

Completion Checklist for CWRE Claims of Beneficial Use

Application # 15-12261



Date Received 8/17/2017

CWRE Name Herb Farber

Claim Logged yes

File Marked yes

Oversized Map # _____

Reviewer Connie Vance

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))
- ☐ Source illustrated if surface water (OAR 690-014-0170(3))
- ☐ Point(s) of diversion or appropriation (illustrated) (OAR 690-014(4) & 690-310-0050)
- ☐ Point(s) of diversion or appropriation (coordinates)(OAR 690-014(4) & 690-310-0050)
- ☐ Conveyance structures illustrated (pump, pipelines, ditches, etc.) (OAR 690-310-0050)
- ☐ Description of the location, in relation to the point of diversion or appropriation, of any fish screens, by-pass devices, and measuring devices required (OAR 690-014(4))
- ☐ Place of use (1/4 1/4, or projected 1/4 1/4 lines within DLCs, or Gov Lots; if irrigation, # of acres in each subdivision; if for domestic or human consumption, location of dwelling or spigot) (OAR 690-310-0050, 690-014, 690-380-6010)

Report Review:

- ☒ On form or format 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)
- ☐ Description of conveyances system (from POD to POU) (OAR 690-014-0100)
- ☐ Source(s) of water (OAR 690-014-0100)
- ☐ Use, period of use, and rate for use (OAR 690-014-0100)
- ☐ Place of use location (OAR 690-014-0100)
- ☐ Type of use (OAR 690-014-0100)
- ☐ Extent of use (OAR 690-014-0100)
- ☐ Rate and Duty (OAR 690-014-0100)
- ☐ Diversion rate for each use (OAR 690-014-0100)
- ☐ Diversion works description (pump make, serial model, capacity, and description) (OAR 690-014-0100)
- ☐ System capacity (OAR 690-014-0100)
 - ☐ Calculated capacity of system (required)
 - ☐ Measured amount of use (optional)
- ☐ Permit/Transfer Final Order Conditions (OAR 690-014-0100)
 - ☐ Time limits
 - ☐ Initial water level measurements
 - ☐ Annual static water level measurements
 - ☐ Measurement, recording, and reporting
 - ☐ Meter/measuring device
 - ☐ Water use reporting
 - ☐ Fish screening and/or by-pass
 - ☐ Pump test (ground water)
 - ☐ Other conditions
- ☒ CWRE stamp and signature (OAR 690-014-0100)
- ☐ Signature(s) of permittee of transfer holder (OAR 690-014-0100)

DEF = deficient

N/A = Not Applicable

CLAIM OF BENEFICIAL USE

APPLICATION R-72269

PERMIT R-12625

APPLICATION S-72266

PERMIT S-53525

Prepared for:

Brad Boucher
2300 Colestin Road
Ashland, OR 97520

T 41 S, R 1 E, WM.

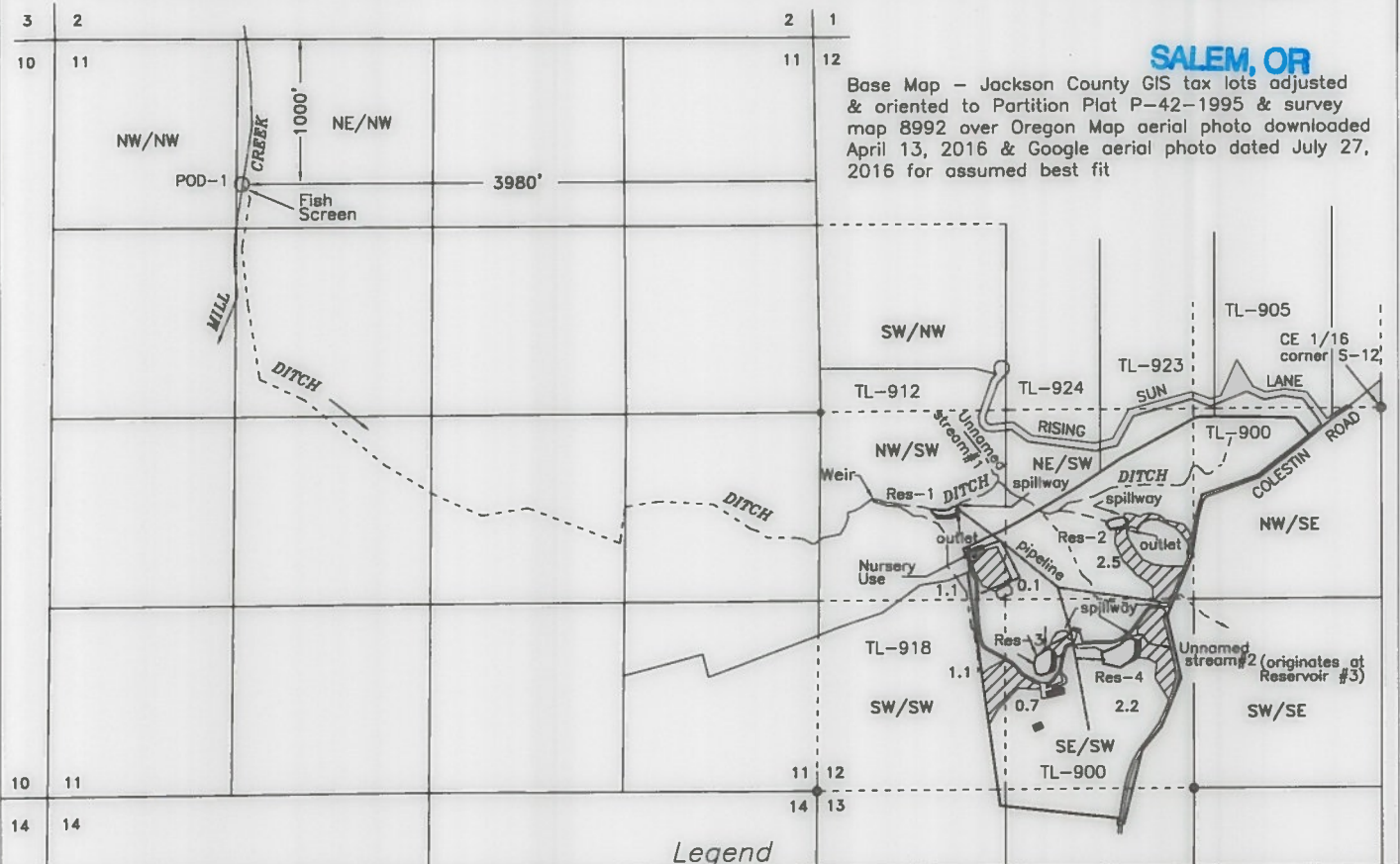
JACKSON COUNTY, OREGON

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Base Map - Jackson County GIS tax lots adjusted & oriented to Partition Plat P-42-1995 & survey map 8992 over Oregon Map aerial photo downloaded April 13, 2016 & Google aerial photo dated July 27, 2016 for assumed best fit



POD-1 Mill Creek - 1000 feet south & 3980 feet east from the NE corner section (from FPS permit S-44755)

- Res-1 Outlet - NW/SW Section 12, 700 feet South & 2930 feet west from the CE 1/16 corner Section 12
0.3 AF - Source - Diffuse runoff & runoff collected in unnamed ditch & Mill Creek
- Res-2 Outlet - NE/SW Section 12, 820 feet South & 1775 feet west from the CE 1/16 corner Section 12
0.5 AF - Source - Unnamed stream #1, year round
- Res-3 Dam - SE/SW Section 12, 1750 feet South & 2270 feet west from the CE 1/16 corner Section 12
1.0 AF - Source - Unnamed stream #2, year round
- Res-4 Dam - SE/SW Section 12, 1670 feet South & 1680 feet west from the CE 1/16 corner Section 12
2.3 AF - Source - Unnamed stream #2, year round

- Supplemental irrigation - 7.7 Acres
Source Reservoirs 1,2,3,4 (4.1 AF)
- 0.03 Acre - Nursery Operations - Source Mill Creek & Reservoir 1, (0.3 AF year round)
- Buildings

SCALE: 1" = 1320'

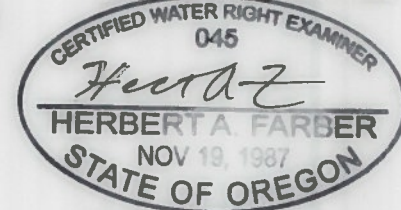
0' 660' 1320' 2640'

Prepared by:

FARBER & SONS, INC.
dba FARBER SURVEYING
(541) 664-5599

PO BOX 5286
431 OAK STREET
CENTRAL POINT, OREGON 97502

DATE: June 22, 2017 ned



RENEWS: 12/31/2017

This map is not intended to provide legal dimensions or locations of property ownership lines

Job No. 1999-843

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



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

**A fee of \$200 must accompany this form for permits
with priority dates after July 8, 1987.**

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:
http://www.oregon.gov/owrd/pages/wr/cwre_info.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:

http://www.oregon.gov/owrd/pages/mgmt_reimbursement_authority.aspx

SECTION 1 GENERAL INFORMATION

1. File Information

APPLICATION #	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
R-72269	R-12625	

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2. Property Owner (current owner information) APPLICANT/BUSINESS NAME Heaven and Earth, LLC (Brad Boucher)		PHONE NO. 541 488-3030	ADDITIONAL CONTACT NO.
ADDRESS 2300 Colestin Road			
CITY Ashland	STATE OR	ZIP 97520	E-MAIL Bradboucher.grace@gmail.com

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 Brad Boucher			
ADDRESS 2300 Colestin Road			
CITY Ashland	STATE OR	ZIP 97520	

ADDITIONAL PERMIT HOLDER OF RECORD NA		
ADDRESS		
CITY	STATE	ZIP

4. Date of Site Inspection: **7/20/2016**

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Brad Boucher	7/20/2016	Owner / permittee
Brad Boucher	2/16/2017	Owner / permittee

6. County: **Jackson**

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(4)):

OWNER OF RECORD NA		
ADDRESS		
CITY	STATE	ZIP

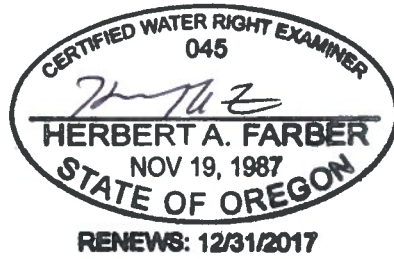
Add additional tables for owners of record as needed

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

Seal and Signature

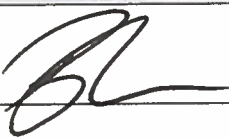


CWRE NAME Herbert A. Farber		PHONE NO. 541 664-5599	ADDITIONAL CONTACT NO.
ADDRESS P.O. Box 5286			
CITY Central Point	STATE OR	ZIP 97502	E-MAIL herb@farbersurveying.com

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
	Brad Boucher	<i>Owner</i>	7-21-17

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SECTION 3

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CLAIM DESCRIPTION

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

RESERVOIR NAME OR NUMBER	SOURCE	TRIBUTARY
#1	Diffuse Runoff & rain collected in ditch and Mill Creek	Cottonwood Creek
#2	Unnamed Stream #1	Cottonwood Creek
#3	Unnamed Stream #2	Cottonwood Creek
#4	Unnamed Stream #2	Cottonwood Creek

2. Developed use(s), period of use, and rate for each use:

RESERVOIR NAME OR NUMBER	USES	SEASON OR MONTHS WHEN WATER WAS APPROPRIATED FOR STORAGE	VOLUME STORED (AF)
#1	Supplemental irrigation	11/1-2/28 & 3/1-10-31	0.3 AF
#2	Supplemental irrigation	Year Round	0.5 AF
#3	Supplemental irrigation	Year Round	1.0 AF
#4	Supplemental Irrigation	Year Round	2.3 AF
Total Quantity of Water Stored			4.1 AF

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:

- #1 – Ditch (approx.. 1.3 miles) from Mill Creek to reservoir in ditch.
 #2 – Unnamed Stream #1 to ditch from Mill Cr. Then ditch to reservoir
 #3 – Unnamed stream #2 originates at reservoir 3
 #4 – Unnamed stream #2 – seeps from reservoir 3 and overflow from reservoir 3 to reservoir 4

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. **NO**

(e.g. "The permit allowed three points of diversion. The water user only developed one of the points." or "The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres.")

5. Claim Summary:

RESERVOIR NAME OR #	MAXIMUM STORAGE AUTHORIZED BY PERMIT (AF)	MAXIMUM STORAGE DEVELOPED (AF)
#1	0.3 AF	0.3 AF
#2	0.5 AF	0.5 AF
#3	1.0 AF	1.0 AF
#4	2.3 AF	2.3 AF

SECTION 4

SYSTEM DESCRIPTION

Are there multiple reservoirs?

YES

If "YES" you will need to copy and complete Sections 4B through 4E for each reservoir.

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

#1

A. Reservoir Location

1. Is the reservoir on-channel?

NO

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

TWP	RNG	MER	SEC	QQ	GLot	DLC	MEASURED DISTANCES
41S	1E	W.M.	12	NW/SW			685 feet S. & 2930 feet W. from the CE 1/16 Corner Section 12

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?

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

6. Additional notes or comments related to the system:

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NO

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?

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

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

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

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL / DITCH	SLOPE	COMPUTED RATE (IN CFS)
Earth / rubble	2.5	2.0	1.3	35	0.5 ft.	135 ft.	.004	5.6

3. Provide calculations:

See attachment 5 (Ditch capacity calculator)

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

E. Reservoir

1. Does the reservoir require the submittal of as-built plans and specifications?

NO

If "YES", answer items 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)
6'	1.9'	.16 Ac	

4. Provide reservoir volume calculations:

V = Ave. Depth x Area V = 1.9' x .16 Ac. = 0.3 AF

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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
9 feet	7	17	16 (est.)	4.5'	0.59	.53

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.

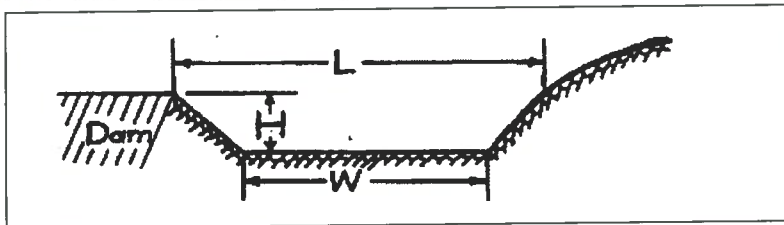
See attachment #1

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

6 inch PVC pipe with 4 foot perforated "T" one foot off the bottom with a valve on the outside of the dam. The spillway is a continuation of the ditch leading to the reservoir. The opening to the spillway is a wood box with dimensions listed below.

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

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
1.6	1.6	1.3



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SECTION 4

SYSTEM DESCRIPTION

Are there multiple reservoirs?

YES

If "YES" you will need to copy and complete Sections 4B through 4E for each reservoir.

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

#2

A. Reservoir Location

1. Is the reservoir on-channel?

NO

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

TWP	RNG	MER	SEC	QQ	GLOT	DLC	MEASURED DISTANCES
41S	1E	W.M.	12	NE/SW			820 feet S. & 1775 feet W. from the CE 1/16 Corner Section 12

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?

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NO

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

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6. Additional notes or comments related to the system:

SALEM, OR

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?

NO

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

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

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

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL / DITCH	SLOPE	COMPUTED RATE (IN CFS)
Earth / rubble	1.2	.8	.6	.35	45 ft.	340 ft.	.129	4.0

3. Provide calculations:

See attachment 6 (Ditch capacity calculator)

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

E. Reservoir

1. Does the reservoir require the submittal of as-built plans and specifications?

NO

If "YES", answer items 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)
6'	2.5'	.2 Ac	0.5

4. Provide reservoir volume calculations:

V = Ave. Depth x Area V = 2.5' x .2 Ac. = 0.5 AF

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WR

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
18 feet	6.8	35.9	21	.5' from bottom	0.31	.25

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.

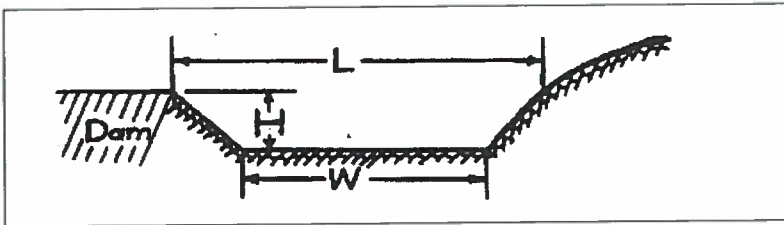
See attachment #2

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

8 inch pipe 3 feet off the bottom. Controlled by flashboard. Also, there is a 6.5 HP gas pump available that could be used to evacuate all water.

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

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
2.5	3	.8



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SECTION 4
SYSTEM DESCRIPTION

Are there multiple reservoirs?

YES

If "YES" you will need to copy and complete Sections 4B through 4E for each reservoir.

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

#3

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A. Reservoir Location

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1. Is the reservoir on-channel?

NO

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

TWP	RNG	MER	SEC	QQ	GLOT	DLC	MEASURED DISTANCES
41S	1E	W.M.	12	SE/SW			1750 feet S. & 2270 feet W. from the CE 1/16 Corner Section 12

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?

NO

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

6. Additional notes or comments related to the system:

The spillway serves as a discharge for unnamed stream #2 and feeds reservoir 4

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?

NO

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

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?

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?

NO

If "YES", answer items 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)
6'	2.5'	.4 Ac	1.0

4. Provide reservoir volume calculations:

$$V = \text{Ave. Depth} \times \text{Area} \quad V = 2.5' \times .4 \text{ Ac.} = 1.0 \text{ AF}$$

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
12 feet	4.2	29	14.5 (est.)	1.5' from crest	0.24	0.25

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.

See attachment #3

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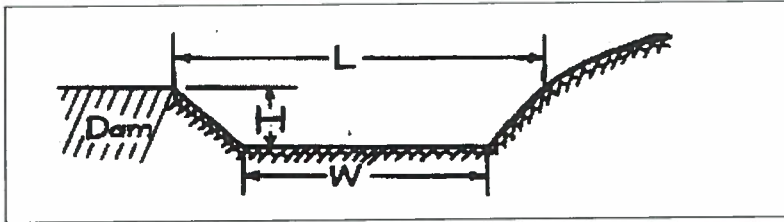
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7. Describe the outlet works (size and type of the outlet conduit and location):

None. Reservoir can be evacuated using available 6.5 HP gas pump.

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

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
1.8	2	.75



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SALEM, OR

SECTION 4
SYSTEM DESCRIPTION

Are there multiple reservoirs?

YES

If "YES" you will need to copy and complete Sections 4B through 4E for each reservoir.

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

#4

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A. Reservoir Location

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1. Is the reservoir on-channel?

NO

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

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TWP	RNG	MER	SEC	QQ	GLOT	DLC	MEASURED DISTANCES
41S	1E	W.M.	12	SE/SW			1670 feet S. & 1680 feet W. from the CE 1/16 Corner Section 12

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?

NO

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

6. Additional notes or comments related to the system:

**Spillway from reservoir 3 serves as discharge for unnamed stream #2 and feeds reservoir 4
Spillway for this reservoir is 8w x 2d with flashboards**

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?

NO

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

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

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

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL / DITCH	SLOPE	COMPUTED RATE (IN CFS)
Earth / rubble	2	1.8	.75	.35 (.04)	1 ft.	320 ft.	.003	1.9

3. Provide calculations:

See attachment #7 ditch capacity calculator

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

E. Reservoir

1. Does the reservoir require the submittal of as-built plans and specifications?

NO

If "YES", answer items 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'	3.3'	.7 Ac	2.3

4. Provide reservoir volume calculations:

$$V = \text{Ave. Depth} \times \text{Area} \quad V = 3.3' \times .7 \text{ Ac.} = 2.31 \text{ AF}$$

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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
18 feet	6.8	35.9	21	3.5' below crest	0.31	.25

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.

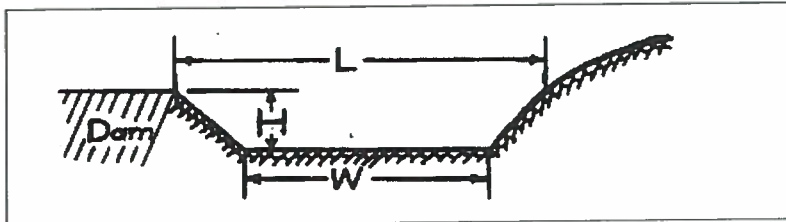
See Attachment 4

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

There is a 6.5 HP gas pump available that could be used to evacuate all water.

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

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
8	8	2



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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	2/24/1999		
BEGIN CONSTRUCTION (A)	1/14/2000	Reservoirs were existing in 1998	Reservoirs were existing in 1998
COMPLETE CONSTRUCTION (B)	NA		
COMPLETE APPLICATION OF WATER (C)	10/1/2003	2000	Reservoirs filled each year from 1998 to 2003

* 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)?

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?

NO

If "NO", items 3b through 3f 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.

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4. Recording and reporting conditions

a. Is the water user required to report the water use to the Department?

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NO

If "NO", item 4b relating to this section may be deleted.

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5. Fish Screening

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion?

YES

If "NO", items 5b through 5e 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

c. When was the fish screening installed?

DATE	BY WHOM
2000	ODF&W

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 .
- If not, go to <http://www.oregon.gov/owrd/Pages/pubs/forms.aspx> , 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).

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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.

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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? NO
- If not, contact and work with ODFW to ensure compliance. To demonstrate compliance, provide signed documentation from ODFW. A form is available at <http://www.oregon.gov/owrd/Pages/pubs/forms.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.

6. 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? NO

If "NO", items 6b and 6c relating to this section may be deleted.

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

7. 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? NO
- b. Was a fishway required? YES
- c. Was submittal of a letter from an engineer required prior to storage of water? NO
- d. Was submittal of a water management and conservation plan required? NO
- e. Other conditions? YES

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

8 inch outlet in Res. 2 and outlet or other means to evacuate water from all reservoirs – There is an 8 inch outlet in reservoir 2 about 3 feet from the bottom. It is controlled with flashboards. There is a 6 inch outlet in reservoir 1 controlled with a downstream valve connected to a pipeline. There is a 6.5

HP gas pump available on site to pump water from all reservoirs.

SECTION 6

ATTACHMENTS

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

ATTACHMENT NAME	DESCRIPTION
Attachment-1	Drawing of Reservoir 1 dam
Attachment-2	Drawing of Reservoir 2 dam
Attachment-3	Drawing of Reservoir-3 dam
Attachment-4	Drawing of Reservoir-4 dam
Attachment-5	Ditch capacity calc. Reservoir-1
Attachment-6	Ditch capacity calc. Reservoir-2
Attachment-7	Ditch capacity calc. Reservoir-4
Attachment-8	Fish Screen / Fish-way letter from ODF&W

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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.

Aerial photos used – Base map is Jackson County GIS tax lots, adjusted and oriented to partition plat P-42-1995 and survey map 8992 over Oregon Map aerial photo downloaded 4.13.2016 and Google aerial photos dated 7/20/2010 and 4/13/2016, for assumed best fit. Diversion from Mill Creek is referenced from previous Final Proof Survey Maps.

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
- ☐ NA 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
- ☐ NA 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

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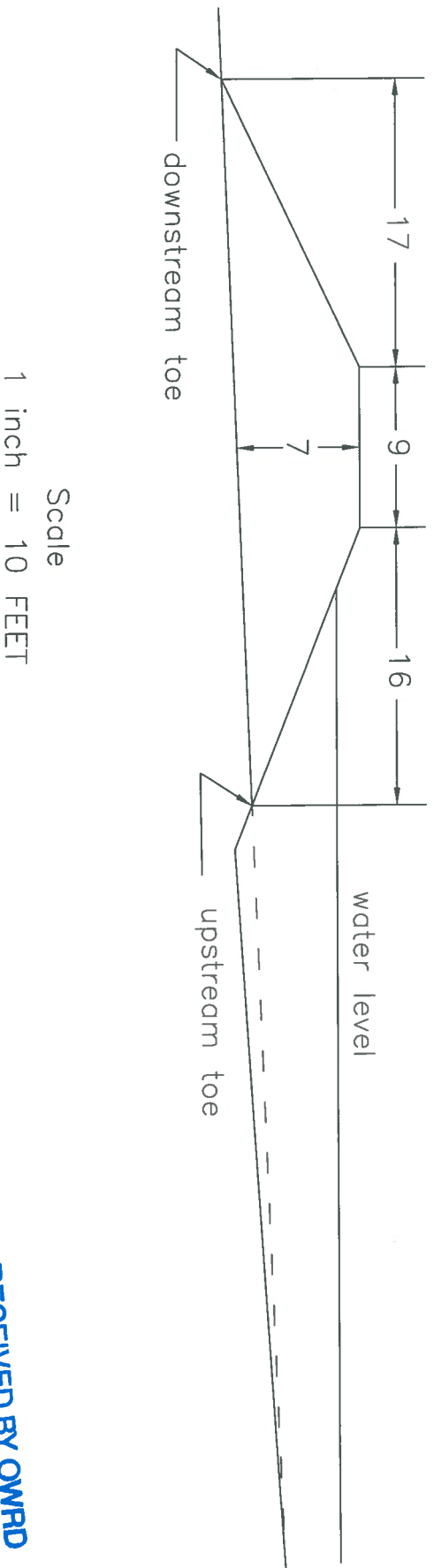
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Attachment 1 – COBU

Application R- 72269
Permit R- 12625

RESERVOIR #1



Scale

1 inch = 10 FEET

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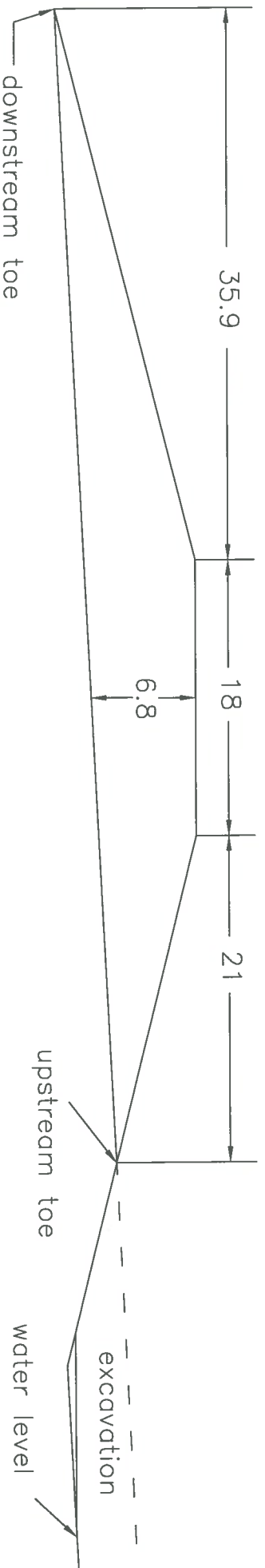
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Attachment 2 – COBU

Application R- 72269
Permit R- 12625

RESERVOIR #2



Scale

1 inch = 10 FEET

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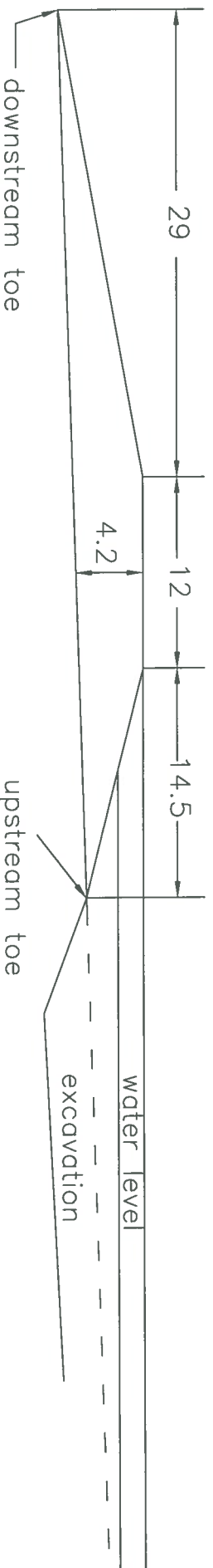
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Attachment 3 – COBU

Application R- 72269
Permit R- 12625

RESERVOIR #3



Scale

1 inch = 10 FEET

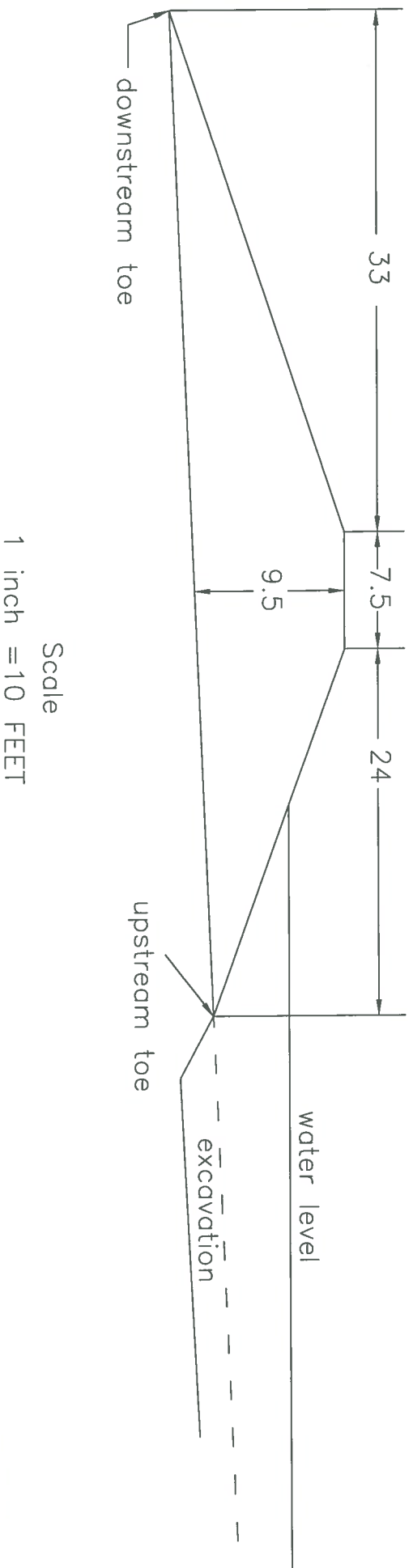
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Attachment 4 – COBU
Application R- 72269
Permit R- 12625

RESERVOIR #4



Scale

1 inch = 10 FEET

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Attachment 5 COBU Res.-1
App R-72269 Permit R-12625

Ditch Capacity Calculator

using Manning's Formula

Data Entry (fill in underlined blanks)

Top Width = 2.5 feet
Bottom Width = 2 feet
Depth = 1.3 feet
Fall = 0.5 feet per 135 feet of distance
Grade = 0.0037037 , or 0.4%
n Factor = 0.04

Results calculated

Area of cross-section = 2.925 square feet
Wetted Perimeter = 4.64764 feet
Hydraulic Radius = 0.62935
Velocity = 1.898 feet per second

Calculated Ditch Capacity = 5.6 cubic feet per second

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Attachment 6 COBU Res.-2
App R-72269 Permit R-12625

Ditch Capacity Calculator

using Manning's Formula

Data Entry (fill in underlined blanks)

Top Width = 1.2 feet
Bottom Width = 0.8 feet
Depth = 0.6 feet
Fall = 45 feet per 350 feet of distance
Grade = 0.12857143 , or 12.9%
n Factor = 0.04

Results calculated

Area of cross-section = 0.6 square feet
Wetted Perimeter = 2.06491 feet
Hydraulic Radius = 0.29057
Velocity = 6.679 feet per second

Calculated Ditch Capacity = 4.0 cubic feet per second

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Attachment 7 COBU Res.-4
App R-72269 Permit R-12625

Ditch Capacity Calculator

using Manning's Formula

Data Entry (fill in underlined blanks)

Top Width = 2 feet
Bottom Width = 1.8 feet
Depth = 0.75 feet
Fall = 1 feet per 320 feet of distance
Grade = 0.003125 , or 0.3%
n Factor = 0.04

Results calculated

Area of cross-section = 1.425 square feet
Wetted Perimeter = 3.31327 feet
Hydraulic Radius = 0.43009
Velocity = 1.352 feet per second

Calculated Ditch Capacity = 1.9 cubic feet per second

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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

January 25, 2016



Brad Boucher
2300 Colstin Rd.
Ashland, OR 97520

Dear Brad,

Regarding OWRD water right permits R-12625 (appl R-72269), and S-53525 (appl S-72266), ODFW is satisfied that the conditions for fish screening have been met, and has determined that fishways are not necessary. Thank you.

Sincerely,

Rich Kilbane
SW Field Coordinator
Fish Screening and Passage Program

(541) 826-8774 ext. 243

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Cc: Norm Daft

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