

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**REPORT OF EXAMINATION**

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

**Surface Water** (issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)

**Ground Water** (issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE February 8, 1993	APPLICATION NUMBER G2-28742	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME  
Paul W. Shoblom

ADDRESS (STREET) CITY STATE ZIP CODE  
3232 Carpenter Road NE Olympia Washington 98506-3172

**PUBLIC WATERS TO BE APPROPRIATED**

SOURCE  
A well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 200	MAXIMUM ACRE-FEET PER YEAR 10.5
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QUANTITY, TYPE OF USE, PERIOD OF USE 0.5 acre-feet per year 10 acre-feet per year	Single domestic supply Irrigation Greenhouse irrigation	Year-round, as needed May 1 to October 1 Year-round, as needed
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**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL  
150 feet north and 950 feet east of the west quarter corner of Section 3

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SW $\frac{1}{4}$ NW $\frac{1}{4}$	SECTION 3	TOWNSHIP N 18	RANGE, (E. OR W.) W.M. 1W	W.R.I.A. 13	COUNTY Thurston
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**RECORDED PLATTED PROPERTY**

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**

Lot 7, Subdivision LL 0120 Parcel No. 11803230700

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**DESCRIPTION OF PROPOSED WORKS**

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A 6" x 32' well discharging 50 gpm now, tested at 200 gpm

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**DEVELOPMENT SCHEDULE**

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BEGIN PROJECT BY THIS DATE:

Started

COMPLETE PROJECT BY THIS DATE:

July 1, 1996

WATER PUT TO FULL USE BY THIS DATE:

July 1, 1997

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**REPORT**

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**BACKGROUND:**

Under the provisions of Chapters 90.03 and 90.44 Revised Code of Washington (RCW), Paul Shoblom filed an application to withdraw public ground water from a well. The amount requested is 200 gallons per minute for single domestic supply and irrigation. The application was accepted for processing, assigned Application No. G2-28742, and given a priority date of February 8, 1993.

**Public Notice**

A notice of publication appeared in "The Olympian" of Olympia, Washington on March 2 and 9, 1993. No objections were received as a result of the public notice.

**I recommend approval of this application and issuance of a permit based on the following report.**

**INVESTIGATIONS:**

In consideration of this application, an investigation was conducted during the first and second quarters of 1994, while evaluating a project known as "Woodland Green Development" located adjacent to the Shoblom property.

Investigations included an evaluation of recorded water rights, registered claims, Geo Engineers hydrogeology report dated October 1993 for Woodland Green Development, area water well reports, information submitted with the application and a February 22, 1993 discussion with Mr. Shoblom regarding existing and proposed water use.

**Location and Site Description**

The Shoblom property is located approximately 2.5 miles north of the City of Lacey, just off of Carpenter Road NE in rural Thurston County. Surrounding land use is comprised of single family residences and small family farms. An 18 hole golf course is being developed adjacent to and south of the Shoblom property.

**System Description**

Well Depth: 392 feet  
Casing Diameter: 6 inch  
Current Yield: 50 gpm  
Pump Tested: 200 gpm  
Driller: Patterson Drilling Co.  
Constructed: 1987

Currently the well is equipped with a 2 horse power submersible pump capable of discharging approximately 50 gallons per minute for single domestic supply, watering of lawn, gardens, drip irrigation to a fruit tree orchard area, and a greenhouse.

Mr. Shoblom proposes to construct at least two larger green houses within the next two years. Water will be used within the greenhouses year round. Water for irrigation purposes will approximate 5 acres at total build out.

**Aquifer Characteristics**

The well is completed in a formation consisting of water bearing gravel. Overlying layers are comprised of approximately 280 feet of blue clay and 100 feet of silt, sand and gravel. The site elevation is about 140 feet above mean sea level, Woodland Creek is situated approximately a half mile west at about 40 feet above mean sea level.

The applicant is advised that notice of proof of appropriation of water (under which the final certificate of water right is issued) should not be filed until the permanent diversion facilities have been installed, and the system is currently in use. This includes installation of a mainline system capable of delivering the recommended quantity of water to an existing or proposed distribution system within the area to be served, and fulfillment of all other terms of this permit.

In order to maintain a sustainable supply of water, pumping must be managed so that static water levels do not progressively decline from year to year. Water levels shall be measured and recorded monthly, using a consistent methodology. The length of the pumping period or recovery period prior to each measurement shall be constant, and shall be included in the record. Data shall be submitted annually, in the month of February to the Department of Ecology.

REPORTED BY: Vicki J. Windust Date: July 25, 1994

The statutory permit fee for this application is \$7.00.

Based on site elevation and well construction, the water bearing zone supplying this well is approximately 282 feet below Woodland Creek, and therefore withdrawals should not adversely impact instream flows.

### Effect on Existing Water Rights

The following water rights, claims, and well reports are on file with Ecology within a one mile radius of the Shoblom well source:

- Sixteen ground water rights have been issued authorizing a combined instantaneous withdrawal of 2,835 gallons per minute, 1,224.5 acre-feet per year. Water is used for municipal supply, multiple domestic, single domestic, irrigation, and commercial/industrial supply.
- Ten surface water rights have been issued from unnamed streams, springs, and Woodland Creek, authorizing a combined diversion of 1.42 cubic feet per second, 152.5 acre-feet per year. Water is used for single domestic supply, irrigation, stock watering, and commercial/industrial supply.
- Ninety-five ground water claims and eleven surface water claims are registered that may be within the same one mile radius.
- Forty-two water well reports are on file, showing wells in this one mile area range in depth from 59 to 646 feet below ground level. Four appear to be withdrawing water from the same aquifer as the Shoblom well.

Based on evaluation of available information, well spacing for similarly constructed wells, and water use requirements, interference with existing wells, surface waters, and existing water rights is unlikely.

### Water Requirements

Water requirements for single domestic supply should not exceed an average of 450 gallons per day, or 0.5 acre-feet per year. Irrigation requirements in Western Washington for this variety of use approximate 2 acre-feet per acre, amounting to 10 acre-feet per year for 5 acres.

Water use within the green houses will be year round. Generally during winter and fall, water usage will be minimal due to moisture collection in the green houses.

### CONCLUSIONS:

In accordance with Chapters 90.03 and 90.44 RCW, I find there is water available for appropriation from the source in question, that the appropriation as recommended is a beneficial use, and should not impair existing rights or be detrimental to public welfare.

### RECOMMENDATIONS:

I recommend approval of this application and issuance of a permit to allow withdrawal of 200 gallons per minute, 10.5 acre-feet per year, for single domestic supply, and irrigation. The period of use shall be year round as needed for single domestic supply, and green house watering. The normal irrigation season in Western Washington for outside watering is May 1 to October 1.

This report recommendation and subsequent permit shall be issued subject to all applicable state regulations and the following provisions:

The water user is advised that quantities recommended, and the number of acres to be irrigated, may be reduced at the time of issuance of a final water right commensurate with the capacity of the installed system, and the number of acres actually irrigated.

Installation and maintenance of an access port as described in WAC 173-160-355 is required. An air line and gauge may be installed in addition to the access port.