

T-8412



State of Oregon  
Water Resources Department  
158 12th Street NE, Salem, OR 97310  
(503)378-8455 • (800)624-3199  
www.wrd.state.or.us

# Application for Water Right Transfer

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Please read and refer to the instructions when completing your application. Thank you.

**RECEIVED**

JAN 07 2000

WATER RESOURCES DEPT.  
SALEM, OREGON

## APPLICATION FOR:

Please check one

Water Right Transfer       Temporary Transfer       Permit Amendment

Historic Point of Diversion Change       Government Action Point of Diversion

## 1. APPLICANT INFORMATION

Name: Reed College (The Reed Institute) Attention: Mr. Townsend Angell  
First Last

Address: 3203 S.E. Woodstock Blvd  
Portland Oregon 97202-8199  
City State Zip

Phone: (503) 777-7283  
Home Work Other

\*Fax: (503) 777-7791 \*E-Mail address: townsend.angell@reed.edu

\*Optional information

## 2. TYPE OF CHANGE

Use       Place of Use       Point of Diversion       Point of Appropriation

Reason for change: Cooling water right (Certificate 44546) is to be converted to irrigation use. Place of use under Certificate 44544 needs to be modified due to campus development and water conservation measures (original certificate also contained flaws due to errors by WRD and College staff).

Is the land within an irrigation or other water district?  Yes  No

If yes, include district name: \_\_\_\_\_

For Department Use

App. No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Date \_\_\_\_\_

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3. CURRENT WATER RIGHT INFORMATION

Name on Permit, Certificate, or Decree: The Reed Institute (Reed College)

Decree: [X] Not applicable

Permit Number: 30846, 32907 [ ] Not applicable Certificate Number: 44544, 44546 [ ] Not applicable

Priority Date: 8/13/1965, 9/1/1967 Authorized Use: Irrigation, Reactor Cooling Water

Source of Water: Cert. 44544 Crystal Springs Creek and Reed Lake Reservoir County: Multnomah

Cert. 44546 Unnamed stream trib. to Crystal Springs Creek Are there other sources listed on the water right? [ ] Yes [X] No

Location of Authorized Point of Diversion or Point of Appropriation:

Table with 5 columns: Coordinates (from recognized survey corner), 1/4 1/4 Section, Section, Township, Range. Rows include Cert. 44544 and Cert. 44546 with specific coordinate and section data.

Location of Authorized Place of Use:

Table with 7 columns: Township, Range, Section, Government Lot or DIC, 1/4 1/4 Section, Tax Lot Number, Acres (if appropriate). Rows include Cert. 44544 and Cert. 44546 with land use details.

Are there other lands described in the water right? [ ] Yes [X] No

Are there other water rights or permits associated with this land? [X] Yes [ ] No If yes, include a copy of all rights or permits.

Description of general delivery system (ditch measurements, pump size, number of sprinklers, etc.): See attached description.

Three horizontal lines for additional description of the delivery system.

System capacity (in cfs): Estimated to be 280 gpm at 150 ft TDH with both pumps on.

**4. PROPOSED CHANGES TO THE WATER RIGHT**

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**Change in Use:**

Proposed use: Certificate 44546 - irrigation

**Change in Point of Diversion or Point of Appropriation:**

Change

Old point of diversion or point of appropriation will not be used for this portion of the water right.

Additional

Both old and new points of diversion or points of appropriation will be used for this portion of the water right.

**Location of Proposed Point of Diversion or Point of Appropriation**

| Coordinates<br>(from recognized survey corner)           | 1/4 1/4<br>Section | Section | Township | Range  |
|--|--------------------|---------|----------|--------|
| 215 ft N. and 1,770 ft W. of NE corner, Llewellyn DLC 49 | NE SW              | 13      | 1 South  | 1 East |
|  |                    |         |          |        |

Cert.  
44546

**Change in Place of Use:**

**Location of Proposed Place of Use**

| Township | Range  | Section | Government<br>Lot or DIC | 1/4 1/4<br>Section | Tax Lot<br>Number | Acres<br>(if appropriate) |
|----------|--------|---------|--------------------------|--------------------|-------------------|---------------------------|
| 1 South  | 1 East | 13      |                          | NW SW              | R991130120        | 0.2                       |
| "        | "      | "       |                          | NE SW              | "                 | 0.5                       |
| 1 South  | 1 East | 13      |                          | NE SW              | R991130120        | 1.4                       |
| "        | "      | "       |                          | NW SE              | "                 | 0.2                       |
| "        | "      | "       |                          | SW NE              | "                 | 1.2                       |
| "        | "      | "       |                          | SE NW              | "                 | 10.0                      |

Cert.  
44544

Cert.  
44546

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

5. LAND OWNERSHIP

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Answer only if for change in Use or Place of Use.

Use/Place of Use

Are the lands free of encumbrances?  Yes  No

If no, name of encumbrance holder: \_\_\_\_\_

If no, application must include written permission for the transfer from the encumbrance holder.

Answer only if applicant is not the landowner.

Landowners

*This section does not apply to water delivery entities authorized to act on behalf of their members, making permit amendment requests, or requests for changes in point of diversion or point of appropriation only.*

Landowners: n/a  
(List all landowners shown on deed.)

Address(es): \_\_\_\_\_

\_\_\_\_\_ City State Zip

Application must include notarized statements from all landowners shown on deed giving permission for the transfer. Use an extra sheet if necessary.

Answer only if the receiving landowner is not the original landowner or the applicant.

Receiving Landowner

Name: n/a

Address: \_\_\_\_\_

\_\_\_\_\_ City State Zip

- The Department's records should be changed to show this landowner is responsible for completion of the changes. All notices and correspondence should be sent to this landowner.
- Applicant will remain responsible for completion of changes. Notices and correspondence should continue to be sent to applicant.

6. EXHIBITS

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Application may be rejected if all appropriate exhibits are not enclosed.

Land Use Information Form:

- Enclosed
- Not needed: (must meet the following four requirements)
  - ① In EFU zone or irrigation district.
  - ② Change in place of use only.
  - ③ No structural changes needed, including diversion works, delivery facilities, other structures.
  - ④ Irrigation only.
- List all affected governments (city, county, state, tribal, federal):

Evidence of use within last five years, or not subject to forfeiture:

- Best evidence is an affidavit from a knowledgeable person describing the water use. Statements saying water was delivered or assessments/fees were paid are insufficient. Evidence must show actual use of the water for the authorized purpose, in the authorized place of use.

Water Well Reports:

- If application is for a change in point of appropriation or change from surface water to ground water, attach copies of all water well reports. If reports are not available, describe construction details including well depth, static water level, and information necessary to establish the ground water body developed or proposed to be developed.

Map:

- Water Right Transfer: Must be prepared by a Certified Water Right Examiner.
- All others: Need not be prepared by a Certified Water Right Examiner.

Fees:

- Amount enclosed \$500.00

See instruction book for fee schedule.

Deed:

- Must accompany all applications, except permit amendment requests.

7. SIGNATURE

I (we) swear that I (we) have read the above application and the statements made are true and accurate.

Jessica Apple  
applicant signature

Townsend Apple  
name (print)

12/27/99  
date

applicant signature

name (print)

date

Before you submit your application be sure you have:

- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included the necessary exhibits.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount.

### 3. DESCRIPTION OF WATER SYSTEM

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#### Certificate 44544

The irrigation pump for Certificate 44544 is located on the south shore of Reed Lake Reservoir as indicated in Figure 1. The pump is PACO-type LC Model 10-1595-7, 1½ inch by 2 inch, 1 stage close-coupled suction pump powered by a 20 hp Baldor model number JOM2514T (spec. 39R35W261) 230/460 volt electric motor. The pump is sized to discharge 160 gpm (0.356 cfs) at approximately 80 psi. A knuckle valve on the discharge side of the pump is used to maintain irrigation system pressure at approximately 75 psi. A footvalve on the pump intake prevents water from backflowing into the reservoir when the pump is not operating.

Irrigation is conducted using a combination of below-ground and above-ground systems. At this time, approximately 21 of the 31.5 acres covered by Certificate 44544 are irrigated by a below-ground system.

#### Below-Ground Irrigation System

The below-ground irrigation mainlines and distribution lines are constructed of glued Class 200 polyvinyl chloride (PVC) pipe. The mainlines are 2 to 4 inches in diameter. Distribution lines range from 2 to ¾ inches in diameter.

There are at least 500 sprinkler nozzles associated with the below-ground system. The nozzles are generally located on square spacings and are approximately 50 feet apart. Most irrigation distribution lines contain 11 to 12 nozzles. The majority of nozzles are Hunter PGP No. 8 nozzles, rated to produce approximately 7½ gpm at 75 psi. The remainder of the nozzles are Wade Rain 30H nozzles, which also produce about 7½ gpm. Reed College (College) plans to replace the remaining Wade Rain nozzles with Hunter nozzles as part of the conservation plan since the Hunter nozzles distribute water more uniformly.

The below-ground irrigation system is operated using electronic controllers. These controllers allow the College staff to match water application rates to evapotranspiration rates by month. The controllers also allow the nozzles to be operated on variable run-time cycles; this minimizes the potential for overwatering, which can cause runoff and leaching.

#### Above-Ground Irrigation System

Approximately 10½ acres of the area irrigated under Certificate 44544 are watered using manually placed handlines. These handlines consist of 4-inch-diameter standard aluminum irrigation piping. The piping has Wade Rain 30H nozzles located every 50 feet along its length. Generally, two parallel lengths of handlines spaced approximately 50 feet apart are used to irrigate an area. The length of the handlines used varies.

**Certificate 44546**

The proposed point of diversion for irrigating under Certificate 44546 will be located on the north shore of Reed Lake Reservoir as indicated on Figure 1. The pump that will be used if the transfer is approved is a Cornell Pump Company Model 1.5W 7.5-2 pump powered by a 7½ hp Baldor model number JPM3219T (spec. 36F970-194) 230/460 volt electric motor. A knuckle valve on the discharge side of the pump will be used to maintain irrigation system pressure at approximately 75 psi. A footvalve will be placed on the pump intake to prevent water from backflowing into the reservoir.

The College plans to use a below-ground irrigation system to irrigate the proposed 12.8 acres of land. This system will use piping and sprinkler heads similar to those described in the preceding section.