Checklist for Claims of Beneficial Use Received at CSG Counter

Application #:	WRD Reviewer: Judy
Transfer #: T-8156	
Date Received: 10/25/2021	
CWRE Name: Jeffrey S Hsu	
Priority Date (s): 1864	

Fees Required:

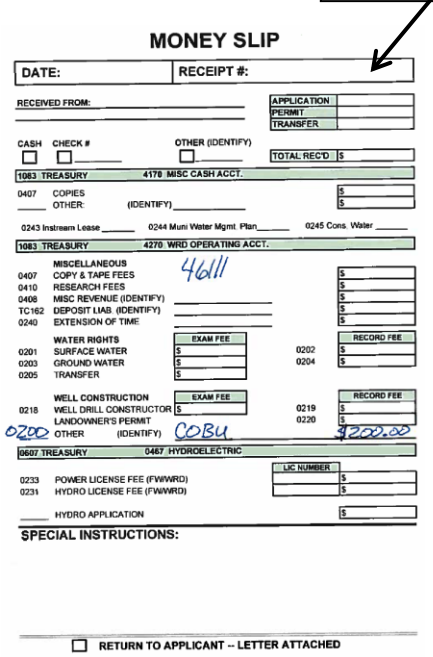
☐ YES NO ☑ A fee of $230 must accompany this form for <u>permits</u> with priority dates of July 9, 1987, or later.

☑ YES NO ☐ A fee of $230 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 Transfer with Multiple Changes – Surface Water and Groundwater

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

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A fee of $230 must accompany this form for any Transfer final orders 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.

A separate form shall be completed for each transfer.

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

A claim of beneficial use includes both this report and a map. If the map is being mailed separately from this form, please include a note with this form indicating such.

If you have questions regarding the completion of this form, please call 503-979-9103.

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

SECTION 1

GENERAL INFORMATION

Type of Authorized Change

This Claim is being submitted for a transfer involving multiple changes. **YES** **NO**

Mark all that apply:

1. ☒ Change in POD(s) or Additional POD(s)
2. ☐ Change in POA(s) or Additional POA(s)
3. ☒ Change in Place of Use
4. ☐ Change in Character of Use
5. ☐ Change in Character of Use – Reservoir

A separate section will be completed for each type of change authorized in the transfer final order.

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1. File Information

Application #
T-8156

2. Property Owner (current owner information)

Applicant/Business Name		Phone No.	Additional Contact No.
Terry Puckett/~~cherry Crest Farms~~		**541-786-5373**	
Address			
70037 Haefer Lane			
City	State	Zip	E-Mail
Cove	**OR**	**97824**	

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

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

Transfer Holder of Record		
Ronald Puckett - Deceased Cherry Crest Farms, Inc.		
Address		
City	State	Zip

4. Date of Site Inspection:

October 12, 2021

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

Name	Date	Association with the Project
Terry Puckett	**Oct. 12, 2021**	**Landowner**

6. County:

Union

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

Owner of Record		
Address		
City	State	Zip

Add additional tables for owners of record as needed

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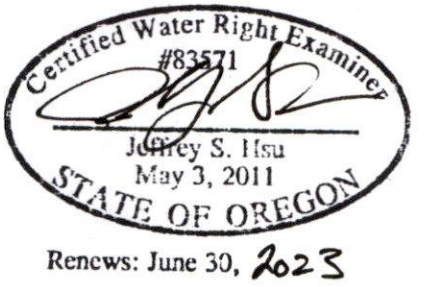
SECTION 2

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



Renews: June 30, 2023

CWRE NAME		PHONE NO.	ADDITIONAL CONTACT NO.
Jeffrey S. Hsu		**541-963-6092**	
ADDRESS **2006 Adams Ave.**			
CITY **La Grande**	STATE **OR**	ZIP **97850**	E-MAIL **jeff@bgbsurveyors.com**

Transfer Holder of Record Signature or Acknowledgement

Each *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
Terry Puckett	Terry Puckett	Owner	10/21/2021

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SECTION 3

Changes Made

Note: The Claim only needs to describe the changes that were authorized in the transfer final order.

Change #1

New or Additional Point of Diversion

Change in POD(s) or Additional POD(s)

Did the transfer order authorize a change in the points of diversion or additional points of diversion? **YES** **NO**

*If "**NO**", this Section can be deleted.*

1. New or additional point of diversion name or number:

POINT OF DIVERSION (POD) NAME OR NUMBER (CORRESPOND TO MAP)	SOURCE
POD#1	**Murphy Creek**

2. Variations:

Was the use developed differently from what was authorized by the transfer final order, or extension final? **YES** **NO**

If yes, describe below.

(e.g. *"The order allowed three new/additional points of diversion. The water user only developed one of the points."*)

Order transferred 2.4 acres from the NW1/4NW1/4 to the SW1/4NW1/4. This was not done. POD#2 is point of diversion for certificate 6211 and is shown on this map, as it is cited on the permit, but would therefore not pertain to this transfer.

3. Claim Summary:

NEW OR ADDITIONAL POD NAME OR #	MAXIMUM RATE AUTHORIZED IN ORDER	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED
POD#1	**0.66 cfs**	**3.29 cfs**	**n/a**

System Description

Are there multiple new or additional Points of Diversion (POD)? **YES** **NO**

If *"YES"* you will need to copy and complete Sections A, B, or C in this Section for each POD.

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

POD#1

A. POD System Information

Provide the following information concerning the point of diversion. Information provided must describe the equipment used to appropriate water from the point of diversion.

1. Pump Information

Manufacturer	Model	Serial Number	Type (centrifugal, turbine or submersible)	Intake Size	Discharge Size

2. Motor Information

Manufacturer	Horsepower

3. Theoretical Pump Capacity

Horsepower	Operating PSI	Lift from Source to Pump	Lift from Pump to Place of Use	Total Pump Output (in cfs)

4. Provide pump calculations:

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)

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

B. Gravity Flow Pipe

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

1. Does the diversion involve a gravity flow pipe? **YES** **NO**

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

2. Complete the table:

Pipe Size	Pipe Type	"C" factor	Amount of Fall	Length of Pipe	Slope	Computed Rate of Water Flow (in cfs)
6"	**Steel**	**140**	**100 ft**	**750 ft**	**13.3%**	**3.29 cfs**

3. Provide calculations:

Area of cross section =3.1415*(0.5 ft/2)^2 = 0.193635 sq. ft
Wetted Perimeter = 3.1415*0.5 ft. = 1.570796 ft
Hydraulic Radius = 0.193635 sq. ft/1.570796 ft = 0.125
Velocity = (1.318*140)*(0.125^0.63)*(0.1333^0.54)=16.77118 ft/sec
Pipe Capacity = 16.77118 ft/sec*0.19635 sq. ft. = 3.293 cfs

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)
No measurement made			

Attach measurement notes.

C. Gravity Flow Canal or Ditch

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

1. Does the diversion involve a gravity flow ditch or canal? **YES** **NO**

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

D. Additional notes or comments related to the system:

Water diverted from Murphy Creek into a concrete basin whereby it enters a 6" buried steel mainline to a riser approx. 750 feet to the West. An additional 2" buried steel line runs approx. 500 feet to the West. Water is conveyed to place of use by portable 3" steel pipe. System is entirely dependent on gravity flow.

Change #2

Change in POA(s) or Additional POA(s)

Did the transfer order authorize a change in the points of appropriation or additional points of appropriation? **YES** **NO**

*If "**NO**", this Section can be deleted.*

System Description

Are there multiple new or additional Points of Appropriation (POA)? **YES** **NO**

Change #3

Change in Place of Use

Did the transfer order authorize a change in the place of use? **YES** **NO**

*If "**NO**", this Section can be deleted.*

1. Claim Summary – Authorized Use:
If Irrigation or Nursery Use:

THE # OF ACRES ALLOWED	THE # OF ACRES DEVELOPED
26.5	26.5
2.4	0

If the new use(s) was not irrigation or nursery:

NEW USE(S)	WAS THE NEW PLACE OF USE DEVELOPED TO THE FULL EXTENT AUTHORIZED UNDER THE ORDER? (INCLUDE THE LOCATION OF THE DEVELOPED PLACE USE ON THE CLAIM MAP)
	YES NO NA
	YES NO NA

2. Variations:

Was the use developed differently from what was authorized by the transfer final order? **YES** NO

If yes, describe below.

(e.g. *"The order authorized a change in place of use for 40 acres. The water user only developed 38 acres."*)

The 2.4 acres transferred from the NW1/4NW1/4 to the SW1/4NW1/4 was not developed.

Change #4

Change in Character of Use

Did the transfer order authorize a change in character of use? **YES** **NO**

*If "**NO**", this Section can be deleted.*

Change #5

Change in Character of Use – Reservoir

Did the transfer order authorize a change in character of use for a reservoir? **YES** **NO**

*If "**NO**", this Section can be deleted.*

SECTION 4

CONDITIONS

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

1. Time Limits:

Describe how the water user has complied with each of the development timelines established in the transfer final order and any extensions of time issued for the transfer:

	DATE FROM TRANSFER	DATE THE AUTHORIZED CHANGES WERE COMPLETED *THIS DATE MUST FALL BETWEEN THE "ISSUANCE DATE" AND THE "COMPLETENESS DATE"
ISSUANCE DATE	**Nov. 28, 2005**	
COMPLETENESS DATE FROM ORDER (C)	**October 1, 2007**	**System has been in place prior to the original permit application.**

* MUST BE WITHIN PERIOD BETWEEN TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETE THE CHANGE

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

If "NO", you may delete the following table.

If for a transfer extension order, provide the following information:

VOLUME	PAGE	DATE EXTENDED TO

3. Measurement Conditions:

a. Does the transfer final order, or any extension final order require the installation of a meter or other approved measuring device? **YES** **NO**

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

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.

5. 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.

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? **YES** **NO**

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

7. Other conditions required by the transfer final order or extension final order:

a. Were there special well construction standards? **YES** **NO**

b. Was submittal of a ground water monitoring plan required? **YES** **NO**

c. 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):

SECTION 5

ATTACHMENTS

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

ATTACHMENT NAME	DESCRIPTION

SECTION 6

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 polyester 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.

The changes that were authorized under the transfer final order must be mapped based on the developed locations; new or additional points of appropriation and place of use.

In cases where the order involved additional points of appropriation, the additional points should be mapped based on their developed locations. The original points of appropriation should be mapped based on the original right of record at the time the transfer final order was issued.

In cases where the order involved changing the place of use for a portion of a water right, the portion of the place of use being changed should be mapped based on the developed location. If the transfer also included portions of the place of use that were not being modified, but were receiving a new or additional point of appropriation, the place of use for those lands should be mapped based on the original right of record at the time the transfer final order was issued.

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.

Section lines were placed as per Union County GPS network. Parcel lines are placed as per Union County GIS. Creek location was placed via DOGAMI LIDAR dataset. Area watered was placed as per Oregon State Imagery Program aerial photo dated 2017 and by field observation. POD, basin and riser location placed by handheld GPS.

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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 or appropriation
- ☐ 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

SECTION 7
REFERENCE INFORMATION FOR CWRE USE
(Please DO NOT submit these pages.)

Additional information is available at:
https://www.oregon.gov/OWRD/programs/WaterRights/COBU/Pages/default.aspx
Go to "Resources for Water Right Examiners (CWRE)" Page

MS Word Hints

To add rows to a table, click outside the table on the far right and hit enter.

Place cursor here and hit return to add a row

To resolve page numbering issues, go to print preview. Page through the entire document (while in print preview), then print from print preview.

Common Calculations

The Department typically uses the following calculations to determine system capacities; many of which are available to download from the Department's Web Site.

Pumps:

Q Pump = $\frac{\text{(horsepower)(pump efficiency)}}{\text{(total head in feet)}}$ = Q in cfs

Efficiency factors:

NOTE: Pump efficiency factor for centrifugal pump (75%) = 6.61
Pump efficiency factor for turbine pump (80%) = 7.04

Centrifugal Pump, 75% eff. $\frac{\text{(550 ft lb/sec/Hp)(.75)}}{\text{(62.4 lb/cu ft)}}$ = 6.61 ft^4/sec/Hp

Turbine & Submersible Pumps, 80% eff. $\frac{\text{(550 ft lb/sec/Hp)(.80)}}{\text{(62.4 lb/cu ft)}}$ = 7.04 ft^4/sec/Hp

Total head is the sum of suction lift, pressure head, and discharge lift.

If the operating pressure is not measured, varying the assumed operational pressure in the above formulas until the calculated outputs are equal, or nearly so, will generally give the most correct theoretical capacity of the system.

Efficiencies have been assumed to be 75% for centrifugal pump installations and 80% for turbine or submersible pumps. See the list below of converted psi's to feet of head. These figures account for minor friction losses. If the system involves unusually long pipelines friction losses should be accounted for by using standard charts and formulas.

Refer to the conversion table below to compute PSI to head for pump pressure in feet.

[(psi/.433)(1.1) = head (in feet/psi) = 2.54 feet head/psi]

PSI	HEAD	PSI	HEAD
25	63.5	55	139.7
30	76.2	60	152.4
35	88.9	65	165.1
40	101.6	70	177.8
45	114.3	75	190.5
50	127.0	80	203.2

Ditches/Canals:

Manning's Formula: $$v = \frac{1.486}{n} r^{2/3} s^{1/2}$$

v = mean velocity of flow in feet per second
r = hydraulic radius in feet
s = slope of the energy gradient
n = coefficient of roughness

Type of Conduit and Description	Coefficient of Roughness	
Pipe	**Minimum**	**Maximum**
Cast Iron, Coated	0.01	0.014
Cast Iron, Uncoated	0.011	0.015
Wrought Iron, Galvanized	0.013	0.017
Wrought Iron, Black	0.012	0.015
Steel, Riveted and Spiral	0.013	0.017
Corrugated	0.021	0.0255
Wood Stave	0.01	0.014
Neat Cement Surface	0.01	0.013
Concrete	0.01	0.017
Vitrified Sewer Pipe	0.01	0.017
Clay, Common Drainage Tile	0.011	0.017
Lined Channels		
Metal, Smooth Semicircular	0.011	0.015
Metal, Corrugated	0.0228	0.0244
Wood, Planed	0.01	0.015
Wood, Unplaned	0.011	0.015
Neat Cement-Lined	0.01	0.013
Concrete	0.012	0.018
Cement Rubble	0.017	0.03
Vegetated, Small Channels, Shallow Depths		
Bermuda Grass; Long - 13", Green	0.042	
Bermuda Grass; Long - 13", Dormant	0.035	
Bermuda Grass; Short - 3", Green	0.034	
Bermuda Grass; Short - 3", Dormant	0.034	
Unlined Channels		
Earth; Straight and Uniform	0.017	0.025
Dredged	0.025	0.033
Winding and Sluggish	0.0225	0.03
Stoney Bed, Weeds on Bank	0.025	0.04
Earth Bottom, Rubble Sides	0.028	0.035
Rock Cuts; Smooth and Uniform	0.025	0.035
Rock Cuts; Jagged and Irregular	0.035	0.045

Gravity flow pipe systems

Hazen-William's Formula:

$$v = 1.31(c)(r^{0.63})(s^{0.54})$$

v = mean velocity of flow in feet per second
c = coefficient of roughness
r = hydraulic radius in feet
s = slope of energy gradient

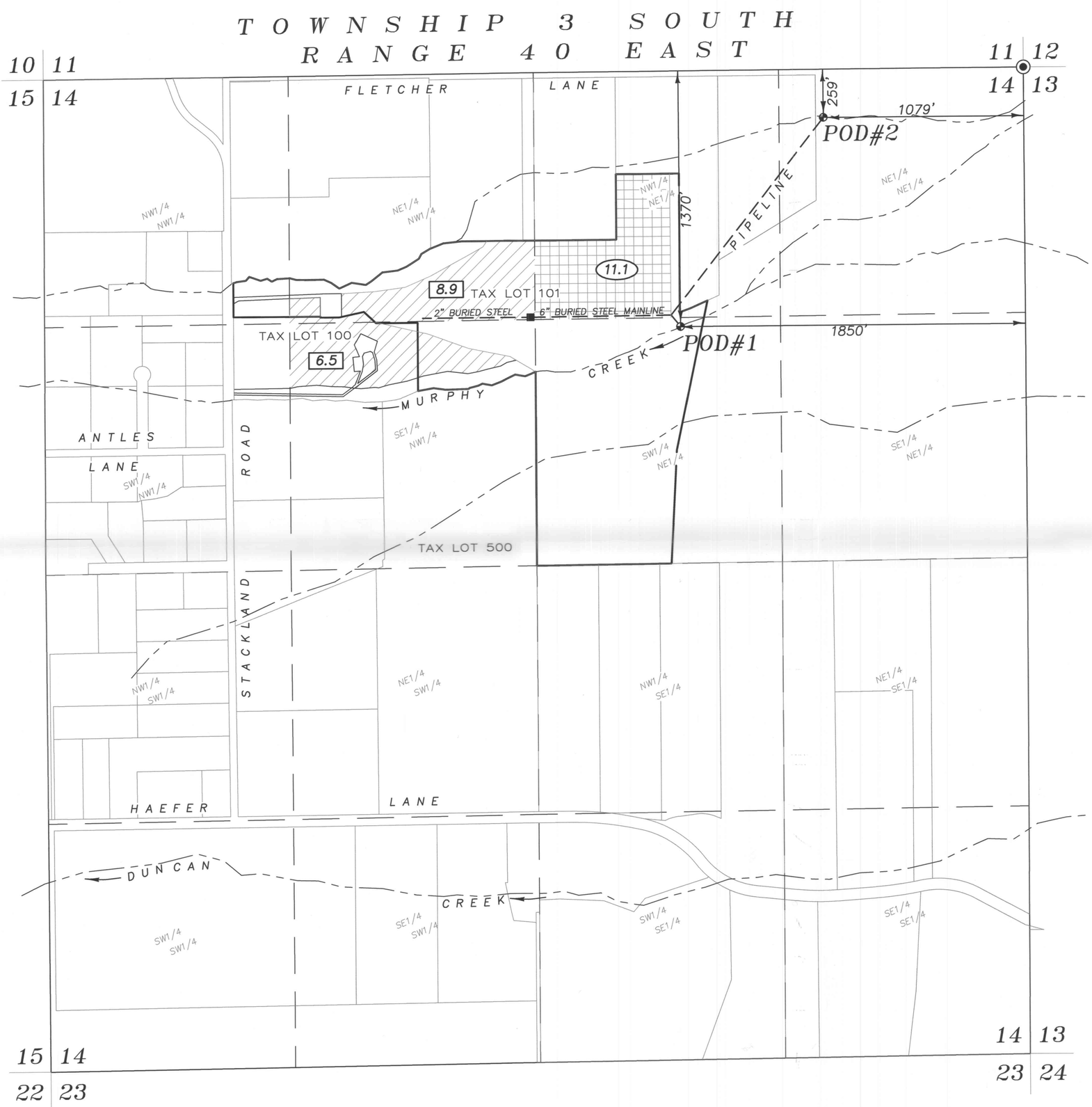
Material	Coefficient of Roughness
Asbestos Cement	140
Brass	135
Brick sewer	100
Cast-Iron - new unlined (CIP)	130
Cast-Iron 10 years old	110
Cast-Iron 20 years old	95
Cast-Iron 30 years old	82
Cast-Iron 40 years old	74
Concrete	130
Copper	135
Ductile Iron Pipe (DIP)	140
Galvanized iron	120
Glass	140
Lead	135
Plastic	145
PVC, CPVC	150
Smooth Pipes	140
Steel new unlined	145
Steel	130
Steel riveted	110
Tin	130
Wood Stave	120

October 14, 2021

CLAIM OF BENEFICIAL USE TRANSFER OF PLACE OF USE AND POINT OF DIVERSION

FOR
TERRY PUCKETT

SCALE: 1"=400'



LEGEND

- Transferred place of use by Certificate 6149
- Area irrigated by Certificate 6149 to remain in place
- Authorized Point of Diversion
- Area of transferred place of use
- Area of right remaining in place

Certified Water Right Examiner
#835?.1
Jeffrey S. Hsu
May 3, 2011
STATE OF OREGON

Renews: June 30, 2023

NOTE: The preparation of this map was for the purpose of identifying the location of proposed water rights and is not intended to provide dimensions or location of property ownership lines. Location information hereon was furnished by the applicant.

BY
BAGETT, GRIFFITH AND BLACKMAN
2006 ADAMS AVE
LA GRANDE, OREGON 97850

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APPLICATION NO. T-8156

PERMIT NUMBER _____