

March 3, 2017

Oregon Water Resources Department
725 Summer Street N.E., Suite A
Salem, Oregon 97301

RE: Application for a Permit to Use Ground Water - Biggs Service District, Oregon

To Whom It May Concern:

On behalf of the Biggs Service District, Biggs Junction, Sherman County, Oregon, Anderson Perry & Associates, Inc., is submitting an Application for a Permit to Use Ground Water for your review. Enclosed are the following items:

- Completed and signed Application for a Permit to Use Ground Water (Application)
- Check for \$1,900 that includes the \$1,150 base fee, \$300 fee for an estimated flow rate of 400 gallons per minute, and \$450 recording fee
- Land Use Information Form
- Form M
- Figure 1 showing the proposed well location and all other required information
- Well log for a nearby, similar well (SHER299)

To assist with your review and clarify the District's intent for a new well, we have summarized additional information herein. The Biggs Service District completed a Water System Study in 2003 to evaluate the feasibility and estimated cost for a new municipal water system to serve the District's area, specifically Biggs Junction. The estimated total project costs were recently updated, and the District is pursuing funding to complete improvements. The proposed improvements include drilling a new water supply well for the District.

The new supply well will be cased over its entire depth, and the upper 100 feet or so will be sealed a sufficient depth into the upper basalt layers so water will be withdrawn from basalt aquifer formations deeper than 100 feet. Actual drilling conditions and materials encountered may require modifications of this plan; however, the intent is to establish a continuous seal from the ground surface to a depth of at least 100 feet for water quality protection and to obtain groundwater from deeper basalt formations. The District intends to drill the new well (Well No. 1) in the summer of 2017, if possible.

Thank you for your prompt review of this Application. Please do not hesitate to call me if you have questions concerning any of the information presented herein or if you need additional information. We look forward to your review comments for this Application.

Sincerely,

ANDERSON PERRY & ASSOCIATES, INC.

By Brad D. Baird
Brad D. Baird, P.E.

BDB/ct
Enclosures

cc: Jeff Holliday, Biggs Service District (w/encl.)
Robert Wood, District 3 Watermaster (w/encl.)
File No. 998-01-37 (w/encl.)

G:\Clients\Biggs Service District\Water\998-01 WSI\Correspondence\OWRD Well Permit 03-03-2017.docx

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

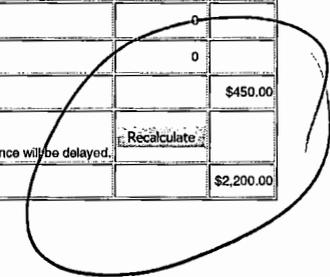
Main Help
Return Contact Us

Today's Date: Wednesday, March 08, 2017

Base Application Fee for use of Ground, Surface and optionally Stored Water.		\$1,150.00
Number of proposed cubic feet per second (cfs) to be appropriated. (1 cfs = 448.83 gallons per minute)	.9	\$300.00
Number of proposed Use's for the appropriated water. (i.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) **	2	\$300.00
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. ***		\$450.00
* 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.		Recalculate
Estimated cost of Permit Application		\$2,200.00

OWRD Fee Schedule

Fee Calculator Version B20130709



- 300.00

the

Application for a Permit to Use Ground Water



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). 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 \$200. 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. 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 \$350.00 for the applicant and \$700.00 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

Attachments:

- Land Use Information Form with approval and signature (*must be an original*) or signed receipt
- 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.
- Fees - Amount enclosed: \$1,900
See the Department's Fee Schedule at www.oregon.gov/owrd or call (503) 986-0900.

Provide a map and check that each of the following items is included:

- 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
- Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)
- Other _____

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Application for a Permit to Use Ground Water



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

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME		PHONE (HM)	
PHONE (WK)	CELL	FAX	
ADDRESS			
CITY	STATE	ZIP	E-MAIL*

Organization Information

NAME Biggs Service District / Jeff Holliday		PHONE 541-739-2321	FAX 541-739-8229
ADDRESS 304 W. 2nd Street, Suite 100			CELL
CITY Rufus	STATE OR	ZIP 97050	E-MAIL* rufuscityhall@gmail.com

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

AGENT / BUSINESS NAME Brad D. Baird, P.E., Anderson Perry & Associates, Inc.		PHONE 541-963-8309	FAX 541-963-5456
ADDRESS P.O. Box 1107 / 1901 N. Fir Street			CELL 541-786-2489
CITY La Grande	STATE OR	ZIP 97850	E-MAIL* bbaird@andersonperry.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.)

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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.


Applicant Signature

Gary Thompson
Print Name and title if applicable

11/2/16
Date

Applicant Signature

Print Name and title if applicable

Date

For Department Use		
App. No. <u>G18475</u>	Permit No. _____	Date _____

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.
 - 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*).

Pat Beers and Lori Beers
 P.O. Box 202
 Rufus, Oregon 97050
 541-739-2883

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Pat and Lori Beers are the current owners of the well site and have entered into a purchase agreement with the Biggs Service District. The Biggs Service District will complete the site partition process and land purchase prior to drilling and using the new well. The land partition process is underway.

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.

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
1	Spanish Creek	Approximately 850 feet	Approximately 145 feet above Spanish Creek
1	Columbia River	Approximately 1,600 feet	Approximately 175 feet above the Columbia River

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Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials (*attach additional sheets if necessary*).

The well will be placed on a lot encompassing approximately 0.59 acre. The lot is currently being partitioned from Tax Lot 1500, Township 2 North, Range 16 East, Section 8. The lot will also contain a municipal storage reservoir, piping, and well pump station.

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SECTION 3: WELL DEVELOPMENT, CONTINUED

Total maximum rate requested: 400 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) ****
New (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	14-inch	0-30 feet	N/A	0-30 feet	N/A	Columbia River Basalt formations	500 feet	400	97
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	10-inch	+2-100 feet	N/A	0-100 feet					
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	8-inch	100-500 feet	300-450 feet	N/A					
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									

* 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.
 **** Assumes operating at 15 percent of available annual volume.

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SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Municipal	Year-round	97 acre-feet (based on 15 percent utilization rate)

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.

For irrigation use only:

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

Primary: N/A Acres Supplemental: N/A Acres

List the Permit or Certificate number of the underlying primary water right(s): N/A

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: N/A

- If the use is **municipal or quasi-municipal**, attach **Form M**
 - If the use is **domestic**, indicate the number of households: N/A
- If the use is **mining**, describe what is being mined and the method(s) of extraction: N/A

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):

50 horsepower submersible vertical turbine (horsepower estimated)

Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water.

The water will be extracted from the well using a submersible pump. Water will be pumped to a well control house containing piping and valves, system controls, a flowmeter, chlorination system, and sample station. Water will be conveyed to an adjacent 400,000-gallon storage reservoir and then to users through a new water transmission pipeline and distribution system.

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B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)

Municipal water will be pumped from the well to an adjacent 400,000-gallon storage reservoir and then distributed to the public through a new water transmission pipeline and distribution system.

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

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the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters.

Water will be conserved by metering production at the source, metering all water users, and reconciling production versus use quantities. This water management method identifies high users and is a first indicator of any leaks that might occur in the water distribution system. Since the entire water system will be new, it is expected that water loss will be minimal. Aquatic life will not be affected by water withdrawn from the well. Riparian habitat will not be affected by water withdrawal from the well.

SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

If you would like to store ground water 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 GROUND WATER FROM THE RESERVOIR

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

Annual volume (acre-feet): _____

USE OF STORED GROUND WATER	PERIOD OF USE

SECTION 8: PROJECT SCHEDULE

Date construction will begin: Spring 2017

Date construction will be completed: Summer 2017

Date beneficial water use will begin: Fall 2017 or Spring 2018

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SECTION 9: WITHIN A DISTRICT

Check here if the point of diversion or place of use are located within or served by an irrigation or other water district.

Water District Name Biggs Service District**	Address 304 W. 2nd Street, Suite 100	
City Rufus	State Oregon	Zip 97050

** Biggs Service District has been organized to provide municipal wastewater and water to the area generally known as Biggs Junction.

SECTION 10: REMARKS

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

The Biggs Service District has commissioned a municipal water supply, storage, and distribution project for Biggs Junction, Oregon. The project provides a municipal water well with a target production rate of 400 gpm, a 400,000-gallon municipal storage reservoir (steel tank), and approximately 5,000 linear feet of water distribution piping.

The project includes metering of water production at the wellhead and at all points of use, electronic controls, and a supervisory control and data acquisition system.

It is anticipated that water meters will be read monthly and water bills will be generated monthly. Appropriate fees (increasing block rate cost structure) and monthly water inventory reviews will ensure water conservation.

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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

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: Biggs Service District
First Last _____

Mailing Address: 304 W. 2nd Street, Suite 100

Rufus Oregon 97050 Daytime Phone: 541-739-2321
City State Zip

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:
2N	16E	8	SE 1/4		Municipal	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	M
2N	16E	8	S 1/2, SW 1/4		Municipal	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	M
2N	16E	8	NE 1/4, SW 1/4		Municipal	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	M
					See attached sheet for more locations	<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:

Sherman County, Biggs Service District, Biggs Junction, Oregon.	RECEIVED MAR 07 2017
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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: 400 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:

Water from the proposed well will be used for residential and commercial purposes within the Biggs Service District.

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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AmB...

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:	
Partition Conditional use permit	SC20 Article 3 Section 3.3 (e) utility facility	<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.

A CUP was approved for the water system on Feb. 27, 2017

Name: Georgia Macnab Title: Planning Director

Signature: Georgia T. Macnab Phone: 541-565-3601 Date: 2-28-17

Government Entity: Sherman County

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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

Applicant name: Biggs Service District

City or County: Sherman County Staff contact: Georgia Macnab

Signature: Georgia T. Macnab Phone: 541-565-3601 Date: 2-28-17

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Date _____

(For staff use only)



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

WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):

- SECTION 1: _____
- SECTION 2: _____
- SECTION 3: _____
- SECTION 4: _____
- SECTION 5: _____
- SECTION 6: _____
- SECTION 7: _____
- SECTION 8: _____
- SECTION 9: _____
- Land Use Information Form _____
- 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.
- Fees _____

MAP

- 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
- Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)
- Other _____

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Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).

1 acre-foot is equal to 325,851 gallons.

Background Information

Name of water supplier: Biggs Service District

Name and size of area to be served: Biggs Junction, Oregon
(in square miles)

Present population of service area: 22
(Contact county planning staff, if needed.)

Projected population in 20 years: No projections available, unincorporated area
(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

Date of Issuance:	Natural Source of Water:	Amount Permitted:	Utilization:
<u>None</u>			

Water Use

Average **yearly** demand: 49.4 AFY Year: 2003

Per-capita daily consumption (in gallons): 2005, see additional information sheet item No. 1
(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

Peak season (by month/day): May to October **Total peak season** demand: 30 Acre-feet

Peak season per-capita daily consumption: 2,344 gpd per person
(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 16,104,000 gallons, see additional information item No. 2
(diverted or pumped)

Delivered: 16,104,000 gallons

Is your system fully metered? Yes No

Describe your rate structure: See additional information item No. 3
(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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Request for Water

A. Discuss the reason(s) for your request for additional water
(e.g. loss of current supply, peak demand, growth, or other):

See additional information sheet item (A).

B. How long is the amount of water requested in this application expected to meet future needs?
(e.g. until the year 2040) See additional information sheet item (B).

C. Briefly discuss operation of water system and the most constraining component of the system:

See additional information sheet item (C).

D. Percentage of water use by type:

Residential: Less than 5 percent

Commercial: 95+ percent

Public Authority: N/A

Agricultural: N/A

Unaccounted for use: N/A

Industrial: N/A

Other (specify use): _____

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

See additional information sheet item (E).

F. How and by how much will your proposed water use efficiency programs increase efficiency?
(Express as a percentage of per-capita consumption.)

See additional information sheet item (F).

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**Oregon Water Resources Department
FORM M - Additional Information
FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES**

Water Use

1. Biggs Service District is home to approximately 22 year-round, permanent residents. The Biggs Junction area has significant transient water users due to the many businesses located at the junction of Interstate 84 and Highway 97. This transient, commercial water use divided by the very few residents results in per capita daily use volumes significantly higher than typical average per capita use.
2. Biggs Junction currently has four small, independent, private water systems. Water use is the sum of their production records. All sources are metered to provide a basis for estimating sewer fees.
3. N/A - Biggs Service District does not have a municipal water system. The Biggs Service District's water system will be new and will include a well, storage reservoir, and distribution system. The new distribution system will be fully metered and monthly water bills will be generated.

Request for Water

- A. Two of the four independent water supply systems that are currently serving portions of Biggs Junction are springs. The springs are vulnerable to contamination. Flows from the springs are limited and provide water to low use customers. There is no fire suppression water available in any portion of Biggs Junction. The new water supply, storage, and distribution system will provide fire suppression. The new system capacity will allow additional residents and businesses to locate in Biggs Junction.
- B. This water supply is projected to be adequate through 2024. Actual demands depend on the amount and type of growth.
- C. Biggs Junction does not have a central water distribution system. None of the four existing independent water systems are interconnected. Fire suppression water is not available in Biggs Junction. The added production and distribution capacities will ensure a predictable, reliable water supply that includes fire suppression capabilities to Biggs Junction.
- E. Since this is a new installation, there are no data to estimate efficiency. There are no known use improvement opportunities. All service connections will be metered, and meters will be read monthly. It is expected that water rates and subsequent billing will discourage overuse and waste.
- F. The preliminary design and overall intention of the proposed water system is to produce an efficient, high quality potable water system while also providing fire suppression capabilities. A new distribution system constructed to current standards will ensure an efficient, safe water system.

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Land Use Information Form - Continued

A. Land and Location

Township	Range	Section	1/4 1/4	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:	Proposed Land Use:
2N	16E	9	W 1/2, SW 1/4		Municipal	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	M
2N	16E	9	SW 1/4, NW 1/4		Municipal	<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	M

M = Municipal

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NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

WATER WELL REPORT

STATE OF OREGON

(Please type or print) Do not write above this line

State Well No. 2N/16-17

State Permit No. _____

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(1) OWNER:

Name Jack Beers
Address Biggs Jet. Ave.

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded
6" Diam. from 0 ft. to 20 ft. Gage 250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:

Perforated? Yes No.
Type of perforator used _____
Size of perforations in. by in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? Yes No
Manufacturer's Name _____ Model No. _____
Type _____ Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WATER LEVEL: Completed well.

Static level 30 ft. below land surface Date 1-4-68
Artesian pressure None lbs. per square inch Date 1-4-68

(9) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom?
d: gal./min. with ft. drawdown after hrs.
" " " " " "
" " " " " "
Baller test 100 gal./min. with 0 ft. drawdown after 1 hrs.
Artesian flow None g.p.m. Date 1-4 68
Temperature of water 45 Was a chemical analysis made? Yes No

(10) CONSTRUCTION:

Well seal—Material used Cement
Depth of seal 20 ft.
Diameter of well bore to bottom of seal 6 in.
Were any loose strata cemented off? Yes No Depth _____
Was a drive shoe used? Yes No
Did any strata contain unusable water? Yes No
Type of water? _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(11) LOCATION OF WELL:

County Sherman Driller's well number _____
1/4 1/4 Section 17 T. 2N R. 16E W.M.
Bearing and distance from section or subdivision corner _____

(12) WELL LOG:

Diameter of well below casing 6
Depth drilled 345 ft. Depth of completed well 345 ft.
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
<u>Topsoil</u>	<u>0</u>	<u>4</u>	<u>0</u>
<u>Black Basalt</u>	<u>4</u>	<u>43</u>	<u>0</u>
<u>Brown Clay</u>	<u>43</u>	<u>60</u>	<u>0</u>
<u>Black Basalt</u>	<u>60</u>	<u>190</u>	<u>30</u>
<u>Green Soap Stone</u>	<u>190</u>	<u>205</u>	<u>40</u>
<u>Black Basalt</u>	<u>205</u>	<u>335</u>	<u>40</u>
<u>Green Soap Stone</u>	<u>335</u>	<u>339</u>	<u>40</u>
<u>Water</u>	<u>335</u>	<u>339</u>	<u>40</u>
<u>Black Basalt</u>	<u>339</u>	<u>340</u>	<u>40</u>
<u>Green Soap Stone</u>	<u>340</u>	<u>342</u>	<u>30</u>
<u>Black Basalt</u>	<u>342</u>	<u>345</u>	<u>30</u>

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Work started 12-19 1967 completed 1-4 1968
Date well drilling machine moved off of well 1-5 1968

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Sue Williams Date 1-4, 1968
(Drilling Machine Operator)

Drilling Machine Operator's License No. 459

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Brandt Drilling Co.
(Person, firm or corporation) (type or print)

Address 675 Crestview Rd.

[Signed] Ed Brandt
(Water Well Contractor)

Contractor's License No. 283 Date 1-6, 1968