

PERMIT AMENDMENT

Name Jarrod Penttila/Oregon State University-Cascades

Address 1500 SW Chandler Ave  
Bend, OR 97702  
jarrod.penttila@OSUCascades.com

Change in POU, APOA  
Date Filed 4/14/2025  
Initial notice date \_\_\_\_\_  
DPD issued date \_\_\_\_\_  
PD issued date \_\_\_\_\_  
PD notice date \_\_\_\_\_  
Date of FO 10/21/2025 Vol 135 Page 887-890

C-Date 8-10-2024  
COBU due date \_\_\_\_\_  
COBU Received date \_\_\_\_\_  
Certificate issued \_\_\_\_\_

Assignments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Irrigation District \_\_\_\_\_

Agent Shane Cochran/The Wallace Group  
scocochran@wallacegroup-inc.com

CWRE \_\_\_\_\_  
CC's list City of Bend

- Oversized map - Location \_\_\_\_\_

DESCRIPTION OF WATER RIGHT(S)

Name of Stream A Well  
Trib. of Deschutes River Basin  
Use Geo-Thermal (Energy Production) County Deschutes  
Quantity of water (CFS) \_\_\_\_\_ No. of Acres \_\_\_\_\_  
Name of ditch \_\_\_\_\_  
App# G-18980 Per # G-18687 Cert # \_\_\_\_\_ PR Date 5/12/2020  
App# \_\_\_\_\_ Per # \_\_\_\_\_ Cert # \_\_\_\_\_ PR Date \_\_\_\_\_  
App# \_\_\_\_\_ Per # \_\_\_\_\_ Cert # \_\_\_\_\_ PR Date \_\_\_\_\_  
App# \_\_\_\_\_ Per # \_\_\_\_\_ Cert # \_\_\_\_\_ PR Date \_\_\_\_\_

FEES PAID  
Date 4-14-2025 Amount \$2,930<sup>00</sup> Receipt # 145031

FEES REFUNDED  
Date \_\_\_\_\_ Amount \_\_\_\_\_ Receipt # \_\_\_\_\_



# Oregon

Tina Kotek, Governor

Water Resources Department

North Mall Office Building

725 Summer St NE, Suite A

Salem, OR 97301

Phone 503 986-0900

Fax 503 986-0904

October 21, 2025

Jarrold Penttila  
1500 SW Chandler Ave  
Bend, OR 97702

REFERENCE: Permit Amendment Application T-14642

Enclosed is a copy of the order approving your Permit Amendment application.

Also enclosed is a superseding permit that incorporates the amendments approved by the final order contained herein. Please read this document and abide by the requirements.

If you have any questions related to the approval of this permit amendment, you may contact your caseworker, Arla Davis, by telephone at (503) 979-3129 or by e-mail at [Arla.L.Davis@water.oregon.gov](mailto:Arla.L.Davis@water.oregon.gov).

Sincerely,

David V. Jones Jr  
Water Rights Services Support  
Transfers and Conservation Section

cc: Jeremy T. Giffin, Watermaster Dist. # 11 (via email)  
Shane Cochran, Agent  
City of Bend, Local Government  
Confederated Tribes of the Warm Springs, Tribe

Enclosure

**BEFORE THE WATER RESOURCES DEPARTMENT  
OF THE  
STATE OF OREGON**

In the Matter of Permit Amendment	)	FINAL ORDER
T-14642, Deschutes County	)	APPROVING AN ADDITIONAL POINT OF
	)	APPROPRIATION AND A CHANGE IN
	)	PLACE OF USE

**Authority**

Oregon Revised Statute (ORS) 537.211 establishes the process in which a water right permit holder may submit a request to change the point of appropriation and/or place of use authorized under an existing water right permit.

**Applicant**

JARROD PENTTILA  
OREGON STATE UNIVERSITY-CASCADES  
1500 SW CHANDLER AVE  
BEND, OR 97702

**Findings of Fact**

1. On April 14, 2025, Jarrod Penttila/Oregon State University-Cascades, filed an application for an additional point of appropriation (APOA) and to change the place of use (POU) under Permit G-18687. The Department assigned the application number T-14642.
2. Notice of the application for the permit amendment was published in the Department's weekly notice on April 22, 2025, pursuant to ORS 540.520(5).
3. On August 7, 2025, the Department received correspondence from Alison K. Toivola, Attorney for the Confederated Tribes of the Warm Springs Reservation of Oregon (Tribe). The Tribe does not object to the Department processing the Transfer Application T-14642, in accordance with applicable law, and the Department's customary practice.
4. On September 2, 2025, the Department contacted the applicant's agent by email regarding deficiencies in the application, specifically an incomplete land use form and discrepancies on Pages 8 and 9 of the application, which would result in enlargement if approved.

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

- On September 4, 2025, the applicant's agent submitted an amended and signed land use form and amended application pages, satisfying the deficiencies and allowing Permit Amendment T-14642 to be approved.
- The permit to be amended is as follows:

**Permit:** G-18687 in the name of OREGON STATE UNIVERSITY - CASCADES  
**Use:** GEO-THERMAL USE (HEAT EXCHANGE)  
**Priority Date:** MAY 12, 2020  
**Max Rate:** 2.23 CUBIC FEET PER SECOND  
**Period of Use:** JANUARY 1 THROUGH DECEMBER 31  
**Source:** PRODUCTION WELL (DESC 61926/L48750) IN DESCHUTES RIVER BASIN

**Authorized Points of Appropriation:**

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
18 S	12 E	WM	6	SE NW	Injection Well - 475 FEET NORTH AND 600 FEET EAST FROM THE NW CORNER OF SECTION 6
18 S	12 E	WM	6	NE SW	Production Well - 80 FEET SOUTH AND 1120 FEET EAST FROM THE NW CORNER OF SECTION 6

**Authorized Place of Use:**

GEO-THERMAL USE (HEAT EXCHANGE)				
Twp	Rng	Mer	Sec	Q-Q
18 S	12 E	WM	6	SE NW

- Permit Amendment Application T-14642 proposes an APOA as follows:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances	Approximate Distance from Authorized POA
18 S	12 E	WM	6	NW SE	Production Well 2 - 320 FEET SOUTH AND 510 FEET EAST FROM THE NW CORNER OF SECTION 6	650 FEET SW

- Permit Amendment Application T-14642 also proposes to change the POU of the permit to:

GEO-THERMAL USE (HEAT EXCHANGE)						
Twp	Rng	Mer	Sec	GLot	Tax Lot(s)	Q-Q
18 S	11 E	WM	1		4300	SE NE
18 S	11 E	WM	1		12300	NE SE
18 S	12 E	WM	6		719	SW NE
18 S	12 E	WM	6		1000/100	NE SW
18 S	12 E	WM	6		719/100	NW SE
18 S	12 E	WM	6	Lot 5	111	
18 S	12 E	WM	6		111/1000/110	SE NW
18 S	12 E	WM	6	Lot 6	2100	

### ***Permit Amendment Review Criteria***

8. The changes would not result in injury to other water rights.
9. The proposed place of use is owned and/or controlled by the permit holder.
10. The changes do not enlarge the permit.
11. The changes do not alter any other terms of the permit.
12. The proposed place of use is contiguous to the authorized place of use.

### **Conclusions of Law**

The additional point of appropriation and change in place of use proposed by Permit Amendment Application T-14642 are consistent with the requirements of ORS 537.211.

### **Now, therefore, it is ORDERED:**

1. The additional point of appropriation and change in place of use proposed by Permit Amendment Application T-14642 are approved.
2. Approval of this permit amendment application does not constitute nor grant legal access onto or through another person's property for purposes of accessing the new point of appropriation or the new place of use.
3. Permit G-18983, in the name of Oregon State University – Cascades, is issued to replace Permit G-18687 and incorporates the amendments approved by this order. Permit G-18687 in the name of Oregon State University - Cascades, is no longer of any force or effect.
4. The combined quantity of water diverted at the new additional point of appropriation (Production Well 2), together with that diverted at the original points of appropriation (Production Well), shall not exceed the quantity of water lawfully available at the original points of appropriation (Production Well).
5. Water use measurement conditions:
  - a. Before water use may begin under this order, the water user shall install a totalizing flow meter, or, with prior approval of the Director, another suitable measuring device, at each point of appropriation (new and existing).
  - b. The water user shall maintain the meters or measuring devices in good working order.
  - c. The water user shall allow the Watermaster access to the meters or measuring devices; provided however, where the meters or measuring devices are located within a private structure, the Watermaster shall request access upon reasonable notice.

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

7. All other terms and conditions of Permit G-18983 remain the same.

Dated in Salem, Oregon on OCT 21 2025



Lisa J. Jaramillo, Transfer and Conservation Section Manager, for  
IVAN GALL, DIRECTOR

Oregon Water Resources Department

Mailing Date: OCT 22 2025

STATE OF OREGON  
 COUNTY OF DESCHUTES  
 PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

OREGON STATE UNIVERSITY - CASCADES  
 1500 SW CHANDLER AVE  
 BEND, OR 97702

This superseding permit is issued to describe an amendment for an additional point of appropriation and a change in place of use under Permit Amendment Application T-14642 and approved by Special Order Volume 135, Page 857, entered OCT 21 2025 this permit supersedes Permit G-18687.

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

APPLICATION FILE NUMBER: G-18980

SOURCE OF WATER: INJECTION WELL, PRODUCTION WELL (DESC 61926/L48750), AND PRODUCTION WELL 2, IN DESCHUTES RIVER BASIN

PURPOSE OR USE: GEO-THERMAL USE (HEAT EXCHANGE)

MAXIMUM RATE: 2.23 CUBIC FEET PER SECOND

PERIOD OF USE: JANUARY 1 THROUGH DECEMBER 31

DATE OF PRIORITY: MAY 12, 2020

**AUTHORIZED POINTS OF APPROPRIATION:**

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
18 S	12 E	WM	6	SE NW	Injection Well - 475 FEET NORTH AND 600 FEET EAST FROM THE NW CORNER OF SECTION 6
Twp	Rng	Mer	Sec	Q-Q	Measured Distances
18 S	12 E	WM	6	NE SW	Production Well - 80 FEET SOUTH AND 1120 FEET EAST FROM THE NW CORNER OF SECTION 6
18 S	12 E	WM	6	NW SE	Production Well 2 - 320 FEET SOUTH AND 510 FEET EAST FROM THE NW CORNER OF SECTION 6

**AUTHORIZED PLACE OF USE:**

GEO-THERMAL USE (HEAT EXCHANGE)						
Twp	Rng	Mer	Sec	GLot	Tax Lot(s)	Q-Q
18 S	11 E	WM	1		4300	SE NE
18 S	11 E	WM	1		12300	NE SE
18 S	12 E	WM	6		719	SW NE
18 S	12 E	WM	6		1000/100	NE SW
18 S	12 E	WM	6		719/100	NW SE
18 S	12 E	WM	6	Lot 5	111	
18 S	12 E	WM	6		111/1000/110	SE NW
18 S	12 E	WM	6	Lot 6	2100	

**Permit Amendment T-14642 Conditions:**

Under Permit G-18687, the combined quantity of water diverted at the new additional point of appropriation (Production Well 2), together with that diverted at the original point of appropriation (Production Well), shall not exceed the quantity of water lawfully available at the original point of appropriation (Production Well).

**Water use measurement conditions:**

- a. Before water use may begin under this order, the water user shall install a totalizing flow meter, or, with prior approval of the Director, another suitable measuring device, at each point of appropriation (new and existing).
- b. The water user shall maintain the meters or measuring devices in good working order.
- c. The water user shall allow the Watermaster access to the meters or measuring devices; provided however, where the meters or measuring devices are located within a private structure, the Watermaster shall request access upon reasonable notice.

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

**Original Permit Conditions:**

**PERMIT SPECIFIC CONDITIONS**

1. Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.
2. **Water Use Measurement, Recording, and Reporting:**
  - A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter at each point of appropriation. The permittee shall maintain the device in good working order.
  - B. The permittee shall allow the watermaster access to the device; provided however, where any device is located within a private structure, the watermaster shall request access upon reasonable notice.

- C. The permittee shall keep a complete record of the volume of water used each month, and shall submit an annual report which includes the recorded water-use measurements to the Department annually, or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water-use information, including the place and nature of use of water under the permit.
- D. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

**3. Static Water Level Measurement:**

The Department requires the water user to obtain, from a qualified individual (see below), and report annual static water levels for each well on the permit. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

The permittee shall report an initial March static water-level measurement once well construction is complete and annual measurements thereafter. Annual measurements are required whether or not the well is used. The first annual measurement will establish a reference level against which future measurements will be compared. However, the Director may establish the reference level based on an analysis of other water-level data. The Director may require the user to obtain and report additional water levels each year if more data are needed to evaluate the aquifer system.

All measurements shall be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed well constructor or pump installer licensed by the Construction Contractors Board. Measurements shall be submitted on forms provided by, or specified by, the Department. Measurements shall be made with equipment that is accurate to at least the standards specified in OAR 690-217-0045. The Department requires the individual performing the measurement to:

- A. Associate each measurement with an owner's well name or number and a Department well log ID; and
- B. Report water levels to at least the nearest tenth of a foot as depth-to-water below ground surface; and
- C. Specify the method of measurement; and
- D. Certify the accuracy of all measurements and calculations reported to the Department.

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

- A. Annual water-level measurements reveal an average water-level decline of three or more feet per year for five consecutive years; or
- B. Annual water-level measurements reveal a water-level decline of 15 or more feet in fewer than five consecutive years; or

- C. Annual water-level measurements reveal a water-level decline of 25 or more feet; or
- D. Hydraulic interference leads to a decline of 25 or more feet in any neighboring well with senior priority.

The period of restricted use shall continue until the water level rises above the decline level which triggered the action or the Department determines, based on the permittee's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or causing substantial interference with senior water rights. The water user shall not allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit. If more than one well is involved, the water user may submit an alternative measurement and reporting plan for review and approval by the Department.

**4. Injection Plan:**

The water user shall develop a plan to monitor and report the impact of water use under this permit. The plan shall be submitted to the Department before water use begins under this permit and shall be subject to the approval of the Department (OAR 690-230-0115).

**5. Injection Well Registration:**

Prior to use of water under this permit, the permit holder must register the injection activity with the Oregon Department of Environmental Quality's Underground Injection Control Program, which can be contacted at 2020 SW 4th Ave, Ste 400, Portland OR 97201, or 503-229-5263.

**6. Non-Consumptive Use:**

This permit is valid if, and only if, 100 percent of the groundwater extracted from the production wells for use under this permit is reinjected back into the authorized injection well in a manner that can be confirmed by the reported flow meter data. Any volume of groundwater diverted from these wells for use under any other water rights must be measured with a dedicated flowmeter at the point where diversion takes place. If this condition is not met, the use is invalid and subject to regulation, including possible immediate cancellation of the permit.

**4. Well Identification Tag:**

Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

**5. Scenic Water Way:**

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

**6. Groundwater Mitigation:**

- A. Mitigation Obligation: 0.00 acre-feet of mitigation water in the General Zone of Impact (located anywhere in the Deschutes Basin above the Madras gage, which is located on the Deschutes River below Lake Billy Chinook).
- B. Mitigation Source: suitable mitigation from mitigation credits, or one or more mitigation projects.
- C. Mitigation water must be legally protected instream in the General Zone of Impact for the life of the permit and subsequent certificate(s). Regulation of the use and/or cancellation of the permit, or subsequent certificate(s) will occur if the required mitigation is not maintained.
- D. The permittee shall provide additional mitigation if the Department determines that average annual consumptive use of the appropriation has increased beyond that used to compute the volume of mitigation water originally.
- E. If mitigation is from a secondary right for stored water from a storage project not owned or operated by the permittee, the use of water under this right is subject to the maintenance and terms and conditions of a valid contract or satisfactory replacement, with the owner/operator of the storage project, a copy of which must be on file in the records of the Water Resources Department.
- F. Failure to comply with these mitigation conditions shall result in the Department regulating the groundwater permit, or subsequent certificate(s), proposing to deny any permit extension application for the groundwater permit, and proposing to cancel the groundwater permit, or subsequent certificate(s).

**STANDARD CONDITIONS**

- 1. If the number, location, source, or construction of any well deviates from that proposed in the permit application or required by permit conditions, this permit may be subject to cancellation, unless the Department authorizes the change in writing.
- 2. If substantial interference with surface water or a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.
- 3. The well(s) shall be constructed and maintained in accordance with the General Standards for the Construction and Maintenance of Water Supply Wells in Oregon. The works shall be equipped with a usable access port adequate to determine water-level elevation in the well at all times.

4. Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.
5. This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.
6. By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

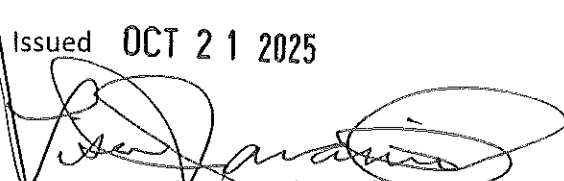
#### DEVELOPMENT AND COMPLETION TIMELINE REQUIREMENTS

1. Prior to receiving a certificate of water right, the permit holder shall submit to the Water Resources Department the results of a pump test meeting the Department's standards for each point of appropriation (well), unless an exemption has been obtained in writing under OAR 690-217. The Director may require water-level or pump-test data every ten years thereafter.

The original permit, issued on August 10, 2021, specified:

2. The deadline to begin construction is August 10, 2026. The deadline to begin construction may not be extended. This permit is subject to cancellation proceedings if the construction deadline to begin is missed.
3. The deadline for complete application of the water is August 10, 2026. If beneficial use of permitted water has not been made before this date, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.
4. Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner.

Issued **OCT 21 2025**



Lisa J. Jaramillo, Transfer and Conservation Section Manager, for  
IVAN GALL, DIRECTOR  
Oregon Water Resources Department

*Caseworker copy*

STATE OF OREGON

COUNTY OF DESCHUTES

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

OREGON STATE UNIVERSITY - CASCADES  
1500 SW CHANDLER AVE  
BEND OR 97702

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

APPLICATION FILE NUMBER: G-18980

SOURCE OF WATER: PRODUCTION WELL (DESC 61926/L48750) IN DESCHUTES RIVER BASIN

PURPOSE OR USE: GEO-THERMAL USE (HEAT EXCHANGE)

MAXIMUM RATE: 2.23 CUBIC FEET PER SECOND

PERIOD OF USE: JANUARY 1 THROUGH DECEMBER 31

DATE OF PRIORITY: MAY 12, 2020

AUTHORIZED POINT OF APPROPRIATION:

POA Name	Twp	Rng	Mer	Sec	Q-Q	Measured Distances
Production Well	18 S	12 E	WM	6	NE SW	80 FEET SOUTH AND 1120 FEET EAST FROM NW CORNER, NESW, SECTION 6

POA Name	Twp	Rng	Mer	Sec	Q-Q	Measured Distances
Injection Well	18 S	12 E	WM	6	SE NW	475 FEET NORTH AND 600 FEET EAST FROM NW CORNER, NESW, SECTION 6

AUTHORIZED PLACE OF USE:

Twp	Rng	Mer	Sec	Q-Q
18 S	12 E	WM	6	SE NW

PERMIT SPECIFIC CONDITIONS

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

## 2. Water Use Measurement, Recording, and Reporting:

- A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter at each point of appropriation. The permittee shall maintain the device in good working order.
- B. The permittee shall allow the watermaster access to the device; provided however, where any device is located within a private structure, the watermaster shall request access upon reasonable notice.
- C. The permittee shall keep a complete record of the volume of water used each month, and shall submit an annual report which includes the recorded water-use measurements to the Department annually, or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water-use information, including the place and nature of use of water under the permit.
- D. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

## 3. Static Water Level Measurement:

The Department requires the water user to obtain, from a qualified individual (see below), and report annual static water levels for each well on the permit. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

The permittee shall report an initial March static water-level measurement once well construction is complete and annual measurements thereafter. Annual measurements are required whether or not the well is used. The first annual measurement will establish a reference level against which future measurements will be compared. However, the Director may establish the reference level based on an analysis of other water-level data. The Director may require the user to obtain and report additional water levels each year if more data are needed to evaluate the aquifer system.

All measurements shall be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed well constructor or pump installer licensed by the Construction Contractors Board. Measurements shall be submitted on forms provided by, or specified by, the Department. Measurements shall be made with equipment that is accurate to at least the standards specified in OAR 690-217-0045. The Department requires the individual performing the measurement to:

- A. Associate each measurement with an owner's well name or number and a Department well log ID; and
- B. Report water levels to at least the nearest tenth of a foot as depth-to-water below ground surface; and

- C. Specify the method of measurement; and
- D. Certify the accuracy of all measurements and calculations reported to the Department.

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

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

The period of restricted use shall continue until the water level rises above the decline level which triggered the action or the Department determines, based on the permittee's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or causing substantial interference with senior water rights. The water user shall not allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit. If more than one well is involved, the water user may submit an alternative measurement and reporting plan for review and approval by the Department.

**4. Injection Plan:**

The water user shall develop a plan to monitor and report the impact of water use under this permit. The plan shall be submitted to the Department before water use begins under this permit and shall be subject to the approval of the Department (OAR 690-230-0115).

**5. Injection Well Registration:**

Prior to use of water under this permit, the permit holder must register the injection activity with the Oregon Department of Environmental Quality's Underground Injection Control Program, which can be contacted at 2020 SW 4th Ave, Ste 400, Portland OR 97201, or 503-229-5263.

**6. Non-Consumptive Use:**

This permit is valid if, and only if, 100 percent of the groundwater extracted from the production wells for use under this permit is reinjected back into the authorized injection well in a manner that can be confirmed by the reported flow meter data. Any volume of groundwater diverted from these wells for use under any other water rights must be measured with a dedicated flowmeter at the point where diversion takes place. If this condition is not met, the use is invalid and subject to regulation, including possible immediate cancellation of the permit.

**4. Well Identification Tag:**

Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

**5. Scenic Water Way:**

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

**6. Groundwater Mitigation:**

- A. Mitigation Obligation: 0.00 acre-feet of mitigation water in the General Zone of Impact (located anywhere in the Deschutes Basin above the Madras gage, which is located on the Deschutes River below Lake Billy Chinook).
- B. Mitigation Source: suitable mitigation from mitigation credits, or one or more mitigation projects.
- C. Mitigation water must be legally protected instream in the General Zone of Impact for the life of the permit and subsequent certificate(s). Regulation of the use and/or cancellation of the permit, or subsequent certificate(s) will occur if the required mitigation is not maintained.
- D. The permittee shall provide additional mitigation if the Department determines that average annual consumptive use of the appropriation has increased beyond that used to compute the volume of mitigation water originally.
- E. If mitigation is from a secondary right for stored water from a storage project not owned or operated by the permittee, the use of water under this right is subject to the maintenance and terms and conditions of a valid contract or satisfactory replacement, with the owner/operator of the storage project, a copy of which must be on file in the records of the Water Resources Department.
- F. Failure to comply with these mitigation conditions shall result in the Department regulating the groundwater permit, or subsequent certificate(s), proposing to deny any permit extension application for the groundwater permit, and proposing to cancel the groundwater permit, or subsequent certificate(s).

## STANDARD CONDITIONS

1. If the number, location, source, or construction of any well deviates from that proposed in the permit application or required by permit conditions, this permit may be subject to cancellation, unless the Department authorizes the change in writing.
2. If substantial interference with surface water or a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.
3. The well(s) shall be constructed and maintained in accordance with the General Standards for the Construction and Maintenance of Water Supply Wells in Oregon. The works shall be equipped with a usable access port adequate to determine water-level elevation in the well at all times.
4. Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.
5. This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.
6. By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

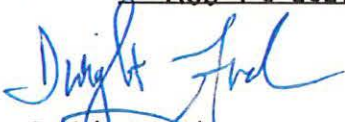
## DEVELOPMENT AND COMPLETION TIMELINE REQUIREMENTS

1. Prior to receiving a certificate of water right, the permit holder shall submit to the Water Resources Department the results of a pump test meeting the Department's standards for each point of appropriation (well), unless an exemption has been obtained in writing under OAR 690-217. The Director may require water-level or pump-test data every ten years thereafter.
2. Construction of the well shall begin within five years of the date of permit issuance. The deadline to begin construction may not be extended. This permit is subject to cancellation proceedings if the construction deadline to begin is missed.
3. Complete application of the water shall be made within five years of the date of permit issuance. If beneficial use of permitted water has not been made before this date, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.

Aug 10, 2026 ✓

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

Issued AUG 10 2021



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

# Land Use Information Form

COPY



**Oregon Water Resources Department**  
 725 Summer Street NE, Suite 100  
 Salem, Oregon 97301-1266  
 (503) 986-0900  
 www.oregon.gov/OWRD

Received by OWRD  
 SEP 04 2025

Salem, OR

NAME Jarrod Penttila / Oregon State University-Cascades			PHONE 541.706.2163		
MAILING ADDRESS 1500 SW Chandler Avenue					
CITY Bend		STATE OR	ZIP 97702	EMAIL Jarrod.Penttila@OSUCascades.com	

## 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:
Map and Tax Lots: 181101D012300, 181101A004300, 1812060000111, 181206C002100, 1812060001000, 1812060000110, 181206A000719, 181206C000100.					Mixed Urban	<input type="checkbox"/> Diverted <input type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	non-consumptive geotherm heat
						<input type="checkbox"/> Diverted <input type="checkbox"/> Conveyed <input type="checkbox"/> Used	
						<input type="checkbox"/> Diverted <input type="checkbox"/> Conveyed <input type="checkbox"/> Used	
						<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:

Nonconsumptive use in Deschutes County, Bend, Oregon.

**NOTE:** A separate Land Use Information Form must be completed and submitted for each county and city, as applicable.

## B. Description of Proposed Use

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

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

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

Estimated quantity of water needed: \_\_\_\_\_<sup>0</sup>     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 non-consumptive geotherm heat

Briefly describe:

Non-consumptive water use for low-temperature-geothermal-heat-exchanger.

**Note to applicant:** For new water right applications only, if the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt on the bottom of page 4 and include it with the application filed with the Oregon Water Resources Department.

See Page 4 →

SEP 04 2025

## For Local Government Use Only

Salem, OR

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 use(s), including proposed construction, are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): Ordinance 2309
- Land uses to be served by the proposed water use(s), 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

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

Name: Karen Swenson Title: Senior Planner  
 Signature: Karen Swenson Date: 9/3/2025  
Digitally signed by Karen Swenson  
 DN: cn=Karen Swenson, o=City of Bend, ou=City of Bend, email=ks@cityofbend.org, c=US  
 Governmental Entity: City of Bend Phone: 541-388-5567

**Receipt Acknowledging Request for Land Use Information**

**Note to Local Government Representative:**  
 Please complete this form and return it to the applicant. **For new water right applications only**, if you are unable to complete this form while the applicant waits, you may complete this receipt and return it to the applicant. If you sign the receipt, you will have 30 days from the date of OWRD's Public Notice of the application to submit the completed Land Use Information Form to Oregon Water Resources Department. Please note while OWRD can accept a signed receipt as part of intake for an application for a new permit to use or store water, a completed Land Use Information Form is required for all other applications.

Applicant Name: \_\_\_\_\_

Staff Name: \_\_\_\_\_ Title: \_\_\_\_\_

Staff Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Governmental Entity: \_\_\_\_\_ Phone: \_\_\_\_\_

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 14642

GW Reviewer Joe Kemper Date Review Completed: 6/24/2025

## Summary of Same Source Review:

The proposed change in point of appropriation is not within the same aquifer as per OAR 690-380-2110(2).

## Summary of Water Level Decline Condition Review:

Water levels at the original point(s) of appropriation have exceeded the allowed decline threshold defined by conditions in the originating water right.

## Summary of Injury Review:

The proposed transfer will result in another, existing water right not receiving previously available water to which it is legally entitled or result in significant interference with a surface water source as per 690-380-0100(3).

## Summary of GW-SW Transfer Similarity Review:

The proposed SW-GW transfer doesn't meet the definition of "similarly" as per OAR 690-380-2130.

*This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations.*



Oregon Water Resources Department  
 725 Summer Street NE, Suite A  
 Salem, Oregon 97301-1271  
 (503) 986-0900  
 www.wrd.state.or.us

## Ground Water Review Form:

- Water Right Transfer
- Permit Amendment
- GR Modification
- Other

Application: T-14642

Applicant Name: Oregon State University Cascades

Proposed Changes:  POA     APOA     SW→GW     RA  
 USE     POU     OTHER

Reviewer(s): Joe Kemper

Date of Review: 6/24/2025

Date Reviewed by GW Mgr. and Returned to WRSD: \_\_\_\_\_

The information provided in the application is insufficient to evaluate whether the proposed transfer may be approved because:

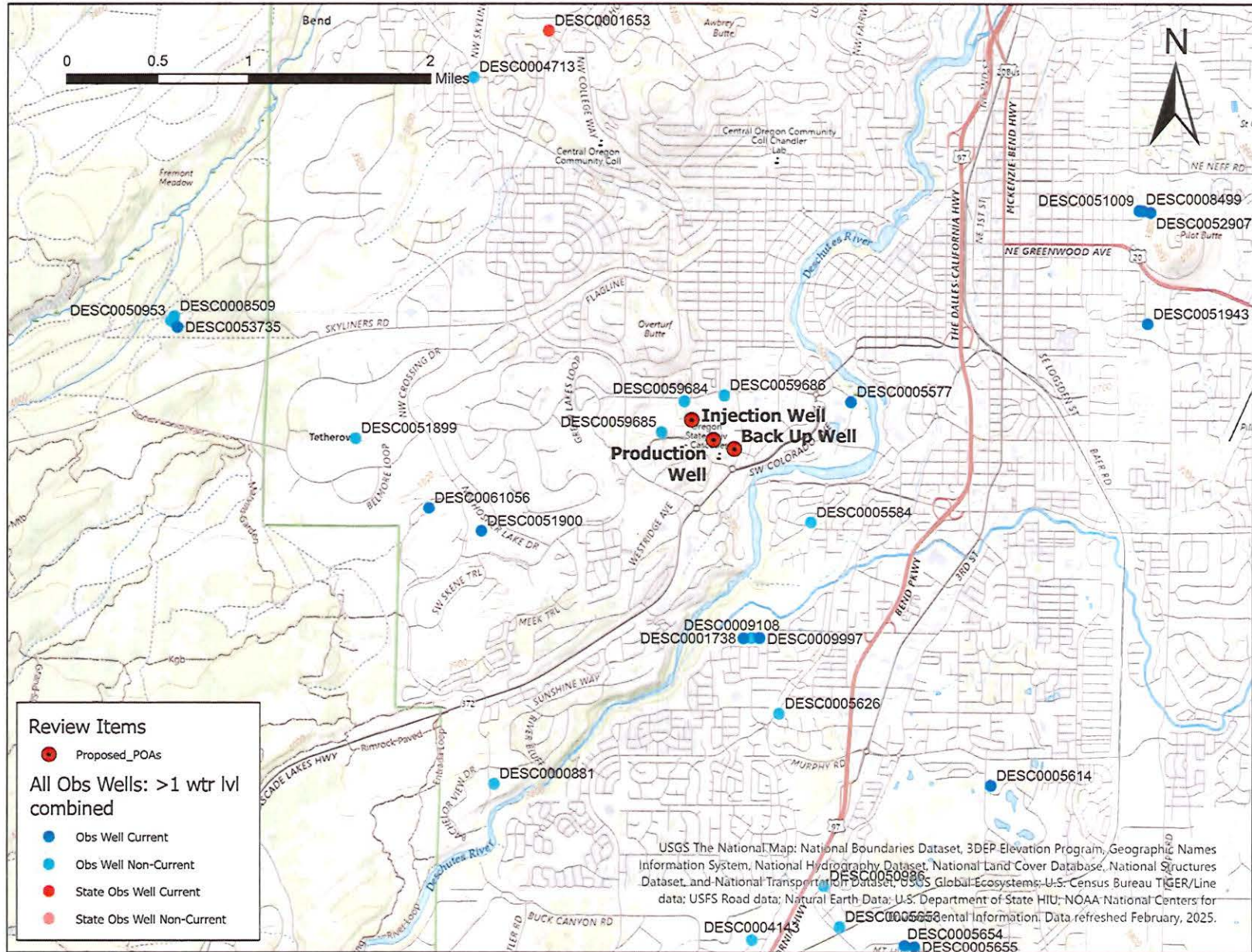
- The water well reports provided with the application do not correspond to the water rights affected by the transfer.
- The application does not include water well reports or a description of the well construction details sufficient to establish the ground water body developed or proposed to be developed.
- Other \_\_\_\_\_

- 
1. Basic description of the changes proposed in this transfer: Permit G-18687 authorizes 2.23 cfs of geothermal use (heat exchange) from two POAs (DESC 62359 & DESC 61926). The use is non-consumptive where all extracted water is reinjected into the groundwater system. This transfer application proposes to 1) add an undrilled APOA as a back up well if/when the current production well fails and 2) expand the place of use to include other parts of the OSU Cascade Campus. Because the permit use is non-consumptive, the expansion of the POU is not considered to be enlargement by the groundwater portion of this review.
  2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?  
 Yes     No    Comments: The current POAs access the Deschutes regional aquifer where it is hosted in Quaternary-aged lavas and tuffs erupted from the Cascades. The proposed POA is only 650 feet away from the current production well and will access the same geology and groundwater source.
  3. a) Is the existing authorized POA subject to a water level decline condition?  
 Yes     No    Comments: Permit G-18687 indicates that the reference level for both POAs shall be the first measurement submitted for the wells.  
 b) If yes, for each POA identify the reference level, most recent spring-high water level, and whether an applicable permit decline condition has been exceeded:

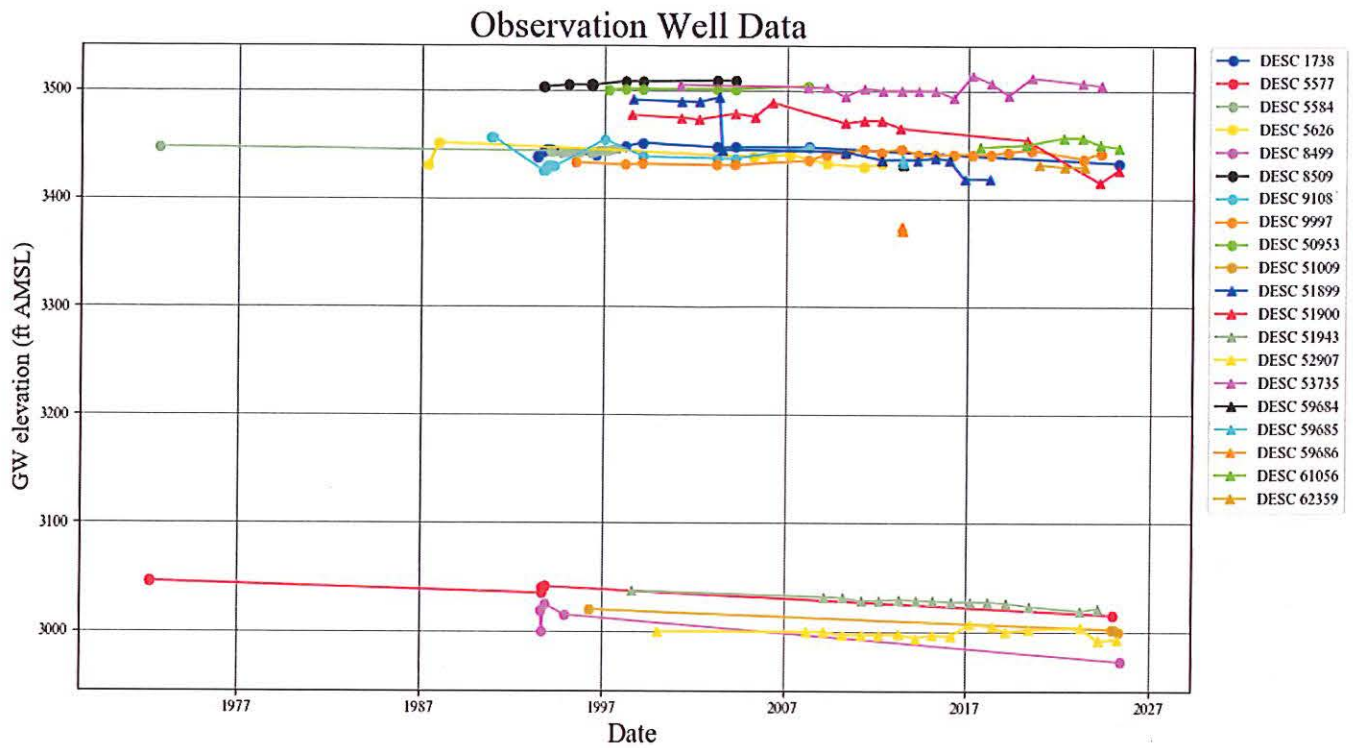
LOGID	Ref. Level (ft blsd)	RL Date	Recent WL	WL Date	Decline (ft)	Exceeded:
DESC 61926	245.5	5/3/2023	NA	NA	NA	No
DESC 62359	257.7	3/30/2022	257.4	5/3/2023	0.3	No

4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?  
 Yes  No Comments: \_\_\_\_\_
- b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.): NA
5. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another ground water right**?  
 Yes  No Comments: There may be short periods of time in which the production well pumps groundwater out of the aquifer that causes some well-to-well interference before the injection well returns that water to the aquifer. The proposed APOA is 650 feet away from the existing production well. The proposed change in pumping location may result in a small change in location of the cone of depression caused by this permit.
- b) If yes, would this proposed change, at its maximum allowed rate of use, likely result in another groundwater right not receiving the water to which it is legally entitled?  
 Yes  No If yes, explain: The permitted use is non-consumptive so any well-to-well interference that results from this permit or the change in production well location is expected to be short-term. Furthermore, the target aquifer at this location is highly permeable and has a saturated thickness of more than 750 feet, so any short-term interference would be very small in magnitude compared to the overall aquifer capacity.
6. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another surface water source**?  
 Yes  No Comments: The proposed APOA is 650 from the current production well. The target aquifer is disconnected from adjacent surface water sources until groundwater begins flowing into the Deschutes and Crooked rivers in the confluence zone (located ~25 miles to the north). The change in well location is negligible when considering the distance to the next point of GW-SW interaction. Additionally, the permitted use is non-consumptive, so there is not expected to be a resulting stream depletion signal.
- b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any **surface water sources** resulting from the proposed change?  
 Stream: NA  Minimal  Significant  
 Stream: NA  Minimal  Significant  
 Provide context for minimal/significant impact: NA
7. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?  
 Yes  No Comments: NA
8. What conditions or other changes in the application are necessary to address any potential issues identified above: \_\_\_\_\_
9. Any additional comments: \_\_\_\_\_

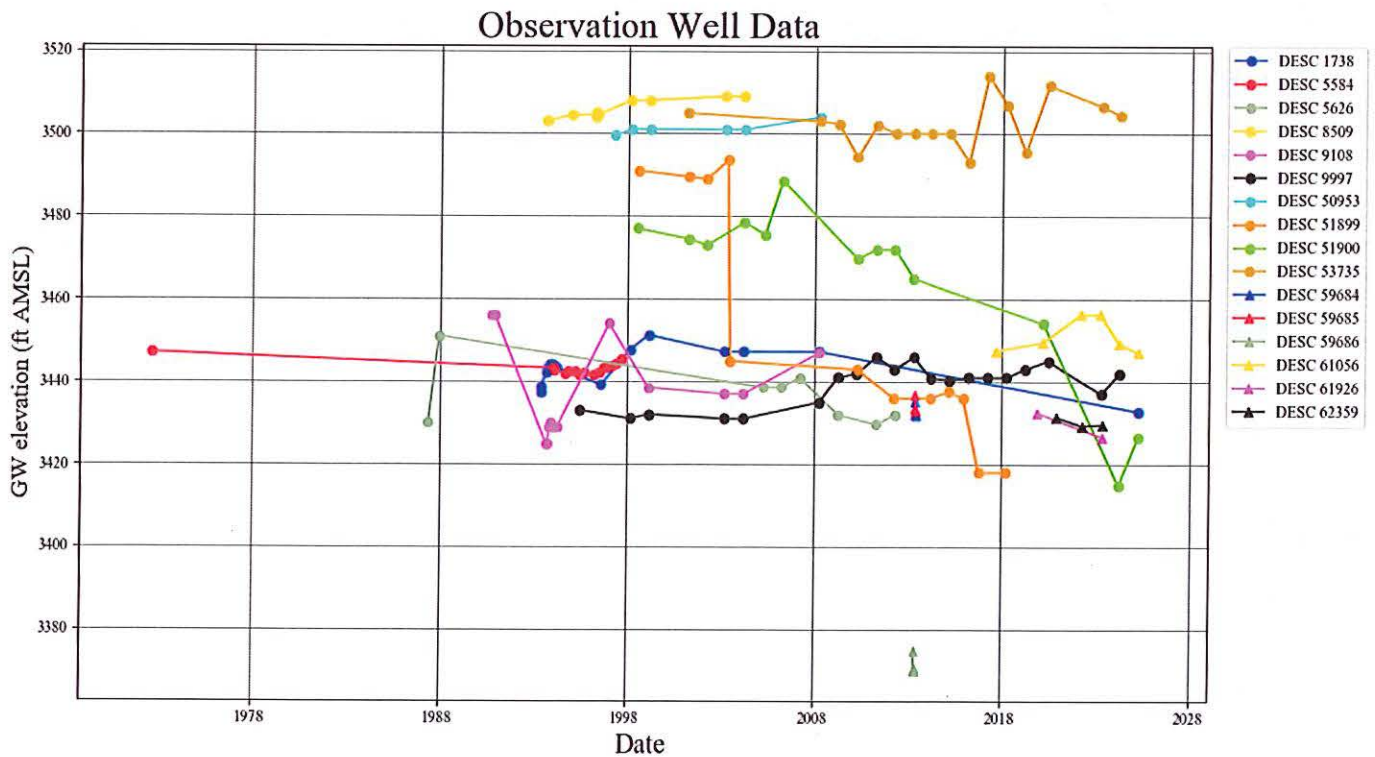
# Transfer Map



# Hydrograph One: Water Levels Across the Bend Area



# Hydrograph Two: Water Level Trend for the Wells in T-14642



# Watermaster Review Form: Water Right Transfer



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

Transfer Application: T-14642

Review Due Date: 05/18/2025

Applicant Name: Jarrod Penttila

Proposed Changes:  POU  POD  POA  USE  OTHER

Reviewer(s): Giffin

Date of Review: 04/21/2025

1. Do you have evidence that the right has not been used in the last 5 years and that the presumption of forfeiture would not likely be rebuttable?  Yes  No If "Yes", attach evidence (e.g. dated aerial photo showing pavement or building on the land for >5 yrs.)
2. Is there a history of regulation on the source that serves this (or these) right(s) that has involved the transferred right(s) and downstream water rights?  Yes  No Generally characterize the frequency of any regulation or explain why regulation has not occurred:
3. Have headgate notices been issued for the source that serves the transferred right(s)?  
 Yes  No  Records not available.
4. In your estimation, after the proposed change, would distribution of water for the right(s) result in regulation of other water rights that would not have occurred if use under the original right(s) was/were maximized?  Yes  No If "Yes", explain:
5. In your estimation, if the proposed change is approved, are there upstream water rights that would be affected?  Yes  No If "Yes", describe how the rights would be affected and list the rights most affected:

6. Check here  if it appears that downstream water rights benefit from return flows resulting from the current use of the transferred right(s)? If you check the box, generally characterize the locations where the return flows likely occur and list the water rights that benefit most:

N/A

7. For POD changes and instream transfers, check here if there are channel losses between the old and new PODs or within the proposed instream reach? If you check the box, describe and, if possible, estimate the losses:

N/A

8. For instream transfers that propose protection of a reach beyond the mouth of the source stream:

N/A Would the quantity be measureable into the receiving stream consistent with OAR 690-077-0015(8)?  Yes  No

9. For POU changes:  N/A Is it likely the original place of use would continue to receive water from the same source?  Yes  No If "Yes", explain:

Non consumptive use.

10. For POU or USE changes:  N/A In your best judgment, would use of the existing right at "full face value," result in the diversion of more water than can be used beneficially and without waste?

Yes  No If "Yes", explain:

11. For POU changes that involve micro-irrigation:  N/A

a. Has the applicant made changes (absent a transfer) to convert to micro-irrigation within the current place of use boundary of the water right proposed for transfer, and previously demonstrated to the Department through monitoring and site inspections by the Watermaster that the proposed transfer will not result in injury or enlargement?

Yes  No If "Yes", explain:

b. Has a temporary transfer of this nature been previously filed and approved on the same lands (or portions thereof) as those lands involved in this transfer?

Yes  No If "Yes", answer the following:

i. Were there any problems with more acres being irrigated (or wetted) than were authorized under the temporary transfer?  Yes  No If "Yes", explain:

ii. Did the designated areas that were to remain dry (or not wetted) under the temporary transfer actually remain dry?  Yes  No If "No", explain:

iii. Did the applicant comply with and meet all of the conditions of the temporary transfer?  Yes  No If "No", explain:

iv. Do you have any other observations regarding the temporary transfer?  Yes  No If "Yes", describe:

v. Did the applicant demonstrate to the Department through monitoring and site inspections by the Watermaster that neither injury nor enlargement occurred as a result of the temporary transfer?  Yes  No If "No", explain:

c. To the best of your knowledge, if this transfer is approved, does it appear that:

i. "Injury" will occur to other water rights that share the same source?  Yes  No If "Yes", explain:

ii. "Enlargement" of the water right being transferred will occur?  Yes  No If "Yes", explain:

12. Are there other issues not identified through the above questions that should be considered in determining whether the change "can be effected without injury to other rights"?

Yes  No If "Yes", explain:

13. What alternatives may be available for addressing any issues identified above:

14. Do conditions need to be included in the transfer order to avoid enlargement of the right or injury to other rights?  No  Yes, as checked and provided below:

For POU changes that involve micro-irrigation, provide the monitoring and reporting conditions necessary to prevent injury/enlargement:

A Headgate should be required prior to diverting water.

Measurement Devices for POD or POA: (if this condition is selected, also fill in the top sections of Page 4)

a. Before water use may begin under this order, the water user shall install a **totalizing flow meter\***, or, with prior approval of the Director, another suitable measuring device,  at each point of diversion/appropriation (new and existing) OR at each new point of diversion/appropriation  with the exception that water rights issued to the Bureau of Reclamation or an irrigation district (or similar entity) are not subject to this condition.

b. The water user shall maintain the meters or measuring devices in good working order.

c. The water user shall allow the Watermaster access to the meters or measuring devices; provided however, where the meters or measuring devices are located within a private structure, the Watermaster shall request access upon reasonable notice.

Reservoir water use measurement: (if this condition is selected, also fill in the top sections of Page 4)

a. Before water use may begin under this order, the water user shall install **staff gages\***, or, with prior approval of the Director, other suitable measuring devices, that measure the entire range and stage between empty and full in each reservoir. Staff gages shall be United States Geological Survey style.

b. Before water use may begin under this order, if the reservoir is located in channel, weirs or other suitable measuring devices must be installed upstream and downstream of the reservoir, and, an adjustable outlet valve must be installed. The water user shall maintain such devices in good working order. A written waiver may be obtained, if in the judgment of the Director, the installation of weirs or other suitable measuring devices, or the adjustable outlet valve, will provide no public benefit.

\* The following alternative device(s) should be substituted for the bold, underlined device in the above selected condition:

- Weir
- Parshall Flume
- Other: \_\_\_\_\_
- Submerged Orifice
- Flow Restrictor

**Oregon Water Resources Department**  
**Measurement Condition Information for the Applicant**  
*(To be sent with the Draft Preliminary Determination or Final Order)*

Transfer #: T- 14642

- In order to avoid enlargement of the right or injury to other rights, a **Totalizing flowmeter** will be required to be installed **prior to diversion of water**, as a condition of this transfer:
  - at each point of diversion/appropriation (new and existing) **OR**
  - at each new point of diversion/appropriation.

For additional information, or to obtain approval of a different type of measurement device, the applicant should contact the area Watermaster:

Watermaster name: **Jeremy Giffin**

District: **11**

Address: **231 Scalehouse Lp, STE 103**

City/State/Zip: **Bend, OR 97702**

Phone: **541-306-6885**

Email: **Jeremy.T.Giffin@water.oregon.gov**

**Note:** *If a device other than the one specified in the Preliminary Determination or Final Order is approved by the Watermaster, fill out and mail the form below to the Salem office.*

\*\*\*\*\*

**Approval of an Alternate Measurement Device**                      **T-**  
*(to be filled out after consultation with the applicant, or after a site visit)*

On behalf of the Director, I authorize use of the following suitable **alternate measurement device**:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Watermaster signature                      District                      Date

If this form is used for approval of an alternative measurement device, it must be mailed to:

Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem, OR 97301-1266

**PERMIT AMENDMENT COVER SHEET**

Transfer: T-14642

Permit Amendment Specialist:

Transfer Type: Permit Amendment Transfer

Reimbursement Authority?

<b>Applicant:</b> Jarrod Penttila 1500 SW Chandler Ave Bend, OR 97702	<b>Agent:</b>	<b>CWRE:</b>
<b>Irrigation District:</b>	<b>Affected Local Gov'ts:</b> City Of Bend	<b>Affected Tribal Gov't:</b> Confederated Tribes of The Warm Springs
<b>BOR Notified (date):</b>		

**Permit(s) Affected**

File Marked	App. File # or Decree Name	Permit Number	Superseding Permit Number
<input type="checkbox"/>	G-18980	G-18687	
<input type="checkbox"/>			
<input type="checkbox"/>			

**Key Dates & Initial Actions (Support Staff)**

Rec'd: April 14, 2025	Proposed Action(s): ADDITIONAL POINT OF APPROPRIATION; PLACE OF USE	
Fees Pd: 2930.00	Acknowledgement Letter Sent <input checked="" type="checkbox"/>	Basin: 5 Deschutes
Initial Public Notice: 4/22/2025	County sent cc: of Ack Letter <input checked="" type="checkbox"/>	County: DESCHUTES
WM District: 11    Jeremy T. Giffin	WM Review request sent:4/18/2025	WM Review date received:
ODFW District:	ODFW Review sent:	ODFW Review date received:
Groundwater	GW Review sent: 4/18/2025	GW Review date received:

**Caseworker Actions: Newspaper Notice and other:**

Newspaper notice needed: <input type="checkbox"/>	Name of Newspaper:		
Newspaper notice sent to coordinator:	Newspaper notice quote requested (NRS1):		
Request for news \$ sent:	News \$ received:		
Affidavit of publication received:	Last day of publication:		
Extension of Time? <input type="checkbox"/>	Assignment? <input type="checkbox"/>	Previous Permit Amendments? <input type="checkbox"/>	WMCP? <input type="checkbox"/>

**Peer Review:**

Document	Drafted	Peer Review	Coordinator	Changes Made	Signature Bin	Signature Date
FO	Date: _____ Initials: _____	Date: _____ Initials: _____	Date: _____ Initials: _____	Date: _____ Initials: _____ Data Review Date: _____	Date: _____ WM Sheet <input type="checkbox"/> ODFW Sheet: <input type="checkbox"/> No. of docs for sig: _____	Date: _____

Special Issues: \_\_\_\_\_

Special Order Volume: Vol. \_\_\_\_\_ Pages \_\_\_\_\_

## Permit Amendment Application Intake Checklist

Permit Amendment # T- 14642

Reviewer <u>Joan</u>	Type of Change(s) Proposed:					
Date <u>4/15/25</u>	<input checked="" type="checkbox"/> POU	<input type="checkbox"/> POD	<input type="checkbox"/> APOD	<input type="checkbox"/> POA	<input checked="" type="checkbox"/> APOA	<input type="checkbox"/> SW to GW
Calculated Fee \$	Use fee calculator on back of this form			Fee Received \$ <u>2930.<sup>00</sup></u>		
Permit: <u>G-18607</u>	Completion Date: <u>G-18980</u>			Check <b>ALL</b> Permits in WRIS to confirm completion date is not expired		
Permit:	Completion Date:					
Permit:	Completion Date:					
Notes: <u>Deschutes County *</u> <u>(Now Consumptive Use)</u>						

<b>Application:</b>				
1.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Have <b>ALL</b> of the applicant's signed and dated the application? If no, whose signature is missing?	
2.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Part 5 of application: Does the information match the description of the explanation on Part 4 of the application?	
3.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	For multiple permits: Each permit proposed for transfer has their own separate completed Part 5, Tables 1 & 2? If no, which permit(s) are missing separate Part 5, Tables 1 & 2?
4.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		Is the proposed place of use contiguous (touching) to the authorized place of use?

<b>Map Requirements:</b>				
4.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Map included & to scale? (Separate map for each permit if more than 3 permits)	
5.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	Map Waiver? The map waiver must be issued by the Department
Notes:				

<b>Attachments:</b>				
6.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	Has the Permit Completion Date expired? (If yes, we cannot accept)	
7.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	Land Use Form included and signed by the County?
8.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	Consent Form included, signed, & notarized (for applicants who are not a permit holder of record)?
9.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	Assignment?
10.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	For changes in POA/APOA – are the well logs included?
11.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	For change in POU within Umatilla County, Supplemental Form U included?

<input type="checkbox"/>	Application complete: no deficiencies identified, assign a T-number and put this checklist in T-folder.
<input type="checkbox"/>	Application DEFICIENT: DO NOT accept - return to applicant with letter explaining deficiencies identified.





# Oregon

Tina Kotek, Governor

## Water Resources Department

North Mall Office Building

725 Summer St NE, Suite A

Salem, OR 97301

Phone 503 986-0900

Fax 503 986-0904

April 18, 2025

Jarrold Penttila/Oregon State University-Cascades  
1500 SW Chandler Ave  
Bend, OR 97702

Reference: Application T-14642

On April 14, 2025, OWRD received your water right Permit Amendment Application. The application was accompanied by \$2930.00. Our receipt number 145031 is enclosed.

By copy of this letter, we are asking the Watermaster for a report regarding the potential for injury to existing water rights which may be caused by the requested change. A review form will also be sent to our groundwater staff to determine whether the proposed well accesses the same source of water as the original well.

This application may require publication of a notice for two consecutive weeks in a newspaper with general circulation in the area where the water right is located. If it is determined that newspaper notice will be required, the Department will prepare the notice and notify you of the cost. You will be responsible for submitting payment to the Department prior to publication of the notice.

Except as provided under ORS 540.510(3) for municipalities, you may not use water in the new place of use or from the new point of appropriation until a final order approving the application has been issued by the Department.

Refer to the following page for a chart showing the steps and expected timelines for the processing of your application.

If you have any questions, please contact the Transfer Section at (503) 986-0935.

Cc: Watermaster Dist. #11, Jeremy T. Giffin (via email)  
Shane Cochran, Agent  
CONFEDERATED TRIBES OF THE WARM SPRINGS, Tribe  
City of Bend, Local Government

Enclosure

# Transmittal

April 11, 2025

From: Shane M. Cochran, R.G.  
Wallace Group

Project: Groundwater Permit Amendment Application for OSU-Cascades  
Permit No. G-18687

To: Oregon Water Resources Department  
725 Summer Street NE, STE A  
Salem, OR 97301

Received  
APR 14 2025

OWRD

To Whom It May Concern:

Included is the Application for Permit Amendment to Groundwater Permit No. G-18687 for the above project along with a check for the permit fees of \$2,930 per page 3 of the application.

Regards,



Shane Cochran, R.G.

Urgent  For Review  Please Comment  Please Reply  For Your Records

14642 -

**STATE OF OREGON  
WATER RESOURCES DEPARTMENT**

725 Summer St. N.E. Ste. A

SALEM, OR 97301-4172

(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # **145031**

INVOICE # \_\_\_\_\_

RECEIVED FROM: <u>Oregon State University</u>	APPLICATION
BY: _____	PERMIT
CASH: <input type="checkbox"/> CHECK:# <u>52116497</u> OTHER: (IDENTIFY) _____	TRANSFER <u>T-14642</u>
<input type="checkbox"/>	TOTAL REC'D \$ <u>2,930.00</u>

<b>1083 TREASURY 4170 WRD MISC CASH ACCT</b>
0407 COPIES \$ _____
OTHER: (IDENTIFY) _____ \$ _____
0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

<b>4270 WRD OPERATING ACCT</b>			
<b>MISCELLANEOUS</b>			
0407 COPY & TAPE FEES <u>4610</u>			\$ _____
0410 RESEARCH FEES			\$ _____
0408 MISC REVENUE: (IDENTIFY) _____			\$ _____
TC162 DEPOSIT LIAB. (IDENTIFY) _____			\$ _____
0240 EXTENSION OF TIME			\$ _____
<b>WATER RIGHTS:</b>	<b>EXAM FEE</b>		<b>RECORD FEE</b>
0201 SURFACE WATER	\$ _____	0202	\$ _____
0203 GROUND WATER	\$ _____	0204	\$ _____
0205 TRANSFER	\$ <u>2,730.00</u>		
<b>WELL CONSTRUCTION</b>	<b>EXAM FEE</b>		<b>LICENSE FEE</b>
0218 WELL DRILL CONSTRUCTOR	\$ _____	0219	\$ _____
LANDOWNER'S PERMIT		0220	\$ _____
OTHER (IDENTIFY) _____			

<b>0536 TREASURY 0437 WELL CONST. START FEE</b>			
0211 WELL CONST START FEE	\$ _____	CARD#	_____
0210 MONITORING WELLS	\$ _____	CARD#	_____
OTHER (IDENTIFY) _____			

<b>0607 TREASURY 0467 HYDRO ACTIVITY</b>			LIC NUMBER
0233 POWER LICENSE FEE (FW/WRD)			\$ _____
0231 HYDRO LICENSE FEE (FW/WRD)			\$ _____
HYDRO APPLICATION			\$ _____

<b>TREASURY</b>	<b>OTHER / RDX</b>
FUND _____	TITLE _____
OBJ. CODE _____	VENDOR # _____
DESCRIPTION _____	\$ _____

RECEIPT: **145031** DATED: 4-14-25 BY: [Signature]

# Application for Permit Amendment

## Part 1 of 5 – Minimum Requirements Checklist



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

**This permit amendment application will be returned if Parts 1 through 5 and all required attachments are not completed and included.**  
For questions, please call (503) 986-0900, and ask for Transfer Section.

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Check all items included with this application. (N/A = Not Applicable)

- Part 1 – Completed Minimum Requirements Checklist.
- Part 2 – Completed Application Map Checklist.
- Part 3 – Application Fee, payable by check to the Oregon Water Resources Department, and completed Fee Worksheet, page 3. Try the new online fee calculator at: [http://apps.wrd.state.or.us/apps/misc/wrd\\_fee\\_calculator](http://apps.wrd.state.or.us/apps/misc/wrd_fee_calculator).
- Part 4 – Completed Applicant Information and Signature.
- Part 5 – Information about Permits to be Amended: **Number of permits to be amended:** 1  
**List the Permits here:** G-18687  
Please include a separate Part 5 for each permit. (See instructions on page 6)
- Completed Permit Amendment Application Map (Does not have to be prepared by a Certified Water Right Examiner).
- N/A Request for Assignment Form and statutory fee. The request for assignment form has to be completed if the applicant is **not** the permit holder of record and needs to be assigned to the permit; **or** the landowner of the proposed place of use is **not** the permit holder of record and needs to be assigned to the permit (the Request for Assignment Form is available online at <https://www.oregon.gov/OWRD/Forms/Pages/default.aspx>). Assignment is not needed if the applicant is the permit holder of record.
- N/A Affidavit(s) of Consent are required from all permit holder(s) of record if the permit is not assigned to the applicant **or** other permit holders of record that are not listed as applicants.
- N/A Oregon Water Resources Department’s Land Use Information Form with approval and signature (or signed land use form receipt stub) from each local land use authority in which water is to be diverted, conveyed, and/or used. Not required if water is to be diverted, conveyed, and/or used only on federal lands or if **all** of the following apply: a) a change in place of use only, b) no structural changes, c) the use of water is for irrigation only, and d) the use is located within an irrigation district or an exclusive farm use zone.
- N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation.
- N/A Geologist Report for a change from a surface water point of diversion to a ground water point of appropriation (well), if the proposed well is more than 500 feet from the surface water source and more than 1000 feet upstream or downstream from the point of diversion. (ORS 540.531(2) or (3)).

**(For Staff Use Only)**

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

Application fee not enclosed/insufficient       Map not included or incomplete  
 Land Use Form not enclosed or incomplete  
 Additional signature(s) required       Part \_\_\_\_\_ is incomplete  
 Other/Explanation \_\_\_\_\_  
 Staff: \_\_\_\_\_ 503- \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

## Part 2 of 5 – Permit Amendment Map Checklist

**Your permit amendment application will be returned if any of the map requirements listed below are not met.**

Please be sure that the map you submit includes all the items listed below and meets the requirements of OAR 690-380-3100, however, the map does **not** have to be prepared by a Certified Water Right Examiner. Check all boxes that apply.

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- N/A If **more than three** permits are involved, separate maps for each permit.
- Permanent quality printed with dark ink on good quality paper.
- The size of the map can be 8½ x 11 inches, 8½ x 14 inches, 11 x 17 inches, or up to 30 x 30 inches. For 30 x 30 inch maps, one extra copy is required.
- A north arrow, a legend, and scale.
- The scale of the map must be: 1 inch = 400 feet, 1 inch = 1,320 feet, the scale of the county assessor map if the scale is not smaller than 1 inch = 1,320 feet, or a scale that has been pre-approved by the Department.
- Township, Range, Section, ¼ ¼, DLC, Government Lot, and other recognized public land survey lines.
- Tax lot boundaries (property lines) are required. Tax lot numbers are recommended.
- Major physical features including rivers and creeks showing direction of flow, lakes and reservoirs, roads, and railroads.
- Major water delivery system features from the point(s) of diversion/appropriation such as main pipelines, canals, and ditches.
- Existing place of use that includes separate hachuring for each water use permit, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. If less than the entirety of the permit is being changed, a separate hachuring is needed for the portion of the permit left unchanged.
- N/A If you are proposing a change in place of use, show the proposed place of use with hachuring that includes separate hachuring for each permit, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions.
- Existing point(s) of diversion or well(s) with distance and bearing or coordinates from a recognized survey corner. This information can be found in your water use permit.
- N/A If you are proposing a change in point(s) of diversion or well(s), show the proposed location and label it clearly with distance and bearing or coordinates. If GPS coordinates are used, latitude-longitude coordinates may be expressed as either degrees-minutes-seconds with at least one digit after the decimal (example – 42°32'15.5") or degrees-decimal with five or more digits after the decimal (example – 42.53764°).

OWRD



### Part 4 of 5 – Applicant Information and Signature

#### Applicant Information

APPLICANT/BUSINESS NAME Jarrod Penttila / Oregon State University-Cascades			PHONE NO. 541-706-2163	ADDITIONAL CONTACT NO.
ADDRESS 1500 SW Chandler Avenue				FAX NO.
CITY Bend	STATE OR	ZIP 97702	E-MAIL Jarrod.Penttila@OSUCascades.com	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

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

AGENT/BUSINESS NAME Shane Cochran / The Wallace Group			PHONE NO. 541-382-4707	ADDITIONAL CONTACT NO.
ADDRESS 62915 NE 18th Street, Suite 1				FAX NO.
CITY Bend	STATE OR	ZIP 97701	E-MAIL scochran@wallacegroup-inc.com	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

Explain in your own words what you propose to accomplish with this permit amendment; and why: Add an additional point of appropriation as a back up well. This well will only be used in a future scenario where the current production well fails.  
If you need additional space, continue on a separate piece of paper and attach to the application as "Attachment 1".

Check this box if this project is fully or partially funded by the American Recovery and Reinvestment Act. (Federal stimulus dollars)

Is the applicant the permit holder of record?  Yes  No

If NO, include either:

- A completed assignment form (with required statutory assignment fee), assigning all or a portion of the permit to the applicant(s), OR
- An affidavit of consent from the permit holder(s) of record that gives permission for the applicant to amend the permit.

Has the Completion ("C") Date of the permit(s) in this application expired?  Yes  No

If YES, this application will not be accepted by the Department.

If NO, what are the completion dates of the permit(s)? August 10, 2026

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APR 14 2025

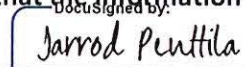
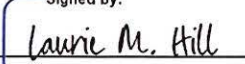
OWRD

- If the permit completion date expires while the Permit Amendment Application is pending, the Department will not approve the Permit Amendment Application until an Extension of Time Application is approved for the permit.
- You may consider using the Reimbursement Authority process to expedite the processing of this Permit Amendment Application if the completion date of the permit expires within 6 months of the date of filing this application.

By my signature below, I confirm that I understand:

- Prior to Department approval of the permit amendment, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the permit is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following newspaper: \_\_\_\_\_

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

	Jarrod Penttila	Associate Director Capital Planning	2/10/2025
Applicant Signature	Print Name (and Title if applicable)		Date
	Laurie M. Hill	cbo	2/10/2025   08:26
Applicant Signature	Print Name (and Title if applicable)		Date

**Check one of the following:**

- The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.
- The permit holder(s) of record will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to the permit holder(s) of record.

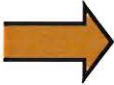
**Check the appropriate box, if applicable:**

- Check here if any of the permits proposed for amendment are or will be located within or served by an irrigation or other water district.

IRRIGATION DISTRICT NAME	ADDRESS	
CITY	STATE	ZIP

- Check here if water for any of the permits supplied under a water service agreement or other contract for stored water with a federal agency or other entity.

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

 To meet State Land Use Consistency Requirements, you must list all local governments (each county, city, municipal corporation, or tribal government) within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME City of Bend	ADDRESS 710 NW Wall Street	
CITY Bend	STATE Oregon	ZIP 97701

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

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**Part 5 of 5 – Water Use Permit Information**

Please use a separate Part 5 for each permit being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

PERMIT # G-18687

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**Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)**  
 (Note: If the POD/POA name is not specified in the permit, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized by the permit or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L-___)	Twp		Rng		Sec	¼ ¼		Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
Production Well	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 61926	18	S	12	E	6	NE	SW	181206 00 01000	80 FEET SOUTH AND 1120 FEET EAST FROM NW CORNER, NE 1/4 SW 1/4, SECTION 6
Injection Well	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 62359	18	S	12	E	6	SE	NW	181206 00 00111	475 FEET NORTH AND 600 FEET EAST FROM NW CORNER, NE 1/4 SW 1/4, SECTION 6
Production Well 2	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed		18	S	12	E	6	NW	SE	181206 CO 00100	320 FEET SOUTH AND 510 FEET EAST FROM NW CORNER, NW 1/4 SE 1/4, SECTION 6
	<input type="checkbox"/> Authorized <input type="checkbox"/> Proposed										

**Check all type(s) of change(s) proposed below (change "CODES" are provided in parentheses):**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Place of Use (POU)        | <input type="checkbox"/> Point of Appropriation/Well (POA)                   |
| <input type="checkbox"/> Point of Diversion (POD)             | <input checked="" type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Additional Point of Diversion (APOD) | <input type="checkbox"/> Surface water POD to Ground Water POA (SW/GW)       |

**Will all of the proposed changes affect the entire water use permit?**

- Yes Complete only the proposed ("to" lands) section of Table 2 on the next page. Use the "CODES" listed above to describe the proposed changes.
- No Complete all of Table 2 to describe the portion of the permit to be changed.

**For a change in place of use:**

**Does the permit holder of record own or control the land TO which the place of use is being moved?**

Yes  No

If NO, the landowner of the land TO which the place of use is being moved **must be assigned to the permit as a permit holder of record** by submitting a completed Request for Assignment form and the required statutory fee for an assignment.

**Is the proposed place of use contiguous to the authorized place of use?**  Yes  No

The permitted place of use can be moved only to lands that are contiguous to the authorized place of use **unless** the change to non-contiguous lands is in furtherance of mitigation or conservation efforts undertaken for the purposes of benefiting a species listed as sensitive, threatened, or endangered under ORS 496.171 to 496.192 or the federal Endangered Species Act of 1973 (16 U.S.C. 1531 to 1544), as determined by the listing agency. Contiguous land being either adjacent land or land separated from the land to which a permit is authorized by roads, utility corridors, irrigation ditches or publicly owned rights of way.

Please use and attach additional pages of Table 2 as needed.  
See page 6 for instructions.

Do you have questions about how to fill-out the tables?  
Contact the Department at 503-986-0900 and ask for Transfer

**Table 2. Description of Changes to Water Use Permit # G-18687**

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.										Proposed Changes (see "CODES" from previous page)	PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.													
Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acres (if applicable)	POD(s) or POA(s) (name or number from Table 1)	Priority Date			Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acres (if applicable)	POD(s) or POA(s) to be used (from Table 1)	Priority Date					
<b>EXAMPLE</b>																								
2	S	9	E	15	NE	NW	100		15.0	POD #1		POU/POD	2	S	9	E	15	NW	NW	100	1	10.0	POD #5	
"	"	"	"	"	"	"	"	"	EXAMPLE	"		"	2	S	9	E	15	SW	NW	200		5.0	POD #6	
18	S	12	E	6	NE	SW				Production Well	05/12/20		18	S	12	E	6	NE	SW	1000			Production Well	05/12/20
18	S	12	E	6	SE	NW				Injection Well	05/12/20		18	S	12	E	6	SE	NW	111			Injection Well	05/12/20
												APOA	18	S	12	E	6	NW	SE	100			Production Well 2	Production Well
TOTAL ACRES										TOTAL ACRES														

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Additional remarks: Acreage not applicable, non-consumptive geothermal heat exchanger. APOA of 'Production Well 2' in addition to current authorized POA 'Production Well'.

Please use and attach additional pages of Table 2 as needed.  
See page 6 for instructions.

Do you have questions about how to fill-out the tables?  
Contact the Department at 503-986-0900 and ask for Transfer

**Table 2. Description of Changes to Water Use Permit # G-18687**


List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change.  
If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.										Proposed Changes (see "CODES" from previous page)	PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.													
Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acres (if applicable)	POD(s) or POA(s) (name or number from Table 1)	Priority Date			Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acres (if applicable)	POD(s) or POA(s) to be used (from Table 1)	Priority Date					
<b>EXAMPLE</b>																								
2	S	9	E	15	NE	NW	100		15.0	POD #1		POU/POD	2	S	9	E	15	NW	NW	100	1	10.0	POD #5	
"	"	"	"	"	"	"	"	"	EXAMPLE	"		"	2	S	9	E	15	SW	NW	200		5.0	POD #6	
18	S	12	E	6	SE	NW					05/12/20	POU	18	S	12	E	6			111	Lot 5			
												POU (continued)	18	S	12	E	6			2100	Lot 6			
												POU (continued)	18	S	12	E	6	SE	NW	111/1000/110				
												POU (continued)	18	S	11	E	6	NE	SW	1000/100				
												POU (continued)	18	S	11	E	6	SW	NE	719				Received
												POU (continued)	18	S	11	E	6	NW	SE	719/100				APR 14 2025
												POU (continued)	18	S	11	E	1	SE	NE	4300				OWRD
												POU (continued)	18	S	11	E	1	NE	SE	12300				
TOTAL ACRES										TOTAL ACRES														

Additional remarks: POU change from T18S R12E Section 6 SENW to expand to eight tax lots, map & TL 181101D012300, 181101A004300, 1812060000111, 181206C002100, 1812060001000, 1812060000110, 181206A000719, 181206C000100.

Are there other water rights certificates, water use permits or ground water registrations associated with the "from" or "to" lands?  Yes  No

If YES, list the other certificate, permit, or ground water registration numbers: \_\_\_\_\_

 If the permit(s) are for irrigation or supplemental irrigation use, other water rights existing on the same land for irrigation that are subject to transfer must either change concurrently or be cancelled. Any change to a water right certificate or ground water registration must be filed separately in a water right transfer application or ground water registration modification application, respectively.

**For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:**

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map. (Tip: You may search for well logs on the Department's web page at: [http://apps.wrd.state.or.us/apps/gw/well\\_log/Default.aspx](http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx))

**AND/OR**

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

**Table 3. Construction of Point(s) of Appropriation**

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well, OWRD Well ID Tag No. L-____	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well - specific rate (cfs or gpm). If less than full rate of water right
Production Well 2	No		503'	12"		0-70'	403'-503'		Basalt	1200 gpm

Notes: This is a best estimate of the well and is subject to changes. The 1200 gpm is the current allotted water volume for the existing permit.

14642 -

Received  
APR 14 2025

# 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

**Received**  
**APR 14 2025**

NAME Jarrod Penttila / Oregon State University-Cascades				PHONE 541.706.2163	
MAILING ADDRESS 1500 SW Chandler Avenue					
CITY Bend		STATE OR	ZIP 97702	EMAIL Jarrod.Penttila@OSUCascades.com	

## 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:
18 S	12 E	6	NW SE	100	Mixed Urban	<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	non-consumptive geotherm heat
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
						<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:

Nonconsumptive use in Deschutes County, Bend, Oregon.

**NOTE:** A separate Land Use Information Form must be completed and submitted for each county and city, as applicable.

## B. Description of Proposed Use

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

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

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

Estimated quantity of water needed: 0     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 non-consumptive geotherm heat

Briefly describe:

Non-consumptive water use for low-temperature-geothermal-heat-exchanger.

**Note to applicant:** For new water right applications only, if the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt on the bottom of page 4 and include it with the application filed with the Oregon Water Resources Department.

## For Local Government Use Only

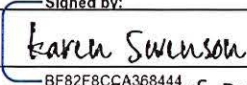
The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land use plan. Do not include approval 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 use(s), including proposed construction, are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): Ordinance 2309
- Land uses to be served by the proposed water use(s), 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
	Received	<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
	APR 14 2025	<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
	OWRD	<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 Oregon Water Resources Department regarding this proposed use of water in the box below or on a separate sheet.

Name: Karen Swenson Title: Senior Planner  
Signed by:  
 Signature:  Date: 1/9/2025 | 12:14:32 PST  
BF82F8CC-A36844  
 Governmental Entity: City of Bend Phone: 541-388-5567

### Receipt Acknowledging Request for Land Use Information

**Note to Local Government Representative:**

Please complete this form and return it to the applicant. **For new water right applications only**, if you are unable to complete this form while the applicant waits, you may complete this receipt and return it to the applicant. If you sign the receipt, you will have 30 days from the date of OWRD's Public Notice of the application to submit the completed Land Use Information Form to Oregon Water Resources Department. Please note while OWRD can accept a signed receipt as part of intake for an application for a new permit to use or store water, a completed Land Use Information Form is required for all other applications.

Applicant Name: \_\_\_\_\_  
 Staff Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Staff Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Governmental Entity: \_\_\_\_\_ Phone: \_\_\_\_\_

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

DESC 61926

3/23/2020

WELL I.D. LABEL# L 48750  
START CARD # 1045085  
ORIGINAL LOG #

(1) LAND OWNER Owner Well I.D. \_\_\_\_\_  
First Name JARROD Last Name PENTTILA  
Company OREGON STATE UNIVERSITY  
Address 1500 SW CHANDLER AVE.  
City BEND State OR Zip 97702

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

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

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

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

(5) BORE HOLE CONSTRUCTION Special Standard  (Attach copy)  
Depth of Completed Well 512.00 ft.

BORE HOLE SEAL

Dia	From	To	Material	From	To	Amt	sacks/ lbs
16	0	70	Bentonite Chips	0	70	92	S
12	70	512				Calculated	80.63
						Calculated	

How was seal placed: Method   B  C  D  E  
 Other Poured in place  
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  
  10  3 412 .250       
Shoe  Inside  Outside  Other Location of shoe(s) \_\_\_\_\_  
Temp casing  Yes Dia \_\_\_\_\_ From + \_\_\_\_\_ To \_\_\_\_\_

(7) PERFORATIONS/SCREENS  
Perforations Method \_\_\_\_\_  
Screens Type Johns \_\_\_\_\_ Material Stainless Steel  
Perf/ Casing/ Screen Screen Liner Dia From To Sern/slot width Slot length # of slots Tele/ pipe size  
Screen Casing 12 412 512 .1 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air  Flowing Artesian  
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  
1200 13.3 410 2

Temperature 50 °F Lab analysis  Yes By Water Systems Engineering  
Water quality concerns?  Yes (describe below) TDS amount 76 mg/L  
From To Description Amount Units

(9) LOCATION OF WELL (legal description)  
County DESCHUTES Twp 18.00 S N/S Range 12.00 E E/W WM  
Sec 6 NE 1/4 of the SW 1/4 Tax Lot 100  
Tax Map Number 181206C000100 Lot \_\_\_\_\_  
Lat \_\_\_\_\_ " or 44.04403200 DMS or DD  
Long \_\_\_\_\_ " or -121.33428200 DMS or DD  
 Street address of well  Nearest address

1500 SW CHANDLER AVE., BEND OR 97702

(10) STATIC WATER LEVEL  
Date SWL (psi) + SWL (ft)  
Existing Well / Pre-Alteration \_\_\_\_\_  
Completed Well 11/22/2019 \_\_\_\_\_ 248.5  
Flowing Artesian?  Dry Hole?

WATER BEARING ZONES Depth water was first found 270.00

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
11/12/2019	250	512	1200		<input checked="" type="checkbox"/> 248.45

(11) WELL LOG Ground Elevation 3676.00

Material	From	To
Brown Sand	0	10
Pumice	10	20
Tuff	20	50
Scoria with Basalt	50	90
Black Sand	90	100
Basalt	100	110
Scoria with Basalt	110	220
Basalt	220	230
Basalt & Scoria	230	250
Sandy Basalt	250	260
Basalt & Scoria	260	270
Basalt	270	340
Basalt & Scoria	340	380
Basalt	380	400
Scoria	400	415
Basalt	415	495
Basalt & Scoria	495	512

Date Started 10/28/2019 Completed 3/14/2020

(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 \_\_\_\_\_ Date \_\_\_\_\_  
Signed \_\_\_\_\_

(bonded) Water Well Constructor Certification  
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. 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 1796 Date 3/23/2020  
Signed CHRIS HUMPHRIES (E-filed) 14642  
Contact Info (optional) Chirs Humphries Jensen Drilling Company



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

**DESC 61926**

3/23/2020

Received

APR 14 2025

OWRD

Map of Hole

**STATE OF OREGON  
WELL LOCATION MAP**

This map is supplemental to the WATER SUPPLY WELL REPORT

**Oregon Water Resources Department**  
725 Summer St NE, Salem OR 97301  
(503)988-0900



**LOCATION OF WELL**

Latitude: 44.044032 Datum: WGS84

Longitude: -121.334282

Township/Range/Section/Quarter-Quarter Section:

WM18.00S12.00E6NESW

Address of Well:

1500 SW CHANDLER AVE., BEND OR 97702

**Well Label: 48750**

**Printed: March 23, 2020**

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

Provided by well constructor





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

DESC 62359

11/27/2020

Received

APR 14 2025

OWRD

Map of Hole

STATE OF OREGON  
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department

725 Summer St NE, Salem OR 97301  
(503)988-0900



LOCATION OF WELL

Latitude: 44.04560800 Datum: WGS84

Longitude: -121.33672500

Township/Range/Section/Quarter-Quarter Section:

WM18.00S12.00E6SENW

Address of Well:

1500 SW CHANDLER AVE., BEND OR 97702

Well Label: 139051

Printed: November 27, 2020

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

Provided by well constructor

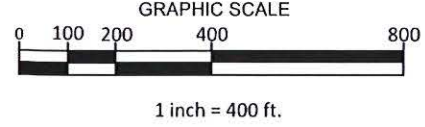


14042

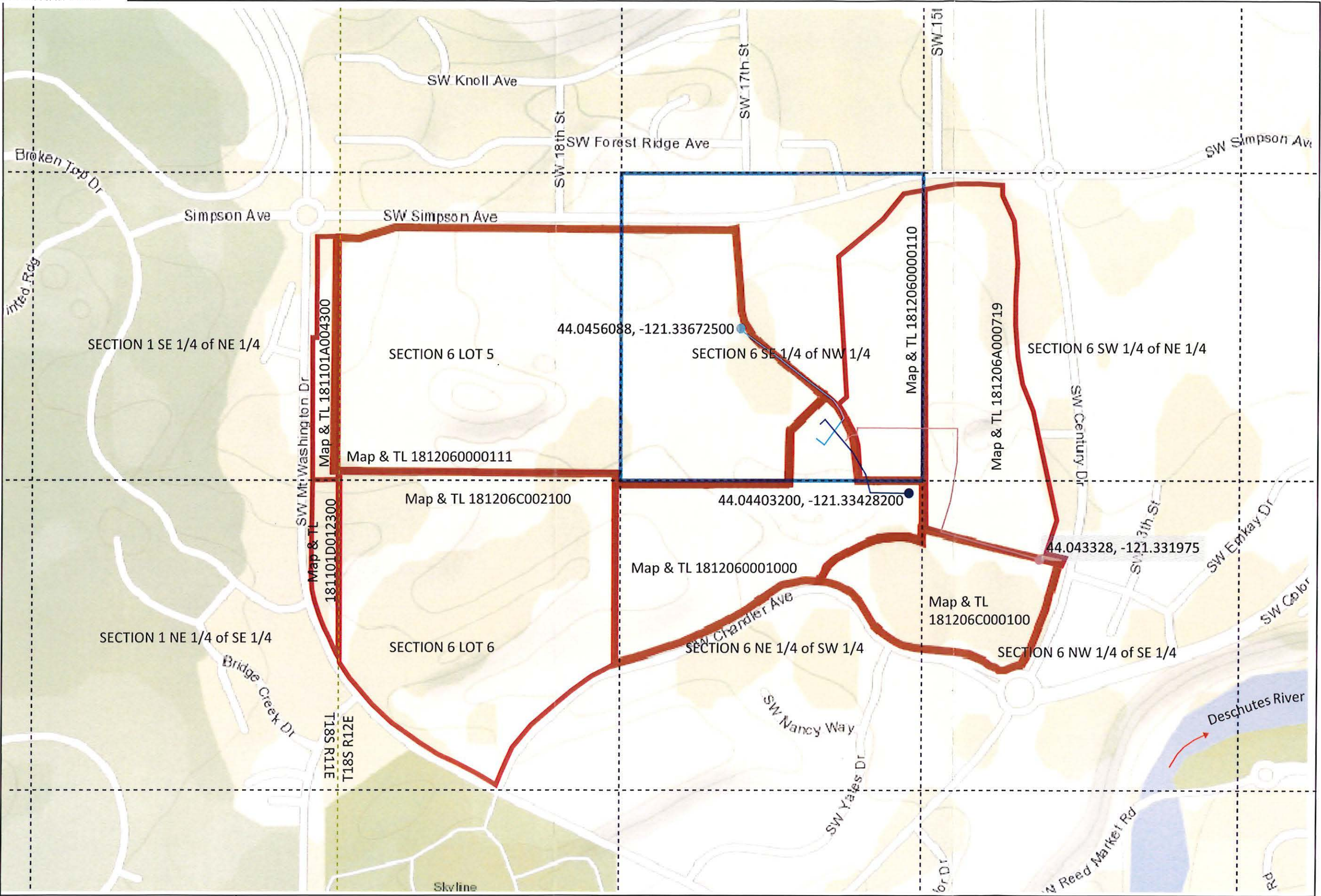
### LEGEND

-  TAX LOT PERIMETER AND/OR PROPERTY LINE AND PROPOSED PLACE OF USE CHANGE
  -  QUARTER QUARTER SECTIONS (40 ACRES EACH) BOUNDARIES
  -  TOWNSHIP AND RANGE BOUNDARY
  -  EXISTING INJECTION WELL AND DELIVERY PATH
  -  EXISTING PRODUCTION WELL AND DELIVERY PATH
  -  PROPOSED PRODUCTION WELL 2 AND DELIVERY PATH
  -  RIVER FLOW DIRECTION
  -  CURRENT PLACE OF USE
- PRIORITY DATE MAY 12, 2020

Received  
APR 14 2025  
OWRD



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PERMIT AMENDMENT MAP  
PERMIT G-19687 AMENDMENT  
OREGON STATE UNIVERSITY - CASCADES  
1500 SW CHANDLER AVENUE  
BEND, OREGON

14642

PROJECT NO.:	24194(1)	FIGURE	1
DRAWN ON:	10/30/2024		
DRAWN BY:	AGW		
CHECKED BY:	SMC		

