660

The COBU included a report and map. The Department hopes to review your submittal within approximately 2 - 4 years. At that time we will review these items and provide a final certificate, proposed certificate, or a request for additional information.

If you are interested in having your COBU reviewed sooner, you may pay to have your file processed immediately, using the Reimbursement Authority program, which is described at:

https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/Certificate.aspx

Customer Service phone: (503) 986-0900

Enclosed is your receipt for the $200.00 COBU recording fee

If you sell the property, please contact the Department, or have the new owners contact the Department about the need to file an assignment.

Cc: file R-86769
Walter E White, CWRE

Checklist for Claims of Beneficial Use Received at CSG Counter

Application #: R-86769	WRD Reviewer: Judy
Transfer #:	
Date Received: 04/26/2021	
CWRE Name: Walter E White	
Priority Date (s): February 13, 2007	

Fees Required:

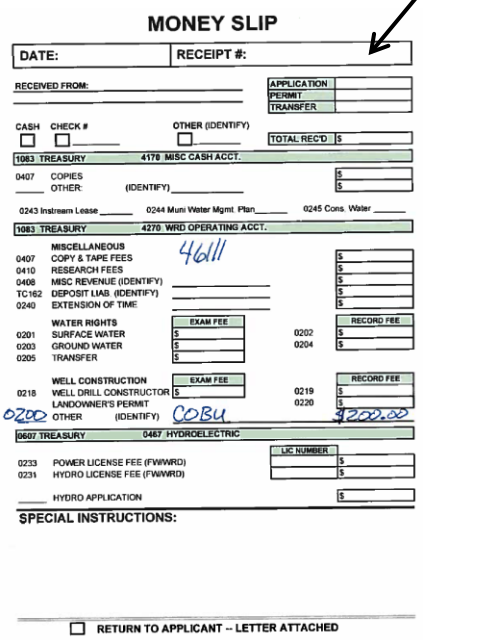
☑ YES NO ☐ A fee of $200 must accompany this form for <u>permits</u> with priority dates of July 9, 1987, or later.

☐ YES NO ☐ A fee of $200 must accompany this form for any <u>transfers</u> including a water right with a priority date of July 9, 1987, or later.
Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

Map Review:

☑ Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b))
☑ Application & permit #; or transfer # (OAR 690-014-0100(1))
☑ Disclaimer (OAR 690-014-0170(5))
☑ North arrow (OAR 690-310-0050(2)(c))
☑ CWRE stamp and signature (OAR 690-014 & 310-0050)
☑ Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
☑ Township, range, section, and tax lot numbers (OAR 690-310-0050(4))

Fill in App or Transfer Number


MONEY SLIP

DATE: RECEIPT #:

RECEIVED FROM:

APPLICATION
PERMIT
TRANSFER

CASH ☐ CHECK # ☐ OTHER (IDENTIFY) ☐

TOTAL REC'D $

1083 TREASURY 4170 MISC CASH ACCT.

0407 COPIES $
OTHER: (IDENTIFY) $

0243 Instream Lease 0244 Muni Water Mgmt. Plan 0245 Cons. Water

1083 TREASURY 4270 WRD OPERATING ACCT.

MISCELLANEOUS 4611
0407 COPY & TAPE FEES $
0410 RESEARCH FEES $
0408 MISC REVENUE (IDENTIFY) $
TC162 DEPOSIT LIAB. (IDENTIFY) $
0240 EXTENSION OF TIME $

WATER RIGHTS — EXAM FEE — RECORD FEE
0201 SURFACE WATER $ 0202 $
0203 GROUND WATER $ 0204 $
0205 TRANSFER $

WELL CONSTRUCTION — EXAM FEE — RECORD FEE
0218 WELL DRILL CONSTRUCTOR $ 0219 $
LANDOWNER'S PERMIT 0220 $
0200 OTHER (IDENTIFY) COBU $200.00

0607 TREASURY 0467 HYDROELECTRIC

LIC NUMBER
0233 POWER LICENSE FEE (FW/WRD) $
0231 HYDRO LICENSE FEE (FW/WRD) $
HYDRO APPLICATION $

SPECIAL INSTRUCTIONS:

☐ RETURN TO APPLICANT -- LETTER ATTACHED

Report Review:

☑ On form provided by the Department (OAR 690-014-0100(1))
☑ Application & permit #; or transfer # (OAR 690-014)
☑ Ownership information (OAR 690-014)
☑ Date of survey (OAR 690-014)
☑ Person interviewed (OAR 690-014)
☑ County (OAR 690-014)
☑ CWRE stamp and signature (OAR 690-014-0100)
☑ Signature(s) of <u>all</u> permittee of transfer holder (OAR 690-014-0100)

Groundwater File Review:

☐ Pump Test not required (Priority Date prior to December 20, 1988) *If no, include pump test flyer w/acknowledgment letter
☐ Pump Test required (Priority Date on or after December 20, 1988)
☐ Pump Test submitted
☐ Pump Test not submitted

CLAIM OF BENEFICIAL USE for Reservoir Permits by CWRE's (not self-certified)

OREGON WATER RESOURCES DEPARTMENT
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

A fee of $200 must accompany this form for permits with priority dates of July 9, 1987, or later.
Claims received without the correct fee of $200 will be returned.

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at:
https://www.oregon.gov/OWRD/Forms/Pages/default.aspx
The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

If you have questions regarding the completion of this form, please call 503-986-0900 and ask for the Certificate Section.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see:
https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx

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SECTION 1
GENERAL INFORMATION

1. File Information

APPLICATION #	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
R-86769	R-14660	NA

2. Property Owner (current owner information)

Applicant/Business Name		Phone No.	Additional Contact No.
Daniel E. Davis		**541-297-3333**	
Address **PO Box 1741**			
City **Bandon**	State **OREGON**	Zip **97411**	E-Mail

If the current property owner is not the permit holder of record, it is recommended that an assignment be filed with the Department. ***Each*** *permit holder of record must sign this form.*

3. Permit holder of record (this may, or may not, be the current property owner)

Permit Holder of Record		
Daniel E. Davis		
Address **PO Box 1741**		
City **Bandon**	State **OREGON**	Zip **97411**

Additional Permit Holder of Record		
NA		
Address		
City	State	Zip

4. Date of Site Inspection:

March 1, 2021

5. Person(s) interviewed and description of their association with the project:

Name	Date	Association with the Project
Daniel E. Davis	**March 1, 2021**	**Owner**

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6. County

Coos

7. If any property described in the place of use of the permit final order is excluded from this report, identify the owner of record for that property (ORS 537.230(5)):

Owner of Record		
na		
Address		
City	State	Zip

Add additional tables for owners of record as needed

SECTION 2

SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.

Seal and Signature

CWRE Name		Phone No.	Additional Contact No.
Walter White		**541-266-9890**	
Address **275 Market Avenue**			
City **Coos Bay**	State **Oregon**	Zip **97420**	E-Mail **wwhite@shn-engr.com**

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Permit Holder's of Record Signature or Acknowledgement

Each *permit or transfer holder of record must sign this form in the space provided below.*

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

Signature	Print or Type Name	Title	Date
	Daniel E. Davis	**Owner**	
Daniel E Davis			03-01-21

SECTION 3

CLAIM DESCRIPTION

1. **Reservoir source and, if from surface water, the tributary:**

Reservoir Name or Number	Source	Tributary
3	Johnson Creek	Pacific Ocean

2. **Developed use(s), period of use, and acre foot (af) for each use:**

Reservoir Name or Number	Uses	Season or Months When Water was Appropriated for Storage	Volume Stored (AF)
3	Multiple Purpose	May 1-July31, and October 1-October 31	7.4
Total Quantity of Water Stored			22.6

3. **Provide a general narrative description of the distribution works. This description must trace the water system from each point of diversion to the reservoir:**

From POD-5 in Johnson Creek, a 7.5-HP pump transfers water from the Johnson Creek through a 4" PVC pipe to Reservoir 4, from Reservoir 4 through a 2" PVC pipe to Reservoir 1-A, from Reservoir 1-A through a 2" PVC pipe to Reservoir 3. The reservoir is refilled multiple times during operations.
Reservoir 3 has 2-12" PVC overflow pipes located at the South end to allow overflows back to the North Fork of Johnson Creek.

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

4. **Variations:**

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below. **YES** **NO**

(e.g. *"The permit allowed the development of three reservoirs. The permit holder only developed one of the reservoirs."* or *"The permit allowed for the storage of 9 acre feet of water. The reservoir was developed to hold 5.2 acre feet."*)

Reservoir 3 was permitted for maximum volume of 22.6 acres feet. Reservoir 3 volume is 7.4 acre feet as constructed. Reservoir 3 is refilled multiple time during operations.

5. **Claim Summary:**

Reservoir Name or #	Maximum Storage Authorized by Permit (AF)	Maximum Storage Developed (AF)
3	22.6	7.4 with multiple refills

***Use is limited to an instantaneous rate of 0.75 cfs. Pump has a theoretical capacity of 0.75 CFS.**

SECTION 4

SYSTEM DESCRIPTION

Are there multiple reservoirs? YES (NO)

If *"YES"* you will need to copy and complete Sections A through E for each reservoir.

Reservoir Name or Number this section describes (only needed if there is more than one):

Reservoir 3

A. Reservoir Location

1. Is the reservoir on-channel? YES (NO)

2. Provide dam outlet location and/or point of diversion(s).

TWP	RNG	MER	SEC	QQ	GLOT	DLC	MEASURED DISTANCES
29s	14w	WM	6	NE SE			POD5-3215 FEET SOUTH AND 1068 FEET WEST FROM NE CORNER SECTION 6
29s	14w	WM	6	NE NE	1		DAM-973 FEET SOUTH AND 712 FEET WEST FROM NE CORNER SECTION 6

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport the water from the point(s) of diversion to the reservoir.

1. Is a pump used? (YES) NO

If "NO" items 2 through item 5 may be deleted.

2. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)
Worthington	D1011	799244	Centrifugal

3. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
7.5	5	10	43	0.75

4. Provide pump calculations:

Pump Capacity Calculation Sheet

using Department designed formula:

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61
Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 7.5
Efficiency = 6.61
Lift = 53
PSI = 5

Results Calculated

(hp)(efficiency) = 49.575
Head based on psi = 12.7
Total dynamic head = 65.7
(head + lift)

Pump Capacity = 0.75 cubic feet per second

5. Measured Pump Capacity (using meter if meter was present and system was operating)

Initial Meter Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (in cfs)
Na			

Reminder: For pump calculations use the reference information at the end of this document.

6. Additional notes or comments related to the system:

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C. Gravity Flow Pipe

(The Department typically uses the Hazen-William's formula for a gravity flow pipe system)

1. Does the system involve a gravity flow pipe? YES (NO)

D. Gravity Flow Canal or Ditch

(The Department typically uses Manning's formula for canals and ditches)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? YES (NO)

If "NO", items 2 through 4 relating to this section may be deleted.

E. Reservoir

1. Does the reservoir require the submittal of as-built plans and specifications? YES (NO)

*If "**YES**", answer item 2; items 3 through 8 relating to this section may be deleted.*
*If "**NO**", skip items 2; answer items 3 through 8.*

2. Complete the table:

HAVE THE DOCUMENTS BEEN SUBMITTED? YES OR NO	WHEN WERE THE DOCUMENTS SUBMITTED?	HAVE THEY BEEN APPROVED BY THE DEPARTMENT?	NUMBER OF ACRE FEET STORED
NA			

3. If the reservoir stores less than 9.2 acre-feet of water or if the dam is less than 10 feet in height, and as-built plans and specifications are not required, complete the table and items 4 through 8.

MAXIMUM DEPTH	AVERAGE DEPTH	SURFACE AREA (IN ACRES)	VOLUME (IN ACRE FEET)
10	10	0.74	7.4

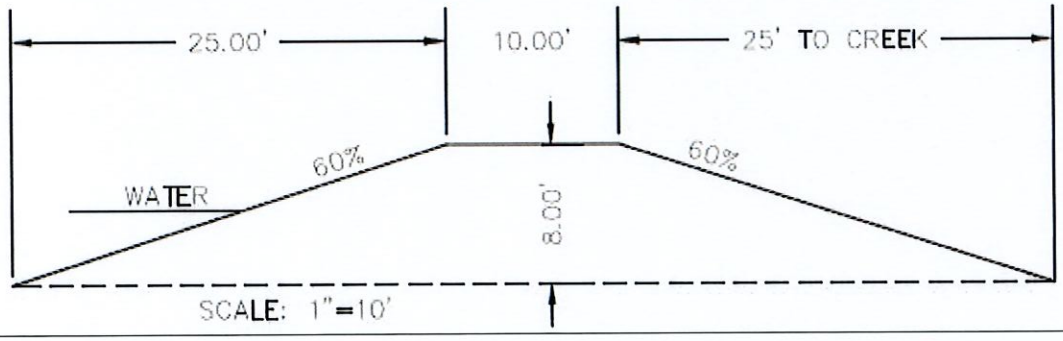
4. Provide reservoir volume calculations:

Avergae Depth 10 feetx0.74 Acres= 7.4 AF

5. Provide the following information concerning the physical characteristics of the dam:

CREST WIDTH (W)	DAM HEIGHT AT CENTERLINE (H)	DISTANCE FROM DOWNSTREAM TOP OF DAM TO DOWNSTREAM TOE (L)	DISTANCE FROM UPSTREAM TOP OF DAM TO UPSTREAM TOE (U)	WATER LEVEL AT INSPECTION	DOWN-STREAM SLOPE	UP-STREAM SLOPE
10 feet	8 feet	25 feet	25 feet	10 feet	60%	60%

6. Provide a drawing showing the cross section of the dam at the maximum section indicating details and dimensions. The drawing should be drawn at a standard even scale.

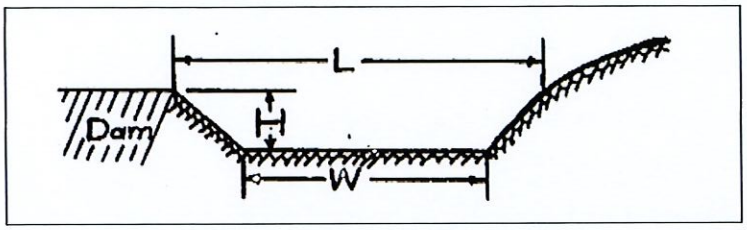


7. Describe the outlet works (size and type of the outlet conduit and location):

2-12" PVC outlet on South end of Reservoir 3 to the North Fork of Johnson Creek.

8. **Describe the emergency spillway (dimensions and location):**

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
NA		



SECTION 5

CONDITIONS

All conditions contained in the permit, permit amendment, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits and any extension final orders contain any or all of the following dates; the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit or extension final order:

	Date from Permit	Date Accomplished*	Description of Actions Taken by Water User to Comply with the Time Limits
Issuance Date	October 14, 2008		
Begin construction (A)		1994	Reservoir and Bogs completed before purchase of the property in 2006
Complete construction (B)	Oct. 1, 2013	1994	Reservoir and Bogs completed before purchase of the property in 2006
Complete application of water (C)	Oct. 1, 2014	1994	Reservoir and Bogs completed before purchase of the property in 2006. Totalizing flow meter installed and used in 2006.

* must be within period between permit or any extension final order issuance and the date to completely apply water

2. Is there an extension final order(s)? YES (NO)

3. Measurement Conditions:

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? (YES) NO

If "NO", items b through f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion or appropriation.

b. Has a meter been installed? (YES) NO

c. Meter Information

POD/POA Name or #	Manufacturer	Serial #	Condition (working or not)	Current Meter Reading	Date Installed
1	Sensus	66668548	Winterized in shop	80702 gallons	2007

If a meter has been installed, items d through f relating to this section may be deleted.

ITEMS D-F HAVE BEEN DELETED

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4. Recording and reporting conditions

a. Is the water user required to report the water use to the Department? YES NO

If "NO", item b relating to this section may be deleted.

b. Have the reports been submitted? YES NO

If the reports have not been submitted, attach a copy of the reports if available.

5. Outlet Pipe

a. Is the water user required to install a minimum 8"outlet pipe/conduit? YES NO

A size was not specified in the permit.

b. Has the outlet pipe been installed? **2-12" PVC INSTALLED** YES NO

6. Fish Screening

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? YES NO

If "NO", items b through e relating to this section may be deleted.

Reminder: If fish screening devices were required, the COBU map must indicate their location in relation to the point of diversion.

b. Has the fish screening been installed? YES NO

c. When was the fish screening installed?

DATE	BY WHOM
2009	**Daniel Davis**

Reminder: If the permit or transfer final order was issued on or after February 1, 2011, the fish screen is required to be approved by the Oregon Department of Fish and Wildlife regardless of the rate of diversion.

d. If the diversion **involves a pump** *and* the **total** diversion rate of all rights at the point of diversion is less than 225 gpm (0.5 cfs):

Has the self-certification form previously been submitted to the Department? **NA YES** **NO**

- If not, go to https://www.oregon.gov/OWRD/Forms/Pages/default.aspx (search for ODFW Small Pump Screen Self Certification), complete and attach a copy of the self-certification form to this claim, and send a copy of it to the Oregon Department of Fish and Wildlife (ODFW).

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. The ODFW self certification form needs to have been previously submitted or be attached to this form.

e. If the diversion does **not involve a pump** *or* the **total** diversion rate of all rights at the point of diversion is 225 gpm (0.5 cfs) or greater:

- Has the ODFW approval been previously submitted? NA (YES) NO
- If not, contact and work with ODFW to ensure compliance. To demonstrate compliance, provide signed documentation from ODFW. A form is available at https://www.oregon.gov/OWRD/Forms/Pages/default.aspx

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. In order to receive a favorable approval, the ODFW/WRD "Fish Screen Inspection" form needs to have been previously submitted or be attached to this form.

7. By-pass Devices

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion? YES (NO)

8. Other conditions required by permit, permit amendment final order, or extension final order

a. Was the water user required to restore the riparian area if it was disturbed? (YES) NO
b. Was a fishway required? YES (NO)
c. Was submittal of a letter from an engineer required prior to storage of water? YES (NO)
d. Was submittal of a water management and conservation plan required? YES (NO)
e. Other conditions? (YES) NO

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

At the time of inspection there was no disturbed riparian areas near POD-5.
The permittee shall monitor stream flow at the Johnson Creek point of diversion prior to and during diversion, and only divert water when flows exceed the following amounts: 4.0 CFS in May, 4.0 CFS in June, 1.0 CFS in July, and 2.0 CFS in October. In addition, the permittee shall report annually to the Water Resources Department all the natural stream flow data measured at the point of diversion on Johnson Creek.

SECTION 6

ATTACHMENTS

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION
POD-5, Johnson Creek Flow Records	**Copies of hand written notes from owner.**
ODFW Fish Screen Letter	**Fish Screen inspection Dated 7/9/13**

SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

GPS survey from previous applications by Jordan Engineering.

Map Checklist

Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

- ☒ Map on polyester film.
- ☒ Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- ☒ Township, Range, Section, Donation Land Claims, and Government Lots
- ☒ If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- ☒ Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- ☒ Locations of meters and/or measuring devices in relationship to point of diversion
- ☒ Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- ☒ Point(s) of diversion or appropriation (illustrated and coordinates)
- ☒ Tax lot boundaries and numbers
- ☒ Source illustrated if surface water
- ☒ Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- ☒ Application and permit number or transfer number
- ☒ North arrow
- ☒ Legend
- ☒ CWRE stamp and signature

CLAIM OF BENEFICIAL USE MAP
SECTION 6, TOWNSHIP 29 SOUTH, RANGE 14 WEST, W.M., COOS COUNTY, OREGON

RESERVOIR 3: 7.4 AF AND GETS REFILLED MULTIPLE TIME DURING OPERATIONS.

THIS MAP IS NOT INTENDED TO PROVIDE LEGAL DIMENSIONS OR LOCATIONS OF PROPERTY OWNERSHIP LINES.

N

SCALE: 1"=400'
0 400

LEGEND

SYMBOL	INDICATES
RES.	RESERVOIR
- - -	WATER DISTRIBUTION
=	8" OVERFLOW PIPE
———	POND BOUNDARY
———	APPROX. SECTION LINES
▮	PUMP STRUCTURES

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CERTIFIED WATER RIGHTS EXAMINER
55547
WALTER E. WHITE
MAY 3, 2013
EXPIRES: 6/30/22
STATE OF OREGON

SHN	Daniel E Davis Reservoir 3 Bandon, Oregon	Claim of Beneficial Use Map Appl: R-86769/Permit: R-14660 SHN 621013
	April 21, 2021 | 621013v	Figure 1

July 2018

Width 7' 7'
Av Depth 18" x 1.5'
Area 10.5

Length 20'
Float time 24 seconds .83
24 | 20

Coeficient .85 x .83 = .70
x 10.5
7.35 CFS

Oct 2018

Width 7' 7'
Av. Depth 12" x 1'
area 7

Length 20'
Float time 30 seconds .66
30 | 20

Coefficient .85 x .66 = .56
x 7
3.92 CFS

Johnson Creek
2018 Stream Flow measurement float method

May 7, 2018

width 7'
Av Depth x 2'
Area 14

Length 20' 1.11 / 18|20
Float Time 18 seconds

Coefficient .85 x 1.11 = .94
x 14
13.22 CFS

June 2018

width 7' 7
Av. Depth 20" x 1.66
Area 11.62

Length 20' 1 / 20|20
Float Time 20 seconds

Coefficient .85 x 1 = .85
x 11.66
9.91 CFS

July 2019

Width 7'
Av Depth 17"
Area

7
× 1.41
9.87

Length 20
Float Time 25 seconds

25 | 20 = .8

Coeficient .85 × .8 = .68
× 9.87
6.71 CFS

October 2019

Width 7'
Av. Depth 11.5"
Area

.95
× 7
6.65

Length 20'
Float Time 30 seconds

30 | 20 = .66

Coeficient .85 × .66 = .56
× 6.65
3.72 CFS

Johnson Creek

2019 Stream Flow Measurement Float Method

May 2019

Width 7'
Av. Depth 23"
area

7
× 1.91
13.37

Length 20'
Float Time 19 seconds

19 ⟌ 20 = 1.05

Coeficient .85 × 1.05 = .89

.89
× 13.37
11.89 CFS

June 2019

Width 7'
Av. Depth 19"
area

7
× 1.58'
11.06

Length 20'
Float Time 21 seconds

21 ⟌ 20 = .95

Coeficient .85 × .95 = .80

.80
× 11.06
8.84 CFS

July 2020

Width 7'
Av Depth 17.5"
Area

7
× 1.45'
10.15

Length 20'
Float Time 24 seconds

.83
24 | 20

Coeficient .85 × .83 = .70

× 10.15
7.10 CFC

Oct 2020

Width 7'
Av. Depth 11.5"
Area

7
× .95'
6.65

Length 20'
Float Time 30 seconds

.66
30 | 20

Coeficient .85 × .66 = .56

× 6.65
3.72 CFS

Johnson Creek

2020 stream flow Measurement Float Method

May 2020
Width 7'
Av. Depth 23.5"
Area

7
× 1.95'
13.65

Length 20'
Float Time 18 seconds

1.11
18 ⟌ 20

Coaficient .85 × 1.11 = .94

× 13.65
12.83 C.F.S

June 2020
Width 7'
Av. Depth 19.5
Area

7
× 1.62'
11.34

Length 20'
Float Time 20 seconds

1
20 ⟌ 20

Coefficient .85 × 1 .85

× 11.34
9.63 CFS

Oregon
John A. Kitzhaber, MD, Governor

Department of Fish and Wildlife
Rogue Watershed District Office
1495 East Gregory Road
Central Point OR 97502
(541) 826-8774
(541) 826-8776
dfw.state.or.us

July 9, 2013

Dan Davis
P.O. Box 1741
Bandon, OR 97411

Dear Dan,

Regarding OWRD water right permit S 54595, (Application S 86770), ODFW is satisfied that the fish screening in place is up to current standards, and has determined that a bypass device is not necessary.

Sincerely,

Rich Kilbane
SW Field Coordinator
Fish Screening and Passage Program

(541) 826-8774 ext. 243