

Checklist for Claims of Beneficial Use Received at CSG Counter

Application #:	WRD Reviewer:
Transfer #:	
Date Received:	
CWRE Name:	
Priority Date (s):	

Fees Required:

- YES NO A fee of \$230 must accompany this form for permits with priority dates of July 9, 1987, or later.
- YES NO A fee of \$230 must accompany this form for any transfers 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.

Fill in App or Transfer Number

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))

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 all permittee of transfer holder (OAR 690-014-0100)

MONEY SLIP

DATE: _____		RECEIPT #: _____	
RECEIVED FROM: _____		APPLICATION PERMIT TRANSFER	
CASH <input type="checkbox"/>	CHECK # _____	OTHER (IDENTIFY) <input type="checkbox"/>	TOTAL RECD \$ _____
1083 TREASURY 4178 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			
0407 COPY & TAPE FEES	4611	\$ _____	
0410 RESEARCH FEES		\$ _____	
0409 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	\$ _____
OTHER (IDENTIFY)			
0200	COBU	\$ 230.00	
0607 TREASURY 0487 HYDROELECTRIC			
		LIC NUMBER	
0233 POWER LICENSE FEE (FWWRD)	\$ _____		
0231 HYDRO LICENSE FEE (FWWRD)	\$ _____		
HYDRO APPLICATION		\$ _____	
SPECIAL INSTRUCTIONS:			
<input type="checkbox"/> RETURN TO APPLICANT -- LETTER ATTACHED			

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 Surface Water Permits
claiming more than 0.1 cfs



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 permits
with priority dates of July 9, 1987, or later.**

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>

Go to "Resources for Water Right Examiners (CWRE)" Page
<https://www.oregon.gov/OWRD/programs/WaterRights/COBU/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 503-979-9103.

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

1. File Information:

APPLICATION # S-59862	PERMIT # S-50014	PERMIT AMENDMENT # T-
---------------------------------	----------------------------	---------------------------------

2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME STANLEY V. SHEPHARD		PHONE NO. 541-823-2331	ADDITIONAL CONTACT NO.
ADDRESS 80601 DRIVER RD			
CITY TYGH VALLEY	STATE OR	ZIP 97063	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 or holder of record (this may, or may not, be the current property owner):

PERMIT HOLDER OF RECORD ROCK CREEK DISTRICT IMPROVEMENT CO.			
ADDRESS ROUTE 1 BOX 20			RECEIVED
CITY TYGH VALLEY	STATE OR	ZIP 97063	NOV 29 2021

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ADDITIONAL PERMIT HOLDER OF RECORD		
ADDRESS		
CITY	STATE	ZIP

4. Date of Site Inspection:

7-28-2021

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
STANLEY V. SHEPHARD	7-28-2021	OWNER

6. County:

WASCO

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 SEE ATTACHED LIST		
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.



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CWRE NAME Gary L. DeJarnatt		PHONE NO.	ADDITIONAL CONTACT NO. John Short 541-389-2837	
ADDRESS 20735 DOUBLE PEAKS DR				
CITY BEND	STATE OR	ZIP 97701	E-MAIL	

Permit Holder of Record Signature or Acknowledgement

Each permit 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
<i>Stanley V. Shephard</i>	Stanley V. Shephard	owner	11-21-21

**DATE
& SIGN**

SECTION 3
CLAIM DESCRIPTION

1. Point of diversion name or number:

POINT OF DIVERSION (POD) NAME OR NUMBER (CORRESPOND TO MAP)
POD 1 – ROCK CREEK
POD 2 – THREEMILE CREEK
POD 3 – GATE CREEK
POD 4 – ROCK CREEK RESERVOIR

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2. Point of diversion source and tributary:

POD NAME OR NUMBER	SOURCE	TRIBUTARY
POD 1	ROCK CREEK	
POD 2	THREEMILE CREEK	
POD 3	GATE CREEK	
POD 4	ROCK CREEK RESERVOIR	

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

POD NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
POD 1	IR	WHEAT	APR 1 – OCT 31	13.4 CFS
POD 2	IR	"	"	13.4 CFS
POD 3	IR	"	"	13.4 CFS
POD 4	IR	"	"	13.4 CFS
Total Quantity of Water Used				13.4 CFS

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

WATER IS DISTRIBUTED THROUGH THE ROCK CREEK DISTRICT IMPROVEMENT COMPANY PIPELINE AND DITCH SYSTEM TO TURNOUTS WHERE IT IS APPLIED TO POU BY FLOOD IRRIGATION; FLOWS TO THE BULGES-IN-SYSTEM, AND PUMPED TO PIVOTS, WHEELS LINES, AND BIG GUNS.

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).

5. Variations:

Was the use developed differently from what was authorized by the permit, or permit amendment final order? If yes, describe below.

YES 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.")

THE PORTION OF THE PERMIT BEING CLAIMED ALLOWED 539.3 ACRES OR IRRIGATION, THE WATER USER ONLY DEVELOPED 535.0 ACRES.

6. Claim Summary:

POD NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
POD 1	13.4 CFS	13.4 CFS	N/A	IR	539.3	535.0
POD 2	"	"	N/A	IR	"	"
POD 3	"	"	N/A	IR	"	"
POD 4	"	"	N/A	IR	"	"

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SECTION 4
SYSTEM DESCRIPTION

Are there multiple PODs?

YES NO

If "YES" you will need to copy and complete a separate Section 4 for each POD.

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

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POD 1/4 – ROCK CREEK/ROCK CREEK RESERVOIR

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A. Place of Use

1. Is the right for municipal use?

YES NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
4S	12E	WM	13	SWSE			IR	22.0	
"	"	"	"	SESE			"	22.0	
"	"	"	23	NENE			"	30.0	
"	"	"	"	SENE			"	30.0	
"	"	"	"	NENW			"	16.3	
"	"	"	"	NWNW			"	20.0	
"	"	"	"	SWNW			"	31.6	
"	"	"	"	SENW			"	12.5	
"	"	"	"	NESW			"	36.2	
"	"	"	"	NWSW			"	36.5	
"	"	"	"	SWSW			"	12.0	
"	"	"	"	SESW			"	10.0	
"	"	"	"	NWSE			"	35.2	
"	"	"	"	SWSE			"	13.6	
"	"	"	24	NENE			"	37.9	
"	"	"	"	NWNE			"	25.0	
"	"	"	"	SWNE			"	3.0	
"	"	"	"	SENE			"	26.1	
"	"	"	"	NENW			"	9.0	
"	"	"	"	NWNW			"	33.1	
"	"	"	"	SWNW			"	30.0	
"	"	"	26	NENW			"	22.0	
"	"	"	"	NWNW			"	21.0	
Total Acres Irrigated								535.0	

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and 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 and apply the water from the point of diversion to the place of use.

1. Is a pump used?

YES NO

If "NO" items 2 through item 6 may be deleted.

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
#1 Cornell Pump	4RB-25-3-4	152540.10.69	CENTRIFUGAL		
#2 Cornell Pump	HHH-50-3-4	152643.13.56	CENTRIFUGAL		
#3 BERKELEY	B32P11	M17106	CENTRIFUGAL		
#4 GOULD	UNKNOWN	UNKNOWN	CENTRIFUGAL		
#5 GOULD	UNKNOWN	UNKNOWN	CENTRIFUGAL		
#6 CORNELL	UNKNOWN	UNKNOWN	CENTRIFUGAL		

3. Motor Information:

MANUFACTURER	HORSEPOWER
#1 BALDOR	25
#2 BALDOR	50
#3 BALDOR	40
#4 GOULD	25
#5 GOULD	60
#6 BALDOR	40

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4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
#1 - 25	20	3'	24'	4.52 CFS
#2 - 50	10	3'	24'	3.36 CFS
#3 - 40	20	3'	57'	1.74 CFS
#4 - 25	10	3'	71'	1.77 CFS
#5 - 60	10	3'	15'	9.73 CFS
#6 - 40	10	3'	67'	2.95 CFS

5. Provide pump calculations:

SEE ATTACHED OWRD PUMP CALCULATIONS.

6. 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)
N/A			

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

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YES NO

7. Is the distribution system piped?

If "NO" items 8 through item 13 may be deleted.

8. Mainline Information:

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MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
6" PVC	10065'	PVC	BURIED

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
5/32"	40	4.4	222	222	2.18 CFS
0.8"	90	175	1	1	0.39 CFS
0.7"	90	125	1	1	0.28 CFS
0.7"	90	125	1	1	0.28 CFS

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emmitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)

12. Drip Tape Information:

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	ADDITIONAL INFORMATION

13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
REINKE	960'	20 PSI	760	1.69
VALLEY	1400'	20 PSI	900	2.01
REINKE	1360'	10 PSI	1000	2.23
REINKE	1320'	15 PSI	680	1.52
REINKE	1360'	10 PSI	960	2.14

C. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)?

YES NO

If "NO", item 2 and 3 relating to this section may be deleted.

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YES NO
YES NO

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If "YES" is it a: Storage Tank
 Bulge in System / Reservoir
 Complete appropriate table(s), unused table may be deleted.

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
#1	5'	2.5
#2	5'	5.0
#3	9'	27.0
#4	5'	13.0

D. 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

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)
34"	HDPE	145	28'	10695'	0.3%	39.11 CFS

3. Provide calculations:

SEE ATTACHED OWRD PIPE CAPACITY CALCULATIONS.
NOTE: PIPE CAPACITY IS +/-30 CFS PER ROCK CREEK IRRIGATION DISTRICT.

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. 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.

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)
1-Rock	5'	4'	3'	.04	29'	1900'	1.5%	75.3 cfs
2-Rock	3'	2.5'	3'	.04	62'	4500'	1.4%	35.2 cfs
A-Rock	10'	9'	4'	.04	325'	24400'	1.3%	277.9 cfs
B-Rock	4'	3'	3'	.04	391'	22458'	1.7%	317.7 cfs

3. Provide calculations:

See attached OWRD Ditch Capacity Calculations

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)
n/a			

Attach measurement notes.

F. Additional notes or comments related to the system:

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POD 2 – THREEMILE CREEK

A. Place of Use

1. Is the right for municipal use?

YES NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
4S	12E	WM	13	SWSE			IR	22.0	
"	"	"	"	SESE			"	22.0	
"	"	"	23	NENE			"	30.0	
"	"	"	"	SENE			"	30.0	
"	"	"	"	NENW			"	16.3	
"	"	"	"	NWNW			"	20.0	
"	"	"	"	SWNW			"	31.6	
"	"	"	"	SENW			"	12.5	
"	"	"	"	NESW			"	36.2	
"	"	"	"	NWSW			"	36.5	
"	"	"	"	SWSW			"	12.0	
"	"	"	"	SESW			"	10.0	
"	"	"	"	NWSE			"	35.2	
"	"	"	"	SWSE			"	13.6	
"	"	"	24	NENE			"	37.9	
"	"	"	"	NWNE			"	25.0	
"	"	"	"	SWNE			"	3.0	
"	"	"	"	SENE			"	26.1	
"	"	"	"	NENW			"	9.0	
"	"	"	"	NWNW			"	33.1	
"	"	"	"	SWNW			"	30.0	
"	"	"	26	NENW			"	22.0	
"	"	"	"	NWNW			"	21.0	
Total Acres Irrigated								535.0	

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Glot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Glot, and 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 and apply the water from the point of diversion to the place of use.

1. Is a pump used?

YES NO

If "NO" items 2 through item 6 may be deleted.

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
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#4 GOULD	UNKNOWN	UNKNOWN	CENTRIFUGAL		
#5 GOULD	UNKNOWN	UNKNOWN	CENTRIFUGAL		
#6 CORNELL	UNKNOWN	UNKNOWN	CENTRIFUGAL		

3. Motor Information:

MANUFACTURER	HORSEPOWER
#1 BALDOR	25
#2 BALDOR	50
#3 BALDOR	40
#4 GOULD	25
#5 GOULD	60
#6 BALDOR	40

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4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
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#5 - 60	10	3'	15'	9.73 CFS
#6 - 40	10	3'	67'	2.95 CFS

5. Provide pump calculations:

SEE ATTACHED OWRD PUMP CALCULATIONS.

6. 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)
N/A			

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

7. Is the distribution system piped?

YES NO

If "NO" items 8 through item 13 may be deleted.

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
6" PVC	10065'	PVC	BURIED

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9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
5/32"	40	4.4	222	222	2.18 CFS
0.8"	90	175	1	1	0.39 CFS
0.7"	90	125	1	1	0.28 CFS
0.7"	90	125	1	1	0.28 CFS

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)

12. Drip Tape Information:

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	ADDITIONAL INFORMATION

13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
REINKE	960'	20 PSI	760	1.69
VALLEY	1400'	20 PSI	900	2.01
REINKE	1360'	10 PSI	1000	2.23
REINKE	1320'	15 PSI	680	1.52
REINKE	1360'	10 PSI	960	2.14

C. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)?

YES NO

If "NO", item 2 and 3 relating to this section may be deleted.

If "YES" is it a: Storage Tank
Bulge in System / Reservoir

YES NO
YES NO

Complete appropriate table(s), unused table may be deleted.

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
#1	5'	2.5
#2	5'	5.0
#3	9'	27.0
#4	5'	13.0

D. 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

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)
34"	HDPE	145	28'	10695'	0.3%	39.11 CFS

3. Provide calculations:

SEE ATTACHED OWRD PIPE CAPACITY CALCULATIONS.
NOTE: PIPE CAPACITY IS +/- 30 CFS PER ROCK CREEK IRRIGATION DISTRICT.

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. 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.

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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)
1-Rock	5'	4'	3'	.04	29'	1900'	1.5%	75.3 cfs
2-Rock	3'	2.5'	3'	.04	62'	4500'	1.4%	35.2 cfs
A-Rock	10'	9'	4'	.04	325'	24400'	1.3%	277.9 cfs
B-Rock	4'	3'	3'	.04	391'	22458'	1.7%	317.7 cfs

3. Provide calculations:

See attached OWRD Ditch Capacity Calculations

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)
n/a			

Attach measurement notes.

F. Additional notes or comments related to the system:

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POD 3 – GATE CREEK

A. Place of Use

1. Is the right for municipal use?

YES NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
4S	12E	WM	13	SWSE			IR	22.0	
"	"	"	"	SESE			"	22.0	
"	"	"	23	NENE			"	30.0	
"	"	"	"	SENE			"	30.0	
"	"	"	"	NENW			"	16.3	
"	"	"	"	NWNW			"	20.0	
"	"	"	"	SWNW			"	31.6	
"	"	"	"	SENW			"	12.5	
"	"	"	"	NESW			"	36.2	
"	"	"	"	NWSW			"	36.5	
"	"	"	"	SWSW			"	12.0	
"	"	"	"	SESW			"	10.0	
"	"	"	"	NWSE			"	35.2	
"	"	"	"	SWSE			"	13.6	
"	"	"	24	NENE			"	37.9	
"	"	"	"	NWNE			"	25.0	
"	"	"	"	SWNE			"	3.0	
"	"	"	"	SENE			"	26.1	
"	"	"	"	NENW			"	9.0	
"	"	"	"	NWNW			"	33.1	
"	"	"	"	SWNW			"	30.0	
"	"	"	26	NENW			"	22.0	
"	"	"	"	NWNW			"	21.0	
Total Acres Irrigated								535.0	

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and 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 and apply the water from the point of diversion to the place of use.

1. Is a pump used?

YES NO

If "NO" items 2 through item 6 may be deleted.

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
#1 Cornell Pump	4RB-25-3-4	152540.10.69	CENTRIFUGAL		
#2 Cornell Pump	HHH-50-3-4	152643.13.56	CENTRIFUGAL		
#3 BERKELEY	B32P11	M17106	CENTRIFUGAL		
#4 GOULD	UNKNOWN	UNKNOWN	CENTRIFUGAL		
#5 GOULD	UNKNOWN	UNKNOWN	CENTRIFUGAL		
#6 CORNELL	UNKNOWN	UNKNOWN	CENTRIFUGAL		

3. Motor Information:

MANUFACTURER	HORSEPOWER
#1 BALDOR	25
#2 BALDOR	50
#3 BALDOR	40
#4 GOULD	25
#5 GOULD	60
#6 BALDOR	40

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4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
#1 - 25	20	3'	24'	4.52 CFS
#2 - 50	10	3'	24'	3.36 CFS
#3 - 40	20	3'	57'	1.74 CFS
#4 - 25	10	3'	71'	1.77 CFS
#5 - 60	10	3'	15'	9.73 CFS
#6 - 40	10	3'	67'	2.95 CFS

5. Provide pump calculations:

SEE ATTACHED OWRD PUMP CALCULATIONS.

6. 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)
N/A			

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

7. Is the distribution system piped?

YES NO

If "NO" items 8 through item 13 may be deleted.

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
6" PVC	10065'	PVC	BURIED

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
5/32"	40	4.4	222	222	2.18 CFS
0.8"	90	175	1	1	0.39 CFS
0.7"	90	125	1	1	0.28 CFS
0.7"	90	125	1	1	0.28 CFS

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)

12. Drip Tape Information:

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	ADDITIONAL INFORMATION

13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
REINKE	960'	20 PSI	760	1.69
VALLEY	1400'	20 PSI	900	2.01
REINKE	1360'	10 PSI	1000	2.23
REINKE	1320'	15 PSI	680	1.52
REINKE	1360'	10 PSI	960	2.14

C. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)?

YES NO

If "NO", item 2 and 3 relating to this section may be deleted.

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If "YES" is it a: Storage Tank
Bulge in System / Reservoir

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YES NO
YES NO

Complete appropriate table(s), unused table may be deleted.

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2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
#1	5'	2.5
#2	5'	5.0
#3	9'	27.0
#4	5'	13.0

D. 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

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)
34"	HDPE	145	28'	10695'	0.3%	39.11 CFS

3. Provide calculations:

SEE ATTACHED OWRD PIPE CAPACITY CALCULATIONS.
NOTE: PIPE CAPACITY IS +/-30 CFS PER ROCK CREEK IRRIGATION DISTRICT.

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. 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.

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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)
1-Rock	5'	4'	3'	.04	29'	1900'	1.5%	75.3 cfs
2-Rock	3'	2.5'	3'	.04	62'	4500'	1.4%	35.2 cfs
A-Rock	10'	9'	4'	.04	325'	24400'	1.3%	277.9 cfs
B-Rock	4'	3'	3'	.04	391'	22458'	1.7%	317.7 cfs

3. Provide calculations:

See attached OWRD Ditch Capacity Calculations

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)
n/a			

Attach measurement notes.

F. Additional notes or comments related to the system:

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SECTION 5 CONDITIONS

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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 use 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 permit extension of time:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	8-18-1987		
BEGIN CONSTRUCTION (A)	8-18-1987	8-18-1987	DISTRIBUTION SYSTEM COMPLETE
COMPLETE CONSTRUCTION (B)	10-1-2000	10-1-2010	SYSTEM COMPLETE
COMPLETE APPLICATION OF WATER (C)	10-1-2000	10-1-2010	COMPLETE APPLICATION OF WATER TO BENEFICIAL USE

* 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

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

a. Did the Extension Final Order require the submittal of Progress Reports? YES NO

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

b. Were the Progress Reports submitted? YES NO

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

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.

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.

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? YES NO
- b. Was a fishway required? YES NO
- c. Was submittal of a water management and conservation plan required? YES NO
- d. 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):

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**SECTION 6
ATTACHMENTS**

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

ATTACHMENT NAME	DESCRIPTION
DITCH CALCS	OWRD DITCH CAPACITY CALCULATIONS
PIPE CALCS	OWRD PIPE CAPACITY CALCULATIONS
PUMP CALCS	OWRD PUMP CAPACITY CALCULATIONS
CBU MAP	CLAIM OF BENEFICIAL USE MAP
EXCLUDED OWNERS LIST	PARTIAL CBU – EXCLUDED OWNERS LIST

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.

ON-SITE DIRECT MEASUREMENT AND NAIP IMAGERY.

Map Checklist

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

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- 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
- N/A Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- N/A 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

Pipe Capacity Calculator		RCDIC PIPELINE	
for pipes flowing full, using the Hazen-Williams Formula			
Data Entry (fill in underlined blanks)			
Interior Diameter =	<u>34</u>	inches, or	<u>2.83333333</u> feet
Roughness Coefficient (C) =	<u>145</u>		
Fall =	<u>28</u>	feet	per <u>10695</u> feet of distance
Grade =	<u>0.002618045</u>	, or	<u>0.3%</u>
Results calculated			
Area of cross-section =	<u>6.3050019</u>	square feet	
Wetted Perimeter =	<u>8.9011797</u>	feet	
Hydraulic Radius =	<u>0.7083333</u>		
Velocity =	<u>6.2035582</u>	feet per second	
Pipe Capacity =	<u>39.113</u>	cubic feet per second	

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Ditch Capacity Calculator DITCH A					
using Manning's Formula					
Data Entry (fill in underlined blanks)					
Top Width =	<u>10</u>	feet			
Bottom Width =	<u>9</u>	feet			
Depth =	<u>4</u>	feet			
Fall =	<u>325</u>	feet	per	<u>24400</u>	feet of distance
Grade =	<u>0.013319672</u>	, or	<u>1.3%</u>		
n Factor =	<u>0.04</u>				
Results calculated					
Area of cross-section =	<u>38</u>	square feet			
Wetted Perimeter =	<u>17.06225</u>	feet			
Hydraulic Radius =	<u>2.227137</u>				
Velocity =	<u>7.312</u>	feet per second			
Calculated Ditch Capacity =	<u>277.9</u>	cubic feet per second			

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Ditch Capacity Calculator DITCH B					
using Manning's Formula					
Data Entry (fill in underlined blanks)					
Top Width =	<u>10</u>	feet			
Bottom Width =	<u>9</u>	feet			
Depth =	<u>4</u>	feet			
Fall =	<u>391</u>	feet	per	<u>22458</u>	feet of distance
Grade =	<u>0.017410276</u>	, or	<u>1.7%</u>		
n Factor =	<u>0.04</u>				
Results calculated					
Area of cross-section =	<u>38</u>	square feet			
Wetted Perimeter =	<u>17.06225</u>	feet			
Hydraulic Radius =	<u>2.227137</u>				
Velocity =	<u>8.360</u>	feet per second			
Calculated Ditch Capacity =	<u>317.7</u>	cubic feet per second			

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Ditch Capacity Calculator DITCH 1				
using Manning's Formula				
Data Entry (fill in underlined blanks)				
Top Width =	<u>5</u>	feet		
Bottom Width =	<u>4</u>	feet		
Depth =	<u>3</u>	feet		
Fall =	<u>29</u>	feet	per	<u>1900</u> feet of distance
Grade =	<u>0.015263157</u>	, or	<u>1.5%</u>	
n Factor =	<u>0.04</u>			
Results calculated				
Area of cross-section =	<u>13.5</u>	square feet		
Wetted Perimeter =	<u>10.08276</u>	feet		
Hydraulic Radius =	<u>1.338918</u>			
Velocity =	<u>5.576</u>	feet per second		
Calculated Ditch Capacity =	<u>75.3</u>	cubic feet per second		

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Ditch Capacity Calculator DITCH 2				
using Manning's Formula				
Data Entry (fill in underlined blanks)				
Top Width =	<u>3</u>	feet		
Bottom Width =	<u>2.5</u>	feet		
Depth =	<u>3</u>	feet		
Fall =	<u>62</u>	feet	per	<u>4500</u> feet of distance
Grade =	<u>0.013777777</u>	, or	<u>1.4%</u>	
n Factor =	<u>0.04</u>			
Results calculated				
Area of cross-section =	<u>8.25</u>	square feet		
Wetted Perimeter =	<u>8.520797</u>	feet		
Hydraulic Radius =	<u>0.968219</u>			
Velocity =	<u>4.268</u>	feet per second		
Calculated Ditch Capacity =	<u>35.2</u>	cubic feet per second		

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Pump Capacity Calculation Sheet		AVIAN LAKES RANCH PUMP 1	
using Department designed formula:			
$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$			
Efficiency:			
Centrifugal = 6.61			
Turbine = 7.04			
Data Entry (fill in underlined blanks)			
HP =	<u>50</u>		
Efficiency =	<u>7.04</u>		
Lift =	<u>27</u>		
PSI =	<u>20</u>		
Results Calculated			
$(hp)(\text{efficiency}) =$	<u>352</u>		
Head based on psi =	<u>50.8</u>		
Total dynamic head =	<u>77.8</u>		
(head + lift)			
Pump Capacity =	4.52	cfs	

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Pump Capacity Calculation Sheet		AVIAN LAKES RANCH PUMP 2	
using Department designed formula:			
$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$			
Efficiency:			
Centrifugal = 6.61			
Turbine = 7.04			
Data Entry (fill in underlined blanks)			
HP =	<u>25</u>		
Efficiency =	<u>7.04</u>		
Lift =	<u>27</u>		
PSI =	<u>10</u>		
Results Calculated			
$(hp)(\text{efficiency}) =$	176		
Head based on psi =	25.4		
Total dynamic head =	52.4		
(head + lift)			
Pump Capacity =	3.36	cfs	

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Pump Capacity Calculation Sheet		AVIAN LAKES RANCH PUMP 3	
using Department designed formula:			
$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$			
Efficiency:			
Centrifugal = 6.61			
Turbine = 7.04			
Data Entry (fill in underlined blanks)			
HP =	<u>40</u>		
Efficiency =	<u>7.04</u>		
Lift =	<u>60</u>		
PSI =	<u>40</u>		
Results Calculated			
$(hp)(\text{efficiency}) =$	281.6		
Head based on psi =	101.6		
Total dynamic head =	161.6		
(head + lift)			
Pump Capacity =	1.74	cfs	

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Pump Capacity Calculation Sheet		AVIAN LAKES RANCH PUMP 4	
using Department designed formula:			
$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$			
Efficiency:			
Centrifugal = 6.61			
Turbine = 7.04			
Data Entry (fill in underlined blanks)			
HP =	<u>25</u>		
Efficiency =	<u>7.04</u>		
Lift =	<u>74</u>		
PSI =	<u>10</u>		
Results Calculated			
$(hp)(\text{efficiency}) =$	176		
Head based on psi =	25.4		
Total dynamic head =	99.4		
(head + lift)			
Pump Capacity =	1.77	cfs	

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Pump Capacity Calculation Sheet		AVIAN LAKES RANCH PUMP 5	
using Department designed formula:			
$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$			
Efficiency:			
Centrifugal = 6.61			
Turbine = 7.04			
Data Entry (fill in underlined blanks)			
HP =	<u>60</u>		
Efficiency =	<u>7.04</u>		
Lift =	<u>18</u>		
PSI =	<u>10</u>		
Results Calculated			
$(hp)(\text{efficiency}) =$	<u>422.4</u>		
Head based on psi =	<u>25.4</u>		
Total dynamic head =	<u>43.4</u>		
(head + lift)			
Pump Capacity =	9.73	cfs	

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Pump Capacity Calculation Sheet		AVIAN LAKES RANCH PUMP 6	
using Department designed formula:			
$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$			
Efficiency:			
Centrifugal = 6.61			
Turbine = 7.04			
Data Entry (fill in underlined blanks)			
HP =	<u>40</u>		
Efficiency =	<u>7.04</u>		
Lift =	<u>70</u>		
PSI =	<u>10</u>		
Results Calculated			
$(hp)(\text{efficiency}) =$	281.6		
Head based on psi =	25.4		
Total dynamic head =	95.4		
(head + lift)			
Pump Capacity =	2.95	cfs	

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List of Owner's of Record not included in CBU Report:

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Tax Lot	Owner of Record	Address
4S 12E 0 2301	MC FAUL GEORGE A LT	78900 ROCK CREEK DAM RD TYGH VALLEY, OR 97063
4S 12E 0 3100	DAVIS PATRICK P J	78305 WOODCOCK RD TYGH VALLEY, OR 97063
4S 12E 14 400	JUSTESEN JONNIE L	59720 TWIN LAKES RD GRASS VALLEY, OR 97029
4S 12E 15 1000 4S 12E 15 1100 4S 12E 22 100 4S 12E 0 2100	JOHNSON LIVESTOCK LLC	15882 NW MEAD LN NORTH PLAINS, OR 97133
4S 12E 0 3301 4S 12E 0 3303	JOHNSON JAMES A & LORI J FAMILY TRUST	15882 NW MEAD LN NORTH PLAINS, OR 97133
4S 12E 0 3400	HART STEPHEN S	78819 WOODCOCK RD TYGH VALLEY, OR 97063
4S 12E 22 200	MORLAN THOMAS W & COLLEEN G	PO BOX 171 TYGH VALLEY, OR 97063
4S 12E 0 4600	DRIVER RANCH LLC	4152 SW SALMON AVE REDMOND, OR 97756
4S 12E 0 3900	DRIVER HOMESTEAD LLC	4152 SW SALMON AVE REDMOND, OR 97756
4S 12E 0 4200 4S 12E 0 4100 4S 12E 0 4300	MATTHEW VICKI & BARBER TERESA	PO BOX 939 THE DALLES, OR 97058
4S 12E 0 2302 4S 12E 0 3302 4S 12E 0 3700 4S 12E 0 3300 4S 12E 0 4700 4S 12E 0 4800 4S 12E 0 4900	WHITE RIVER RANCH LLC	56100 SMOCK RD TYGH VALLEY, OR 97063
4S 12E 22 500	WAMIC TOWN OF (CEMETERY)	UNDETERMINED



Business Name Search

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Business Entity Data

11-17-2021

11:35

Registry Nbr	Entity Type	Entity Status	Jurisdiction	Registry Date	Next Renewal Date	Renewal Due?
038955-13	DDINP	ACT	OREGON	05-21-1936	05-21-2022	
Entity Name	ROCK CREEK DISTRICT IMPROVEMENT COMPANY					
Foreign Name						

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NOV 29 2021

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Associated Names

OWRD

Type	PRINCIPAL PLACE OF BUSINESS					
Addr 1	80601 DRIVER RD					
Addr 2						
CSZ	TYGH VALLEY	OR	97063	Country	UNITED STATES OF AMERICA	

Please click [here](#) for general information about registered agents and service of process.

Type	AGT REGISTERED AGENT			Start Date	07-20-2021	Resign Date
Name	STAN	SHEPARD				
Addr 1	80601 DRIVER RD					
Addr 2						
CSZ	TYGH VALLEY	OR	97063	Country	UNITED STATES OF AMERICA	

Type	MAL MAILING ADDRESS					
Addr 1	PO BOX 91					
Addr 2						
CSZ	TYGH VALLEY	OR	97063	Country	UNITED STATES OF AMERICA	

Type	PRE PRESIDENT			Resign Date	
Name	GEORGE	MCFAUL			
Addr 1	78900 ROCK CREEK RD				
Addr 2					
CSZ	TYGH VALLEY	OR	97063	Country	UNITED STATES OF AMERICA

--	--	--	--	--	--











Type	SEC SECRETARY				Resign Date	
Name	PAMELA	CERRUTI				
Addr 1	81416 BADGER CRK RD					
Addr 2						
CSZ	TYGH VALLEY	OR	97063	Country	UNITED STATES OF AMERICA	








[New Search](#) [Printer Friendly](#) **Name History**

Business Entity Name	Name Type	Name Status	Start Date	End Date
ROCK CREEK DISTRICT IMPROVEMENT COMPANY	EN	CUR	05-21-1936	

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Image Available	Action	Transaction Date	Effective Date	Status	Name/Agent Change	Dissolved By
	AMNDMT TO ANNUAL RPT/INFO STATEMENT	09-03-2021		FI		
	REINSTATEMENT AMENDED	09-03-2021		FI		
	AMNDMT TO ANNUAL RPT/INFO STATEMENT	07-20-2021		FI	Agent	RECEIVED
	AMNDMT TO ANNUAL RPT/INFO STATEMENT	04-21-2021		FI	Agent	NOV 29 2021
	ADMINISTRATIVE DISSOLUTION	07-23-2020		SYS		OWRD
	AMENDED ANNUAL REPORT	05-02-2019		FI		
	AMENDED ANNUAL REPORT	06-19-2018		FI		
	AMENDED ANNUAL REPORT	05-03-2017		FI		
	AMENDED ANNUAL REPORT	06-07-2016		FI		
	REINSTATEMENT AMENDED	10-15-2015		FI		
	ADMINISTRATIVE DISSOLUTION	07-31-2015		SYS		
	AMENDED ANNUAL REPORT	07-15-2014		FI		
	ANNUAL REPORT PAYMENT	06-07-2013		SYS		
	ANNUAL REPORT PAYMENT	04-12-2012		SYS		
	ANNUAL REPORT PAYMENT	04-14-2011		SYS		
	ANNUAL REPORT	05-11-2010		SYS		

	PAYMENT					
	CHANGE OF MAILING ADDRESS	12-21-2009		FI		
	AMNDMT TO ANNUAL RPT/INFO STATEMENT	12-21-2009		FI		
	CHANGE OF REGISTERED AGENT/ADDRESS	12-21-2009		FI	Agent	
	ANNUAL REPORT PAYMENT	05-14-2009		SYS		
	ANNUAL REPORT PAYMENT	05-15-2008		SYS		
	ANNUAL REPORT PAYMENT	04-26-2007		SYS		
	ANNUAL REPORT PAYMENT	04-14-2006		SYS		
	ANNUAL REPORT PAYMENT	04-14-2005		SYS		
	ANNUAL REPORT PAYMENT	04-14-2004		SYS		RECEIVED
	AMNDMT TO ANNUAL RPT/INFO STATEMENT	04-29-2003		FI		NOV 29 2021
	ANNUAL REPORT PAYMENT	04-18-2003		SYS		OWRD
	ANNUAL REPORT PAYMENT	06-06-2002		SYS		
	ANNUAL REPORT PAYMENT	05-08-2001		SYS		
	STRAIGHT RENEWAL	06-13-2000		FI		
	STRAIGHT RENEWAL	05-24-1999		FI		
	STRAIGHT RENEWAL	05-07-1998		FI		
	STRAIGHT RENEWAL	05-06-1997		FI		
	STRAIGHT RENEWAL	06-11-1996		FI		
	STRAIGHT RENEWAL	05-15-1995		FI		
	AMENDED RENEWAL	05-11-1994		FI		
	AMENDED RENEWAL	05-04-1993		FI		
	AMENDED RENEWAL	04-29-1992		FI		
	STRAIGHT RENEWAL	05-22-1991		FI		
	AMENDED RENEWAL	06-20-1990		FI		
	AMENDED RENEWAL	05-01-1989		FI		
	AMENDED RENEWAL	06-27-1988		FI		
	STRAIGHT RENEWAL	05-21-1987		FI		
	AMENDED RENEWAL	06-17-1986		FI		
	STRAIGHT RENEWAL	07-09-1985		FI		
	AMENDMENT	07-31-1952		FI		
	AMENDMENT	03-27-1939		FI		
	AMENDMENT	12-17-1936		FI		
	NEW	05-21-1936		FI		

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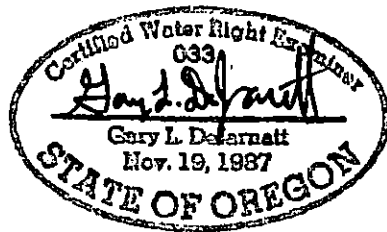
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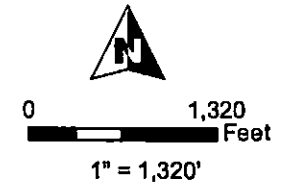
NOV 29 2021

OWRD

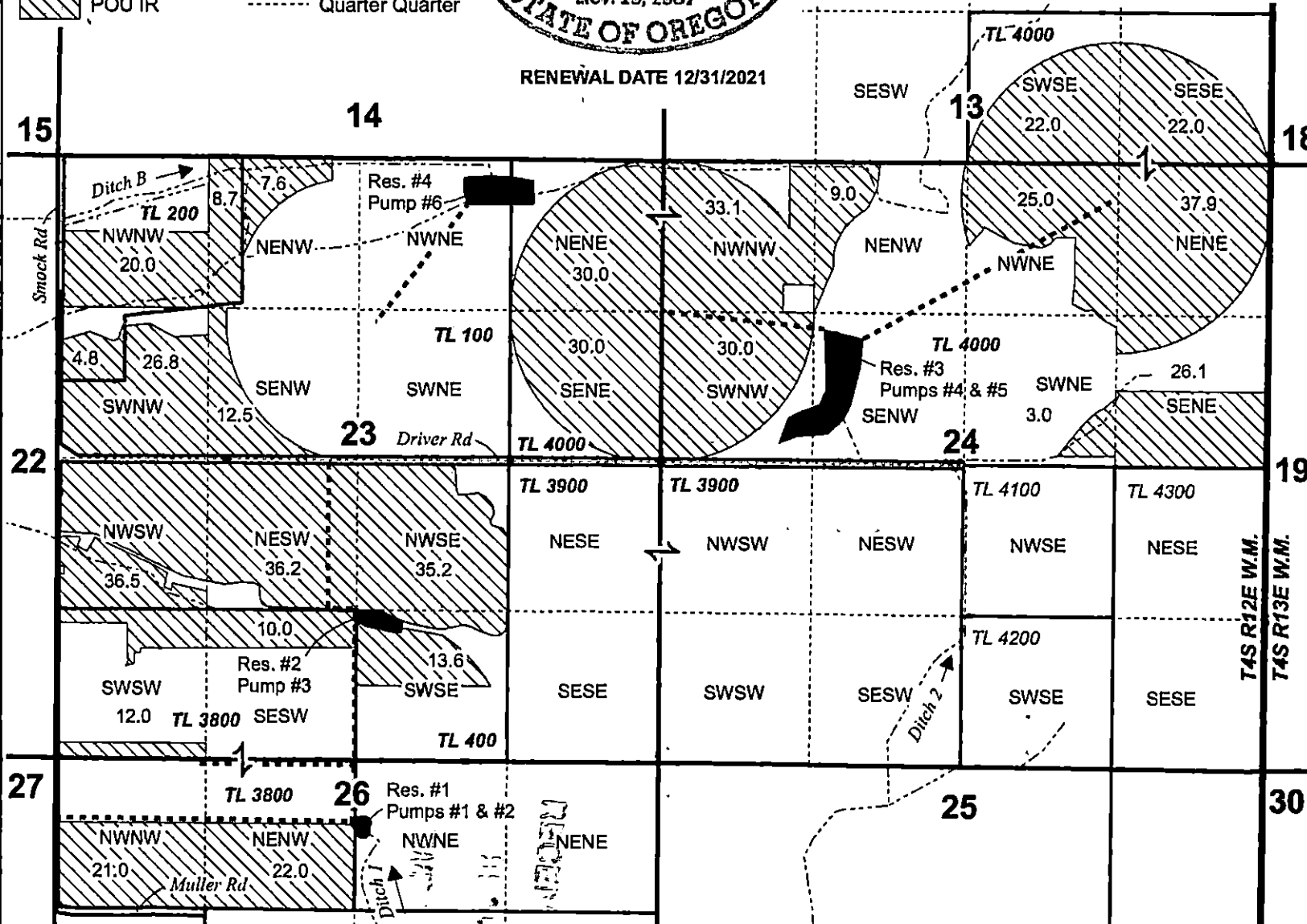
- Pipeline
- Ditch
- Bulge-in-System
- ▨ POU IR
- Township
- Section
- Tax Lot
- Quarter Quarter



T4S R12E, WM
WASCO COUNTY, OREGON



RENEWAL DATE 12/31/2021



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CLERK



CLAIM OF BENEFICIAL USE MAP
AVIAN LAKES RANCH, LLC

Page 1 of 3

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

WATER RIGHT SERVICES, LLC

PO BOX 1830, BEND, OR 97709
 WWW.OREGONWATER.US CCB # 197121
 johnshort@usa.com 541-389-2837

Ap S-59862 Permit S-50014 Project #21041

Date: 11/12/2021

T4S R11E, WM

WASCO COUNTY, OREGON

POD Locations:

POD #1/#4 - Rock Creek & Reservoir: 1000' N, 1200' E of S 1/4 Cor Sec 14

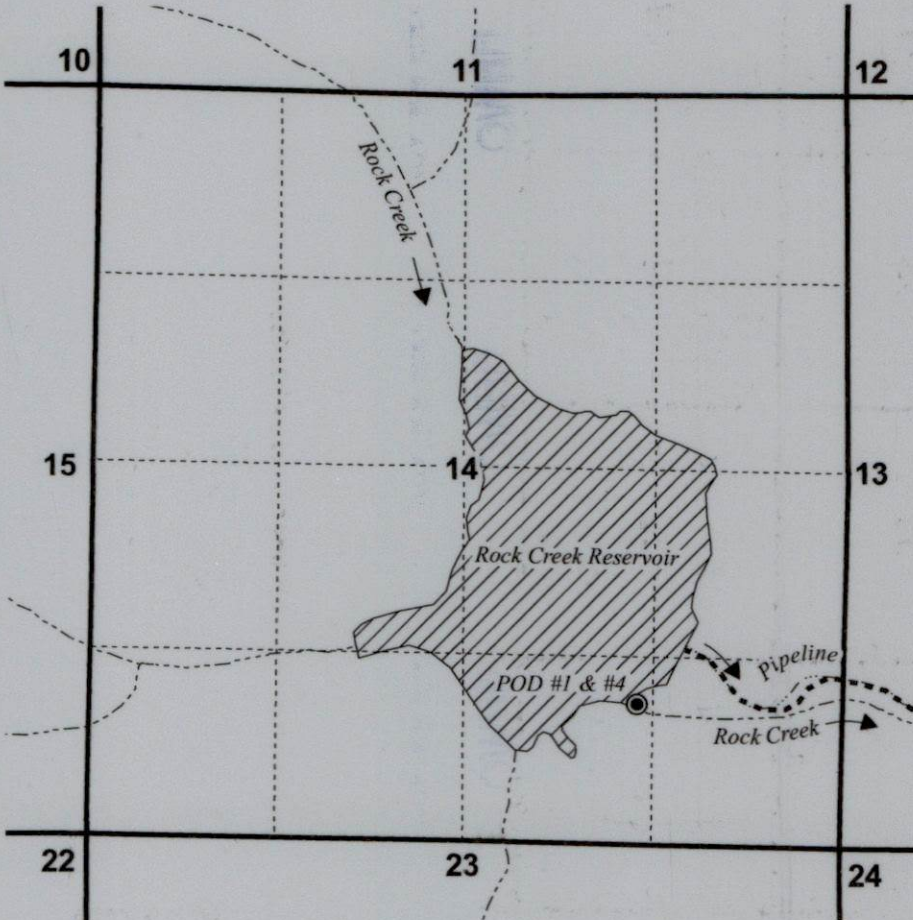
POD #2 Threemile Creek: 726' S, 528' W of NE Cor Sec 10

POD #3 Gate Creek: 1280' N, 1500' E of Cen Cor Sec 21

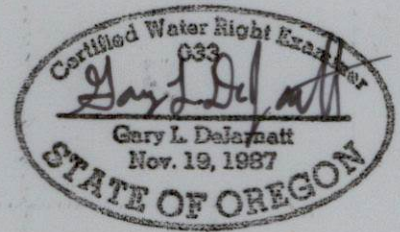


0 1,320 Feet

1" = 1,320'



- POD
- Pipeline
- - - - - Creek/Ditch
- ▨ Reservoir
- Section
- - - - - Quarter Quarter

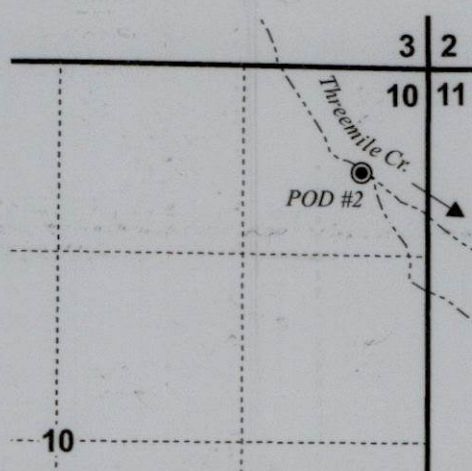
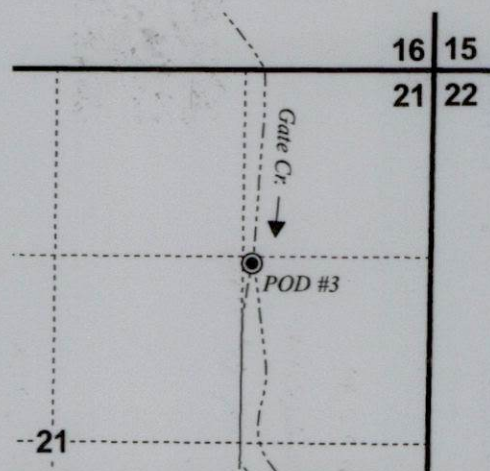


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OWRD



CLAIM OF BENEFICIAL USE MAP Page 2 of 3

AVIAN LAKES RANCH, LLC

Ap S-59862 Permit S-50014

Date: 11/12/2021

Project #21041

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

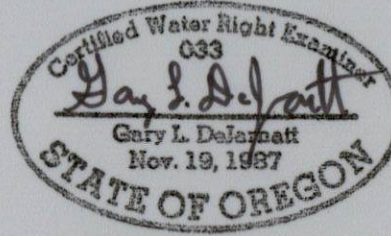
WATER RIGHT SERVICES, LLC

PO BOX 1830, BEND, OR 97709

WWW.OREGONWATER.US CCB # 197121

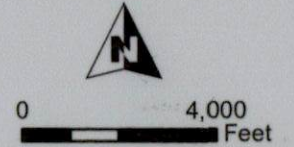
johnshort@usa.com 541-389-2837

- RCDIC Pipeline
- - - - - Ditch
- Township
- Section
- ▨ Rock Creek Reservoir
- Bulge-in-System
- ▧ Place of Use

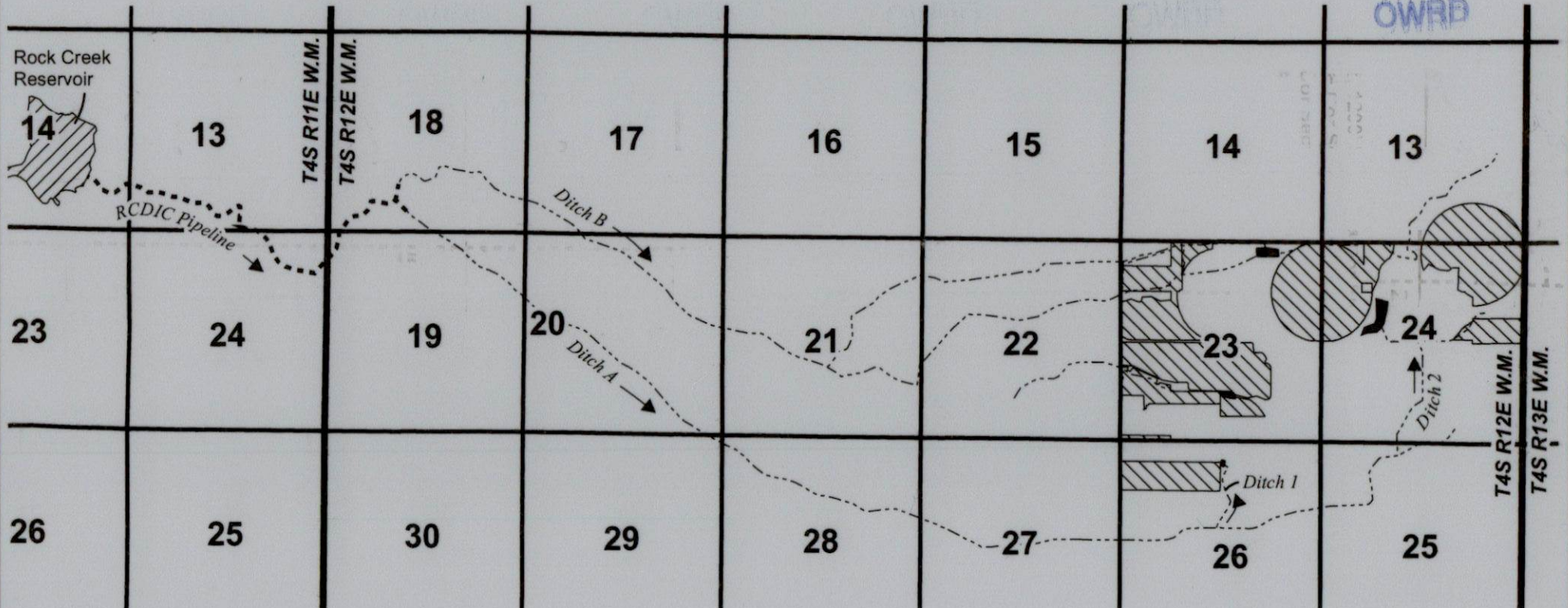


RENEWAL DATE 12/31/2021

**T4S R11E &
T4S R12E, WM**
WASCO COUNTY, OREGON



1" = 4,000'
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CLAIM OF BENEFICIAL USE MAP
AVIAN LAKES RANCH, LLC

Page 3 of 3

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WATER RIGHT SERVICES, LLC
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