

# Application for a Permit to Use Groundwater



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

## Water-Use Permit Application Processing

### 1. Completeness Determination

The Department evaluates whether the application and accompanying map contain all of the information required under OAR 690-310-0040 and OAR 690-310-0050 ([www.oregon.gov/owrd/law](http://www.oregon.gov/owrd/law)). The Department also determines whether the proposed use is prohibited by statute. If the Department determines that the application is incomplete, all fees have not been paid, or the use is prohibited by statute, the application and all fees submitted are returned to the applicant.

### 2. Initial Review

The Department reviews the application to determine whether water is available during the period requested, whether the proposed use is restricted or limited by rule or statute, and whether other issues may preclude approval of or restrict the proposed use. An Initial Review (IR) containing preliminary determinations is mailed to the applicant. The applicant has 14 days from the mailing date to withdraw the application from further processing and receive a refund of all fees paid minus \$260. The applicant may put the application on hold for up to 180 days and may request additional time if necessary.

### 3. Public Notice

Within 7 days of the mailing of the initial review, the Department gives public notice of the application in the weekly notice published by the Department at [www.oregon.gov/owrd](http://www.oregon.gov/owrd). The public comment period is 30 days from publication in the weekly notice.

### 4. Proposed Final Order Issued

The Department reviews any comments received, including comments from other state agencies related to the protection of sensitive, threatened or endangered fish species. Within 60 days of completion of the IR, the Department issues a Proposed Final Order (PFO) explaining the proposed decision to deny or approve the application. A PFO proposing approval of an application will include a draft permit, and may request additional information or outstanding fees required prior to permit issuance.

### 5. Public Notice

Within 7 days of issuing the PFO, the Department gives public notice in the weekly notice. Notice includes information about the application and the PFO. Protest must be received by the Department within 45 days after publication of the PFO in the weekly notice. Anyone may file a protest. The protest filing fee is \$410 for the applicant and \$810 for non-applicants. Protests are filed on approximately 10% of Proposed Final Orders. If a protest is filed, the Department will attempt to settle the protest but will schedule a contested case hearing if necessary.

### 6. Final Order Issued

If no protests are filed, the Department issues a Final Order consistent with the PFO. If the application is approved, a permit is issued that specifies the details of the authorized use and any terms, limitations or conditions that the Department deems appropriate.

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# Minimum Requirements Checklist

Minimum Requirements (OAR 690-310-0040, OAR 690-310-0050 & ORS 537.615)

## Include this checklist with the application

Check that each of the following items is included. The application will be returned if all required items are not included. If you have questions, please call the Water Rights Customer Service Group at (503) 986-0900.

- SECTION 1: applicant information and signature
- SECTION 2: property ownership
- SECTION 3: well development
- SECTION 4: water use
- SECTION 5: water management
- SECTION 6: storage of groundwater in a reservoir
- SECTION 7: use of stored groundwater from the reservoir
- SECTION 8: project schedule
- SECTION 9: within a district
- SECTION 10: remarks

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### Attachments:

- Land Use Information Form with approval and signature of local Planning Department (*must be an original*) or signed receipt **Attachment A-Land Use Forms**
- Provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map. Example: **A copy of the deed, land sales contract or title insurance policy.**

### **Attachment B-Legal Description of the property where water is to be diverted**

- Fees - Amount enclosed: \$12,010  
See the Department's Fee Schedule at [www.oregon.gov/owrd](http://www.oregon.gov/owrd) or call (503) 986-0900.

### **Provide a map and check that each of the following items is included: Attachment C**

- Permanent quality and drawn in ink
- Even map scale not less than 4" = 1 mile (example: 1" = 400 ft, 1" = 1320 ft, etc.)
- North Directional Symbol
- Township, Range, Section, Quarter/Quarter, Tax Lots
- Reference corner on map
- Location of each well, and/or dam if applicable, by reference to a recognized public land survey corner (distances north/south and east/west). Each well must be identified by a unique name and/or number.
- Indicate the area of use by Quarter/Quarter and tax lot clearly identified
- Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery-N/A
- Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)

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# Application for a Permit to Use Groundwater



Oregon Water Resources Department  
725 Summer Street NE, Suite A  
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**SIGNATURE**

**SECTION 1: APPLICANT INFORMATION AND**

**Applicant Information**

NAME CITY OF PRINEVILLE ATTN: ERIC KLANN		PHONE (HM)	
PHONE (WK) 541-447-5627	CELL	FAX	
ADDRESS 387 NE 3 <sup>RD</sup> ST			
CITY PRINEVILLE	STATE OR	ZIP 97754	E-MAIL* EKLANN@CITYOFPRINEVILLE.COM

**Agent Information**— The agent is authorized to represent the applicant in all matters relating to this application.

NAME GSI WATER SOLUTIONS, INC., ATTN: ADAM SUSSMAN		PHONE 541-257-9001	FAX
ADDRESS 1600 SW WESTERN BLVD, SUITE 240			CELL
CITY CORVALLIS	STATE OR	ZIP 97333	E-MAIL* ASUSSMAN@GSIWS.COM

Note: Attach multiple copies as needed

\* By providing an e-mail address, consent is given to receive all correspondence from the Department electronically. (Paper copies of the final order documents will also be mailed.)

**By my signature below I confirm that I understand:**

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.



**I (we) affirm that the information contained in this application is true and accurate.**

*Eric Klann*  
Applicant Signature

Eric Klann, City Engineer and Public Works Director  
Print Name and title if applicable

4/11/2018  
Date

For Department Use		
App. No. <u>G-18667</u>	Permit No. _____	Date _____

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*G-18667*

**SECTION 2: PROPERTY OWNERSHIP**

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

Yes

- There are no encumbrances.
- This land is encumbered by easements, rights of way, roads or other encumbrances.

No

I have a recorded easement or written authorization permitting access.

**See Attachment D-Well Access Agreement**

- I do not currently have written authorization or easement permitting access.
- Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
- Water is to be diverted, conveyed, and/or used only on federal lands.

List the names and mailing addresses of all affected landowners (*attach additional sheets if necessary*).

N/A

**You must provide the legal description of:** 1. The property from which the water is to be diverted, 2. Any property crossed by the proposed ditch, canal or other work, and 3. Any property on which the water is to be used as depicted on the map. **See Attachment B-Legal Description**

**SECTION 3: WELL DEVELOPMENT**

WELL NO.	NAME OF NEAREST SURFACE WATER	IF LESS THAN 1 MILE:	
		DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
D-2	Crooked River	~440 ft.	~ +7 ft.
S1-S12		~50-100 ft.	~ +7 ft.
D1 and D3-D13		~50-100 ft.	~ +7 ft.

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2018-04-25

**SECTION 3: WELL DEVELOPMENT, CONTINUED**

**Total maximum rate requested: Up to 2,000 gpm** (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

**The table below must be completed for each source to be evaluated or the application will be returned.** If this is an existing well, the information may be found on the applicable well log. *(If a well log is available, please submit it in addition to completing the table.)* If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner to obtain the necessary information.

OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	PROPOSED USE			
										SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
S-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CROO 54587	<input type="checkbox"/>	6"	+2 to 20 ft.	20 to 40 ft.	0 to 18 ft.	12 ft.	Prineville Alluvial Aquifer (Valley Floor)	40 ft.	up to 250 gpm	3,230 AF <sup>1</sup>
D-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CROO 54593	<input type="checkbox"/>	8"	+2 to 52 ft.	52 to 87 ft.	0 to 50 ft.	4.5 ft.	Prineville Alluvial Aquifer (Valley Floor)	140 ft.	up to 250 gpm	3,230 AF <sup>1</sup>
D-2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CROO 54592	<input type="checkbox"/>	8"	+2 to 60 ft.	60 to 140 ft.	0 to 50 ft.	4.0 ft.	Prineville Alluvial Aquifer (Valley Floor)	140 ft.	up to 250 gpm	3,230 AF <sup>1</sup>
S-2 through S-12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	12"	+2 to 20 ft.	20 to 40 ft.	0 to 18 ft.	N/A	Prineville Alluvial Aquifer (Valley Floor)	40 ft.	up to 250 gpm	3,230 AF <sup>1</sup>
D-3 through D-13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	8"	+2 to 60 ft.	52 to 140 ft.	0 to 50 ft.	N/A	Prineville Alluvial Aquifer (Valley Floor)	140 ft.	up to 250 gpm	3,230 AF <sup>1</sup>

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**See Attachment E-Well Logs**

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\* Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.

\*\* A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.

\*\*\* Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

**1. Maximum proposed annual volume from any combination of the wells in this application**

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**SECTION 4: WATER USE**

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Municipal	Year-Round	3,230 AF

**For irrigation use only:** -N/A

Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: \_\_\_\_\_ Acres Supplemental: \_\_\_\_\_ Acres

If you listed supplemental acres, list the Permit or Certificate number of the underlying primary water right(s):  
\_\_\_\_\_

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: \_\_\_\_\_

- If the use is **municipal or quasi-municipal**, attach **Form M** -See Attachment F
- If the use is **domestic**, indicate the number of households: \_\_\_\_\_  
*Exempt Uses:* Please note that 15,000 gallons per day for single or group domestic purposes and 5,000 gallons per day for a single industrial or commercial purpose are exempt from permitting requirements.
- If the use is **mining**, describe what is being mined and the method(s) of extraction (*attach additional sheets if necessary*): \_\_\_\_\_

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**SECTION 5: WATER MANAGEMENT**

**A. Diversion and Conveyance**

What equipment will you use to pump water from your well(s)?

Pump (give horsepower and type): One 2 hp submersible pump for each well.

Other means (describe): \_\_\_\_\_

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. Water will be diverted from up to 25 wells and conveyed through the City's municipal water distribution system for delivery to the water users served by the City.

**B. Application Method**

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler) (*attach additional sheets if necessary*)

Water will be used for municipal use within the City of Prineville Service Boundary.

**C. Conservation**

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters (*attach additional sheets if necessary*).

The water appropriated under this water right will be for municipal water supply. The City is seeking a more readily accessible and sustainable source to meet increasing demand. Wells will be constructed in a manner to prevent damage to aquatic life and riparian habitat. Constructed wells will be equipped with measurement devices to measure the amount of water diverted.

The City recently developed a Water Management and Conservation Plan as required by Permit G-16416 and is implementing 5-year benchmarks, including developing website content, billing messages, and customer newsletters to promote water conservation and education.

**SECTION 6: STORAGE OF GROUNDWATER IN A RESERVOIR -N/A**

If you would like to store groundwater in a reservoir, complete this section (if more than one reservoir, reproduce this section for each reservoir).

Reservoir name: \_\_\_\_\_ Acreage inundated by reservoir: \_\_\_\_\_

Use(s):

Volume of Reservoir (acre-feet): \_\_\_\_\_ Dam height (feet, if excavated, write "zero"): \_\_\_\_\_

*Note: If the dam height is greater than or equal to 10.0' above land surface AND the reservoir will store 9.2 acre feet or more, engineered plans and specifications must be approved prior to storage of water.*

**SECTION 7: USE OF STORED GROUNDWATER FROM THE RESERVOIR -N/A**

If you would like to use stored groundwater from the reservoir, complete this section (if more than one reservoir, reproduce this section for each reservoir).

Annual volume (acre-feet): \_\_\_\_\_

USE OF STORED GROUNDWATER	PERIOD OF USE
N/A	

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**SECTION 8: PROJECT SCHEDULE**

Date construction will begin: Within 20 years of permit issuance  
 Date construction will be completed: Within 20 years of permit issuance

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Date beneficial water use will begin: Beneficial water use will start as soon as possible, with full beneficial use being made within 20 years of permit issuance.

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**SECTION 9: WITHIN A DISTRICT-**

Check here if the point of appropriation (POD) or place of use (POU) are located within or served by an irrigation or other water district. Water to be served under this application will be served by the City of Prineville, not by any irrigation district.

Irrigation District Name Ochoco Irrigation District	Address 1001 NW Deer St.	
City Prineville	State OR	Zip 97754

Irrigation District Name People's Irrigation Company, Ltd.	Address 4923 Northwest O'Neil Highway	
City Prineville	State OR	Zip 97754

## SECTION 10: REMARKS

Use this space to clarify any information you have provided in the application (*attach additional sheets if necessary*).

The City of Prineville (the City) is submitting this water right application to request a permit to use groundwater from the Prineville Valley Floor Aquifer for municipal purposes year-round within the City of Prineville Service Boundary. The requested permit is intended to increase the reliability of the City's water supply.

The City has existing groundwater rights for use of water from the Prineville Valley Floor Aquifer and the Airport Area Aquifer System. The City's reliable valley water wells include the Barney, Stearns, Stadium, 4<sup>th</sup> Street Deep, Yancey, and Lamonta Wells. The current combined capacity of these wells is approximately 3.055 cfs. From the Airport Area Aquifer System, the City currently has four wells in operation (Airport Wells 1 through 4) which appropriate groundwater at a total rate of up to 3.945 cfs. Thus, the City can reliably produce up to 7.0 cfs.

The City's need for additional water supply was previously established in the process to obtain Permit G-17236 and in the recent approval of the City's Water Management and Conservation Plan. The City projects its water demand to increase over the next 20 years, including increased demand for large commercial uses. The City projects its maximum daily demand will be 11.9 cfs under a "moderate" demand scenario. The City intends to meet 7.0 cfs of this projected maximum daily demand using the water rights described above, resulting in a remaining demand of 4.86 cfs under the "moderate" demand scenario.

The City's water use permit G-17236 allows the use of up to 12.48 cfs of groundwater from the Deschutes Formation. While the City has been developing additional supply under Permit G-17236, limits on the permit (such as a cap of 1,000 gpm at the Airport Area Aquifer), concerns about aquifer sustainability, and the practicality of developing the authorized points of appropriation combined with intense commercial development pressure have led the City to seek the alternative source of supply. For these reasons, the City is submitting this permit application to request groundwater from the Prineville Valley Floor aquifer to meet growing demands in a sustainable manner.

Since this application is intended to replace, in-part, a portion of the water supply authorized by Permit G-17236, the City will voluntarily diminish Permit G-17236 by 4.46 cfs and a commensurate volume (1,322 acre-feet) concurrently with OWRD's issuance of a final order approving this application. Finally, the City understands that use of water under the proposed permit will require mitigation under the Department's Deschutes Basin Groundwater Mitigation Program.

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Attachment A  
Land Use Forms

Application for a Permit to Use Groundwater– City of Prineville

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G-18662

# Land Use Information Form



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

## NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

**This form is NOT required if:**

- 1) Water is to be diverted, conveyed, and/or used only on federal lands; **OR**
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and all of the following apply:
  - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
  - b) The application involves a change in place of use only;
  - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; and
  - d) The application involves irrigation water uses only.

## NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

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# Land Use Information Form



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

Applicant(s): City of Prineville Attn: Eric

Klann Mailing Address: 387 NE 3<sup>rd</sup> St.

City: Prineville State: OR Zip Code: 97754 Daytime Phone: \_\_\_\_\_

## A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
<u>See Attached Maps</u>						<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	<u>Municipal</u>
_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	_____

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

City of Prineville; Crook County

## B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water   
  Water Right Transfer   
  Permit Amendment or Ground Water Registration Modification  
 Limited Water Use License   
  Allocation of Conserved Water   
  Exchange of Water

Source of water:  Reservoir/Pond     Ground Water     Surface Water (name) \_\_\_\_\_

Estimated quantity of water needed: 2,000     cubic feet per second     gallons per minute     acre-feet

Intended use of water:  Irrigation     Commercial     Industrial     Domestic for \_\_\_\_\_ household(s)  
 Municipal     Quasi-Municipal     Instream     Other \_\_\_\_\_

Briefly describe:

The City of Prineville is applying for a permit to use groundwater from the Prineville Valley Floor Aquifer for municipal use.

**Note to applicant:** If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

See bottom of Page 3. →

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# For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

**Please check the appropriate box below and provide the requested information**

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s):
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Serve existing uses

Name: Ann Beier Title: Planning Dir.  
 Signature: A Beier Phone: 541 447 3211 Date: 4/11/2018  
 Government Entity: Crook County

**Note to local government representative:** Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

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**Receipt for Request for Land Use Information**

APR 25 2018

Applicant name: ERIC KLANN OWRD  
 City or County: CITY OF PRINEVILLE Staff contact: MIKE KASBERGER  
 Signature: [Signature] Phone: 541 447-5627 Date: 04-11-18

G-18662

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**This form is NOT required if:**

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Applicant(s): City of Prineville Attn: Eric Klann

Mailing Address: 400 NE 3<sup>rd</sup> St.

City: Prineville State: OR Zip Code: 97754 Daytime Phone: \_\_\_\_\_

## A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
<u>See Attached Maps</u>						<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	<u>Municipal</u>
_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	_____

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

City of Prineville; Crook County

## B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water   
  Water Right Transfer   
  Permit Amendment or Ground Water Registration Modification  
 Limited Water Use License   
  Allocation of Conserved Water   
  Exchange of Water

Source of water:  Reservoir/Pond     Ground Water     Surface Water (name) \_\_\_\_\_

Estimated quantity of water needed: 2,000     cubic feet per second     gallons per minute     acre-feet

Intended use of water:  Irrigation     Commercial     Industrial     Domestic for \_\_\_\_\_ household(s)  
 Municipal     Quasi-Municipal     Instream     Other \_\_\_\_\_

Briefly describe:

The City of Prineville is applying for a permit to use groundwater from the Prineville Valley Floor Aquifer for municipal use.

**Note to applicant:** If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

See bottom of Page 3. →

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# For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

**Please check the appropriate box below and provide the requested information**

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s):
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
Plan Amendment (Water Master Plan)	Ordinance 1237	<input checked="" type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

The adopted Water Master Plan (Ordinance 1237) sites this plan as an improvement to the City's water system making it an outright use. Future structures may need additional land use approval.

Name: Joshua Smith Title: Planning Director  
 Signature: *Joshua Smith* Phone: 541-447-2367 Date: 4/23/2018  
 Government Entity: City Of Prineville

**Note to local government representative:** Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

**Receipt for Request for Land Use Information** RECEIVED

Applicant name: \_\_\_\_\_  
 City or County: \_\_\_\_\_ Staff contact: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Phone: \_\_\_\_\_ Date: \_\_\_\_\_

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Appendix I  
Water Providers within City of Prineville Service Boundary  
Form M- City of Prineville

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PWS ID	PWS Name	Regulating Agency	Owner Type	Contact	Address	City	State	Zip	Phone
OR4101169	BARNES BUTTE HOA	County	Private	BILL ZELEKA	2830 NE TENNESSEE LN	PRINEVILLE	OR	97754	541-447-4417
OR4190647	BLM CHIMNEY ROCK REC SITE (HP)	County	Federal Government	DAVE BROCK	3050 N 3RD STREET	PRINEVILLE	OR	97754	541-416-6684
OR4101315	BOTTERO PARK IMPROVEMENT DIST	County	Local Government	GREG HURLIMAN	19307 SE PARK	PRINEVILLE	OR	97754	503-812-8241
OR4195307	COOLER BAR	County	Private	LARRY GOODMAN	3770 NW LAMONTA ST	PRINEVILLE	OR	97754	541-447-1442
OR4106110	DRY CREEK AIRPARK	County	Private	LARRY ENGLEMAN	2147 SE LANDINGS WAY	PRINEVILLE	OR	97754	541-323-6636
OR4101353	HAPPY HOLLOW WATER COMPANY	County	Private	TREVOR WAETJEN	1600 NW PEACOCK WALK	PRINEVILLE	OR	97754	541-728-6103
OR4101457	HIGH DESERT ESTATES	County	Private	AL ROTH	5703 SE JERRY DR	PRINEVILLE	OR	97754	541-416-2021
OR4101195	HIGHLAND SUBDIVISION WD	County	Private	TOM COOPER	7064 SE DAVID LOOP	PRINEVILLE	OR	97754	541-447-3040
OR4101208	IDLEWAY IMPROVEMENT DISTRICT	County	Private	JULIE WILLIAMS	15018 SE EASY ST	PRINEVILLE	OR	97754	541-362-5645
OR4100678	JASPER KNOLLS WATER DISTRICT	County	Local Government	RON STANLEY	18438 SE JASPER KNOLLS	PRINEVILLE	OR	97754	541-447-7970
OR4194695	JUNIPER GROVE RV PARK	County	Private	KEN OR TRACY HUGHES	11724 SE DAVIS LOOP	PRINEVILLE	OR	97754	541-903-2727
OR4195346	KINGDOM HALL/JWC	County	Private	TOM ANDERSON	2315 SE PAULINA HWY	PRINEVILLE	OR	97754	541-447-5738
OR4105879	MCDUGAL WATER SYSTEM	County	Private	RONALD YORK	2434 NE MCDUGAL CT	PRINEVILLE	OR	97754	541-350-0329
OR4194816	MISSIONARY BAPTIST CHURCH	County	Private	DANIEL BARKER	PO BOX 691	PRINEVILLE	OR	97754	541-447-4689
OR4193965	OCHOCO CHRISTIAN CONFERENCE CEN	County	Mixed (Public/Private)	JOHN DAVIS	33051 NE OCHOCO HWY	PRINEVILLE	OR	97754	541-462-3016
OR4191016	OCHOCO LAKE CO PARK	County	Local Government	DUANE GARNER	296 S MAIN ST	PRINEVILLE	OR	97754	541-447-1209
OR4100680	OCHOCO VALLEY HOME IMPROV DIST	County	Private	BRETT SCOTT	350 ORCHARD LN	PRINEVILLE	OR	97754	541-447-5625
OR4100681	OCHOCO WEST WTR & SAN AUTHORITY	County	Private	RAY HORTON	5488 NW PRINE ROAD	PRINEVILLE	OR	97754	541-447-1934
OR4190775	OPRD JASPER POINT CG	County	State Government	NATE ROBEDEAU	19020 S PARKLAND DR	PRINEVILLE	OR	97754	541-416-0645
OR4191015	OPRD PRINEVILLE RESERVOIR PARK	County	State Government	MIKE SIMONSEN	19020 S PARKLAND DR	PRINEVILLE	OR	97754	541-416-0645
OR4193727	PAULINA ELEMENTARY CO UNIT	County	Local Government	LELAND BLISS	471 NE OCHOCO PLAZA DR	PRINEVILLE	OR	97754	541-447-4419
OR4193728	POWELL BUTTE COMMUNITY CHARTER	County	Local Government	LELAND BLISS	471 NE OCHOCO PLAZA DR	PRINEVILLE	OR	97754	541-447-4419
OR4192154	PRINEVILLE GOLF & COUNTRY CLUB	County	Private	MARY PIERCE	PO BOX 190	PRINEVILLE	OR	97754	541-447-7266
OR4101317	PRINEVILLE MOBILE HOME PARK	County	Private	GEORGE/SANDY NELSON	3050 N MAIN #41	PRINEVILLE	OR	97754	541-598-5447
OR4190518	PRINEVILLE RESERVOIR RESORT	County	Private	RICHARD/JULIE MAYERS	7002 SE DAVIS LOOP RD	PRINEVILLE	OR	97754	541-447-7468
OR4100682	PRINEVILLE, CITY OF	State - Reg 1	Local Government	PATRICK GOEHRING	387 NE 3RD STREET	PRINEVILLE	OR	97754	541-447-5627
OR4100683	QUAIL VALLEY PARK IMPROV DIST	County	Local Government	DICK COSGRIFFE	2261 NE QUAIL VALLEY DR	PRINEVILLE	OR	97754	541-447-6715
OR4194293	RICHIS PLACE	Dept of Ag.	Private	LETA PETTIT	14749 SE JUNIPER CANYON RD	PRINEVILLE	OR	97754	541-610-4079
OR4105239	SHOUN CROSSROADS	County	Private	BRIAN LUTHER	3151 NE TENNESSEE LANE	PRINEVILLE	OR	97754	541-447-4453
OR4194836	SUN ROCKS RV PARK	County	Private	RIANE SCOTT	14900 SE JUNIPER CANYON	PRINEVILLE	OR	97754	541-447-6540
OR4105258	SUNSET HILLS SUBDIVISION	County	Private	KEITH WHITE	950 NE WASHINGTON DR	PRINEVILLE	OR	97754	541-788-0716
OR4100193	TERRACE MOBILE PLAZA	County	Private	GARY/HAYLY LESTER	400 NW TERRACE LN #73	PRINEVILLE	OR	97754	541-447-4464
OR4105998	WESTRIDGE SUBDIVISION	County	Private	WAYNE LOONEY	2753 NW CENTURY DR	PRINEVILLE	OR	97754	541-416-9380

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Appendix II  
Water Rights

Form M- City of Prineville

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G-18662

Exhibit 2-18. City of Prineville Municipal Water Rights Currently in Use.

Well	Application	Permit	Certificate <sup>1</sup> , Claim or Transfer, or Registration	Entity name on water right	Type of Beneficial Use	Priority Date	Source of Water	Authorized Rate (gpm)	Authorized Rate (cfs)	Authorized Rate (mgd)	Authorized Volume (AF)/ acres	Completion Date	Maximum Rate of Withdrawal to Date Instantaneous (cfs)	2015 Withdrawal Annual (MG)	2015 Average Withdrawal Monthly (MG)	2015 Average Withdrawal Daily (MG)	2011- 2015 Average Withdrawal Monthly (MG)	2011-2015 Average Withdrawal Daily (MG)	Comments
Barney Stearns #2	G-6313	G-9154	<del>T-9762</del> 83993	City of Prineville	MU	10/5/1973	Groundwater (alluvium)	700	1.56	1.01			1.56	178.3	14.86	0.489	15.41	0.507	
Stadium	G-12344	G-11993	87714	City of Prineville	MU	12/14/1990	Groundwater (alluvium)	271	0.604	0.39			0.604	13.8	1.15	0.038	1.76	0.058	
Stadium	G-12344	G-11993		City of Prineville	MU	12/14/1990	Groundwater (alluvium)	154	0.343	0.22		10/1/1998	0.343						Extension application pending
4 <sup>th</sup> Deep	U-402	U-372	86889	City of Prineville	MU	12/8/1950	Groundwater (alluvium)	337	0.75	0.48			0.75	20.2	1.68	0.055	3.27	0.108	
4 <sup>th</sup> Shallow	U-396	U-370	88146	City of Prineville	MU	10/11/1950	Groundwater (alluvium)	135	0.301	0.19			0.30	0.4	0.04	0.001	0.01	0.000	Currently not in use due to water quality and/or production issues
Yancey	U-241	U-215	22839	Pacific Power & Light Co.	MU	6/17/1947	Groundwater (alluvium)	359	0.80	0.52			0.80	51.3	4.27	0.140	2.93	0.096	
Lamonta	G-605	G-506	86337	City of Prineville	MU	4/5/1957	Groundwater (alluvium)	346	0.77	0.50			0.77	28.6	2.38	0.078	2.97	0.098	
Airport 1, 2, 3, and 4	G-15974	<del>G-16146</del> <del>G-17089</del> G-17577	T-10378, T-11647, T-12192	City of Prineville	MU	3/31/2003	Groundwater (basalt)	770	1.715	1.11	1242 AF	10/29/2026	1.715	131.0	10.92	0.36	3.13	0.1	
Airport 1, 2, 3, and 4, Wells 5-9	G-16900	G-17236	T-11685	City of Prineville	MU	6/27/2007	Groundwater (basalt)	5601	12.48	8.07	3682.70 AF	11/30/2031	2.228	135.0	11.25	0.37	14.05	0.46	
10 <sup>th</sup> St.	U-140	U-133	15539	City of Prineville	MU	5/16/1941	Groundwater (alluvium)	45	0.1	0.06			0.1	0	0	0	0	0	Currently not in use due to water quality and/or production issues
Ochoco Heights	U-147	U-140	86558	City of Prineville	MU	5/20/1942	Groundwater (alluvium)	359	0.80	0.52			0.80	0	0	0	0	0	Currently not in use due to water quality and/or production issues

gpm = gallons per minute  
cfs = cubic feet per second  
mgd = million gallons per day  
MG = million gallons  
AF = acre-feet  
MU = municipal use

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Exhibit 2-19. City of Prineville Water Rights Currently Not Used for Municipal Water Supply.

Well	Application	Permit	Certificate <sup>1</sup> , Claim or Transfer, or Registration	Entity name on water right	Type of Beneficial Use	Priority Date	Source of Water	Authorized Rate (gpm)	Authorized Rate (cfs)	Authorized Rate (mgd)	Authorized Volume (AF)/ acres	Completion Date	Maximum Rate of Withdrawal to Date Instantaneous (cfs)	2015 Withdrawal Annual (MG)	2015 Average Withdrawal Monthly (MG)	2015 Average Withdrawal Daily (MG)	2011- 2015 Average Withdrawal Monthly (MG)	2011-2015 Average Withdrawal Daily (MG)	Comments
Northridge A	G-13280	G-13280		City of Prineville	GD	2/5/1993	Groundwater (alluvium)	67	0.15	0.10		10/1/2017	0.15	N/A	N/A	N/A	N/A	N/A	Not connected to City's Municipal Water Supply System
Clear Pine	G-13238	G-12541		City of Prineville	Fire Protection, Pollution Abatement, I/M	1/6/1993	Groundwater	1791	3.99	2.58		10/1/2019	3.99	N/A	N/A	N/A	N/A	N/A	Not connected to City's Municipal Water Supply System
Simmons well	G-13068	G-12511	87724	City of Prineville	SUP IR	8/7/1992	Groundwater	301	0.67	0.43	54.2 acres		0.67	N/A	N/A	N/A	N/A	N/A	Not connected to City's Municipal Water Supply System
Freight Depot	G-605	G-506	<del>11026</del> 89853	City of Prineville	MU	4/5/1957	Groundwater (alluvium)	148	0.33	0.21			0.33	N/A	N/A	N/A	N/A	N/A	Not connected to City's Municipal Water Supply System
Stearns #1	G-3139	G-2919	57438	Pacific Power & Light Co.	GD	6/17/1965	Groundwater (alluvium)	112	0.25	0.16			0.25	N/A	N/A	N/A	N/A	N/A	Currently not in use due to water quality and/or production issues
Crooked River Decree			531	City of Prineville	IR, MU, FP	12/31/1879	Ochoco Creek	2244 gpm for irrigation, reasonable amount for municipal	5 cfs for irrigation, reasonable amount for municipal	400 acres for irrigation			5	N/A	N/A	N/A	N/A	N/A	Currently not in use due to treatment requirements

gpm = gallons per minute  
 cfs = cubic feet per second  
 mgd = million gallons per day  
 MG = million gallons  
 AF = acre-feet  
 MU = municipal use  
 GD = group domestic  
 IR = irrigation  
 FP = fire protection  
 SUP IR = supplemental irrigation

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Exhibit 2-20. City of Prineville Surface Water Irrigation Rights.

Application/Decree	Permit	Certificate <sup>1</sup> , Claim or Transfer, or Registration	Entity name on water right	Type of Beneficial Use	Priority Date	Source of Water	Authorized Rate (gpm)	Authorized Rate (cfs)	Authorized Volume (AF)/ acres	Completion Date
S-22677	S-17836	T-7488	City of Prineville	IR	6/30/1947	Crooked River	184	0.41	32.7 acres	
S-32641	S-25991	<del>T-11134</del> 90382	City of Prineville	IR, SUP IR	4/8/1914	Crooked River, Prineville Reservoir	705	1.57	8.3 acres primary, 54.3 acres supplemental	
S-32641	S-25991	<del>T-11134</del> 83850	Bureau of Reclamation	IR, SUP IR	4/8/1914	Crooked River, Prineville Reservoir	471	1.05	21.8 acres primary, 20 acres supplemental	
Crooked River Decree		<del>T-11134</del> 90381	Peoples Irrigation Co.	IR, LV	12/31/1893, 12/31/1895	Crooked River	166	0.37	29.3 acres	
S-15766	S-11619	<del>T-11134</del> 90380	Peoples Irrigation Co.	IR	3/28/1935	Crooked River	139	0.31	25 acres	
Crooked River Decree		<del>T-11134</del> 90383	Peoples Irrigation Co.	IR, DOM, LV	1895	Crooked River	112	0.25	20 acres	
S-15522	S-11411	75485	Peoples Irrigation Co.	Primary IR	9/11/1934	Crooked River	449	1.0	78.4 acres	
S-15629	S-11494	75487	Peoples Irrigation Co.	IR	11/21/1934	Crooked River	72	0.16	12.4 acres	
S-32641	S-25991	<del>68395</del> <del>T-8648</del> 82447	<del>Bureau of Reclamation</del> City of Prineville	SUP IR	4/8/1914	Crooked River and Prineville Reservoir	13	0.03	2.5 acres	
S-15766	S-11619	87546	Peoples Irrigation Co.	IR	3/28/1935	Crooked River	85	0.19	15 acres	
Crooked River Decree		87547	Peoples Irrigation Co.	IR, LV	1893	Crooked River	304	0.6775	54.2 acres	
S-32641	S-25991	87548	US Bureau of Reclamation and Peoples Irrigation Company	IR, SUP IR	4/8/1914	Crooked River and Prineville Reservoir	395 gpm primary; 1522 gpm supplemental	0.88 cfs primary; 3.39 cfs supplemental	32.5 acres; 129.3 acres supplemental	
Crooked River Decree		90397	Peoples Irrigation Co.	IR, DOM, LV	1895	Crooked River	224	0.50	40 acres	
S-32641	S-25991	<del>82247</del> T-12296	US Bureau of Reclamation	IR	4/8/1914	Crooked River and Prineville Reservoir	31	0.07 cfs	2.8 acres (at the City's golf course (Meadow Lakes))	10/1/2017
S-25184	S-19956	33012	Claude Williams	SUP IR	8/25/1950	Crooked River	480	1.07	85.4 acres	
S-32641	S-25991	<del>T-11103</del> 83850	Bureau of Reclamation City of Prineville	SUP IR	4/8/1914	Crooked River and Prineville Reservoir	415	0.925 cfs	37 acres	

gpm = gallons per minute  
 cfs = cubic feet per second  
 AF = acre-feet  
 DOM = domestic  
 LV = livestock  
 IR = irrigation  
 SUP IR = supplemental irrigation

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# Oregon Water Resources Department

## FORM M

### FOR MUNICIPAL AND QUASI-MUNICIPAL WATER SUPPLIES

*[Information needed to make findings related to ORS 537.153(3)(c)]*

- Please supply the required information in the spaces provided below.
- Do not attach reference documents. If there is a need, the Department will request them.
- Your signature is certification that identified information is contained in the reference document(s).
- If adequate space is not available on this form to describe and justify your request for additional water, attach additional pages as necessary.

### Water Supplier Information

Please provide the following information related to the water supplier requesting additional water. It should be noted that the name of a water supplier is often different than the service area (e.g., *City of ABC and XYZ Urban Growth Boundary*).

Cities are not the only municipal corporation; many kinds of special districts are also allowed to purvey water. Applications requesting to use water for Quasi-Municipal use may be submitted by entities including, but not limited to, the following types of governance: a water association; private water company; or (*if under the articles of incorporation*) a broader corporation such as a destination resort. Please attach a copy of the article of incorporation related to your distribution of water.

Name of Water Supplier/Entity	Name of Service Area	Governance	Contact Person
City of Prineville	City of Prineville Service Boundary	City of Prineville	Eric Klann
<b>List any water suppliers within the same service area and/or any self-supplied industrial user.</b> (Attach an extra sheet, if necessary.)			
See Appendix I			RECEIVED

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### Request for Additional Water

Briefly explain the reason(s) for your request for additional water (e.g. *loss of current supply, backup emergency supply, peak demand, growth, or other*). Much of the information needed may be contained in your Water Management and Conservation Plan, Water System Master Plan, or Capital Improvement Plan (*as applicable*).

Reason(s) for the Request for Additional Water	Time Table for Development of the Additional Water	Justification for Water Source & Amount Requested
Develop sustainable water supply in close vicinity to City of Prineville to meet increasing demand.	Within 20 years of permit issuance	The City is seeking a more readily accessible and sustainable water source to meet increasing demand. The City's need for additional water supply was previously established in the process to obtain Permit G-17236 and in the recent approval of the City's Water Management and Conservation Plan. While the City has been developing additional supply under Permit G-17236, limits on the permit (such as a cap of 1,000 gpm at the Airport Area Aquifer), concerns about aquifer sustainability, and the practicality of developing the authorized points of appropriation combined with intense commercial development pressure have led the City to seek the alternative source of supply in this application.

G-18662

## Water Management and Conservation

- Do you have an approved Water Management and Conservation Plan?  Yes  No
- List the “In-Effect” date of your most recently approved Water Management and Conservation Plan: 7/23/2026
- Is your system fully metered?  Yes  No
- Do you perform annual water audits?  Yes  No
- Annual amount of water produced (MG): 558.7  
*(diverted or appropriated)*
- Annual amount of water billed for (MG): 541.1  
*(metered consumption)*
- Identify your system’s current annual water loss: 3%  
*(difference between the amount of water produced and the water billed for)*
- Describe your rate structure and billing schedule: Monthly rate based on meter size plus a commodity rate based on volume of water used.  
*[e.g., commodity rate (uniform rate, declining or inverted block rate); fixed charge with a commodity rate; or a fixed charge and commodity rate using a seasonal differential.]*

## Population

A supplier’s population includes both permanent residential and transient populations. Residential population should be from census data or, if estimated, the method of estimation must be documented. Adopted comprehensive land use plans, water system master plans, or water management and conservation plans are examples of acceptable documentation. Transient populations are routine users of water by employers (*such as manufacturing or call center type facilities*) that increase the demand within a supplier’s service area. Resort areas, regional airports, sea ports, areas with seasonally variable populations, and colleges/universities are also subject to this transient population test. Special events which are rare occasions (*such as parades, rodeos, festivals, etc.*) are not reasons to apply the transient population test.

Below, please indicate the current population to which you serve water, and cite the source of that information. Please also provide the historic population growth rate over the past 10 years and the projected population you anticipate serving in 20 years.

<b>Present Population being Served:</b>	<b>Source of Information</b>
9,462	2017 WMCP
<b>Historic population growth rate over the past 10 years:</b>	<b>Source of Information</b>
-0.92%	2017 WMCP
<b>Projected Population to be Served in 20 Years*:</b>	<b>Source of Estimate/Method Used</b>
19,459 (Year 2035)	2017 WMCP

\*Population projections are based on assumptions of build-out within the City’s UGB. These scenarios were used to calculate an average annual growth rate. While population in the City of Prineville declined sharply in 2010, the population has been increasing since 2013. From 2016 to 2017 Crook County population growth was 4.5%. In recent years, Portland State University population estimates have underestimated population growth in the City.

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## Size of Service Area

The area/size standard includes, but is not limited to, the following: existing boundaries, city limits, urban growth boundaries, urban reserves and zoning maps. Quasi-Municipal applicants must supply a map of the intended service area with an overlay of zoning.

Present Size of Service Area (in Acres)	List Current Zones by Percent of Total (Include any special zoning, such as a shovel-ready industrial zone of more than 50 contiguous acres)	Source of Information
Residential: 759 acres Commercial: 767 acres Large Commercial: 218 acres	Residential: 43.5% Commercial: 44% Large Commercial: 12.5%	2017 WMCP
Projected Size in 20 Years (in Acres)	Anticipated Zoning by Percent	Source of Estimate
Residential: 817 Commercial: 494 Large Commercial: 280	Residential: 51.4% Commercial: 31% Large Commercial: 17.6%	2017 WMCP

## Current Water Supply

In the table below, please describe all of the sources of your current water supply inventory (*both active and inactive*). Identify those sources and associated water rights that are currently in use. Additionally, please identify any water sources/water rights that are not currently used, or used only on a seasonal or emergency basis, and describe the reason(s) why. If any portion of your water supply is being purchased, identify the supplying entity and, if possible, indicate the water source.

Water Source (Include any wholesale purchases of water)	Water Right Numbers (Permit and/or Certificate)	Priority Date	Amount of Water Allowed	Actively Used? (Yes or No) If "No," explain.
<b>See Appendix II</b>				

Is this application for a new water use permit intended to be used as a primary or backup source? Explain how this right will be used to meet current demand and/or how it will be used to increase reliability and resiliency?

The City of Prineville is applying for a new groundwater permit to serve as a more readily accessible and sustainable source to meet increasing demand. The City's existing Permit G-17236 has several points of appropriation that are located a considerable distance from the City of Prineville and development of this source is expected to be difficult and costly. This groundwater permit will be used to meet increasing demand in a practical and sustainable manner. Since this application is intended to replace, in-part, a portion of the water supply authorized by Permit G-17236, the City will voluntarily diminish Permit G-17236 by 4.46 cfs and a commensurate volume (1,322 acre-feet) concurrently with OWRD's issuance of a final order approving this application. The City understands that use of water under the proposed permit will require mitigation under the Department's Deschutes Basin Groundwater Mitigation Program.

Those suppliers that have prepared a WMCP may also wish to attach a copy of their water rights inventory table (typically included in the Water Supplier Description element of a WMCP).

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## Current Water Use

Describe the nature of your current demands for water, as well as the water sources used to meet those needs.

### Current Demands for Water (Year: 2015)

Water Source (Including wholesale water purchases)	Water Right Numbers (Permit and/or Certificate)	Peak or Maximum Demand		Average Demand	
		Maximum Instantaneous Rate (in cfs or gpm)	Maximum Daily Demand (MG)	Average Daily Demand (MG)	Average Annual Demand (MG)
Deschutes Regional Basalt Aquifer (completed Airport Wells 1-4)	G-17577; G-17236	3.945 cfs	3.44 MG	1.53 MG	558.7 MG
Alluvial Aquifer (Valley Floor)	Certificates 83993, 87714, 86889, 22839, and 86337.	3.055 cfs			
Deschutes Regional Basalt Aquifer Wells 5-9 (not yet constructed)	G-17236	0 cfs			

- Per-capita daily demand (in gallons): 155.9  
*(Divide average annual water sales by population to arrive at consumption, and then divide by 365 to get daily values.)*
- Peak season (by month/day): May 1 to September 30
- Peak Season number of hours diverted/pumped (if available): 24 hrs
- Peak season per-capita daily consumption (in gallons): Approx. 2.25 mgd  
*(Divide total peak season demand by population and the number of days during the peak.)*
- Peaking Factor (ratio between max day demand and average day demand): 2.3

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## Projected Water Use

Describe your anticipated water demands for the next 20 years, and identify the sources of water (*existing and/or new*) that will be used to meet those demands. Please also describe the methodology and/or information source used to make the projected water demand estimates.

### Projected Demands for Water in 20 Years (Year: 2035)\*

\*Demand projections provided are to the year 2035. The City's most recent WMCP approved January 25, 2017, estimated future water demand based on underdeveloped acres on parcels within the City of Prineville Urban Growth Boundary (UGB). Any future growth projections beyond the year 2035 using the same methodology would require assumptions about future changes in the UGB boundary.

- Current average per capita demand (in gallons): 161.8 gpcd
- Projected population served in year (2035): 19,459
- Projected average annual demand (MG): 1,216.9 MG
- Projected average daily demand (MG): 5.2 MG
- Current peaking value: 2.3
- Projected maximum daily demand (MG): 7.7 MG

Water Source (Including wholesale water purchases)	Water Right Numbers (Permit and/or Certificate) If a new water source, indicate so.	Projected Peak Daily Demand		Projected Average Daily Demand	
		Maximum Instantaneous Rate (in cfs or gpm)	Maximum Daily Demand (MG)	Average Daily Demand (MG)	Average Annual Demand (MG)
Deschutes Regional Basalt Aquifer (completed Airport Wells 1-4)	Permits G-17577 and G-17236	3.945 cfs	7.7 MG	5.2 MG	1,216.9 MG/Year
Alluvial Aquifer (Valley Floor)	Certificates 83993, 87714, 86889, 22839, and 86337.	3.055 cfs			
Alluvial Aquifer (Valley Floor)	Current application.	4.46 cfs			

Source or Methodology Used for Demand Projections:

See Appendix III

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Describe any issues, deficiencies or limitations associated with your current water supply inventory contributing to the need to acquire additional water in order to satisfy your current and/or projected 20-year demands:

While the City has been developing additional supply under Permit G-17236, limits on the permit (such as a cap of 1,000 gpm at the Airport Area Aquifer), concerns about aquifer sustainability, and the practicality of developing the authorized points of appropriation combined with intense commercial development pressure have led the City to seek the alternative source of supply in this application. The City requires a source of water in closer proximity that will be more practicable and sustainable. Demand continues to increase, including large commercial demands for water.

### Annual Water Use by Type

In the table below, list the quantity of water diverted for each type of water use and the percentage of the total diversion associated with that use type:

Type	Current Use		Use In 20 Years	
	Quantity Diverted:	Percentage of Total Diversion:	Projected Quantity to be Diverted:	Percentage of Total Diversion:
<b>Residential:</b>	348.1 MG/Year	63	714.6 MG/Year	64.6%
<b>Commercial:</b>	155 MG/Year	29%	247.4 MG/Year	22.4%
<b>Institutional:</b>	0	0%	0%	0%
<b>Agricultural:</b>	0	0%	0	0%
<b>Industrial:</b>	0	0%	0	0%
<b>Other: Large Commercial</b> (specify use)	48 MG/Year	8%	144.3 MG/Year	13%
<b>Non-revenue water:</b>	17.6 MG/Year	3%	3%	3%
<b>Total Diverted:</b>	558.7 MG/Year	100%	1,106.3 MG/Year	100%

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Attachment B  
Legal Description

Application for a Permit to Use Groundwater— City of Prineville

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G-1866Z

DEED

The CITY OF PRINEVILLE, a municipal corporation, Grantor, conveys to CROOK COUNTY PARKS & RECREATION DISTRICT, a municipal corporation, Grantee, the real property described as Exhibit "A" attached hereto and by this reference made a part hereof, to have and hold the above described real property so long as Grantee shall continue to exist and so long as all the above real property is used for park or recreation purposes. When said District shall no longer exist or when any of the above described real property is not used for park or recreation purposes, the interest of Grantee, its successors, or assigns as to all of the above described real property shall automatically terminate and revert to the Grantor, its successors or assigns.

If a legal proceeding is commenced against either or both of the parties concerning the right or ability of Grantor to transfer any of the property transferred to Grantee or the manner of said transfer, that Grantor and Grantee shall evaluate the legal proceeding to determine the probability of the proceeding's success. If Grantee or both Grantor and Grantee in good faith believe the legal proceeding will not succeed, Grantee shall defend against the proceeding and shall indemnify Grantor from any and all costs and expenses concerning said proceeding. If Grantor alone believes the legal proceeding will not succeed, it will defend against the proceeding. If both Grantor and Grantee agree legal proceeding will succeed, the property in question shall be transferred to Grantor by Grantee at no cost to Grantor.

Reserving unto Grantor, its successors and assigns, a permanent easement for the placement, repair, maintenance and replacement of an underground waterline on the above described parcel 14 and the permanent right to enter upon said parcel 14 to place, repair, maintain, or replace said waterline. Grantor reserves the permanent right to excavate and refill ditches and trenches for the location of said pipeline, and the further right to remove trees, bushes, undergrowth and other obstructions interfering with the placement, repair, maintenance or replacement of said pipeline, and to do any other act Grantor deems necessary to carry out the purpose of this easement. Grantor shall use its best efforts to not interfere with Grantee's use of said property.

Subject to easements, restrictions, reservations, and rights-of-way of record.

The true and actual consideration for this conveyance is Zero Dollars (\$0.). The consideration for this conveyance consists of other value given which is the whole consideration.

THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY BE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES.

DATED: April 12, 1985.

CITY OF PRINEVILLE

By Ronald E. Scanlon

By Marge Levens

STATE OF OREGON )  
 ) ss.  
County of Crook )

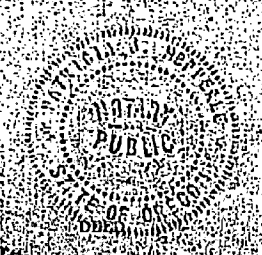
Personally appeared RONALD E. SCANLON and MARGE LEVENS, each being first duly sworn, did say that the former is the Mayor and that the latter is the City Administrator of the City of Prineville, a municipal corporation, and that said instrument was signed and sealed on behalf of said corporation by authority of its City Council, and each of them acknowledged said instrument to be its voluntary act and deed.

Before me this 12th day of April, 1985.

Edward C. Herrick

NOTARY PUBLIC FOR OREGON

My Commission Expires: 9/20/86



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EXHIBIT "A"

Parcel #1

The East 20 feet of Lot One (1), and the East 20 feet of the North 15 feet of Lot Two (2) in Block Three (3) of the First Addition to Prineville, Oregon, according to the official plat thereof on file and of record in the office of the County Clerk for Crook County, Oregon.

Parcel #2

All of Block Number 2 of the Oregon & Western Addition to the City of Prineville, Crook County, State of Oregon, according to the plat and survey thereof now on file and of record in the office of the County Clerk of Crook County, State of Oregon.

Parcel #3

Beginning at a point on the East line of East "J" Street as platted in the Fourth Addition to Prineville, Oregon, said point being 297.42 feet North of the North line of East Third Street, thence North 262.58 feet, thence East to a point on the Westerly bank of Ochoco Creek, thence Southeasterly following the Westerly bank of Ochoco Creek to a point due East of the point of beginning, thence due West to the point of beginning.

Parcel #4

Beginning at the Northwest corner of the Northwest quarter of the Northeast quarter of Section 5 in Township 15 South of Range 16 East of the Willamette Meridian, thence North  $89^{\circ}49'41''$  East along said North line 185.98 feet to a point on the West line of Juniper Street extended to the North, thence South  $7^{\circ}06'$  East along said Juniper Street a distance of 126.08 feet, more or less, to a point on the North line of East Fifth Street, thence West along the North line of said East Fifth Street 203.6 feet, more or less, to a point on the West line of the Northwest quarter of the Northeast quarter of said Section 5, thence North along said West line 122.2 feet, more or less, to the point of beginning.

Parcel #5

Beginning at a point 80 feet West of the Northeast corner of Tract 6 of the Steve W. Yancey Addition to Prineville, Oregon, according to the official plat thereof on file and of record in the office of the County Clerk for Crook County, Oregon, thence West 250 feet, thence South 280 feet, thence East 250 feet, thence North 280 feet to the point of beginning, EXCEPTING the following described tract: Beginning at the intersection of the West boundary of Harwood Street extended and the South boundary of Eighth Street, thence South  $0^{\circ}11'$  East 277.04 feet to a point thence West 57.59 feet to an iron pipe, thence North  $11^{\circ}34'$  East 282.79 feet to the point of beginning.

Parcel #6

Beginning at the Southeast corner of Section 6 in Township 15 South of Range 16 East of the Willamette Meridian, thence North 1129.85 feet along the East line of said Section 6, thence West 547.8 feet, more or less, to a point on the East line of the tract deeded to Columbus J. Johnson by deed recorded in Book 41 of Deeds at page 532, Records of Crook County, Oregon, thence South along the East line of said tract to a point on the South line of said Section 6, thence East along the South line of said Section 6 a distance of 547.8 feet, more or less, to the point of beginning.

Also, beginning at a point on the West line of Section 5 in Township 15 South of Range 16 East of the Willamette Meridian, said point being 1009.85 feet North of the Southwest corner of said Section 5, thence South along the West line of said Section 5 a distance of 100 feet, thence East to a point on the Westerly right of way line of the Crooked River Highway, as now located and constructed, thence Northwesterly along said right of way line to a point due East of the point of beginning, thence West 136.85 feet, more or less, to the point of beginning.

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Parcel #7

A tract of land in Section Five (5) Township 15 South, Range 16 East, W.M., more particularly described as follows: Beginning at the North west corner of Block Sixteen (16) of the First Addition to Prineville, Oregon, running thence North along the produced east line of East "D" Street of said addition, 54 feet; thence South 82°18' East 241.2 feet to the West line of East "E" Street of said addition; thence South along said West line of East "E" Street 22.5 feet to the Northeast corner of said Block 16, thence West along the North line of said Block 16 240 feet to the place of beginning.

Parcel #8

Beginning at a point 140 feet east and 30 feet south of the southeast corner of Block 11, Newsom's First Addition to Prineville, according to the duly recorded plats thereof; thence South to the Southerly boundary of a certain tract of land heretofore conveyed by Chas. Altschul and wife to S. J. Newsom, by quitclaim deed recorded in Deeds 27 page 158, Records of Crook County, Oregon; thence Easterly along said south boundary line to the West boundary of East "E" Street; thence North along the West line of said East "E" Street to a point due East of the place of beginning; thence west to the place of beginning.

Parcel #9

Lots 1, 2, 3, 4, 5 and 6 of Block 15 and all of Blocks 16, 17, 18, 19 and 20 of the Fourth Addition to Prineville, Oregon, according to the official plat thereof on file and of record in the office of the County Clerk for Crook County, Oregon.

Parcel #10

Beginning at the quarter corner of North line of Section 5 of Township 15 South, Range 16 East of the Willamette Meridian, thence West along the township line 1120.2 feet to a point; thence South 120 feet more or less to the North line of East 5th Street, thence East along the North line of East 5th Street 1120.2 feet more or less to a point South of the point of beginning; thence North to the point of beginning.

Parcel #11

All of Block 16 of the First Addition to Prineville, Oregon, according to the official plat thereof on file and of record in the office of the County Clerk for Crook County, Oregon.

Parcel #12

Beginning at a point 30 feet South and 30 feet East from the Southeast corner of Block 11 of Newsom's First Addition to Prineville, Oregon; thence South to the southerly boundary line of a tract of land heretofore conveyed by Chas. Altschul and wife to S. J. Newsom by quitclaim deed, which is recorded in Volume 27 at page 158, Records of Deeds of Crook County, Oregon; thence northwesterly along said southerly boundary line 571 feet more or less, to the north line of Section 5, Township 15 South of Range 16 East of the Willamette Meridian; thence easterly along said Section line to a point due South of the Southeast corner of Block 10 of Newsom's First Addition; thence South 30 feet, thence East 330 feet, more or less, to the point of beginning.

Parcel #13 That part of the following described parcel located North of Ochoco Creek. The entire parcel being described as follows:

Beginning on the Township line between Section 32 in Township 14 South of Range 16 East of the Willamette Meridian and Section 5 in Township 15 South of Range 16 East of the Willamette Meridian; thence South 79°02' East 311.5 feet; thence South 76°01' East 308.2 feet; thence South 82°18' East 32.9 feet thence South along the East line of East D Street in the City of Prineville, Oregon, 54 feet more or less to the Northwest corner of Block 16, First Addition to Prineville, thence West along the North line of Block 8 and 9 of said First Addition 640 feet, more or less to the Northwest corner of said Block 8; thence North 4°12' West 197.5 feet, more or less to the place of beginning; all in Section 5, Township 15 South of Range 16 East of the Willamette Meridian in Crook County, Oregon.



Parcel 714

A portion of the West half of the Northwest quarter of Section 8 in Township 15 South, Range Sixteen East of the Willamette Meridian, Crook County, Oregon, more particularly described as follows:

beginning at the Northwest corner of said Section 8, thence South 00°06'25" East 80.00 feet along the West line of Section 8 to a point on the Easterly right-of-way line of Peoples Irrigation Canal; thence leaving said section line along said canal right-of-way along the following courses: South 34°31'56" East 33.60 feet; thence South 47°47'00" East 74.00 feet; thence South 26°00'00" East 132.00 feet; thence South 41°06'00" East 148.00 feet; thence South 08°44'00" East 164.00 feet; thence South 29°05'00" East 187.00 feet; thence leaving said canal right-of-way South 64°28'00" East 312.00 feet; thence South 11°08'00" East 290.00 feet; thence South 20°26'00" West 118.00 feet; thence South 24°56'00" East 360.00 feet; thence South 49°35'00" East 278.00 feet; thence South 09°03'00" East 175.00 feet; thence South 31°15'00" East 212.00 feet; thence South 44°37'00" East 270.00 feet more or less to a point on the East line of the West one-half of the Northwest quarter of said Section 8; thence Northerly along said line 160 feet more or less to a point of intersection of said line and the Southwesterly right-of-way line of Crooked River Highway; thence North 43°36'47" West 103.00 feet more or less to the beginning point for a curve; said point lying South 20°09'34" East 1245.07 feet from the Northwest corner of said Section 8; thence continuing along said right-of-way along the following courses; along the arc of a 571.70 foot radius curve right 550.22 feet; (the long chord of which bears North 16°02'29" West 529.23 feet); thence North 11°31'48" East 628.04 feet; thence along the arc of a 627.17 foot radius curve left 499.56 feet; (the long chord of which bears North 11°17'20" West 486.46 feet); thence North 34°06'28" West 567.83 feet to a point on the North line of said Section 8; thence leaving said right-of-way line South 89°52'09" West along said section line 810.73 feet to the Northwest corner of said Section 8, said point being the point of beginning and terminus of this description.

KEY PUNCHED  
APR 12 1985

STATE OF OREGON }  
COUNTY OF CROOK, } 69 75575  
I CERTIFY that the Within Instrument of writing  
was received for record on the 12 day of April  
A.D. 1985 at 11:45 o'clock P.M. and recorded in  
Deeds 1177 75575 of said County  
Clegg G. Bangert County Clerk  
By *[Signature]* Deputy

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15	16	8	page 2		201	3		OFFICIAL RECORD OF DESCRIPTIONS OF REAL PROPERTY			
TWP.	RGE.	SEC.	1/4	1/16	PARCEL NUMBER	TYPE	SPEC. INT. IN REAL PROP.	CODE AREA NUMBER	CROOK COUNTY ASSESSOR'S OFFICE		
MAP NUMBER					TAX LOT NUMBER			FORMERLY PART OF 200			

INDENT EACH NEW COURSE TO THIS POINT	11908	DESCRIPTION AND RECORD OF CHANGE	Page 2	DATE OF ENTRY ON THIS CARD	DEED RECORD VOL.	PG.	ACRES REMAINING
--------------------------------------	-------	----------------------------------	--------	----------------------------	------------------	-----	-----------------

Boston Ranch Co., JV 29938      WD      2-25-77      MF 38747      27.23

City of Prineville      V#34421      WD      6-28-77      MF 40098

Code change to 13      V#44335      WD      7-19-77      MF 41355

Crook County Parks & Recreation District      Deed      7-22-77      MF 41243

V51157      Deed      9/25/81

Exc: Canal R/W      0.93      9-10-85      MF 75575

Also: Former Parcel 101      6.73 V#62676      WD      10/6/86      MF 79812      26.30

WD      4-29-93      MF#107044      33.03

A parcel of 1d located in the N<sub>2</sub>NW1/4 of sec 8 T15S R16E WM, Crook Co Ore more part desc as fols:  
 Beg at the intersection of the Sly li of that canal parcel conv'd to Juniper Canyon Water Control Dist a municipal corp by dds MF79810, Recs of Crook Co Ore and the Ely r/w li of the Crooked River St Hwy no 27, sd pt being loc'd S 83° 56' 13" E a dist of 951.79' fr the NW cor of sd sec 8;  
 th N 89° 58' 53" E alg sd Sly canal li a dist of 8.91' to Engineer's Station 138+00 at 50' left;  
 th N 63° 46' 11" E al sd Sly canal li a dist of 55.90' to Engineer's St 137+50 at 25' left;  
 th S 89° 39' 55" E alg sd Sly canal li a dist of 370' to Engineer's St 133+80 at 25' left;  
 th S 0° 20' 5" W alg sd Sly canal li a dist of 35' to Engineer's St 133+80 at 60' left;  
 th S 89° 39' 55" E alg sd Sly canal li a dist of 220' to Eng's St 131+60 at 60' left;  
 th leaving sd canal S 22° 57' 44" E a dist of 356.94';  
 th S 12° 53' 23" E a dist of 133.73';  
 th S 72° 19' 36" W a dist of 57.19';  
 th S 88° 59' 0" W a dist of 457.87' tap on the Ely r/w li of the Crooked River St Hwy no 27;  
 th alg sd Ely li around a 686.99' RC left a dist of 172.72' LC bears N 26° 26' 4" W a dist of 172.27';  
 th N 33° 38' 44" W alg sd Ely li a dist of 413.21' to the POB, containing 6.73 acres m/l.

SUBJECT TO all existing easements and rights of way including canals.

Exc: Parcel 203 V#66021      6.73      11-1-93      Deed      26.30

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Attachment C  
Maps

Application for a Permit to Use Groundwater— City of Prineville

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Attachment D

Well Access Agreement

Application for a Permit to Use Groundwater— City of Prineville

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G-19662

**AGREEMENT**

THIS AGREEMENT ("Agreement") is made this 14 day of <sup>September</sup> ~~August~~, 2017, by and between **Crook County Parks & Recreation District**, of 296 South Main Street, Prineville, Oregon (hereafter "District"), Crook County, a political subdivision of the State of Oregon (hereinafter "County"), and the **City of Prineville**, an Oregon municipal corporation, of 387 NE Third Street, Prineville, Oregon (hereafter "City"). The City, County, and District shall collectively be referred to as the "Parties" and individually as a "Party."

**RECITALS:**

- A. County owns real property in Crook County, Oregon, described as Tax Lot 203 of Tax Map 1516-08 (the "Property").
- B. On September 4, 2013, County and District entered into a Lease Agreement whereby District leased the Property from County for a term of forty (40) years (until August 31, 2053) for the purpose of constructing and maintaining recreational facilities, including but not limited to a baseball and/or soccer field, and other associated facilities, upon the Property.
- C. City desires to drill one or more test wells on portions of the Property to determine if the test wells have the potential to serve as municipal wells and wishes to gain access to the Property in order to facilitate the same.
- D. County and District are willing to allow access to City to drill test wells on the Property and, if the City desires, to grant the City a permanent easement so the City can develop municipal wells.
- E. The Parties desire to memorialize their agreement.

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IN CONSIDERATION of the following covenants and other good and valuable consideration receipt of which is hereby acknowledged, the Parties agree as follows:

1. The above recitals are hereby incorporated by reference.
2. County and District grant to City, including its employees, agents, invitees, and contractors, access to the Property for the purpose of drilling test wells, pump testing the wells for water quantity, and testing the water produced from the wells for quality. District shall approve all proposed well locations prior to drilling.

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3. City shall have three (3) years after the date of this Agreement to complete the drilling and testing operations on the test wells and to determine if City will develop the test wells or any of them into permanent municipal wells.

4. Any test well that City determines will not be used as a municipal well, at District's option will be transferred to the County and District or will be abandoned in accordance with Oregon state rules and regulations and disturbances to the Property caused by the City and/or its employees, agents, invitees, and contractors shall be returned to essentially its original condition at City's expense.

5. If City desires to use the test wells or any of them as permanent municipal wells, the following shall apply:

a. City shall give notice to County and District within three (3) years after the date of this Agreement which test wells if any, the City intends to use as permanent municipal wells.

b. The City shall have a survey prepared for the site of each test well the City intends to use as a permanent municipal well, the location of water lines transporting water from the wells to City's water system, electric lines used to operate the well pumps, and pump houses. Pump houses shall be in areas reasonably acceptable to District.

c. County and District shall execute an easement prepared by City at City's expense granting the City a permanent easement for well or wells, water lines, pump house, electric lines and other accessories.

d. As partial consideration for the access and use of the Property, the City shall indemnify, hold harmless and forever discharge County and District, their elected officials, officers, board of directors, employees, agents, successors, and assigns of and from any and all claims, demands, debts, contracts, expenses, causes of action, lawsuits, damages and liabilities, of every kind and nature, whether known or unknown, in law or equity the County and District ever had or may have, arising from or in any way related to the City, its employees, agents, invitees, and contractors activity of drilling test wells, accessing and/or entering upon the Property for the purpose of drilling and/or operating the test wells.

e. As partial consideration for the access to, use of, and potential easement on the Property, City agrees to extend to the Property the City sewer line within five years (5) from the date of this Agreement. City will be responsible for the placement of such City sewer line to the Property and City will waive sewer SDC and sewer connections fees for the Property. District shall be responsible for the costs of on-site sewer collection lines on the

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Property up to the connection to City's sewer line. City will be responsible for installation of the sewer lines on the Property.

f. City is responsible for any damage to County's or District's infrastructure caused by City, or City's employees, invitees and contractors related to the activities of City pursuant to this Agreement.

g. All areas of the Property excavated pursuant to the terms of this Agreement shall be returned to essentially their original condition at City's expense.

6. This Agreement constitutes the complete and final agreement between the Parties with respect to the matters covered by this Agreement, and replaces any prior oral or written agreements.

7. This Agreement shall be binding on and inure to the benefit of the parties and their respective heirs, personal representatives, successors, and assigns.

8. All notices and other communications under this Agreement must be in writing and shall be deemed to have been given if delivered personally, sent by facsimile (with confirmation), mailed by certified mail, or delivered by an overnight delivery service (with confirmation) to the parties at the addresses described in the first paragraph of this Agreement (or at such other address as a party may designate by like notice to the other party).

Any notice or other communication shall be deemed to be given (a) on the date of personal delivery, (b) at the expiration of the second day after the date of deposit in the United States mail, or (c) on the date of confirmed delivery by overnight delivery service.

9. Any provision or condition of this Agreement may be waived at any time, in writing, by the party entitled to the benefit of such provision or condition. Waiver of any breach of any provision shall not be a waiver of any succeeding breach of the provision or a waiver of the provision itself or any other provision.

10. If any provision of this Agreement shall be invalid or unenforceable in any respect for any reason, the validity and enforceability of any such provision in any other respect and of the remaining provisions of this Agreement shall not be in any way impaired.

11. This Agreement may be executed in one or more counterparts, including electronically transmitted counterparts, which when taken together shall constitute one in the same instrument. Facsimiles and electronic transmittals of the signed document shall be binding as though they were an original of such signed document.

**Crook County Parks & Recreation District City of Prineville**

By: Jeremy D. Logan  
Jeremy Logan, Board Chairperson  
Date: August 11, 2017

[Signature]  
Steve Forrester, City Manager  
Date: \_\_\_\_\_

Betty J. Roppe  
Betty J. Roppe, Mayor  
Date: 8-14-17

By: Darlene W. Henderson  
Darlene Henderson, Board Vice-Chairperson  
Date: August 11, 2017 member

**Crook County Court**  
Seth Crawford  
Seth Crawford, County Judge  
Date: 9-6-17

By: [Signature]  
Casey Kasier, Board Member  
Date: August 11, 2017

Jerry M. Brummer  
Jerry Brummer, County Commissioner  
Date: 9-6-17

Brian Barney  
Brian Barney, County Commissioner  
Date: 9-6-17

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Attachment E  
Well Logs for Existing Wells  
Application for a Permit to Use Groundwater– City of Prineville

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G-18662



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

CROO 54587  
2/16/2018

WELL I.D. LABEL# L 127083  
START CARD # 1037842  
ORIGINAL LOG #

(1) LAND OWNER Owner Well I.D. STW-1  
First Name JIM Last Name NEWTON  
Company CITY OF PRINEVILLE  
Address 387 NE 3RD ST  
City PRINEVILLE State OR Zip 97754

(2) TYPE OF WORK  New Well  Deepening  Conversion  
 Alteration (complete 2a & 10)  Abandonment (complete 5a)

(2a) PRE-ALTERATION  
Dia + From To Gauge Stl Plstc Wld Thrd  
Casing:          
Material From To Amt sacks/lbs  
Seal:

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

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

(5) BORE HOLE CONSTRUCTION Special Standard  (Attach copy)  
Depth of Completed Well 40.00 ft.

BORE HOLE SEAL sacks/lbs

Dia	From	To	Material	From	To	Amt	lbs
12	0	40	Bentonite Chips	0	18	53	S
					Calculated	14	
					Calculated		

How was seal placed: Method  A  B  C  D  E  
 Other POURED DRY

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Filter pack from 18 ft. to 40 ft. Material SAND Size 8/12

Explosives used:  Yes Type \_\_\_\_\_ Amount \_\_\_\_\_

(5a) ABANDONMENT USING UNHYDRATED BENTONITE  
Proposed Amount Actual Amount

(6) CASING/LINER  
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd  
  6  2 20 .250      
Shoe  Inside  Outside  Other Location of shoe(s) \_\_\_\_\_  
Temp casing  Yes Dia 12 From +  1 To 40

(7) PERFORATIONS/SCREENS  
Perforations Method \_\_\_\_\_  
Screens Type JOHNSON Material STAINLESS  
Perf/ Casing/ Screen Dia From To Scrm/slot Slot # of Tele/ Screen Casing Dia From To width length slots pipe size  
Screen Casing 6 20 40 .05

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air  Flowing Artesian  
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  
100 26 38 120  
25 5 4

Temperature 54 °F Lab analysis  Yes By \_\_\_\_\_  
Water quality concerns?  Yes (describe below) TDS amount 111 ppm  
From To Description Amount Units

(9) LOCATION OF WELL (legal description)  
County CROOK Twp 15.00 S N/S Range 16.00 E E/W WM  
Sec 8 NW 1/4 of the NW 1/4 Tax Lot 201  
Tax Map Number \_\_\_\_\_ Lot \_\_\_\_\_  
Lat \_\_\_\_\_ " or 44.28944444 DMS or DD  
Long \_\_\_\_\_ " or -120.84569444 DMS or DD  
 Street address of well  Nearest address  
WEST OF MAIN ST/CROOKED RIVER HWY CROOKED RIVER PARK (STW-1)

(10) STATIC WATER LEVEL  
Date SWL(psi) + SWL(ft)  
Existing Well / Pre-Alteration \_\_\_\_\_  
Completed Well 1/9/2018 \_\_\_\_\_ 11  
Flowing Artesian?  Dry Hole?

WATER BEARING ZONES Depth water was first found 14.00

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
10/24/2017	24	37	20		12

(11) WELL LOG Ground Elevation 2886.00

Material	From	To
CLAY GRAVEL	0	9
SILT GRAY CLAY	9	12
GRAVELS SAND GRAY	12	24
SILT SAND GRAY	24	32
CLAY SAND GRAY	32	37
CLAY GRAY	37	40

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Date Started 10/24/2017 Completed 1/9/2018

(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.

License Number 758 Date 2/16/2018  
Signed THOMAS R PECK (E-filed)

(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.

License Number 1720 Date 2/16/2018  
Signed JACK ABBAS (E-filed)  
Contact Info (optional) \_\_\_\_\_

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version:

G-18662

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

CROO 54593

WELL I.D. LABEL# L 127082  
START CARD # 1037843  
ORIGINAL LOG #

2/19/2018

(1) LAND OWNER  
Owner Well I.D. DTW-1  
First Name JIM Last Name NEWTON  
Company CITY OF PRINEVILLE  
Address 387 NE 3RD ST  
City PRINEVILLE State OR Zip 97754

(2) TYPE OF WORK  New Well  Deepening  Conversion  
 Alteration (complete 2a & 10)  Abandonment (complete 5a)

(2a) PRE-ALTERATION  
Dia + From To Gauge Stl Plstc Wld Thrd  
Casing: Material From To Amt sacks/lbs  
Seal: Material From To Amt sacks/lbs

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

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

(5) BORE HOLE CONSTRUCTION Special Standard  (Attach copy)  
Depth of Completed Well 87.00 ft.

BORE HOLE SEAL  
Dia From To Material From To Amt sacks/lbs

16	0	140	Bentonite Chips	0	4	7	S
					Calculated	6	
			Cement	4	50	70	S
					Calculated	31	

How was seal placed: Method  A  B  C  D  E  
 Other POURED DRY  
Backfill placed from 87 ft. to 140 ft. Material PEA GRAVEL  
Filter pack from 50 ft. to 87 ft. Material SAND Size 6/9  
Explosives used:  Yes Type Amount

(5a) ABANDONMENT USING UNHYDRATED BENTONITE  
Proposed Amount Actual Amount

(6) CASING/LINER  
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd  
Shoe  Inside  Outside  Other Location of shoe(s)  
Temp casing  Yes Dia 16 From + 1 To 73

(7) PERFORATIONS/SCREENS  
Perforations Method  
Screens Type JOHNSON Material STAINLESS  
Perf/ Casing/ Screen Dia From To Scrn/slot Slot # of Tele/ width length slots pipe size

Screen	Casing	8	52	87	.01				
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(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air  Flowing Artesian  
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)

20	20		2
103	54	80	120

Temperature 54 °F Lab analysis  Yes By  
Water quality concerns?  Yes (describe below) TDS amount 572 mg/L  
From To Description Amount Units

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(9) LOCATION OF WELL (legal description)  
County CROOK Twp 15.00 S N/S Range 16.00 E E/W WM  
Sec 8 NW 1/4 of the NW 1/4 Tax Lot 201  
Tax Map Number Lot  
Lat " or 44.28950000 DMS or DD  
Long " or -120.84572222 DMS or DD  
 Street address of well  Nearest address  
WEST OF MAIN ST/CROOKED RIVER HWY  
CROOKED RIVER PARK (DTW-1)

(10) STATIC WATER LEVEL  
Date SWL(psi) + SWL(ft)  
Existing Well / Pre-Alteration  
Completed Well 1/5/2018 4.5  
Flowing Artesian?  Dry Hole?

WATER BEARING ZONES Depth water was first found 14.00  
SWL Date From To Est Flow SWL(psi) + SWL(ft)

10/3/2017	14	27	20		10
10/6/2017	42	58	20		4.5

(11) WELL LOG Ground Elevation 2875.00

Material	From	To
TOP SOIL	0	1
CLAY BROWN	1	9
CLAY SAND	9	14
GRAVELS GRAY SILT COARS MEDIUM	14	27
CLAY SILT GRAVELS	27	38
SILT CLAY	38	42
GRAVELS SAND SILT	42	58
CLAY GRAY	58	88
CLAY GRAY ASH MIX	88	104
CLAY HARD GRAY	104	120
CLAY SOFT STICKY BROWN	120	140

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Date Started 10/2/2017 Completed 1/5/2018

(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.  
License Number 758 Date 2/16/2018  
Signed THOMAS PECK (E-filed)

(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.  
License Number 1720 Date 2/19/2018  
Signed JACK ABBAS (E-filed)  
Contact Info (optional)

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

CROO 54592

WELL I.D. LABEL# L 129186  
START CARD # 1037840  
ORIGINAL LOG #

2/18/2018

(1) LAND OWNER  
Owner Well I.D. DTW-2  
First Name JIM Last Name NEWTON  
Company CITY OF PRINEVILLE  
Address 387 NE 3RD ST  
City PRINEVILLE State OR Zip 97754

(2) TYPE OF WORK  New Well  Deepening  Conversion  
 Alteration (complete 2a & 10)  Abandonment (complete 5a)

(2a) PRE-ALTERATION  
Dia + From To Gauge Stl Plstc Wld Thrd  
Casing:          
Material From To Amt sacks/lbs  
Seal:

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

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

(5) BORE HOLE CONSTRUCTION Special Standard  (Attach copy)  
Depth of Completed Well 140.00 ft.

BORE HOLE SEAL  
Dia From To Material From To Amt sacks/lbs

16	0	140	Bentonite Chips	0	7	14	S
					Calculated	10	
			Cement	7	50	70	S
					Calculated	31	

How was seal placed: Method  A  B  C  D  E  
 Other POURED DRY  
Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Filter pack from 50 ft. to 140 ft. Material SAND Size 50 MESH  
Explosives used:  Yes Type \_\_\_\_\_ Amount \_\_\_\_\_

(5a) ABANDONMENT USING UNHYDRATED BENTONITE  
Proposed Amount \_\_\_\_\_ Actual Amount \_\_\_\_\_

(6) CASING/LINER  
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd  
  8  2 60 .250      
Shoe  Inside  Outside  Other Location of shoe(s) \_\_\_\_\_  
Temp casing  Yes Dia 16 From +  1 To 140

(7) PERFORATIONS/SCREENS  
Perforations Method \_\_\_\_\_  
Screens Type JOHNSON Material STAINLESS  
Perf/ Casing/ Screen Dia From To Scrn/slot Slot # of Tele/  
Screen Casing Dia From To width length slots pipe size

Screen	Casing	8	60	140	.008				
--------	--------	---	----	-----	------	--	--	--	--

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

20	25		2
----	----	--	---

Temperature 54 °F Lab analysis  Yes By \_\_\_\_\_  
Water quality concerns?  Yes (describe below) TDS amount 118 ppm  
From To Description Amount Units

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(9) LOCATION OF WELL (legal description)  
County CROOK Twp 15.00 S N/S Range 16.00 E E/W WM  
Sec 8 NW 1/4 of the NW 1/4 Tax Lot 201  
Tax Map Number \_\_\_\_\_ Lot \_\_\_\_\_  
Lat \_\_\_\_\_ " or 44.28905556 DMS or DD  
Long \_\_\_\_\_ " or -120.84419444 DMS or DD  
 Street address of well  Nearest address  
WEST OF MAIN ST/CROOKED RIVER HWY  
CROOKED RIVER PARK (DTW-2)

(10) STATIC WATER LEVEL  
Date SWL(psi) + SWL(ft)  
Existing Well / Pre-Alteration \_\_\_\_\_  
Completed Well 1/17/2018 \_\_\_\_\_ 4  
Flowing Artesian?  Dry Hole?

WATER BEARING ZONES Depth water was first found 13.00  
SWL Date From To Est Flow SWL(psi) + SWL(ft)

11/7/2017	13	22	20		10
11/8/2017	32	133	20		4

(11) WELL LOG Ground Elevation 2876.00

Material	From	To
FILL	0	2
CLAY SILT BROWN	2	6
CLAY SILT GRAY	6	13
GRAVELS	13	16
GRAVELS TIGHT LARGE	16	23
SILT CLAY GRAY	23	32
SAND FINE GRAY HEAVING	32	56
SAND TIGHT LOOSE LAYERS	56	133
CLAY GRAY	133	140

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Date Started 11/17/2017 Completed 1/17/2018

(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.  
License Number 758 Date 2/18/2018  
Signed THOMAS PECK (E-filed)

(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.  
License Number 1720 Date 2/18/2018  
Signed JACK ABBAS (E-filed)  
Contact Info (optional) \_\_\_\_\_

ORIGINAL - WATER RESOURCES DEPARTMENT

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Attachment F  
Form M

Application for a Permit to Use Groundwater— City of Prineville

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Appendix III  
Methodology Used for Demand Projections

Form M- City of Prineville

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SECTION 5

# Water Supply

*This section satisfies the requirements of OAR 690-086-0170.*

*This rule requires descriptions of the City's current and future water delivery areas and population projections, demand projections for 10 and 20 years, and the schedule for when the City expects to fully exercise its water rights. The rule also requires comparison of the City's projected water needs and the available sources of supply, an analysis of alternative sources of water, and a description of required mitigation actions.*

## Delineation of Service Areas

### OAR 690-086-0170(1)

The City's future service area consists of the lands within the City's UGB, as shown in Exhibit 2-1.

## Population and Demand Projections

### OAR 690-086-0170(1) and (3)

#### Projection Methodology

The City's population and water demand projections were developed using parcel data collected for land-use planning within the City's Urban Growth Boundary (UGB) rather than using an estimated average annual growth rate (AAGR). A projection using parcel data is better suited to the City because investment by large commercial water users may have a significant influence on future water demands, an element not captured by projections based solely on population growth.

The parcel data employed for the projections includes the following information for each parcel:

- City or County Zone (residential, commercial, industrial, etc.)
- Developed (built) acreage
- Underdeveloped (unbuilt) acreage with potential for development
- Unbuildable acreage with no potential for development
- Platted dwelling units (DUs)
- Existing dwelling units (DUs)

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The sum of underdeveloped acres on all parcels within the UGB was calculated for each City and County zoning classification. With the assistance of the City's Senior Planner and Public Works staff, zoning classifications were assigned to the City's water consumption categories (residential, commercial, large commercial) in order to associate 2015 water consumption data (see Exhibit 2-10) with the number of underdeveloped acres. For projection purposes, the large commercial zoning category consists of a subset of lands with the potential for data center development.

Exhibit 5-1 shows projected growth by zoning category and development scenario. The three (low, medium, and high) development scenarios used in both the population and water demand projections in this WMCP provide a wider range of expectations for future population and water demand, which is appropriate given that the City's rate of population

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growth has fluctuated widely over the past 15 years. From 2002-2007, the 5 years prior to the economic recession, the City of Prineville's population grew at a rate of 5.1 percent per year. However, from 2009 to 2010, records show the population declined by over 10 percent. This range will enable the City to better prepare for economic fluctuations in the future. The range of variation is greater for the Large Commercial category because there are fewer large parcels where Large Commercial development could occur, increasing the uncertainty in the projection. The projections assume that 25 percent of underdeveloped acres in each category will be dedicated to public-right of ways, which is based on input from City planners.

**Exhibit 5-1. Development Scenarios by Zoning Category.**

Customer Category	Proportion of Underdeveloped Acres Projected to Develop		
	Low	Moderate	High
Residential	40%	60%	80%
Commercial	40%	60%	80%
Large Commercial	25%	50%	75%

Exhibit 5-2 shows projected acreage for new developments under the three different development scenarios, as well as the number of developed acres as of 2015.

**Exhibit 5-2. Projected New Development through 2035 by Zoning Category (acres).**

Customer Category	2015 Developed Acres	Projected New Development (acres)		
		Low	Moderate	High
Residential	759	516	817	1117
Commercial	767	330	494	659
Large Commercial	218	140	280	420

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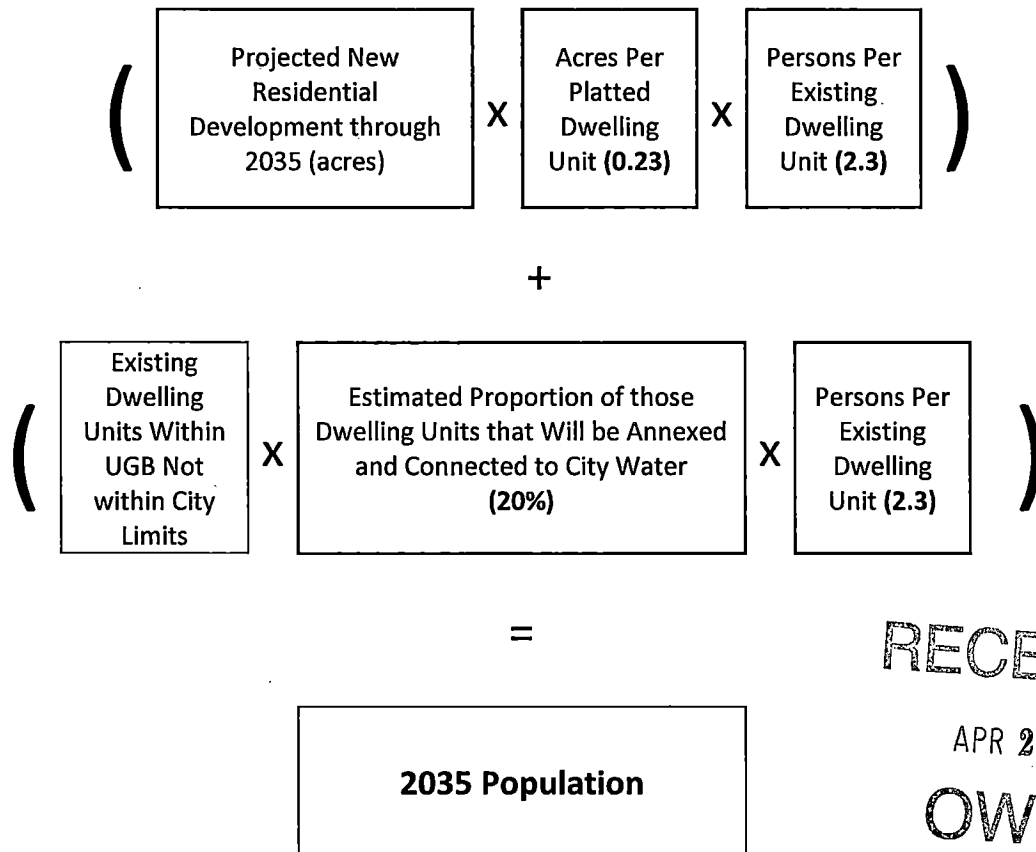
**Population Projections**

Exhibit 5-3 shows projected population at 10-year intervals for each development scenario, as well as the AAGR from 2016 to 2035. The projected population is equal to the population added through new development as well as annexation as the City expands. The City anticipates that existing residential properties would only be annexed if the owner requested connection for City services. Exhibit 5-4 shows how 2035 population was projected.

**Exhibit 5-3. City of Prineville Current and Projected Population.**

Development Scenario	Population			AAGR
	2015 (Current)	2025 (projected)	2035 (projected)	
Low	9,460	12,436	16,348	2.74%
Moderate	9,460	13,568	19,459	3.61%
High	9,460	14,612	22,569	4.35%

**Exhibit 5-4. Calculations for 2035 Population Projection.**



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Using the current and projected population, the AAGR for each development scenario was calculated and used to project the 2035 population. The number of acres per current platted DU (approximately 0.23 acres) and the number of persons per existing DU (2.3), were calculated using current parcel and population data.

Based on the "moderate" development scenario, the City projects a population of 19,459 by 2035. For current planning purposes, the "moderate" projection, with an AAGR of 3.61 percent, aligns most closely with expectations for population growth. This is close to the 3.5 percent rate used for the City's 2006 Water System Master Plan.

The 3.61 percent AAGR differs significantly from the 0.7 percent AAGR for the City utilized in Portland State's Coordinated Population Forecast for Crook County.<sup>3</sup> These projections likely have difficulty accounting for changes in population caused by migration. Based on discussions with the City's Senior Planner, it appears that both current population estimates and population projections are underestimated. For example, the Portland State Population Research Center's Certified Population Estimate for the City in 2009 was 10,370. For 2015, the same estimate was 9,460, 8.8 percent lower than in 2009. However, the Coordinated Population Forecast for Crook County identifies a vacancy rate for owner occupied house of less than 1 percent and for tenant occupied housing of less than 2 percent. Without a significant loss of housing supply or significant reduction in the number of persons per dwelling unit, these population estimates and vacancy rates are incongruous. The City believes that the current population estimate may be underestimating its current population, and that the rate of population growth over the next 20 years will exceed the 0.7 percent forecast.

### Demand Projections

The City developed its 10-year and 20-year maximum-day demand (MDD) and annual demand projections using the same parcel-based approach as for the population projections, with the proportion of acres that will be developed varying depending on the development scenario. **Exhibit 5-5** shows how 2035 water demand was projected. As described in Section 2, above, demand refers to the quantity of water produced at the City's wellheads. Demand includes metered consumption, unmetered uses, and water lost to leakage. For the purpose of developing demand projections, water demand is assumed to be equal to metered water consumption plus a ten percent allowance for non-revenue water. For residential water consumption, the projection also includes additional consumption due to annexation, as shown in **Exhibit 5-4** in the population projection.

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<sup>3</sup> Ruan, Xiaomin, R. Proehl, J. Jurjevich, K. Rancik, J. Kessi, C. Gorecki, and D. Tetric, "Coordinated Population Forecast for Crook County, its Urban Growth Boundaries (UGB), and Area Outside UGBs 2015-2065." Portland State University Population Research Center, June 2015.

Exhibit 5-5. Calculations for 2035 Water Demand Projection.

$$\left( \begin{array}{c} \text{Projected New} \\ \text{Development through} \\ \text{2035 (acres)} \end{array} \right) \times \begin{array}{c} \text{2015 Water Consumption per Acre} \\ \left[ \begin{array}{c} \text{2015 Consumption For} \\ \text{Residential, Commercial,} \\ \text{or Large Commercial} \\ \text{Customer Category (MG)} \end{array} \div \begin{array}{c} \text{Developed} \\ \text{Acres within} \\ \text{Customer} \\ \text{Category} \end{array} \right] \\ + \begin{array}{c} \text{2015 Consumption For} \\ \text{Residential, Commercial,} \\ \text{or Large Commercial} \\ \text{Customer Category (MG)} \end{array} \end{array} \right) \times \begin{array}{c} \text{1.1} \\ \text{(10\% allowance for} \\ \text{Non-Revenue Water)} \end{array} = \begin{array}{c} \text{2035 Demand} \end{array}$$

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April 25, 2018

Dwight French  
Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem, OR 97301

Re: Application for a Permit to Appropriate Groundwater in the name of City of Prineville

Dear Dwight:

Please find enclosed a permit application to appropriate groundwater from up to 25 wells in the Prineville Valley Floor Aquifer for municipal use by the City of Prineville (City). The City is requesting to appropriate groundwater at a rate of up to 4.46 cfs and an annual volume of up to 3,230 acre-feet. Also enclosed is the required fee of \$12,010, which was calculated as follows:

\$1,340–Base Fee  
\$350–Rate Fee of \$350 for a rate of less than 1 cfs  
\$1,400–Each additional cfs or fraction thereof (\$350 x 4)  
\$8,400–Fee for each additional well after the 1<sup>st</sup> (\$350 x 24)  
\$520–Permit Recording Fee

Total = \$12,010

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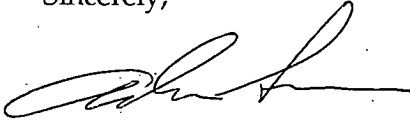
The City is seeking a more readily accessible and sustainable water source to meet increasing demand. The City's need for additional water supply was previously established in the process to obtain Permit G-17236 and in the recent approval of the City's Water Management and Conservation Plan. While the City has been developing additional supply under Permit G-17236, limits on the permit (such as a cap of 1,000 gpm at the Airport Area Aquifer), concerns about aquifer sustainability, and the practicality of developing the authorized points of appropriation combined with intense commercial development pressure have led the City to seek the alternative source of supply in this application.

G-18662

Since this application is intended to replace, in-part, a portion of the water supply authorized by Permit G-17236, the City will voluntarily diminish Permit G-17236 by 4.46 cfs and a commensurate volume (1,322 acre-feet) concurrently with OWRD's issuance of a final order approving this application. Finally, the City understands that use of water under the proposed permit will require mitigation under the Department's Deschutes Basin Groundwater Mitigation Program.

If you have any questions about the enclosed materials, please contact me at 541-257-9001.

Sincerely,



Adam Sussman  
Principal Water Resources Consultant

CC: Eric Klann, City of Prineville

Enclosures: Groundwater application  
Check for application fee in the amount of \$12,010

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G-18662

**From:** SAUTER Jerry K \* WRD  
**To:** [Ingria Jones](mailto:Ingria.Jones)  
**Subject:** RE: Request for map scale waiver for City of Prineville  
**Date:** Thursday, April 5, 2018 9:36:12 AM

---

Perfect!

**JERRY (JK) SAUTER - WATER RIGHTS PROGRAM ANALYST**  
WATER RESOURCES DEPARTMENT - 725 SUMMER STREET NE, SUITE A - SALEM OREGON 97301  
PH. 503-986-0817 / FAX 503-986-0901  
EMAIL: [JERRY.K.SAUTER@OREGON.GOV](mailto:JERRY.K.SAUTER@OREGON.GOV) WEB: [HTTP://WWW.OREGON.GOV](http://WWW.OREGON.GOV)



OREGON  
WATER  
RESOURCES  
DEPARTMENT

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**From:** Ingria Jones [<mailto:ijones@gsiws.com>]  
**Sent:** Thursday, April 05, 2018 9:35 AM  
**To:** SAUTER Jerry K \* WRD  
**Subject:** RE: Request for map scale waiver for City of Prineville

Hi Jerry,

Thank you for your quick reply. We are including a separate "Proposed Points of Appropriation" map at the scale 1"=400 feet, which we will include in the application. We are still finalizing this map.

I will include a copy of this email in our application to verify that the place of use map scale is acceptable.

Thank you!

~Ingria

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APR 25 2018

OWRD

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**From:** SAUTER Jerry K \* WRD [<mailto:Jerry.K.Sauter@oregon.gov>]  
**Sent:** Thursday, April 5, 2018 7:48 AM  
**To:** Ingria Jones <[ijones@gsiws.com](mailto:ijones@gsiws.com)>  
**Subject:** RE: Request for map scale waiver for City of Prineville

Hello Ingria,

The Department will need the Point of Appropriation as an inset or separate at the appropriate scale with the distances to a referenced corner displayed. The place of use is fine at the scale you propose.

Regards,

JK

**JERRY (JK) SAUTER - WATER RIGHTS PROGRAM ANALYST**  
WATER RESOURCES DEPARTMENT - 725 SUMMER STREET NE, SUITE A - SALEM OREGON 97301  
PH. 503-986-0817 / FAX 503-986-0901  
EMAIL: [JERRY.K.SAUTER@OREGON.GOV](mailto:JERRY.K.SAUTER@OREGON.GOV) WEB: [HTTP://WWW.OREGON.GOV](http://WWW.OREGON.GOV)

6-18662



OREGON  
WATER  
RESOURCES  
DEPARTMENT

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**From:** Ingria Jones [<mailto:ijones@gsiws.com>]  
**Sent:** Wednesday, April 04, 2018 3:46 PM  
**To:** SAUTER Jerry K \* WRD  
**Subject:** Request for map scale waiver for City of Prineville

Dear Mr. Sauter,

GSI Water Solutions is preparing a Groundwater Application on behalf of the City of Prineville. The Place of Use Map we have prepared is large (1 inch=3,000 ft.) and does not meet the Department's map scale requirements (1 inch=1,320 ft.).

Attached is the Proposed Place of Use map to accompany the Groundwater Application. [I am requesting a map scale waiver for the applicant's Place of Use Map.](#)

Please contact me if you have any questions.

Thank you,

~Ingria

**Ingria Jones**  
Water Resources Consultant  
direct: 541-753-0933 | mobile: 541.243.4483  
1600 SW Western Boulevard, Suite 240, Corvallis, OR 97333  
GSI Water Solutions, Inc. | [www.gsiws.com](http://www.gsiws.com)

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**Oregon Water Resources Department**  
**Apply for a Permit to Appropriate Ground Water and/or Store Ground Water**

- [Main](#)
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Today's Date: Wednesday, April 25, 2018

Base Application Fee for use of Ground, Surface and optionally Stored Water.		\$1,340.00
Number of proposed cubic feet per second (cfs) to be appropriated. (1 cfs = 448.83 gallons per minute)	4.456	\$1,750.00
Number of proposed Use's for the appropriated water. (f.e. Irrigation, Supplemental Irrigation, Pond Maintenance, Industrial, Commercial, etc) *	1	
Number of proposed Ground Water points of appropriation. (i.e. number of wells) (include all injection wells, if applicable) **	25	\$8,400.00
Number of Acre Feet to be stored in a reservoir/pond from Ground Water.	0	
Number of Acre Feet to be appropriated from reservoir/pond (Only Applies to reservoir/pond constructed under Ground Water Application)	0	
Number of reservoirs.	0	
Permit Recording Fee. ***		\$520.00
* the 1st Water Use is included in the base cost. ** the 1st Ground Water point of appropriation is included in the base cost. *** the Permit Recording Fee is not required when the application is submitted but, must be paid before a permit will be issued. It is fully refundable if a permit is not issued. If the recording fee is not paid prior to issuance of the Final Order, permit issuance will be delayed.	<a href="#">Recalculate</a>	
Estimated cost of Permit Application		\$12,010.00

OWRD Fee Schedule

Fee Calculator Version B20170117