

FEB 07 2024

Salem, OR

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.oregon.gov/OWRD

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant

NAME City of Sisters Attn: Paul Bertagna		PHONE (HM)	
PHONE (WK) (541) 323-5212	CELL	FAX	
ADDRESS 520 E. Cascade; PO Box 39			
CITY Sisters	STATE OR	ZIP 97759	E-MAIL* pbertagna@ci.sisters.or.us

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

AGENT / BUSINESS NAME GSI Water Solutions, ATTN: Owen McMurtrey		PHONE 541-257-9005	FAX
ADDRESS 1600 SW Western Boulevard, Suite 240			CELL
CITY Corvallis	STATE OR	ZIP 97333	E-MAIL* OMcMurtrey@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 proposed and 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.

Jordan Wheeler
Applicant Signature

Jordan Wheeler, City Manager
Print Name and Title if applicable

12/20/23
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.
- YES, the land is encumbered by easements, rights of way, roads or other encumbrances.
- NO, the applicant is a public corporation.**
- NO, I have a recorded easement or written authorization permitting access.
- NO, I do not currently have written authorization or easement permitting access.
- NO, 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).
- NO, because water is to be diverted, conveyed, and/or used only on federal lands.

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Affected Landowners: List the names and mailing addresses of all owners of any lands that are not owned by the applicant and that are crossed by the proposed ditch, canal or other work, even if the applicant has obtained written authorization or an easement from the owner. *(Attach additional sheets if necessary).*

N/A – The applicant is a public corporation.

Legal Description: 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 for the legal descriptions of the properties where water is to be diverted. The applicant is a public corporation, and the proposed use is municipal use within the City of Sisters municipal service area.

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
Well 1	Whychus Creek	445 feet	3 feet
Well 4	Whychus Creek	390 feet	10 feet
Well 5	Smith Ditch	440 feet	5 feet

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).*

N/A

SECTION 3: WELL DEVELOPMENT, continued

Total maximum rate requested: **1.68 cfs** (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)
Well 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DESC 3023	<input type="checkbox"/>	14" 12" 10"	+2-100 25-111 0-195.6	50-100 95.6-195.6	0-40	104.50 (3/21/2023)	Deschutes Formation	211	N/A	
Well 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DESC 62447	<input type="checkbox"/>	16" 12"	+4-200 290-293	190-290	0-115 115-137	80.20 (3/14/2023)		293	N/A	
Well 5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	16" 12" (est.)	0-90 90-230 (est.)	120-220 (est.)	0-90 (est.)	N/A		230 (est.)	N/A	

* 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.

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SECTION 4: SENSITIVE, THREATENED OR ENDANGERED FISH SPECIES PUBLIC INTEREST INFORMATION

This information must be provided for your application to be accepted as complete. The Water Resources Department will determine whether the proposed use will impair or be detrimental to the public interest with regard to sensitive, threatened or endangered fish species if your proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters.

To answer the following questions, use the map provided in [Attachment 3](#) or the link below to determine whether the proposed point of appropriation (POA) is located in an area where the Upper Columbia, the Lower Columbia, and/or the Statewide public interest rules apply.

For more detailed information, click on the following link and enter the TRSQQ or the Lat/Long of a POA and click on "Submit" to retrieve a report that will show which section, if any, of the rules apply:
https://apps.wrd.state.or.us/apps/misc/lkp_trsqg_features/

If you need help to determine in which area the proposed POA is located, please call the customer service desk at (503) 986-0801.

Upper Columbia - OAR 690-033-0115 thru -0130

Is the well or proposed well located in an area where the Upper Columbia Rules apply?

Yes No

If yes, you are notified that the Water Resources Department will consult with numerous federal, state, local and tribal governmental entities so it may determine whether the proposed use is consistent with the "Columbia River Basin Fish and Wildlife Program" adopted by the Northwest Power Planning Council in 1994 for the protection and recovery of listed fish species. The application may be denied, heavily conditioned, or if appropriate, mitigation for impacts may be needed to obtain approval for the proposed use.

If yes, and if the Department determines that proposed groundwater use has the potential for substantial interference with nearby surface waters:

- I understand that the permit, if issued, will not allow use during the time period April 15 to September 30, except as provided in OAR 690-033-0140.
- I understand that the Department of Environmental Quality will review my application to determine if the proposed use complies with existing state and federal water quality standards.
- I understand that I will install and maintain water use measurement and recording devices as required by the Water Resources Department, and comply with recording and reporting permit condition requirements.

Lower Columbia - OAR 690-033-0220 thru -0230

Is the well or proposed well located in an area where the Lower Columbia rules apply?

Yes No

If yes, and the proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters you are notified that the Water Resources Department will determine, by reviewing

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recovery plans, the Columbia River Basin Fish and Wildlife Program, and regional restoration programs applicable to threatened or endangered fish species, in coordination with state and federal agencies, as appropriate, whether the proposed use is detrimental to the protection or recovery of a threatened or endangered fish species and whether the use can be conditioned or mitigated to avoid the detriment.

If a permit is issued, it will likely contain conditions to ensure the water use complies with existing state and federal water quality standards; and water use measurement, recording and reporting required by the Water Resources Department. The application may be denied, or if appropriate, mitigation for impacts may be needed to obtain approval of the proposed use.

If yes, you will be required to provide the following information, if applicable. N/A

Yes No The proposed use is for more than **one** cubic foot per second (448.8 gpm) and is not subject to the requirements of OAR 690, Division 86 (Water Management and Conservation Plans).

If yes, provide a description of the measures to be taken to assure reasonably efficient water use:
N/A

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Statewide - OAR 690-033-0330 thru -0340

Is the well or proposed well located in an area where the Statewide rules apply?

Yes No

If yes, and the proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters you are notified that the Water Resources Department will determine whether the proposed use will occur in an area where endangered, threatened or sensitive fish species are located. If so, the Water Resources Department, Department of Fish and Wildlife, Department of Environmental Quality, and the Department of Agriculture will recommend conditions required to achieve “no loss of essential habitat of threatened and endangered (T&E) fish species,” or “no net loss of essential habitat of sensitive (S) fish species.” If conditions cannot be identified that meet the standards of no loss of essential T E fish habitat or no net loss of essential S fish habitat, the agencies will recommend denial of the application unless they conclude that the proposed use would not harm the species.

SECTION 5: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Municipal	Year-round	

For irrigation use only: N/A

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

Primary: Acres Supplemental: Acres Nursery Use: 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 E**
- If the use is **domestic**, indicate the number of households: **N/A** (**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*): N/A

SECTION 6: WATER MANAGEMENT

A. Diversion and Conveyance

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

Pump (give horsepower and type): **Well 1 is equipped with a 75 HP line shaft turbine pump. Well 4 is equipped with a 150 HP Line Shaft Turbine pump. Technical specifications for the proposed well have not been decided.**

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 the proposed wells and conveyed through the City's municipal water distribution system for delivery to 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*)

N/A - Water will be for municipal use within the City of Sisters Municipal 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 limited to the amount needed for municipal water supply. Wells will be constructed in a manner to prevent damage to aquatic life and riparian habitat. No discharge of contaminated water will occur, and no adverse impacts on public uses of surface water are anticipated. Constructed wells will be equipped with measurement devices to measure the amount of water diverted.

The City's 2022 WMCP Progress Report includes benchmarks related to conservation outreach. The City continues to implement its conservation benchmarks established in its 2016 progress report. For example, the City is working with the School District to incorporate water efficient fixtures and low water use landscape design at a new elementary school building. See Attachment F for an excerpt of the City's WMCP Progress Report for more information about the City's water conservation programs.

SECTION 7: PROJECT SCHEDULE

- Date construction will begin: **Within twenty years of permit issuance.**
- Date construction will be completed: **Within twenty years of permit issuance.**
- Date beneficial water use will begin: **Within twenty years of permit issuance.**

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SECTION 8: RESOURCE PROTECTION

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In granting permission to use water the state encourages, and in some instances requires, careful control of activities that may affect adjacent waterway or streamside area. See instruction guide for a list of possible permit requirements from other agencies. Please indicate any of the practices you plan to undertake to protect water resources.

Water quality will be protected by preventing erosion and run-off of waste or chemical products.
Describe: **Municipal water is delivered through the City's piped distribution system and wastewater is treated at the City's Wastewater Treatment Plant. No erosion or run-off will occur.**

Excavation or clearing of banks will be kept to a minimum to protect riparian or streamside areas.
Note: If disturbed area is greater than one acre, applicant should contact the Oregon Department of Environmental Quality to determine if a 1200C permit is required.
Describe planned actions and additional permits required for project implementation: **No excavation or clearing of banks will be required for this project.**

Other state and federal permits or contracts required and to be obtained, if a water right permit is granted:
List: **N/A**

SECTION 9: WITHIN A DISTRICT

Check here if the point of appropriation (POA) or place of use (POU) are located within or served by an irrigation or other water district.

Irrigation District Name N/A	Address	
City	State	Zip

SECTION 10: REMARKS

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

The City of Sisters is submitting this water right application to request a permit to use up to 1.68 cfs of groundwater from Wells 1, 4, and 5 to increase the maximum authorized rate of use from the City's wells to meet projected demands through 2045. The City is requesting that the permit describe the authorized place of use as "the City of Sisters Municipal Service Boundary."

Additional details regarding the City's projected demands are described in the attached Form M (Attachment E).

The City understands that mitigation credits in the Whychus Creek Zone of Impact will be required. The City plans to submit an incremental mitigation plan. The City plans to provide temporary or permanent mitigation credits it acquires or creates using its own surface water rights.

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For Department Use: App. Number: _____

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Attachment A

Land Use Information Forms

Application for Groundwater Permit - City of Sisters

Land Use Information Form



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

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

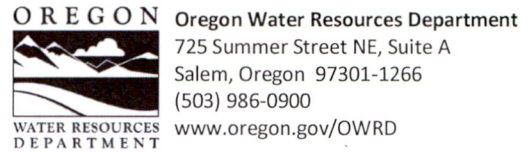
The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. 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



Applicant(s): City of Sisters, Attn: Paul Bertagna

Mailing Address: 520 E. Cascade; PO Box 39

City: Sisters State: OR Zip Code: 97759 Daytime Phone: 541-323-5212

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>15 S</u>	<u>10 E</u>	<u>9</u>	<u>SW NE</u>	<u>401</u>	<u>OS</u>	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	<u>Municipal</u>
<u>City of Sisters Water Service Area</u>						<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	

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

City of Sisters

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: 1.68 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 Sisters is applying to use 1.68 cfs of groundwater for municipal use within the City of Sisters water service area. The locations of the proposed wells and the proposed place of use are shown on the attached map. Wells 1 and 5 are outside of city limits and are listed on a separate land use form for Deschutes County. This water right permit application is being submitted to increase the total maximum rate and volume of water authorized for use from the combination of wells.



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): Section 2.8.200 Uses
- 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.

Name: Scott Woodford Title: Community Development Director
 Signature: [Signature] Phone: 541 323 5211 Date: 12/20/23
 Government Entity: City of Sisters

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: _____
 City or County: _____ Staff contact: _____
 Signature: _____ Phone: _____ Date: _____

Land Use Information Form



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
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This form is NOT required if:

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NOTE TO LOCAL GOVERNMENTS

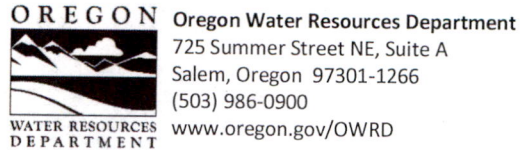
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15 S	10 E	9	NW SW	1001	F1	<input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	Municipal
15 S	10 E	8	SW SW	500	EFUSC (Sisters/Cloverdale Subzone)	<input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	
City of Sisters Water Service Area						<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	

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

Deschutes 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: **1.68** 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 Sisters is applying to use 1.68 cfs of groundwater for municipal use within the City of Sisters water service area. The locations of the proposed wells are listed above and shown on the attached maps. Well 4 is inside the city limits and is listed on a separate land use form. This water right permit application is being submitted to increase the total maximum rate and volume of water authorized for use from the combination of wells.

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.

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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): Title 18 of the Deschutes County Code, Zoning Ordinance
- 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.

County staff understand there is no development being proposed within County land use jurisdiction, beyond the construction of the described wells. If development is proposed in the future, the City should contact the Deschutes County Community Development Department for further details.

Name: Jacob Ripper Title: Principal Planner
 Signature: *Jacob Ripper* Phone: 541-385-1759 Date: 01/25/2024
 Government Entity: Deschutes 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.



Receipt for Request for Land Use Information

Applicant name: _____
 City or County: _____ Staff contact: _____
 Signature: _____ Phone: _____ Date: _____

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Attachment B
Legal Descriptions

Application for Groundwater Permit - City of Sisters

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Well 1 (Tax lot 1001)

RECORDING REQUESTED BY:



220 S Pine Street, Suite 102
Sisters, OR 97759

GRANTOR'S NAME:
The Dorro C. Sokol Irrevocable Living Trust, dated December 7, 1999

GRANTEE'S NAME:
Kathy Deggendorfer, trustee of The Roundhouse Foundation under agreement Dated October 18, 2002

AFTER RECORDING RETURN TO:
Order No.: WT0145447-SM
Kathy Deggendorfer, trustee of The Roundhouse Foundation under agreement Dated October 18, 2002
PO Box 1784
Sisters, OR 97759

SEND TAX STATEMENTS TO:
Kathy Deggendorfer, trustee of The Roundhouse Foundation under agreement Dated October 18, 2002
PO Box 1784
Sisters, OR 97759

APN: 189674
Map: 15100900001001

**RETURN TO WESTERN
TITLE & ESCROW**

Deschutes County Official Records	2017-043962
D-D	11/01/2017 09:27:00 AM
Str=0 BN	\$10.00 \$11.00 \$21.00 \$15.00 \$6.00
	\$63.00
I, Nancy Blankenship, County Clerk for Deschutes County, Oregon, certify that the instrument identified herein was recorded in the Clerk records.	
Nancy Blankenship - County Clerk	

SPACE ABOVE THIS LINE FOR RECORDER'S USE

STATUTORY WARRANTY DEED

Mary Sokol Chavin and Evangeline Sokol, successor co-trustees of the Dorro C. Sokol Irrevocable Living Trust, dated December 7, 1999, Grantor, conveys and warrants to Kathy Deggendorfer, trustee of The Roundhouse Foundation under agreement Dated October 18, 2002, Grantee, the following described real property, free and clear of encumbrances except as specifically set forth below, situated in the County of Deschutes, State of Oregon:

The West One-half of the East One-half of the Northwest One-quarter of the Southwest One-quarter (W $\frac{1}{2}$ E $\frac{1}{2}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$), the East One-half of the West One-half of the Northwest One-quarter of the Southwest One-quarter (E $\frac{1}{2}$ W $\frac{1}{2}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$), the West One-half of the Southwest One-quarter of the Southwest One-quarter (W $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$) and the West One-half of the East One-half of the Southwest One-quarter of the Southwest One-quarter (W $\frac{1}{2}$ E $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$) of Section 9, Township 15 South, Range 10 East, Willamette Meridian, Deschutes County, Oregon.

THE TRUE AND ACTUAL CONSIDERATION FOR THIS CONVEYANCE IS ONE HUNDRED TWENTY-SEVEN THOUSAND AND NO/100 DOLLARS (\$127,000.00). (See ORS 93.030).

Subject to:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING

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EXHIBIT "A"
Exceptions

Subject to:

The Land has been classified as being in Forest Deferral, as disclosed by the tax roll. If the Land becomes disqualified, said Land may be subject to additional taxes and/or penalties.

Tax Identification No.: 189674

Any adverse claim based upon the assertion that:

- a) Said Land or any part thereof is now or at any time has been below the highest of the high watermarks of Wychus Creek, in the event the boundary of said Wychus Creek has been artificially raised or is now or at any time has been below the high watermark, if said Wychus Creek is in its natural state.
- b) Some portion of said Land has been created by artificial means or has accreted to such portion so created.
- c) Some portion of said Land has been brought within the boundaries thereof by an avulsive movement of Wychus Creek, or has been formed by accretion to any such portion.

Rights and easements for navigation and fishery which may exist over that portion of said Land lying beneath the waters of Wychus Creek.

The existence of roads, railroads, irrigation ditches and canals, telephone, telegraph, and power transmission facilities.

Subject to right-of-way to Three Creeks County Road and Reservation for right-of-way for ditches and canals as disclosed in Quitclaim Deed

Executed by: The United States of America
Recording Date: January 30, 1996
Recording No.: 398-383, Deschutes County Records

Effect of an Easement Agreement

Between: Dorro C. Sokol
And: The City of Sisters, A municipal corporation of the State of Oregon
Recording Date: January 30, 1996
Recording No.: 398-385, Deschutes County Records
Said document does not contain legal description, only an Exhibit map that is unclear.

Access Easement Agreement

Between: Dorro C. Sokol, her successors and assigns, as trustee of the Dorro C. Sokol Revocable Living Trust dated December 7, 1999
And: Pine Meadow Ranch, Inc., an Oregon corporation
Recording Date: December 6, 2010
Recording No.: 2010-48449, Deschutes County Records

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Well 5 (Tax lot 500)

OFFICIAL RECORD OF DESCRIPTIONS OF REAL PROPERTY												
DESCHUTES COUNTY ASSESSOR'S OFFICE												
15	10	8			500							
TWP. S. RBE. E. SEC. 1/4 1/16			TAX LOT NUMBER	TYPE	SPEC. INT. IN REAL PROP.	6-8 6-2		CODE AREA NUMBER				
MAP NUMBER				ACCOUNT NUMBER		8		15 10				
						SECTION		TOWNSHIP B. RANGE E.				
LOT NO.		BLOCK NO.		ADDITION			CITY					
INDENT EACH NEW COURSE TO THIS POINT		ADDITIONAL DESCRIPTION AND RECORD OF CHANGE		FORMERLY PART OF T. L. NO.			DATE OF ENTRY ON THIS CARD		DEED RECORD VOL. PG.	ACRES REMAINING		
		S $\frac{1}{2}$ S $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$		Less Rd. .61 ac			R.C.			1/1/61 9-16-81	83 63 75 36 305 36 75 7179	10 9.39
		CODE CHANGE		R.C.			Recording Date		92 134			

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Attachment C

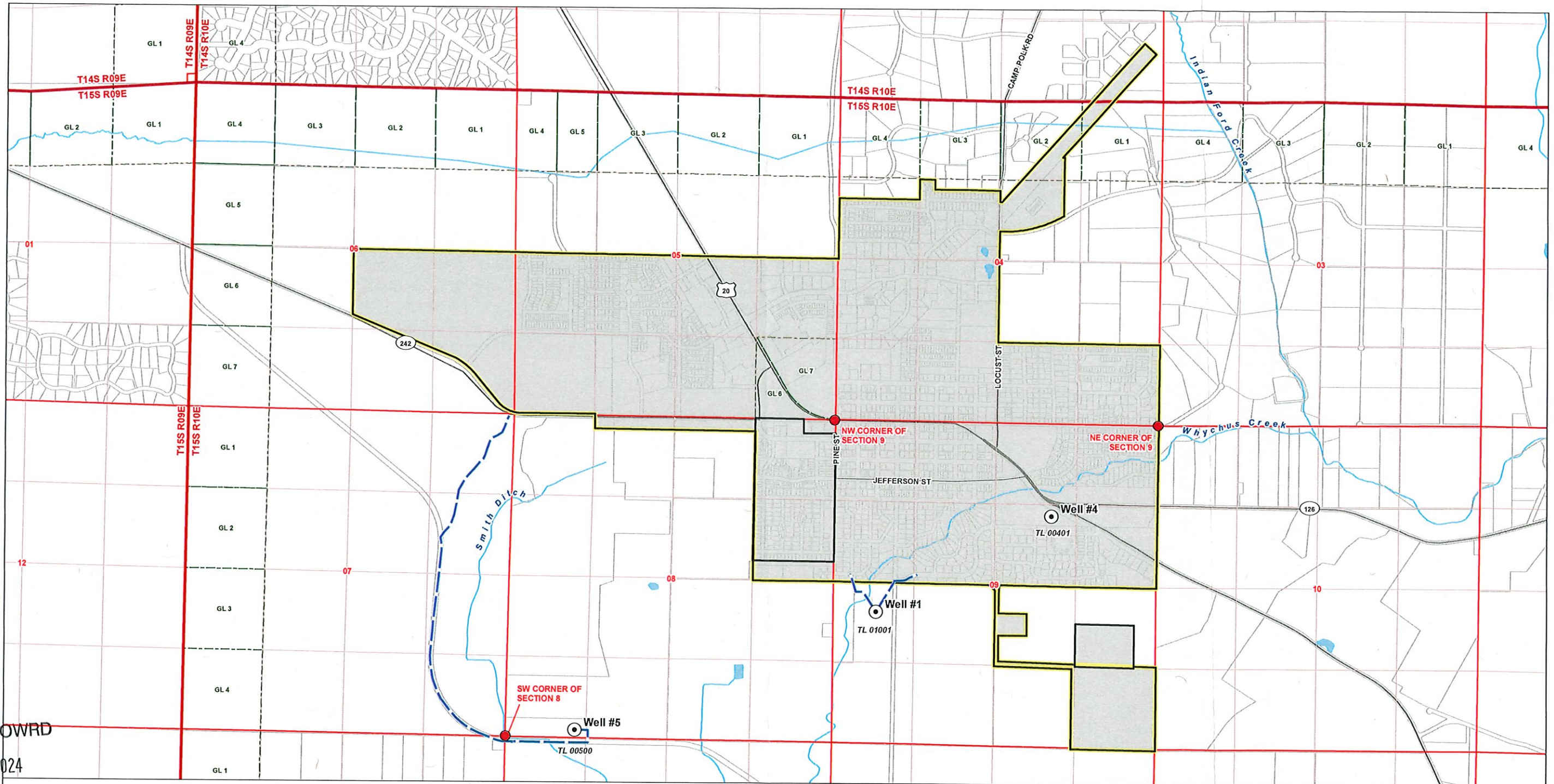
Application Map

Application for Groundwater Permit - City of Sisters

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 Salem, OR

- LEGEND**
- Point of Appropriation (POA)
 - Conveyance Line
 - POU (City of Sisters Service Boundary)
 - City Boundary
 - Tax Lot
 - Government Lot (GL)
 - Major Road
 - Watercourse
 - Waterbody

POA LOCATION DESCRIPTIONS

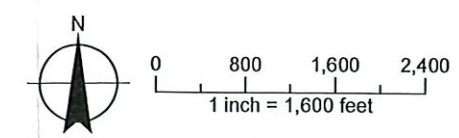
Well #1
 Located 2,950 feet South and 650 feet East from the NW corner of Section 9, Township 15 South, Range 10 East (W.M.)

Well #4
 Located 1,505 feet South and 1,715 feet West from the NE corner of Section 9, Township 15 South, Range 10 East (W.M.)

Well #5
 Located 230 feet North and 1,125 feet East from the SW corner of Section 8, Township 15 South, Range 10 East (W.M.)

DISCLAIMER
 This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.
 Date: December 14, 2023
 Data Sources: BLM, ESRI, OWRD, USGS

Groundwater Permit Application Map
 City of Sisters
 Deschutes County, Oregon
 Township 15 South, Range 10 East (W.M.)



From: [RATCLIFFE Katie S * WRD](#)
To: [Mikaela Clarke](#)
Cc: [Owen McMurtrey](#)
Subject: RE: Map Scale Waiver Request for City of Sisters Groundwater Permit Application
Date: Wednesday, December 13, 2023 1:25:40 PM

Good afternoon Mikaela,

I approve use of this map scale for this application for the purposes of application intake. Please include a copy of this email with application submittal so that our Customer Service Group has it in hand. If we end up needing a closer level of detail of any area of the map when the caseworker and/or Groundwater Section do their reviews, we will let you know. Please note that I have not checked the map against the other requirements of OAR [690-310-0050](#).

Katie

Katie Ratcliffe

Water Rights Section Manager
Oregon Water Resources Department
Phone: 971-338-8105 (work cell)
katie.s.ratcliffe@water.oregon.gov

From: Mikaela Clarke <mclarke@gsiws.com>
Sent: Wednesday, December 13, 2023 12:48 PM
To: RATCLIFFE Katie S * WRD <Katie.S.RATCLIFFE@water.oregon.gov>
Cc: Owen McMurtrey <OMcMurtrey@gsiws.com>
Subject: RE: Map Scale Waiver Request for City of Sisters Groundwater Permit Application

You don't often get email from mclarke@gsiws.com. [Learn why this is important](#)

My apologies, I meant to address the email to Katie, not Kerri!

Mikaela Clarke

Water Resources Analyst

direct: 971.200.8501; mobile: 971.212.0276
650 NE Holladay Street, Suite 900, Portland, OR 97232
GSI Water Solutions, Inc. | www.gsiws.com
pronouns: she/her

From: Mikaela Clarke
Sent: Wednesday, December 13, 2023 12:47 PM
To: RATCLIFFE Katie S WRD <Katie.S.RATCLIFFE@water.oregon.gov>
Cc: Owen McMurtrey <OMcMurtrey@gsiws.com>
Subject: Map Scale Waiver Request for City of Sisters Groundwater Permit Application

Hi Kerri,

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I'd like to request a map scale waiver (per 310-0050 (2)(c)) for a groundwater permit application to be submitted on behalf of the City of Sisters. The map uses a scale of 1 inch = 1,600 ft in order to fit the entire service area. Let me know if there is anything else I can provide.

Thank you,
Mikaela

Mikaela Clarke

Water Resources Analyst

direct: 971.200.8501; mobile: 971.212.0276

650 NE Holladay Street, Suite 900, Portland, OR 97232

GSI Water Solutions, Inc. | www.gsiws.com

pronouns: she/her

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Attachment D

Well Logs

Well 1 (DESC 3023) & Well 4 (DESC 62447)

Application for Groundwater Permit - City of Sisters

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Salem, OR

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.

DESC 3023

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. 155/10E-9

State Permit No. G-9979

(1) OWNER:

Name City of Sisters
 Address Sisters City Hall
Sisters, Oregon 97759

(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

CASING INSTALLED:

Threaded Welded
14" Diam. from + 2 ft. to 100 ft. Gage 250
12" Diam. from 25 ft. to 111 ft. Gage 250
10" Diam. from 0 ft. to 195.6 ft. Gage 250

PERFORATIONS:

Perforated? Yes No
 Type of perforator used ACY. and Machine
 Size of perforations 1/4 in. by 6" XX and 1" by 2"
1200 perforations from 50 ft. to 100 ft.
1560 perforations from 95.6 ft. to 195.6 ft.
 perforations from _____ ft. to _____ ft.

(7) SCREENS:

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

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level Davidson
 Was a pump test made? Yes No If yes, by whom? Drilling
 Yield: 549 gal./min. with 4 ft. drawdown after 1 1/2 hrs.
902 " " " 7'4" " " 4 "
 " 1315 " " " 5'3" " " 1 "
~~XXXXXX~~ PUMP TEST 24 hrs.
 gal./min. with _____ ft. drawdown after _____ hrs.
 Artesian flow _____ g.p.m.
 Temperature of water 46 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement and Bentonite
 Well sealed from land surface to 40 ft.
 Diameter of well bore to bottom of seal 18 in.
 Diameter of well bore below seal 16 in.
 Number of sacks of cement used in well seal 58 sacks
 Number of sacks of bentonite used in well seal 150 lbs. sacks
 Brand name of bentonite Western
 Number of pounds of bentonite per 100 gallons of water 5 1/2 gals. water per 100 lbs. Cement lbs./100 gals.
 Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.
 Did any strata contain unusable water? Yes No
 Type of water? Surface depth of strata 3 feet
 Method of sealing strata off casing and grout
 Was well gravel packed? Yes No Size of gravel: _____
 Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Daschutas Driller's well number _____
 NW 1/4 SW 1/4 Section 9 T. 15 S. R. 10 E. W.M. _____
 Bearing and distance from section of subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 105 ft.
 Static level 85 ft. below land surface. Date 10/2/75
 Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 10"
 Depth drilled 211 ft. Depth of completed well 211 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 and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Overburden	0	2	
Cong. Gray	2	21	
Clay and Cong. Brown	21	29	
Lava - Mild	29	111	
Sandstone & Cong. Brown	111	175	
Cong. Gray - Waterbearing	175	195	
Basalt	195	211	

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JAN 05 1976

FEB 07 2024

WATER RESOURCES DEPT.
 SALEM, OREGON

Salem, OR

Work started 4/3/ 1975 Completed 10/2 1975

Date well drilling machine moved off of well 10/3/ 1975

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] William D. Akers Date 10/15 1975
 (Drilling Machine Operator)

Drilling Machine Operator's License No. 803

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 DAVIDSON DRILLING INC.
 (Person, firm or corporation) (Type or print)

Address 626 N.W. Parshall Way Redmond, Ore. 97751

[Signed] W. Gordon Davidson
 (Water Well Contractor)

Contractor's License No. 548 Date 10/15/ 1975

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

DESC 62447
1/20/2021

WELL I.D. LABEL# L 138648
START CARD # 1049398
ORIGINAL LOG #

(1) LAND OWNER Owner Well I.D.
First Name Last Name
Company CITY OF SISTERS
Address PO BOX 39 525 E. CASCADE AVENUE
City SISTERS State OR Zip 97759

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

(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 MUNICIPAL

(5) BORE HOLE CONSTRUCTION Special Standard [] (Attach copy)
Depth of Completed Well 293.00 ft.

Table with columns: Dia, From, To, Material, SEAL, From, To, Amt, sacks/lbs. Rows include Bentonite Chips and Cement with 5% Bento.

How was seal placed: Method [] A [] B [] C [] D [] E
[] Other POURED DRY
Backfill placed from ft. to ft. Material
Filter pack from ft. to ft. Material Size
Explosives used: [] Yes Type Amount

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

(6) CASING/LINER
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd
Shoe [] Inside [] Outside [] Other Location of shoe(s)
Temp casing [] Yes Dia 20 From + 0 To 200

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type CONTINUOUS WIRE Material 304 SS
Perf/ Casing/ Screen Scrn/slot Slot # of Tele/
Screen Liner Dia From To width length slots pipe size

(8) WELL TESTS: Minimum testing time is 1 hour
[] Pump [] Bailer [] Air [] Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
1970 13 160 24
Temperature 54 °F Lab analysis [] Yes By
Water quality concerns? [] Yes (describe below) TDS amount 112 ppm
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County DESCHUTES Twp 15.00 S N/S Range 10.00 E E/W WM
Sec 9 SW 1/4 of the NE 1/4 Tax Lot 401
Tax Map Number Lot
Lat " or DMS or DD
Long " or DMS or DD
[] Street address of well [] Nearest address
504 S LOCUST ST CREEKSIDE CAMPGROUND WELL#4

(10) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Pre-Alteration
Completed Well 1/19/2021 76.8
Flowing Artesian? [] Dry Hole? []

WATER BEARING ZONES
Depth water was first found 102.00
SWL Date From To Est Flow SWL(psi) + SWL(ft)
10/14/2020 102 165 100 57
10/19/2020 165 177 50 82
1/11/2021 201 280 1970 76.5

(11) WELL LOG
Ground Elevation
Material From To
SANDY PUMICE AND GRAVEL 0 3
GRAY AND BROWN LAVA 3 45
RED CINDERS 45 50
GRAVELS W/BROWN SAND 50 65
SANDSTONE CONGLOMERATE 65 72
GRAY MILD LAVA 72 93
DARK BROWN SANDSTONE 93 102
GRAVELS AND SAND W/BASALT CHIPS 102 127
CEMENTED GRAVELS 127 141
FRACTURED BASALT W/CINDER 141 148
GRAY BASALT 148 165
BROKEN BASALT W/CLAY SEAMS 165 177
HARD GRAY BASALT 177 201
BROWN AND GRAY BROKEN LAVA 201 206
FRACTURED BROWN BASALT 206 233
GRAY WEATHERED BASALT 233 245
BROWN BROKEN BASALT 245 259
GRAY BASALT SOME FRACTURED 259 276
BROKEN BASALT 276 280

Date Started 10/12/2020 Completed 1/19/2021

(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 1852 Date 1/19/2021

Signed JEB ABBAS (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 1/20/2021

Signed JACK ABBAS (E-filed)
Contact Info (optional) JACK ABBAS

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Attachment E

Form M

Application for Groundwater Permit – City of Sisters

Received by OWRD

FEB 07 2024

Salem, OR

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. If any section of this form is not applicable, please write N/A and provide an explanation why it does not apply.
- 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 Sisters	City of Sisters Service Area	City	Paul Bertagna, Public Works Director
List any water suppliers within the same service area and/or any self-supplied industrial user. (Attach an extra sheet, if necessary.)			

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
In order to meet the City's 2045 projected maximum operational demand of 10.95 cfs.	If the new permit were issued in 2025, the expected development deadline would be by 2045.	The City's projected peak demands are expected to exceed the maximum authorized rate of the City's municipal supply groundwater rights. A new groundwater right from existing and planned City wells will be needed, in combination with the City's on-going conservation efforts, to meet the City's demands.

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: Plan approved April 2017.
- Is your system fully metered? Yes No
- Do you perform annual water audits? Yes No
- Annual amount of water produced (MG): 371
(diverted or appropriated)
- Annual amount of water billed for (MG): 316.5*
(metered consumption)

***includes estimated authorized unmetered uses of 5.1 MG.**

- Identify your system's current annual water loss: 14.7%
(difference between the amount of water produced and the water billed for)
- Describe your rate structure and billing schedule: The City has a fixed rate, which is contingent on meter size and a commodity rate of \$1 per 100 cubic feet.
[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.

Present Population being Served:	Source of Information
3,286 in 2021	2021 Portland State Population Research Center Certified Estimates
Historic population growth rate over the past 10 years:	Source of Information
5.21% (2,055 in 2012 to 3,286 in 2021)	Portland State Population Research Center Certified Estimates
Projected Population to be Served in 20 Years:	Source of Estimate/Method Used
7,505 in 2045	Chen, C., Sharygin, E., Whyte, M., Loftus, D., Rynerson, C., Alkitkat, H. (2022). Coordinated Population Forecast for Deschutes County, its Urban Growth Boundaries (UGB), and Area Outside UGBs 2022-2072. Population Research Center, Portland State University.

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Salem, OR

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 (cfs)	Actively Used? (Yes or No) If "No," explain.
Well #2	93889	6/25/1991	1.56	Yes
Well #1, Well #3	88184	2/24/1983	1.78	Yes
Well #3	87247	6/25/1991	1.78	Yes
Wells #1, #2, #3 and #4	G-16794	5/27/2008	2.00	Yes
Eastside Well	96802	3/27/1997	2.15	No

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?

This application is for a new water use permit intended to be used at Wells 1, 4, and 5, which are and will be among the City's primary water supply wells. This water right will increase the maximum authorized rate of the City's municipal water supply groundwater rights from 9.27 cfs to 10.95 cfs.

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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: 2021)

Water Source (Including wholesale water purchases)	Water Right Numbers (Permit and/or Certificate)	Peak or Maximum Demand		Average Demand	
		Maximum Instantaneous Rate (<u>in cfs</u> or gpm)	Maximum Daily Demand (MG)	Average Daily Demand (MG)	Average Annual Demand (MG)
Well #2	93889	1.56	2.94	1.02	371.1
Well #1, Well #3	88184	1.78			
Well #3	87247	1.78			
Wells #1, #2, #3 and #4	G-16794	1.67			
Eastside Well	96802	2.15			

- Per-capita daily demand (in gallons): **309 gpcd**
(Divide average annual water sales demand by population to arrive at consumption, and then divide by 365 to get daily values.)
- Peak season (by month/day): **6/1 to 9/30**
- Peak Season number of hours diverted/pumped (if available): **24**
- Peak season per-capita daily consumption demand (in gallons): **520 gpcd**
(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): **2.88**

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: 2045)

- ~~Current~~ Projected average per capita demand (in gallons per capita per day): **285 *Estimated based on Sisters' Water System Master Plan projected ADD per capita of 301 gpcd, with a reduction in water loss from 14.7 percent to 10 percent.**
- Projected population served in year (2045): **7,505.**
- Projected average annual demand (MG) for 2045: **781.5**
- Projected average daily demand (MG): **2.14**
- ~~Current~~ projected peaking value factor: **2.85**
- Projected maximum daily demand (MG): **6.10**

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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)
Well #2	93889	1.56	6.10	2.14	781.5
Well #1, Well #3	88184	1.78			
Well #3	87247	1.78			
Wells #1, #2, #3 and #4	G-16794	2.00			
Eastside Well	96802	2.15			

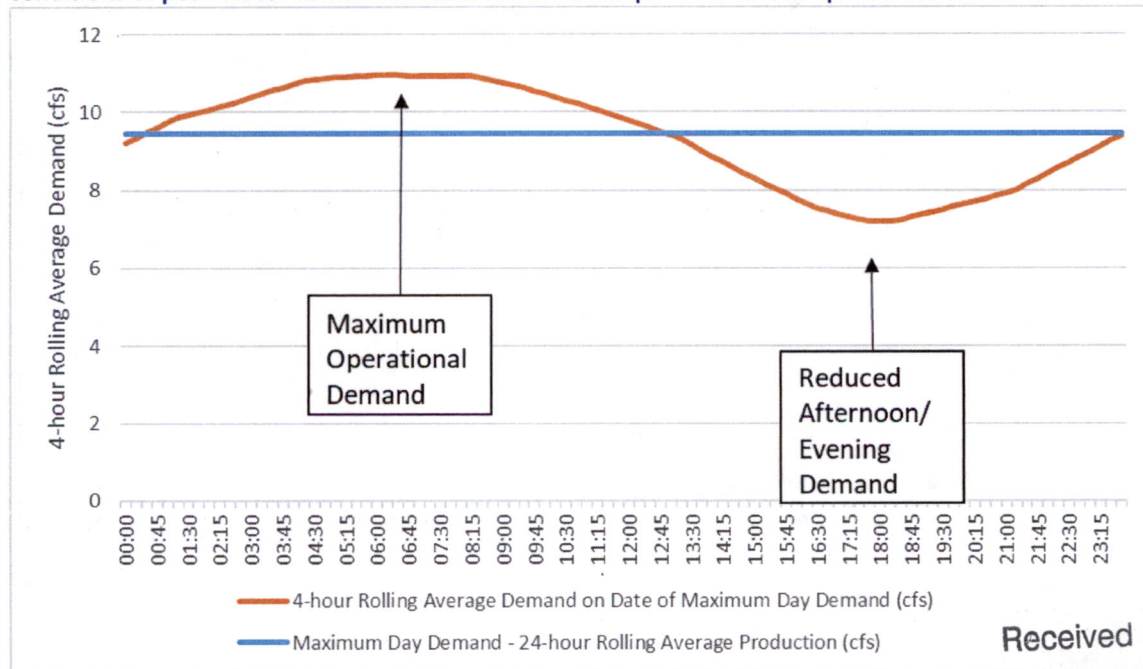
Source or Methodology Used for Demand Projections:

For the purposes of these projections, the City's "maximum operational demand" is based on maximum 4-hour rolling average rates of groundwater production. The City's water demands vary throughout the day, particularly during the peak season. Using the 4-hour rolling average demand reduces the impact of brief and anomalous spikes in source water demand. The City's diurnal water use pattern reflects, in part, restrictions on outdoor watering between 9 AM and 5 PM. Sisters' Supervisory Control and Data Acquisition (SCADA) system is not equipped to track instantaneous projections. However, Sisters assumed that the relationship between maximum daily demand and maximum operational demand would be similar for Sisters in the year 2045 as it is currently for the City of Bend and the City of Redmond. A multiplier was calculated from maximum day demand to maximum operational demand for both Bend and Redmond, and was applied to Sisters' MDD. The multiplier is 1.16, which is the average of 1.15 for Bend and 1.17 for Redmond.

Applying 1.16 to the projected MDD of 9.44 cfs in 2045 yields a maximum operational demand of 10.95 cfs for 2045.

The demand forecast anticipates that the maximum operational demand will grow at the same rate as the City's MDD.

The figure below shows typical 4-hour rolling average pumping rates for a municipal water supplier under conditions of peak water demand to illustrate the concept of maximum operational demand.



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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:

Annual Water Use by Type

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

Note that the below table presents information about water sales from Exhibit 5 in the City of Sisters' 2022 WMCP Progress Report. The projected use in 20 years is scaled up in proportion to projected 2045 demand.

Type	Current Use (2021)		Use In 20 Years (2045)	
	Quantity Diverted Sold (MG):	Percentage of Total Diversion Sales:	Projected Quantity to be Diverted Sold (MG):	Percentage of Total Diversion Sales:
Residential Single Family:	167.2	54%	371.6	54%
Commercial:	76.0	24%	168.9	24%
Institutional¹: Residential Multi-family:	15.1	5%	33.6	5%
Agricultural²: Irrigation-Only:	36.9	12%	82.0	12%
Industrial:	7.4	2%	16.4	2%
City	8.7	3%	19.4	3%
Other: Estimated Unmetered Authorized Uses (hydrants, flushing, flow testing, street sweeping, etc.)	5.1	<2%	11.2	<2%
System Water Loss (Percent of Total Production):	54.7	14.7%	78.1	10%
Total Diverted Sold:	316.5	100%	703.3	100%

¹: Institution use includes water served to hospitals, federal, state, or municipal connections, and school districts.

²: Agricultural use includes any type of customer with a service connection dedicated for the raising of livestock or edible or non-edible crops.

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Attachment F

Conservation Benchmarks

Application for Groundwater Permit - City of Sisters

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Minimum Requirements Checklist

Minimum Requirements (OAR 690-310-0040, OAR 690-310-0050 & ORS 537.140)

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.

Please submit the original application and signatures to the Water Resources Department. Applicants are encouraged to keep a copy of the completed application.

- SECTION 1: Applicant Information and Signature
- SECTION 2: Property Ownership
- SECTION 3: Well Development
- SECTION 4: Sensitive, Threatened or Endangered Fish Species Public Interest Information
- SECTION 5: Water Use
- SECTION 6: Water Management
- SECTION 7: Project Schedule
- SECTION 8: Resource Protection
- SECTION 9: Within a District
- SECTION 10: Remarks

Include the following additional items:

- Land Use Information Form with approval and signature of local planning department (*must be an original*) or signed receipt. **Attachment A**
- 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. **Attachment B**
- Fees - Amount enclosed: **\$3,820**
See the Department's Fee Schedule at www.oregon.gov/owrd or call (503) 986-0900.
- Map that includes the following items: **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 diversion, by reference to a recognized public land survey corner (distances north/south and east/west)
 - Indicate the area of use by Quarter/Quarter and tax lot identified clearly.
 - 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)

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Via electronic mail to wrd_dl_customerservice@water.oregon.gov

January 25, 2024

Katie Ratcliffe
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

RE: Application for a Permit to Use Groundwater, City of Sisters

Dear Katie,

Please find enclosed an application for a permit to use groundwater, which is being filed on behalf of the City of Sisters. The City is proposing to appropriate groundwater at a rate of up to 1.68 cfs from 3 proposed points of appropriation.

The permit application fee of \$3,820 will be mailed to OWRD after we receive the temporary number for this application.

Please let me know if you have any questions or if there's any additional information I can provide. I can be reached at 541-257-9005 or OMcMurtrey@gsiws.com.

Sincerely,
GSI Water Solutions, Inc.

A handwritten signature in black ink that reads "Owen McMurtrey".

Owen McMurtrey
Water Resources Consultant

Cc: Paul Bertagna, City of Sisters Director of Public Works

Enclosures: Groundwater Permit Application and Attachments

City of Sisters 2016 Conservation Program Benchmarks and 2022 Benchmark Status

From the City's 2022 WMCP Progress Report.

Section Requirement	Sub-section Requirement	2016 Benchmarks	2022 Benchmark Status
<p>OAR 690-086-150 (4) A description of the specific activities, along with a schedule that establishes five-year benchmarks, for implementation of each of the following conservation measures that are required of all municipal water suppliers:</p>	<p>(4)(a) Annual Water Audit: An annual water audit that includes a systematic and documented methodology for estimating any un-metered authorized and unauthorized uses</p>	<p>The City will continue to conduct annual city-wide water auditing. City staff will continue to compare consumption and production on a monthly basis and begin compiling a comprehensive year-end audit report.</p>	<p>The City continues to track production and consumption on a monthly basis. The City prepares comprehensive annual production reports, but has not yet incorporated water consumption information into these reports.</p>
	<p>(4)(b) System Metering: If the system is not fully metered, a program to install meters on all un-metered water service connections.</p>	<p>The City will continue to require meters for all new connections.</p>	<p>All water service connections are metered.</p>
	<p>(4)(c) Meter Testing and Maintenance Program</p>	<p>The City will continue its meter testing program, which includes the following measures: Production meters at each of the wells will be tested annually and repaired or replaced as necessary.</p>	<p>Production meters at each of the wells are tested annually using a 4 to 20 milliamp output measurement to ensure the meters are operating properly.</p>
		<p>Large commercial and industrial meters, greater than 2-inches, will be tested semi-annually, or on an as needed basis, and repaired or replaced as necessary.</p>	<p>The City is in the process of replacing all large water meters 2" and larger with new, state of the art OMNI water meters. The City has reduced semi-annual testing of large water meters as a result.</p>
		<p>In addition to the City's 2016 meter testing program, in the next five years, the City will develop and implement a schedule for testing residential water meters.</p>	<p>The City tests and replaces residential water meters as-needed. The City is developing a testing and replacement program for residential meters as part of its 2022 water system master plan.</p>
	<p>(4)(d) Rate Structure: A rate structure under which customers' bills are based, at least in part, on the quantity of water metered at the service connections</p>	<p>In the next five years, the City will complete its water rate study and present the findings to the City Council. As directed by City Council, the City will implement water rate modifications.</p>	<p>The City completed a water and sewer utility rate study in January 2018. The City Council approved the new rate structure and methodology in May of 2018. The new rate structure lowered the base rate for all meter classes and eliminated the base volume allowance of 1,000 cf per month. The commodity charge of \$1 per 100 cf now applies to all customer water use. The City is evaluating additional changes to water rates to promote conservation, with implementation possible during 2022 or 2023.</p>
	<p>(4)(e)* Water Loss Analysis: If the annual water audit indicates that system leakage exceeds 10 percent, a regularly scheduled and systematic program to detect leaks in the transmission and distribution system using methods and technology appropriate to the size and capabilities of the municipal water supplier;</p>	<p>The City will continue its leak repair activities, including implementation of the water line replacement schedule recommended in the City's 2005 Water Master Plan.</p>	<p>The City has continued to implement the water line replacement schedule recommended in the City's 2005 Water Master Plan. Since 2016, the City has replaced approximately 1,400 feet of water main lines. The City plans to replace another 700 feet of water main lines in 2022.</p>
<p>The City will continue to conduct visual inspections, noting any leaks and immediately prepare work orders to fix identified leaks.</p>		<p>The City has continued to conduct visual inspections to identify any leaks. The City also purchased several prototype water sensors from flume™. The sensors were deployed to evaluate possible water leaks beyond the meter on both customer and city water service connections.</p>	

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Section Requirement	Sub-section Requirement	2016 Benchmarks	2022 Benchmark Status
<p><i>Continued</i> OAR 690-086-150 (4) A description of the specific activities, along with a schedule that establishes five-year benchmarks, for implementation of each of the following conservation measures that are required of all municipal water suppliers:</p>	<p>(4)(f) Public Education: A public education program to encourage efficient water use and the use of low water use landscaping that includes regular communication of the supplier's water conservation activities and schedule to customers</p>	<p>The City will provide detailed conservation messages in monthly billings during the summer months (May – September).</p>	<p>The City has continued to provide conservation messages in monthly billings.</p>
		<p>The City will add water conservation tips to its website.</p>	<p>The City's website includes a page describing water conservation strategies. The web page provides advice on improving the efficiency of outdoor water use both during the irrigation season, and weatherizing the system prior to winter. The City is increasing outreach efforts with a campaign to reduce outdoor water use. Between increased awareness of water shortages and the impacts of drought, combined with the City's campaign, the City expects to see increased interest in conservation kits, outdoor moisture meters that the City purchased in 2022, and other water conservation tools.</p>
		<p>Purchase 100 water conservation kits (leak detection tablets, faucet aerators, etc.) to hand-out to customers.</p>	<p>Since 2016, the City distributed an estimated 25 water conservation kits. The City purchased 100 additional water conservation kits in 2022. The City also purchased 31 moisture meters for distribution to customers to help reduce excessive outdoor irrigation water use. In addition to the water conservation kits, the City also purchased several prototype water sensors from flume™. The sensors were deployed to evaluate possible water leaks beyond the meter on both customer and city water service connections.</p>
		<p>Staff will continue to attend 1 to 2 city-wide venues where water conservation information, outdoor water gages and indoor conservation kits would be handed out.</p>	<p>The City had a booth at the Sisters farmer's market prior to the beginning of the pandemic in spring of 2020. The City anticipates returning to the booth at the farmer's market in 2022.</p>
		<p>The City Manager will continue to work with large water users on an on-going basis to improve water conservation.</p>	<p>The City communicates with large commercial water users annually when calculating the number of equivalent dwelling units for sewer rates. The City discusses water conservation opportunities with large water users as part of these communications, as water billings provide the basis for sewer rates.</p>
		<p>Staff will continue to work with Sisters School District to improve water conservation.</p>	<p>The City has continued to work with the School District to improve water conservation. The City is working closely with the school district to incorporate water efficient fixtures and low water use landscape design at a new elementary school building under development for opening in 2023.</p>