

CW60



State of Oregon
Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900

Application for Allocation and Use of Conserved Water

Please type or print in dark ink. If your application is found to be incomplete, inaccurate or does not include the required fees, we will return it to you. If any requested information does not apply to your application, insert "n/a." If you need additional space to answer any of the questions, attach a separate sheet of writing paper and reference the section number and question. A summary of review criteria and procedures that are generally applicable to these applications is available at www.wrd.state.or.us/OWRD/PUBS/forms.shtml.

1. APPLICANT INFORMATION

Name: Sherwood School District
Address: 23295 SW Main Street, Sherwood, OR 97140
Phone(s): 503-825-5000
*Fax: 503-825-5001 *E-Mail address: wlowry@sherwood.k12.or.us
*Optional information

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2. AGENT INFORMATION

The agent listed is authorized to represent the applicant in all matters relating to this allocation of conserved water application.

Name: Martha O. Pagel, Schwabe Williamson & Wyatt
Address: 530 Center Street, Suite 400, Salem, OR 97301
Phone(s): 503-540-4260
*Fax: _____ *E-Mail address: mpagel@schwabe.com
*Optional information

3. IRRIGATION & WATER CONTROL DISTRICTS

Is the project within the boundaries of an irrigation district or water control district?
 Yes No

If yes, include Exhibit E and list the name and mailing address of the district:

Did an irrigation district organized under ORS Chapter 545 or a water control district organized under ORS Chapter 553 file this allocation of conserved water?

Yes No

If yes, when was the District's OAR 690-018-0025 allocation of conserved water policy adopted? _____

4. CURRENT WATER RIGHT INFORMATION

A separate page providing the information in Section 4 must be completed for each certificate, permit, decree, or other right involved in the proposed allocation of conserved water.

Water Right Subject to Transfer (check and complete one of the following):

<input checked="" type="checkbox"/> Certificated Right	<u>85185</u> Certificate Number	<u>G-11787</u> Permit Number or Decree Name
<input type="checkbox"/> Adjudicated, Un-certificated Right	_____ Name of Decree	_____ Page Number
<input type="checkbox"/> Permit for which Proof has been Approved	_____ Permit Number	_____ Date Claim of Beneficial Use Submitted
<input type="checkbox"/> Transferred Right for which Proof has been Filed	_____ Previous Transfer Number	_____ Date Claim of Beneficial Use Submitted

Name on Permit, Certificate, or Decree: Sherwood School District & Walter W. Labahn
County: Washington

Provide the following information about the water right of record:

1. Priority Date: June 21, 1991
2. Source of Water: Groundwater
3. Type of Use: Irrigation

Does the application have a water right involving more than one water right holder?

Yes No

If yes, are all water right holders applying for this allocation of conserved water?

Yes No. If no, see Exhibit J.

A) What is the maximum rate and annual duty (volume) of water that may be diverted as stated on the water right of record? *(If the water right is only limited by rate, do not list a duty, and conversely, if the water is only limited by duty, do not list a rate.)*

1. Rate* (cfs): 0.156

Note: 1 miner's inch = 1/40 cfs; 1 cfs = 448.8 gpm

2. Duty* (acre feet): 2.5 acre-ft/acre (12.50 acres included in this application)

Note: 1 cfs = 1.983471 ac-ft/day

* If there are multiple **Priority Dates** on the water right, list the rate and duty by priority date.

B) What is the maximum amount of water that can be diverted using the pre-project facilities? *(If the water right is only limited by rate, do not list a duty, and conversely, if the water is only limited by duty, do not list a rate.)*

1. Rate (cfs): 0.156

2. Duty (acre feet): 2.5 acre-ft/acre (12.50 acres included in this application)

C) Describe the pre-project water delivery system. Include information on the diversion structure, pumps, and conveyance facilities (including canals, pipelines and sprinklers used to divert, convey and apply the water at the authorized place of use). *Provide sufficient detail to confirm that the applicant is ready, willing, and able to exercise the right.*

General

The following description is for the water delivery system that was in place up until approximately September 2007. At that time, the Sherwood School District purchased a portion of the irrigated area under this certificate. All of the water delivery system was dismantled or abandoned except the well itself.

Well Data

The original well was drilled sometime in the fall of 1959 by an unknown well drilling company from Milwaukie, Oregon, to a depth of 315 feet. An 8-inch diameter steel casing was installed

The well was deepened by Schneider Drilling Co. from October 2 to October 5, 1993, to a depth of 408 feet. No additional casing was installed. As result from this work, the total open hole portion of the well in the basalt formation is from 236 feet to 408 feet deep.

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The well casing extends 7.5 inches above the concrete floor of the well house. It is sealed with a well seal. A 3-inch galvanized tee is threaded onto the well seal and supports the 3-inch discharge column, pump and motor. An air line and a direct reading gauge are provided to measure water level in the well. There are no other access ports or casing vent.

A pump test of the well was performed on November 26, 1997 by Schneider Drilling Co. Prior to pumping, the static water level was 27 feet. After pumping for five (5) hours, the water level was 81 feet 7 inches. A copy of the pump test report was submitted to the Oregon Water Resources Department.

Pump Data

The pump is a Goulds submersible, Model 90L10 (10 HP), set at 315 feet, with a 3-inch discharge column.

Motor Data

The motor is a Franklin submersible, Model 2336029020, 10 HP, 3450 rpm, 230V, 3-phase unit.

Piping

Wellhead: The pump discharge is 3-inch diameter steel. It passes through a 3-inch Micrometer turbine meter which totalizes flow in gallons and measures instantaneous flow in gallons per minute (gpm). The line then is connected to a 3-inch diameter steel header with three (3) 2-inch outlets connected to three (3) Well-x-Trol, 119 gallon capacity each, pressure tanks. From the manifold, the 3-inch diameter steel discharge piping is connected to a 3-inch diameter gate valve. After the gate valve, the piping changes to 3-inch diameter PVC as it leaves the well house. Outside the well house, the 3-inch diameter PVC main is connected to a buried tee

Permanent Pipe: Permanent and buried pipe includes 3-, 2- and 1½-inch PVC mains in the locations (shown on the final proof survey map. The 3-inch and 2-inch mains contain risers for connection of portable pipe.

Portable Pipe: Portable pipe consists of the following:

- 30 lengths of 3-inch diameter by 40 feet long aluminum pipe = 1,200 feet
- 40 lengths of 1½-inch diameter by 30 feet long aluminum pipe = 1,200 feet

Sprinkler Heads: The sprinkler heads used on the portable piping consist of 12 Rainbird Model 30, ¾" full circle brass impact units with 3/16" nozzle (6.8 gpm each at 45 psi), and approximately 30 Rainbird Model 20JH, 112" full circle impact units with 5/32-inch nozzle (4.7 gpm each at 45 psi). The ¾" sprinklers are used with the 3" diameter portable piping and the 1/2" sprinklers are used with the 1 1/2" diameter portable piping.

5. CONSERVATION MEASURES

A) Describe the type of project, check all that apply:

- On-Farm efficiency project
- Distribution project, such as a ditch piping or lining project

Other, Construction of new high efficiency sprinkler system for the school grounds to replace the prior combination of a permanent fixed head sprinkler system and a portable pipe sprinkler system that was used for irrigation of nursery stock.

B) Describe the proposed changes to the physical system, operations and application methods that will result in the conservation of water. If these proposed changes will change the point of diversion, see point of diversion requirement for Exhibit B. *Provide sufficient detail for public noticing the project.*

The Sherwood School District is presently constructing a new water delivery system to serve a new facility consisting of an elementary school and a middle school. As part of that project, the District will use the existing well for irrigation of the grounds for the two schools.

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The proposed new water facilities are as follows:

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Pump and Motor Data

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The new pump is proposed to be a Sta-Rite Berkeley submersible turbine, L6TS Series, rated at 215 gallons per minute (gpm) at 390 feet of total dynamic head (TDH). The pump will be set at approximately 380 feet and will have a 4-inch discharge column. The pump will have a submersible motor estimated to be 30 to 40 HP. The pump is proposed to be equipped with a variable frequency drive (VFD) to control pressure and flow.

Piping

Wellhead: The wellhead will consist of a precast vault. The well head will be within the vault. The vault will include a 119 gallon Amtrol WX 350 hydropneumatic tank, power supply and pump controls, a pressure sensor and a flow meter. The meter will indicate instantaneous flow in gpm and will totalize flow in gallons. The pump discharge will be 4-inch diameter.

Distribution: The pump will supply a looped 4-inch irrigation water distribution main which will distribute water throughout the school grounds. The main will be Class 200 PVC. The irrigated zones will be connected to this main. The new irrigation system will incorporate a high efficiency zoned sprinkler system with a state-of-the art "weather-smart" controller. The "weather-smart" controller will adjust the water application to real-time weather data and will consider both evapotranspiration (ET) and rainfall. The controller will use current weather information updated hourly from local weather stations. The controller includes data from all required climatic variables which are solar radiation, temperature, wind, and rainfall. The result of this improved irrigation control is significant water savings by avoiding overwatering. The point of diversion will not change.

C) Place of Use*: Applicant's portion of water right (12.50 acres) is affected.

Township	Range	Section	Quarter/Quarter	Total No. Acres
* Not required for a distribution project that does not propose to affect the on-farm rate or duty. If the entire water right is being affected, just state "entire right affected."				

6. CONSERVED WATER

A) What amount of water will be needed for the existing, authorized use after implementing conservation measures? (If the water right is only limited by rate, do not list a duty, and conversely, if the water is only limited by duty, do not list a rate.)

1. Rate* (cfs): 0.156

2. Duty* (acre feet): 1.75 acre-ft/acre (12.50 acres included in this application)
* If there are multiple **Priority Dates** on the water right, list the rate and duty by priority date.

B) What amount of water will be conserved as a result of the implementation of the conservation measures? Subtract 6A from the smaller of 4A or 4B under "irrigation system" above.

1. Rate* (cfs): 0
2. Duty* (acre feet): 0.75 acre-ft/acre (12.50 acres included in this application)
* If there are multiple **Priority Dates** on the water right, list the rate and duty by priority date.

C) What portions of the conserved water will be allocated to the state and applicant?

1. Portion going to the state (list by percent, rate and duty):
25 Percent 0 Rate (cfs) 0.188 a-f/acre (12.50 ac.) Duty (AF)
2. Portion going to the applicant (list by percent, rate and duty):
75 Percent 0 Rate (cfs) 0.562 a-f/acre (12.50 ac.) Duty (AF)

D) The priority for the conserved water is requested to be:

- The same as the original right, or
 One minute junior to the original right.

0.75 ac conserved
2.5 - 0.75 = 1.75

E) If all or part of the applicants' portion of the conserved water is to be used for an out-of-stream use at an identified location:

1. Name and address of the person using the water: Sherwood School District
2. Description of the type of beneficial use of the water: Irrigation
3. Legal description of the place of use: See attached legal description and Exhibit B.

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F) If all or part of the applicants' portion of the conserved water is to be leased*, dedicated or temporarily reserved instream, a statement identifying the quantity of water to be managed as an instream water right: Not applicable.

* Water can be temporarily protected instream without filing an OAR 690-077 Instream Lease application.

7. LOCATION OF PROPOSED USE

A) For new out-of-stream uses, describe the boundaries of the expected area within which the diversion structures and places of use of the applicants' conserved water right would be located. This is land other than that to which this water right is appurtenant. See Exhibit B. The proposed place of use will be school grounds adjacent to and contiguous with the place of use for the conserved water right. See Exhibit H for legal description of school district property.

B) For instream uses, to the extent possible, identify the stream reach(es) for which the state's portion of the conserved water should be managed under an instream water right. Be as explicit as possible, by giving river miles, or other identifying information that might be included in the instream certificate.
Not applicable. State's portion will remain as groundwater. Applicant's portion will be used for irrigation.

C) Describe the proposed benefit to instream uses.

- for instream use for conservation, maintenance and enhancement of aquatic and fish life, wildlife, fish and wildlife habitat and other ecological values.

other, please describe: Not applicable. Groundwater source cannot be allocated to instream use.

8. MITIGATION

A) Describe any expected effects on other water rights from the proposed allocation of conserved water. Identify what currently happens to the water that is proposed to be conserved.

No adverse effects are anticipated from the proposed allocation of conserved water. The water that is proposed to be conserved was, prior to school district acquisition of the property, to which the water right is appurtenant, used for irrigation of nursery stock.

B) Describe any mitigation or other measures that are planned to avoid harm to other water rights.

No harm is anticipated to other water rights and therefore no mitigation is anticipated to be required. The conservation of water as described above should relieve some of the pressure on groundwater use in the Sherwood groundwater-limited area.

9. FUNDING

If more than 25% of the conserved water is proposed to be allocated to the applicant then provide Exhibit C and identify what portion of project funds (expressed as a percentage) come from federal or state public sources that are not subject to repayment. See Exhibit C.

Does the Oregon Watershed Enhancement Board (OWEB) have a contractual interest in this project?

Yes No If yes, what is the OWEB project number? _____

10. PROJECT SCHEDULE

If project is not yet complete:

Proposed date construction has/will begin: February 1, 2009

Proposed date construction will be completed and notice of project completion will be filed: May 1, 2009

Proposed date the project will be finalized: October 1, 2009

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If project is already complete:

Date it was implemented: _____ (Provide Exhibit K)

The applicant requests:

That the allocation be finalized, or

Additional time be granted to prove that the project worked to the applicant's satisfaction before finalizing the allocation of conserved water. Indicate the amount of time desired _____ (up to five years after completion of the project may be allocated).

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11. ACKNOWLEDGMENT OF FORFEITURE

Complete this if the Certified Water Right Examiner's map shows less acreage has been irrigated over the past five years than allowed under the right.

I am aware that N/A acre(s) have not been irrigated for the last five years and I am abandoning that portion of the water right and make no further claim for the water. I ask that this N/A acre(s) portion of the right be permanently canceled.

12. EXHIBITS

Check each of the following attachments included with this application. All attachments are required unless otherwise noted. The application will be returned if all required attachments are not included.

Exhibit (Form) A – Evidence of Use Affidavits

- Provide if 1) it is an on-farm efficiency project, or 2) specific acreage is being affected by the project. Consult with Department staff regarding the evidence needed for distribution projects. At least one Evidence of Use Affidavit documenting that the right has been used during the last five years or that the right is not subject to forfeiture under ORS 540.610 is attached. The affidavit provided must be the original, not a copy. The form is available at http://www1.wrd.state.or.us/pdfs/Supplemental_Form_B.pdf.

Exhibit B – Map

- Provide if the entire water right is not part of the conservation project and/or new lands shall receive water. Consult with Department staff if there is any question regarding the need for submittal. See OAR 690-018-0040(17) and 690-018-0062(3)(a).

Exhibit C - Project Funding Description

- Provide if more than 25% of water goes to applicant. See OAR 690-018-0040(18).

Exhibit D – Identification and Resolution of Water Right Conflicts

- Provide if construction has begun or been completed and if more than 25% of the project costs have been expended prior to filing this application. See OAR 690-018-0040(19).

Exhibit E – Letter of Approval from the Irrigation District

- Provide if project is located within boundaries of an irrigation district and the district is not the applicant. See OAR 690-018-0040(20).

Exhibit F – District Conserved Water Policy

- Provide if applicant is an Irrigation District or Water Control District. See OAR 690-018-0040(21) & 690-018-0025.

Exhibit G - Land Use Information Form

- See OAR 690-018-0040(22). The land use form is available at: <http://www1.wrd.state.or.us/pdfs/landuseform.pdf>

Exhibit H - Ownership & Lien Information

- Provide if application involves:
- on-farm efficiency project, and/or
 - distribution project affecting specified lands. Provide a report of ownership and lien information or a current recorded deed to the subject lands.

Exhibit I – Support Letters from ODFW, DEQ and OPRD

- Letters from ODFW, DEQ, and OPRD indicating that they have been consulted and indicating that at least one of the agencies attests that conserved water is needed to support instream uses. See OAR 690-018-0050(4)(f).

Exhibit J –Water Right Clarification & Notification of Affected Persons

- Provide if the application involves water rights for
- lands under multiple ownerships and not all of the water right holders are applicants, and the project is not being submitted by a District as a distribution project and/or
 - which the current final proof survey maps for lands involved in the application do not adequately describe the location of the place of use or the associated priority dates of the associated water rights

Consult with Department staff if there is any question regarding the need for submittal.

Exhibit K –Evidence that the Project was Implemented Within 5 Years.

- Provide if project was completed before application submittal. See OAR 690-018-0040(12)(a).

Fees:

- Amount enclosed: \$ 700.00
See OAR 690-018-0040(25) and the Department's Fee Schedule at www.wrd.state.or.us/OWRD/PUBS/forms.shtml#fees or call (503) 986-0900.

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13. SIGNATURE

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

Wayne Lowry Wayne Lowry, Dir. of Finance & Ops. 2/18/09
applicant signature name (print) date

Shanee Lamford for Martha O. Pagel 3/23/09
agent signature name (print) date



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EXHIBIT A – EVIDENCE OF WATER USE

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