

CLAIM OF BENEFICIAL USE for Groundwater 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

**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>

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.

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>

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SECTION 1 GENERAL INFORMATION

Salem, OR

1. File Information:

APPLICATION #	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
G-15834	G-17506	T-12010

2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME Roger Nicholson / Agri-Water LLC		PHONE NO.	ADDITIONAL CONTACT No.
ADDRESS P.O. Box 458			
CITY Fort Klamath	STATE OR	ZIP 97626	E-MAIL roger@fortklamath.net

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 Same as above		
ADDRESS		
CITY	STATE	ZIP
Fort Klamath	OR	97626

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ADDITIONAL PERMIT HOLDER OF RECORD Wood River District Improvement Co.		
ADDRESS P.O. Box 503		
CITY Fort Klamath	STATE OR	ZIP 97626

4. Date of Site Inspection:

9/13/2024

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Roger Nicholson	9/13/2024	Owner

6. County:

Klamath

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

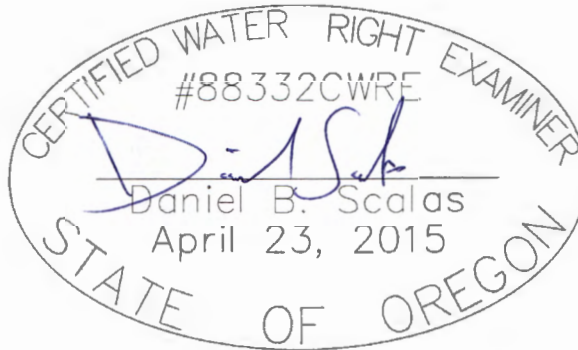
ADDITIONAL PERMIT HOLDER OF RECORD Wood River District Improvement Co.		
ADDRESS P.O. Box 503		
CITY Fort Klamath	CITY Fort Klamath	CITY Fort Klamath

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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RENEWAL 06/30/26

CWRE NAME Daniel B. Scalas		PHONE NO. 541-884-4666	ADDITIONAL CONTACT NO.
ADDRESS 1435 Esplanade Ave.			
CITY Klamath Falls	STATE OR	ZIP 97601	CITY Klamath Falls

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
	Roger Nicholson	Land Owner / Owner of Agri-Water LLC	9/27/24

**SECTION 3
CLAIM DESCRIPTION**

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1. Point of appropriation name or number:

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POINT OF APPROPRIATION (POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
Well 4	KLAM 56638	98077
Well 5	KLAM 57662	105253

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

2. Point of appropriation source, if indicated on permit:

POA NAME OR NUMBER	SOURCE BASIN LOCATED WITHIN	TRIBUTARY
Well 4	Anna Creek Basin	N/A
Well 5	Anna Creek Basin	N/A

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

POA 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)
Well 4	Supplemental Irrigation	Pasture	April 1 – October 1	10.1 CFS
Well 5	Supplemental Irrigation	Pasture	April 1 – October 1	26.8 CFS
Total Quantity of Water Used				10.1 CFS

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

Well 4

Well 4 is a flowing artesian well that is equipped with a 19 HP turbine pump. From Well 4, water is diverted to the west approximately 50' through 14" steel pipes before diverting into Ditch 1. Ditch 1 then delivers water west-southwest for approximately 4,310' before diverting into Ditch 2. Ditch 2 runs southwest for approximately 13,040' while diverting water into smaller irrigation ditches to irrigate all irrigable acres described in this Claim.

Well 5

Well 5 is a flowing artesian well that is equipped with a 30 HP centrifugal booster pump. From Well 5, water is diverted to the east approximately 60' through 16" steel pipes before diverting into Ditch 3. Ditch 3 then delivers water east for approximately 4,340' before diverting into Ditch 4. Ditch 4 runs south for approximately 14,330' while diverting water into smaller irrigation ditches to irrigate all irrigable acres described in this Claim.

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, permit amendment final order, or extension final order? If yes, describe below. **YES**

(e.g. "The permit allowed three points of appropriation. 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.")

This claim is only for the Roger Nicholson / Agri-Water LLC portion of the permit.

6. Claim Summary:

POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
Well 4	9.48 CFS	10.1 CFS	N/A	Supplemental Irrigation	2310.1	758.6
Well 5	9.48 CFS	26.8 CFS	N/A	Supplemental Irrigation	2310.1	758.6

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SECTION 4
SYSTEM DESCRIPTION

Are there multiple POAs?

YES

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

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Well 4 (KLAM 56638)

A. Place of Use

1. Is the right for municipal use?

NO

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
33 S	7.5 E	W.M.	20	NE NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	NW NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SW NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SE NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SW SW			Supplemental Irrigation		39.3
33 S	7.5 E	W.M.	20	SE SW			Supplemental Irrigation		39.3
33 S	7.5 E	W.M.	20	NE SE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	NW SE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SW SE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SE SE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NW NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	SW NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NE NW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NW NW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	SW NW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	SE NW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NE SW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NW SW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NW SE			Supplemental Irrigation		40.0
Total Acres Irrigated									758.6

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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. Groundwater Source Information (Well)

1. Is the appropriation from a well? YES

2. Describe the access port (type and location) or other means to measure the water level in the well:

Pressure gauge 4.0' above ground surface

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

KLAM 56638

C. Groundwater Source Information (Sump)

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1. Is the appropriation from a dug well (sump)? OCT 02 2024 NO

D. Diversion and Delivery System Information

Salem, OR

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 appropriation to the place of use.

1. Is a pump used? YES

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
American Marsh Pumps	14AJ12	309049	Turbine	14"	14"

3. Motor Information:

American Marsh Pumps	19 HP
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4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *If a well, the water level during pumping	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
19 HP	0	13.2'	0.0'	10.1 CFS

5. Provide pump calculations:

See Attachment D for Theoretical Pump Capacity 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

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
14"	50'	Steel	Above Ground

9. Lateral or Handline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
N/A			

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
N/A					

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)
N/A					

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
N/A					

13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
N/A				

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E. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)? NO

F. 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

G. 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

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 – Ditch 1	20.3'	4.7'	1.8'	0.03	14.0'	4310'	0.3%	67.1 CFS
Earth – Ditch 2	41.6'	4.6'	2.1'	0.03	25.0'	13040'	0.2%	116.1 CFS

3. Provide calculations:

See Attachment D for Gravity Flow Ditch 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.

H. Additional notes or comments related to the system:

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A. Place of Use

1. Is the right for municipal use?

Salem, OR

NO

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
33 S	7.5 E	W.M.	20	NE NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	NW NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SW NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SE NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SW SW			Supplemental Irrigation		39.3
33 S	7.5 E	W.M.	20	SE SW			Supplemental Irrigation		39.3
33 S	7.5 E	W.M.	20	NE SE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	NW SE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SW SE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	20	SE SE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NW NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	SW NE			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NE NW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NW NW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	SW NW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	SE NW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NE SW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NW SW			Supplemental Irrigation		40.0
33 S	7.5 E	W.M.	29	NW SE			Supplemental Irrigation		40.0
Total Acres Irrigated									758.6

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. Groundwater Source Information (Well)

1. Is the appropriation from a well? YES

2. Describe the access port (type and location) or other means to measure the water level in the well:

1" access port on west side of well head

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

KLAM 57662

C. Groundwater Source Information (Sump)

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1. Is the appropriation from a dug well (sump)? OCT 02 2024 NO

D. Diversion and Delivery System Information

Salem, OR

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 appropriation to the place of use.

1. Is a pump used? YES

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Pioneer Pump	SC1212S17L72-HO	PP23965	Centrifugal	16"	16"

3. Motor Information:

Teco Westinghouse Motor Company	30 HP
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4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
30 HP	0	6.6'	0.0'	30.1 CFS

5. Provide pump calculations:

See Attachment D for Theoretical Pump Capacity 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

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
16"	60'	Steel	Above Ground

9. Lateral or Handline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
N/A			

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
N/A					

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)
N/A					

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
N/A					

13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
N/A				

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E. Storage

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

NO

F. 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

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)
30"	Aluminum	130	0.3'	55'	0.5%	37.5 CFS
30"	Aluminum	130	0.4'	50'	0.8%	46.1 CFS
30"	Concrete	110	0.2'	50'	0.4%	26.8 CFS

3. Provide calculations:

See Attachment D for Gravity Flow Pipe 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			Received by OWRD

Attach measurement notes.

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G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

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1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

YES

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 - Ditch 3	23.6'	3.0'	2.2'	0.03	6.0'	4340'	0.1%	61.4 CFS
Earth - Ditch 4	37.0'	6.0'	2.9'	0.03	39.0'	14330'	0.3%	226.0 CFS

3. Provide calculations:

See Attachment D for Gravity Flow Ditch 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.

H. Additional notes or comments related to the system:

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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 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 order:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	10/7/2016		
BEGIN CONSTRUCTION (A)	N/A	N/A	N/A
COMPLETE CONSTRUCTION (B)	N/A	N/A	N/A
COMPLETE APPLICATION OF WATER (C)	10/1/2023	1/1/2017	The wells were constructed, totalizing flow meters installed, pumps installed, and water user was ready, willing, and able to apply water to the authorized lands.

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

3. Initial Water Level Measurements:

- a. Was the water user required to submit an initial static water level measurement? YES
- b. What month was the initial measurement to be taken in?
- c. Was the measurement submitted to the Department? YES
- d. If the initial measurement was not submitted, provide that measurement now, if available:

DATE OF MEASUREMENT	MEASUREMENT VALUE	LOCATION	DEPTH

4. Annual Static Water Level Measurements:

- a. Was the water user required to submit annual static water level measurements? YES
- b. Provide the month, or months, the static water level measurement(s) were to be made:
- c. Were the static water level measurements taken in the month(s) required? YES

d. If "YES", were those measurements submitted to the Department? **YES**

e. If the annual measurements were not submitted, provide the measurements now:

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT

5. Pump Test:

a. Did the permit require the submittal of a pump test? **YES**

Ground water permits with priority dates on or after **December 20, 1988**, require the submittal of a pump test prior to issuance of a certificate. In some cases, the permit holder may qualify for a multiple well exemption or an unreasonable burden exemption.

For additional information regarding pump tests see:

<https://www.oregon.gov/OWRD/programs/GWWL/GW/Pages/PumpTestProgram.aspx>

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

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b. Has the pump test been previously submitted to the Department? **YES**

c. Is the pump test attached to this claim? **NO**

d. Has the pump test been approved by the Department? **YES**

e. Has a pump test exemption been approved by the Department? **NO**

**** Claims will not be reviewed until a pump test or exemption has been approved by the Department**

6. Measurement Conditions:

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? **YES**

b. Has a meter been installed? **YES**

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well 4	McCrometer	17-06860-18	Working	7057.59 AF	2017
Well 5	McCrometer	13-05839-16	Working	1325.51 AF	September 2013

7. Recording and reporting conditions:

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

b. Have the reports been submitted? **YES**

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

a. Were there special well construction standards? **YES**

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

c. Was submittal of a water management and conservation plan required? **NO**

d. Was a Well Identification Number (Well ID tag) assigned and attached to the well? **YES**

WELL ID #	DATE ATTACHED TO WELL
-----------	-----------------------

L98077	Unknown
L105253	Unknown

e. Other conditions?

NO

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

"The wells shall be continuously cased and continuously sealed to a minimum depth of 400 feet below land surface."

- Both wells are cased and continuously sealed to a minimum depth of 400 feet below land surface

SECTION 6 ATTACHMENTS

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

ATTACHMENT NAME	DESCRIPTION
Attachment A	Copy of Permit G-17506
Attachment B	Claim of Beneficial Use Map (on mylar)
Attachment C	Claim of Beneficial Use Map (paper copy)
Attachment D	Theoretical Pump Capacity, Gravity Flow Ditch, and Gravity Flow Pipe Calculations
Attachment E	Copy of Well Logs KLAM 56638 & KLAM 57662
Attachment F	Copy of Klamath County Tax Map 33-7.5

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.

The Claim of Beneficial Use Map was prepared from field measurements, NAIP 2024 aerial photography, Klamath County tax maps, and Oregon GLO maps.

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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
- N/A 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
- N/A 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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ATTACHMENT A
Copy of Permit G-17506

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COUNTY OF KLAMATH

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO:

WOOD RIVER
DISTRICT IMPROVEMENT CO
PO BOX 503
FORT KLAMATH, OREGON 97626
(541) 381-2274

ROGER NICHOLSON /
AGRI-WATER LLC
PO BOX 458
FORT KLAMATH, OREGON 97626

This superseding permit is issued to describe an amendment for a change in point of appropriation (Well 1A) proposed under Permit Amendment Application T-12010 and approved by Special Order Vol. 03 Page 81-83, entered October 7, 2016. This permit supersedes Permit G-16886.

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15834

SOURCE OF WATER: SIX WELLS IN ANNA CREEK BASIN

PURPOSE OR USE: SUPPLEMENTAL IRRIGATION OF 2310.1 ACRES

MAXIMUM RATE: 28.88 CUBIC FEET PER SECOND

PERIOD OF USE: APRIL 1 THROUGH OCTOBER 1

DATE OF PRIORITY: SEPTEMBER 5, 2002

WELL LOCATIONS:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
33 S	7.5 E	WM	16	NW SW	WELL 1A - 2856 FEET SOUTH AND 122 FEET EAST FROM THE NW CORNER OF SECTION 16
33 S	7.5 E	WM	16	NW NE	WELL 1 - 270 FEET SOUTH AND 1900 FEET WEST FROM THE NE CORNER OF SECTION 16
33 S	7.5 E	WM	16	SE NW	WELL 2 - 1700 FEET SOUTH AND 2800 FEET WEST FROM THE NE CORNER OF SECTION 16
33 S	7.5 E	WM	16	SE NW	WELL 3 - 2450 FEET SOUTH AND 3760 FEET WEST FROM THE NE CORNER OF SECTION 16
33 S	7.5 E	WM	20	NE NE	WELL 4 - 60 FEET SOUTH AND 670 FEET WEST FROM NE CORNER OF SECTION 20
33 S	7.5 E	WM	19	NW NE	WELL 5 [KLAM 57662] - 20 FEET SOUTH AND 200 FEET EAST FROM THE N¼ CORNER OF SECTION 19

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The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

WOOD RIVER DISTRICT IMPROVEMENT CO.									
SUPPLEMENTAL IRRIGATION									
Township	Range	Meridian	Sec	¼ ¼	Lot	Acres			
33	S	7.5	E	W.M.	9	SE SE	13		2.6
33	S	7.5	E	W.M.	10	SW SW	21		7.5
33	S	7.5	E	W.M.	10	SW SW			33.0
33	S	7.5	E	W.M.	10	SE SW			10.1
33	S	7.5	E	W.M.	15	NE NW	10		22.7
33	S	7.5	E	W.M.	15	NW NW	11		40.0
33	S	7.5	E	W.M.	15	SW NW	12		33.8
33	S	7.5	E	W.M.	15	SE NW	13		1.1
33	S	7.5	E	W.M.	16	NE NE	5		34.8
33	S	7.5	E	W.M.	16	NW NE	1		18.5
33	S	7.5	E	W.M.	16	SW NE	2		48.5
33	S	7.5	E	W.M.	16	SE NE	6		31.8
33	S	7.5	E	W.M.	16	SW NW			0.1
33	S	7.5	E	W.M.	16	SE NW			17.0
33	S	7.5	E	W.M.	16	NE SW			40.4
33	S	7.5	E	W.M.	16	NW SW			33.2
33	S	7.5	E	W.M.	16	SW SW			38.4
33	S	7.5	E	W.M.	16	SE SW			38.4
33	S	7.5	E	W.M.	16	NE SE	7		12.0
33	S	7.5	E	W.M.	16	NE SE	3		20.4
33	S	7.5	E	W.M.	16	NW SE			40.8
33	S	7.5	E	W.M.	16	SW SE			37.8
33	S	7.5	E	W.M.	16	SE SE	4		26.4
33	S	7.5	E	W.M.	17	NE SE			14.3
33	S	7.5	E	W.M.	17	SE SE			23.7
33	S	7.5	E	W.M.	21	NE NE			4.5
33	S	7.5	E	W.M.	21	NW NE			26.8
33	S	7.5	E	W.M.	21	NE NW			39.6
33	S	7.5	E	W.M.	21	NW NW			40.0
33	S	7.5	E	W.M.	21	SW NW			40.0
33	S	7.5	E	W.M.	21	SE NW			40.0
33	S	7.5	E	W.M.	21	NE SW			40.0

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WOOD RIVER DISTRICT IMPROVEMENT CO.								
SUPPLEMENTAL IRRIGATION								
Township	Range		Meridian	Sec	¼ ¼		Lot	Acres
33	S	7.5	E	W.M.	21	NW	SW	40.0
33	S	7.5	E	W.M.	21	SW	SW	40.0
33	S	7.5	E	W.M.	21	SE	SW	40.0
33	S	7.5	E	W.M.	29	NE	NE	40.0
33	S	7.5	E	W.M.	29	SE	NE	40.0
33	S	7.5	E	W.M.	29	SW	SW	40.0
33	S	7.5	E	W.M.	29	SE	SW	40.0
33	S	7.5	E	W.M.	29	NE	SE	40.0
33	S	7.5	E	W.M.	29	SW	SE	40.0
33	S	7.5	E	W.M.	29	SE	SE	40.0
33	S	7.5	E	W.M.	30	NE	SE	40.0
33	S	7.5	E	W.M.	32	NW	NE	38.9
33	S	7.5	E	W.M.	32	NE	NW	40.0
33	S	7.5	E	W.M.	32	NW	NW	40.0
33	S	7.5	E	W.M.	32	SW	NW	39.1
33	S	7.5	E	W.M.	32	SE	NW	37.8
33	S	7.5	E	W.M.	32	NW	SW	28.4
33	S	7.5	E	W.M.	32	SW	SW	29.1

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ROGER NICHOLSON / AGRI-WATER LLC								
SUPPLEMENTAL IRRIGATION								
Township	Range		Meridian	Sec	¼ ¼		Lot	Acres
33	S	7.5	E	W.M.	20	NE	NE	40.0
33	S	7.5	E	W.M.	20	NW	NE	40.0
33	S	7.5	E	W.M.	20	SW	NE	40.0
33	S	7.5	E	W.M.	20	SE	NE	40.0
33	S	7.5	E	W.M.	20	SW	SW	39.3
33	S	7.5	E	W.M.	20	SE	SW	39.3
33	S	7.5	E	W.M.	20	NE	SE	40.0
33	S	7.5	E	W.M.	20	NW	SE	40.0
33	S	7.5	E	W.M.	20	SW	SE	40.0
33	S	7.5	E	W.M.	20	SE	SE	40.0
33	S	7.5	E	W.M.	29	NW	NE	40.0
33	S	7.5	E	W.M.	29	SW	NE	40.0
33	S	7.5	E	W.M.	29	NE	NW	40.0
33	S	7.5	E	W.M.	29	NW	NW	40.0

ROGER NICHOLSON / AGRI-WATER LLC									
SUPPLEMENTAL IRRIGATION									
Township		Range		Meridian	Sec	¼ ¼		Lot	Acres
33	S	7.5	E	W.M.	29	SW	NW		40.0
33	S	7.5	E	W.M.	29	SE	NW		40.0
33	S	7.5	E	W.M.	29	NE	SW		40.0
33	S	7.5	E	W.M.	29	NW	SW		40.0
33	S	7.5	E	W.M.	29	NW	SE		40.0

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Permit Amendment T-12010 conditions:

The quantity of water diverted at the new point of appropriation, shall not exceed the quantity of water lawfully available at the original point of appropriation.

Water shall be acquired from the same aquifer as the original point of appropriation.

Original Permit Conditions:

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a totalizing meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

Use of water under authority of this permit may be regulated if analysis of data available after the permit is issued discloses that the appropriation will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife in effect as of the priority date of the right or as those quantities may be subsequently reduced.

To monitor the effect of water use from the well(s) authorized under this permit, the Department requires the water user to make and report annual static water level measurements. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

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Measurements must be made according to the following schedule:

Before Use of Water Takes PlaceInitial and Annual Measurements

The Department requires the permittee to submit an initial water level measurement in the month specified above once well construction is complete and annually thereafter until use of water begins; and

After Use of Water has BegunSeven Consecutive Annual Measurements

Following the first year of water use, the user shall submit seven consecutive annual reports of static water level measurements. The first of these seven annual measurements will establish the reference level against which future annual measurements will be compared. Based on an analysis of the data collected, the Director may require that the user obtain and report additional annual static water level measurements beyond the seven year minimum reporting period. The additional measurements may be required in a different month. If the measurement requirement is stopped, the Director may restart it at any time.

All measurements shall be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed well constructor or pump installer licensed by the Construction Contractors Board and be submitted to the Department on forms provided by the Department. The Department requires the individual performing the measurement to:

- (A) Identify each well with its associated measurement; and
- (B) Measure and report water levels to the nearest tenth of a foot as depth-to-water below ground surface; and
- (C) Specify the method used to obtain each well measurement; and
- (D) Certify the accuracy of all measurements and calculations submitted to the Department.

The water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s) if annual water level measurements reveal any of the following events:

- (A) An average water level decline of three or more feet per year for five consecutive years; or
- (B) A water level decline of 15 or more feet in fewer than five consecutive years; or
- (C) A water level decline of 25 or more feet; or
- (D) Hydraulic interference leading to a decline of 25 or more feet in any neighboring well with senior priority.

The period of non or restricted use shall continue until the annual water level rises above the decline level which triggered the action or until the Department determines, based on the permittee's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit. If more than one well is involved, the water user may submit an alternative measurement and reporting plan for review and approval by the Department.

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The well(s) shall be continuously cased and continuously sealed to a minimum depth of 400 feet below land surface. However, if during well construction, it becomes apparent that the well(s) can be constructed to eliminate hydraulic connection with surface water in a manner other than specified in the permit, the permittee can contact a Department Hydrogeologist or the Ground Water/Hydrology Section Manager to request a modification of the permit condition. The permittee shall submit, in writing, a rough well log and a proposed construction design for approval by the Department. The new depth of casing and seal will be incorporated into the permit file and any certificate issued for application G-15834.

STANDARD CONDITIONS

If the number, location, or construction of any well deviates from that proposed in the permit application or permit conditions, the conclusions of the Proposed Final Order and Final Order under which this permit was granted may be revised, conditions may be appropriately revised, or this permit may not be valid.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water was to be made on or before October 1, 2008, when the permit was originally issued on August 16, 2004. By Extension of Time Final Order dated June 23, 2009, the complete application to the use of the water was extended to on or before October 1, 2018. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued October 7, 2016



Dwight French, Water Right Services Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

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REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.

ATTACHMENT B
Claim of Beneficial Use Map (on mylar)

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ATTACHMENT C
Claim of Beneficial Use Map (paper copy)

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ATTACHMENT D
**Theoretical Pump Capacity, Gravity Flow
Ditch, and Gravity Flow Pipe Calculations**

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Ditch Capacity Calculator

Date: 9/24/2024

using Manning's Formula

Ditch 1

Data Entry (fill in underlined blanks)

Top Width = 20.3 feet
Bottom Width = 4.7 feet
Depth = 1.8 feet
Fall = 14 feet per 4310 feet of distance
Grade = 0.00324826 , or 0.3%
n Factor = 0.03

Results calculated

Area of cross-section = 22.5 square feet
Wetted Perimeter = 20.71 feet
Hydraulic Radius = 1.08643
Velocity = 2.983 feet per second

Calculated Ditch Capacity = 67.1 cubic feet per second

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Ditch Capacity Calculator

using Manning's Formula

Date: 9/24/2024

Ditch 2

Data Entry (fill in underlined blanks)

Top Width = 41.6 feet
Bottom Width = 4.6 feet
Depth = 2.1 feet
Fall = 25 feet per 13040 feet of distance
Grade = 0.00191718 , or 0.2%
n Factor = 0.03

Results calculated

Area of cross-section = 48.51 square feet
Wetted Perimeter = 41.8376 feet
Hydraulic Radius = 1.15948
Velocity = 2.394 feet per second

Calculated Ditch Capacity = 116.1 cubic feet per second

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Ditch Capacity Calculator

Date: 9/24/2024

using Manning's Formula

Ditch 3

Data Entry (fill in underlined blanks)

Top Width = 23.6 feet
Bottom Width = 3 feet
Depth = 2.2 feet
Fall = 6 feet per 4340 feet of distance
Grade = 0.00138249 , or 0.1%
n Factor = 0.03

Results calculated

Area of cross-section = 29.26 square feet
Wetted Perimeter = 24.0647 feet
Hydraulic Radius = 1.21589
Velocity = 2.098 feet per second

Calculated Ditch Capacity = 61.4 cubic feet per second

9/24/24
Sheet 03

Ditch Capacity Calculator

Date: 9/24/2024

using Manning's Formula

Ditch 4

Data Entry (fill in underlined blanks)

Top Width = 37 feet
Bottom Width = 6 feet
Depth = 2.9 feet
Fall = 39 feet per 14330 feet of distance
Grade = 0.00272156 , or 0.3%
n Factor = 0.03

Results calculated

Area of cross-section = 62.35 square feet
Wetted Perimeter = 37.5379 feet
Hydraulic Radius = 1.66099
Velocity = 3.624 feet per second

Calculated Ditch Capacity = 226.0 cubic feet per second

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Pump Capacity Calculation Sheet

using Department designed formula:

Date: 9/30/2024

Well 4

$$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 19
Efficiency = 7.04
Lift = 13.2
PSI = 0

Results Calculated

(hp)(efficiency) = 133.76
Head based on psi = 0.0
Total dynamic head = 13.2
(head + lift)

Pump Capacity = 10.13 cubic feet per second

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Pump Capacity Calculation Sheet

using Department designed formula:

Date: 9/30/2024

Well 5

$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 30
Efficiency = 6.61
Lift = 6.6
PSI = 0

Results Calculated

$(hp)(\text{efficiency}) = 198.3$
Head based on psi = 0.0
Total dynamic head = 6.6
(head + lift)

Pump Capacity = 30.05 cubic feet per second

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09/30/2024

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Pipe Capacity Calculator

Date: 9/30/2024

for pipes flowing full, using the Hazen-Williams Formula

Well 5

Data Entry (fill in underlined blanks)

Interior Diameter = 30 inches, or 2.5 feet
Roughness Coefficient (C) = 130
Fall = 0.3 feet per 55 feet of distance
Grade = 0.00545455, or 0.5%

Results calculated

Area of cross-section = 4.90874 square feet
Wetted Perimeter = 7.85398 feet
Hydraulic Radius = 0.625
Velocity = 7.64034 feet per second

Pipe Capacity = 37.504 cubic feet per second

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Pipe Capacity Calculator

Date: 9/30/2024

for pipes flowing full, using the Hazen-Williams Formula

Well 5

Data Entry (fill in underlined blanks)

Interior Diameter = 30 inches, or 2.5 feet
Roughness Coefficient (C) = 130
Fall = 0.4 feet per 50 feet of distance
Grade = 0.008, or 0.8%

Results calculated

Area of cross-section = 4.90874 square feet
Wetted Perimeter = 7.85398 feet
Hydraulic Radius = 0.625
Velocity = 9.39576 feet per second

Pipe Capacity = 46.121 cubic feet per second

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Pipe Capacity Calculator

Date: 9/30/2024

for pipes flowing full, using the Hazen-Williams Formula

Well 5

Data Entry (fill in underlined blanks)

Interior Diameter = 30 inches, or 2.5 feet
Roughness Coefficient (C) = 110
Fall = 0.2 feet per 50 feet of distance
Grade = 0.004, or 0.4%

Results calculated

Area of cross-section = 4.90874 square feet
Wetted Perimeter = 7.85398 feet
Hydraulic Radius = 0.625
Velocity = 5.46795 feet per second

Pipe Capacity = 26.841 cubic feet per second

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ATTACHMENT E
Copy of Well Logs KLAM 56638 & KLAM 57662

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KLAM 56638

STATE OF OREGON
WATER SUPPLY WELL REPORT
 (as required by ORS 537.765)

WELL I.D. # L 98077
 START CARD # 199642

Instructions for completing this report are on the last page of this form.

(1) **LAND OWNER**
 Name Robert Nicholson, Agri-Water LLC Well Number Wood River Dist
 Address Box 458
 City Fort Klamath State OR Zip 97646

(2) **TYPE OF WORK** New Well
 Deepening Alteration (repair/recondition) Abandonment Conversion

(3) **DRILL METHOD**
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Other _____

(4) **PROPOSED USE**
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other _____

(5) **BORE HOLE CONSTRUCTION** Special Construction: Yes No
 Depth of Completed Well 18 1/2 ft.
 Explosives used: Yes No Type _____ Amount _____

BORE HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or Pounds
<u>10 3/4</u>	<u>0</u>	<u>18 1/2</u>	<u>BENTONITE</u>	<u>0</u>	<u>18 1/2</u>	<u>15</u>

How was seal placed: Method A B C D E
 Other POURED DRY
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) **CASING/LINER**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: <u>6"</u>	<u>+1 1/2</u>	<u>18 1/2</u>	<u>250</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used Inside Outside None
 Final location of shoe(s) _____

(7) **PERFORATIONS/SCREENS**

Perforations Method _____
 Screens Type _____ Material _____

From	To	Slot Size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) **WELL TESTS: Minimum testing time is 1 hour**
 Pump Bailer Air Flowing Artesian
 Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____
DRY

Temperature of water _____ Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) **LOCATION OF WELL (legal description)**
 County KLAMATH
 Tax Lot R 76526 Lot _____
 Township 33 N or S Range 7 1/2 E or W WM
 Section 20 NE 1/4 NE 1/4

Lat _____ or _____ (degrees or decimal)
 Long _____ or _____ (degrees or decimal)
 Street Address of Well (or nearest address) NICHOLSON RD

(10) **STATIC WATER LEVEL**
 _____ ft. below land surface. Date _____
 _____ ft. below land surface. Date _____
 Artesian pressure _____ lb. per square inch Date _____

(11) **WATER BEARING ZONES**
 Depth at which water was first found 3'

From	To	Estimated Flow Rate	SWL
<u>3'</u>	<u>15'</u>	<u>20+</u>	<u>3'</u>

(12) **WELL LOG** Ground Elevation 4175

Material	From	To	SWL
<u>SANDY LOAM - GRAVEL</u>	<u>0</u>	<u>5</u>	<u>3</u>
<u>GRAVEL - SAND - CLAY</u>	<u>5</u>	<u>15</u>	<u>3</u>
<u>gray clay</u>	<u>15</u>	<u>18 1/2</u>	

Received by OWRD
 OCT 02 2024
 Salem, OR

Date Started 8-26-08 Completed 8-26-08

(unbonded) **Water Well Constructor Certification**
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
 WWC Number _____ Date _____

(bonded) **Water Well Constructor Certification**
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
 WWC Number 1355 Date 8-26-08
 Signed Arthur L Jay

RECEIVED
SEP 02 2008

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

KLAM 59741

WELL I.D. LABEL# L 98077
START CARD # 1032062
ORIGINAL LOG # KLAMATH 56638

3/8/2017

(1) LAND OWNER

Owner Well I.D.
First Name ROGER Last Name NICHOLSON
Company WOOD RIVER DISTRICT IMPROVEMENT
Address PO BOX 458
City FORT KLAMATH State OR Zip 97626

(2) TYPE OF WORK

New Well [] Deepening [x] Conversion []
Alteration (complete 2a & 10) [x] Abandonment (complete 5a) []

(2a) PRE-ALTERATION

Casing: Dia + From To Gauge Stl Plstc Wld Thrld
Material From To Amt sacks/lbs
Seal:

(3) DRILL METHOD

Rotary Air [] Rotary Mud [x] Cable [] Auger [] Cable Mud []
Reverse Rotary [] Other []

(4) PROPOSED USE

Domestic [] Irrigation [x] Community []
Industrial/ Commercial [] Livestock [] Dewatering []
Thermal [] Injection [] Other []

(5) BORE HOLE CONSTRUCTION

Depth of Completed Well 695.00 ft. Special Standard [] (Attach copy)

Table with columns: Dia, From, To, Material, SEAL, Amt, lbs. Rows include Bentonite Chips and Cement.

How was seal placed: Method [] A [] B [x] C [] D [] E []
Other []

Backfill placed from ___ ft. to ___ ft. Material _____

Filter pack from ___ ft. to ___ ft. Material _____ Size _____

Explosives used: [] Yes Type _____ Amount _____

(5a) ABANDONMENT USING UNHYDRATED BENTONITE

Proposed Amount Actual Amount

(6) CASING/LINER

Table with columns: Casing, Liner, Dia, +, From, To, Gauge, Stl, Plstc, Wld, Thrld. Rows show casing and liner details.

Shoe [] Inside [] Outside [] Other [] Location of shoe(s) _____

Temp casing [] Yes Dia _____ From + [] To _____

(7) PERFORATIONS/SCREENS

Perforations Method Factory Saw

Table with columns: Perf/Screen, Casing/Liner, Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/pipe size.

(8) WELL TESTS: Minimum testing time is 1 hour

Pump [x] Bailer [] Air [] Flowing Artesian []

Table with columns: Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr). Rows show test results.

Temperature 42 °F Lab analysis [] Yes By _____

Water quality concerns? [] Yes (describe below) TDS amount 39 ppm

Table with columns: From, To, Description, Amount, Units. Rows show TDS and PH data.

(9) LOCATION OF WELL (legal description)

County KLAMATH Twp 33.00 S N/S Range 7.50 E E/W WM
Sec 20 NE 1/4 of the NE 1/4 Tax Lot 4200
Tax Map Number _____ Lot _____
Lat _____ or 42.70443800 DMS or DD
Long _____ or -122.01833300 DMS or DD
Street address of well [x] Nearest address []

(10) STATIC WATER LEVEL

Table with columns: Date, SWL (psi), +, SWL (ft). Rows show existing and completed well levels.

WATER BEARING ZONES

Table with columns: SWL Date, From, To, Est Flow, SWL (psi), +, SWL (ft). Rows show water bearing zones.

(11) WELL LOG

Ground Elevation 4212.00

Table with columns: Material, From, To. Rows list geological layers like Silty Sand & Gravels, Gray/Green clayey silt, etc.

Date Started 9/5/2016 Completed 10/21/2016

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards.

License Number _____ Date 02/20/24
Signed _____

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above.

License Number 1385 Date 2/27/2017
Signed ROBERT BUCKNER (E-filed)
Contact Info (optional) _____

WATER SUPPLY WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

KLAM 59741

OCT 02 2024

3/8/2017

Salem, OR

Map of Hole

STATE OF OREGON
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department
725 Summer St NE, Salem OR 97301
(503)986-0900



LOCATION OF WELL

Latitude: 42.704438 Datum: WGS84

Longitude: -122.018333

Township/Range/Section/Quarter-Quarter Section:

WM 33S 7.5E 20 NENE

Address of Well:

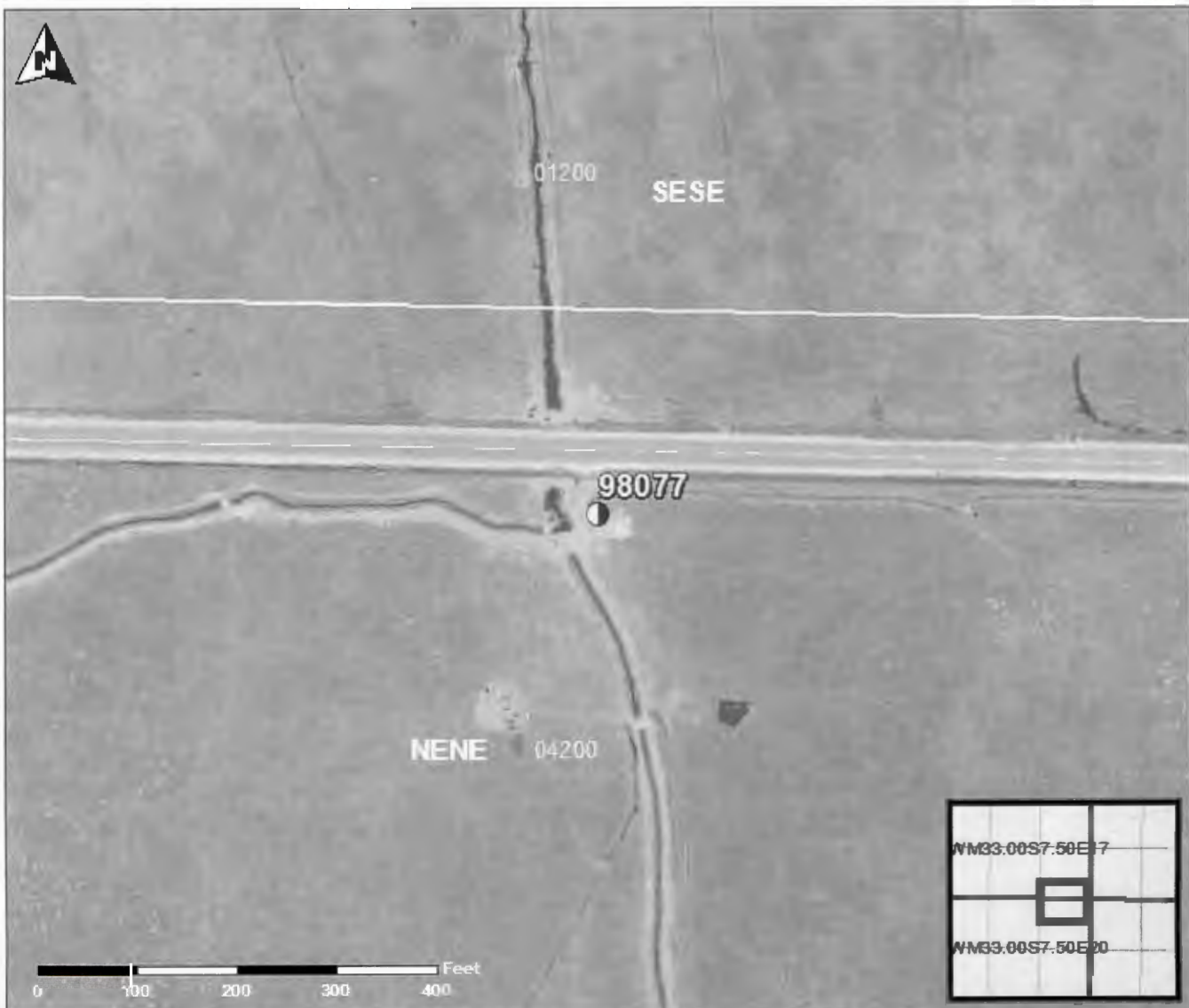
10300 NICHOLSON ROAD

Well Label: 98077

Printed: February 8, 2017

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor



STATE OF OREGON
WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

12-06-2010

WELL LABEL # L 105253

START CARD # 1010831

(1) LAND OWNER
Owner Well I.D.
First Name MR. ROGER Last Name NICHOLSON
Company
Address P.O. BOX 458
City FORT KLAMATH State OR Zip 97626

(2) TYPE OF WORK
[X] New Well [] Deepening [] Conversion
[] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD
[X] Rotary Air [X] Rotary Mud [] Cable [] Auger [] Cable Mud
[] Reverse Rotary [] Other

(4) PROPOSED USE
[] Domestic [X] Irrigation [] Community
[] Industrial/ Commercial [] Livestock [] Dewatering
[] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION
Special Standard [] (Attach copy)
Depth of Completed Well 534.00 ft.

Table with columns: Dia, From, To, Material, SEAL From, To, Amt, lbs. Row 1: 24, 0, 38, Cement, 0, 518, 616, S

How was seal placed: Method [] A [] B [X] C [] D [] E
[] Other

Backfill placed from ft. to ft. Material
Filter pack from ft. to ft. Material Size

Explosives used: [] Yes Type Amount

(6) CASING/LINER
Table with columns: Casing, Liner, Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd. Row 1: 20, 1.5, 38.5, .250, [X], [], [X], []

Shoe [X] Inside [X] Outside [] Other Location of shoe(s) 518
Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type Material

Table with columns: Perf/S, Casing/Screen, Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/pipe size

(8) WELL TESTS: Minimum testing time is 1 hour
[] Pump [] Bailer [] Air [X] Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
860 24

Temperature 39 °F Lab analysis [] Yes By
Water quality concerns? [] Yes (describe below)
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County Klamath Twp 33.00 S N/S Range 7.50 E E/W WM
Sec 19 NW 1/4 of the NE 1/4 Tax Lot 3800
Tax Map Number Lot
Lat Long
[] Street address of well [X] Nearest address
Corner of Hackler and Nicholson Rd., FORT KLAMATH, OREGON 97626

(10) STATIC WATER LEVEL
Table with columns: Date, SWL(psi), SWL(ft). Row 1: 11-17-2010, 1.5, 3.5

WATER BEARING ZONES
Table with columns: SWL Date, From, To, Est Flow, SWL(psi), SWL(ft). Row 1: 07-29-2010, 3, 38, 50, 3

(11) WELL LOG
Table with columns: Material, From, To. Row 1: Sandy Loam & Cobbles, 0, 2

Date Started 07-27-2010 Completed 11-17-2010

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards.
License Number Date
Electronically Filed
Signed

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above.
License Number 1385 Date 12-06-2010
Electronically Filed
Signed ROBERT BUCKNER (E-filed)
Contact Info (optional)

ATTACHMENT F
Copy of Klamath County Tax Maps 33-7.5

Received by OWRD
OCT 02 2024
Salem, OR

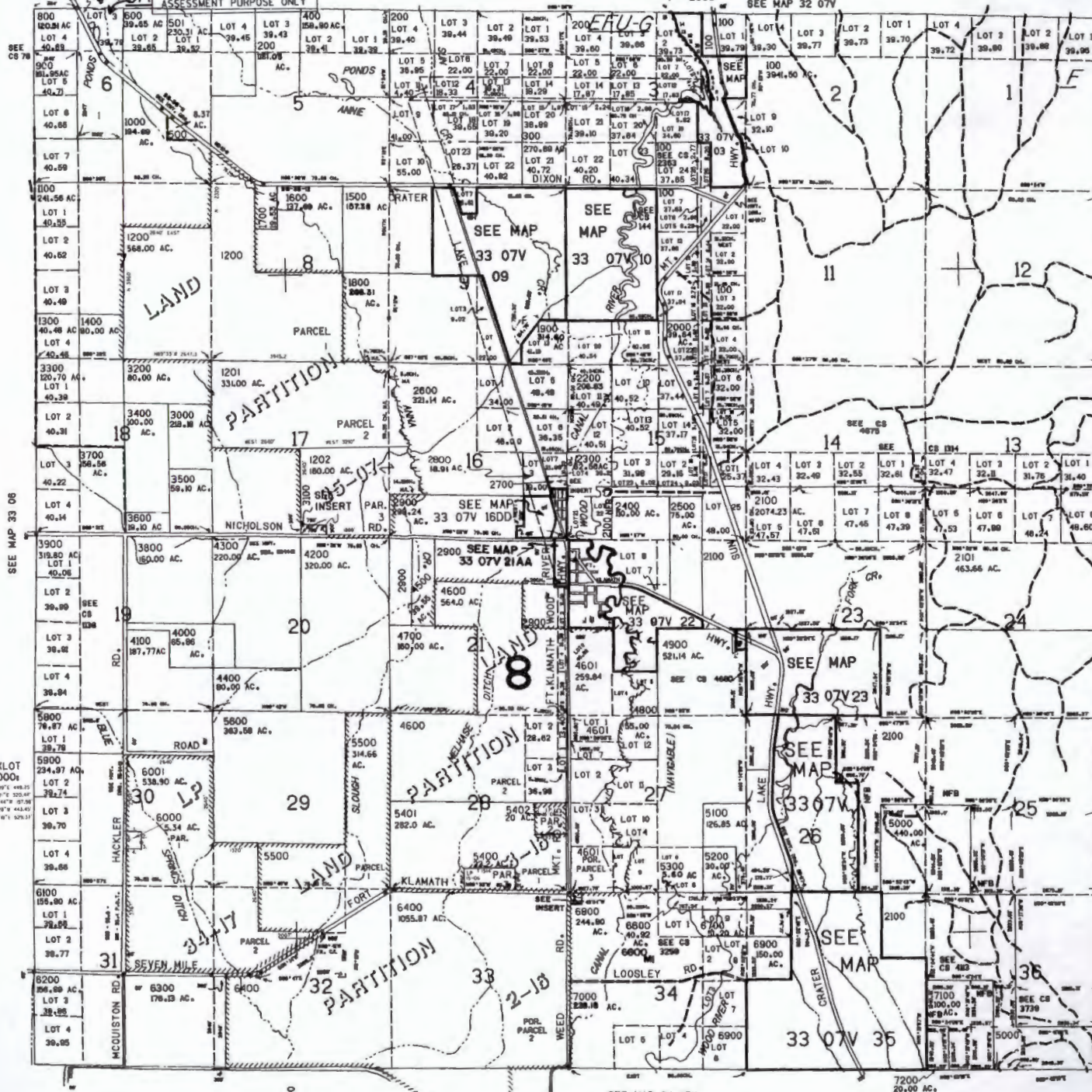
T.33S. R.07 1/2E. W.M.
KLAMATH COUNTY

33 07 V
& INDEX
FORT KLAMATH

REVISED 08-10-2018

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY

1" = 2000'



PARCEL 200
1. 100'-0" WIDE
2. 100'-0" WIDE
3. 100'-0" WIDE
4. 100'-0" WIDE
5. 100'-0" WIDE
6. 100'-0" WIDE
7. 100'-0" WIDE
8. 100'-0" WIDE
9. 100'-0" WIDE
10. 100'-0" WIDE
11. 100'-0" WIDE
12. 100'-0" WIDE

CANCELLED
7300
5700
6500

SEC. 16
1" = 400'



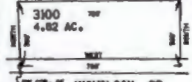
SEE MAP 33 07

Received by OWRD

OCT 02 2024

Salem, OR

SEC. 17
1" = 400'



SEC. 34
1" = 400'

370,000

33 07V
& INDEX
FORT KLAMATH

SEE MAP 34 07V

1800,000

TAXLOT 6000
1. 547'0" WIDE
2. 100'0" WIDE
3. 100'0" WIDE
4. 100'0" WIDE
5. 100'0" WIDE