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	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
October 30, 1990	G2-27900		

NAME
South Sound Utility Company, Inc.

ADDRESS (STREET)	(CITY)	(STATE)	(ZIP CODE)
6800 Meridian Road SE	Olympia	Washington	98503-6302

PUBLIC WATERS TO BE APPROPRIATED

SOURCE
Well No. 2 (Classic Heights)

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE	MAXIMUM ACRE-FEET PER YEAR
	200	~~53.4~~ 112.5

QUANTITY, TYPE OF USE, PERIOD OF USE		
~~53.4~~ 112.5 acre-feet per year	Multiple domestic supply	Year-round, as needed

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION–WITHDRAWAL
500 feet south and 300 feet w est of the northeast corner of Section 1.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE, (E. OR W.) W.M.	W.R.I.A.	COUNTY
NE¼NE¼	1	18	1W	13	Thurston

RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by South Sound Utility Company, Inc. within Section 1 and 2, T. 18 N., R. 1 W.W.M., Thurston County.

9/28/92
Changes Re: telecom with Gerry Petterson of S.S.U. The 225 homes under this Right are in Addition to the original 119 under Permit G2-25846P. Need to Amend Report VW

DESCRIPTION OF PROPOSED WORKS

Proposed Classic Heights Well No. 2, estimated 8" x 295'. Two 7½ horsepower submersible pumps 100 gpm each discharge to 40,000 gallon storage.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
October 1, 1994	October 1, 1995	October 1, 1996

REPORT

BACKGROUND:

Under the provisions of Chapters 90.03 and 90.44 Revised Code of Washington (RCW), South Sound Utility Company of Olympia Washington filed an application to appropriate public ground water from a well. The amount requested is 200 gallons per minute for the purpose of multiple domestic supply. The application was accepted for processing, assigned Application No. G2-27900 and given a priority date of October 30, 1990.

The legal notice was duly published in The Olympian of Olympia, Washington on February 8 and 15, 1991. No protests were received.

I recommend issuance of a permit based on the following information.

INVESTIGATIONS:

On December 10, 1991 in the company of Laurie Morgan of this office, I conducted a field investigation of the project site. Other investigations included a review of recorded water rights, registered water claims, water well reports, information submitted with the application and my March 2, 1992 telephone conversation with Gerry Petersen of South Sound Utility.

As a result of these investigations, the following is reported.

Location and site description

The project site is located one mile north of the intersection of Meridian Road and Interstate 5. The development is known as Classic Heights. The surrounding land use is comprised of timbered property, small multiple domestic wells and single family residences utilizing exempt wells.

Classic Heights well no. 1 is situated on the east portion of the property next to a 40,000 gallon storage tank. This well currently serves 119 homes under the authority of Ground Water ~~Certificate~~ Permit No. G2-25846P.

Proposed well no. 2 will be located near the first well, and discharge to the 40,000 gallon storage.

System Description

Well depth:	295 feet (estimated)
Casing diameter:	8 inches
Pump size:	7½ (two)
Yield:	200 gpm (anticipated)
Distribution:	6" and 8" mainlines
Storage:	40,000 gallons

There are two 7½ hp 100 gpm submersible pumps supplementing Well No. 1. They discharge to a 40,000 gallon storage with multiple 5 hp and 7½ hp domestic and fire flow booster pumps providing service through 6" and 8" distribution mainlines.

Completion of proposed well no. 2 is scheduled for October 1994. Well No. 1 now serves 119 homes. Well No. 2 will supplement the system and enable the addition of ~~106~~ 225 connections, for a total of ~~225~~ 344 homes.

Aquifer Characteristics

The existing well at the site is completed in a aquifer formation consisting of sand gravel and cobbles. Overlying layers consist of clay and combinations of clay and gravel. Completed at 294 feet this well is approximately 40 feet below sea level. The static water level was measured at 225 feet at the completion of drilling in April 1981.

Existing Rights

Three ground water rights have been issued within a half mile radius of the applicants proposed site for well No. 2. The instantaneous withdrawal authorized under these rights is 310 gpm, 83 acre-feet per year.

Within the same half mile radius, Ecology records show that five wells have been constructed. These wells range in depth from 73 to 294 feet. One of these wells, which is well no. 1 for Classic Heights development appears to be the only well utilizing water from the same water bearing zone in this area that the proposed well will be completed in.

The water right claims register shows 18 ground water claims are on file that may be within the same half mile radius.

Based on the water use requirements, and well spacing in this area, interference to existing rights is unlikely. However, the applicant is reminded of the responsibility toward existing water right holders, and advised that regulation of the withdrawal and pumping rate may be required in the future if existing rights are impacted.

South Sound Utility Company is the holder of ground water permit No. G2-25846P. This permit authorizes the withdrawal of 200 gpm, 59.5 acre-feet per year from a well (well no. 1), for community domestic supply of 119 services.

This application (G2-27900) will authorize the withdrawal of 200 gpm, ~~53~~ 112.5 acre-feet per year from a well (well no. 2) for multiple domestic supply for an additional ~~106~~ 225 services.

Water Requirements

The water requirements for multiple domestic supply should not exceed a daily average of 450 gallons per day per service. For ~~106~~ 225 services this amounts to ~~53~~ 112.5 acre-feet per year.

The total annual withdrawal under both water rights for this development shall not exceed ~~112.5~~ 172. acre-feet per year.

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 appropriation of 200 gpm, ~~53~~ 112.5 acre-feet per year, from a well (well no. 2) for multiple domestic supply. The total annual withdrawal shall not exceed ~~112.5~~ 172 acre-feet per year under both rights. The period of use shall be year round as needed.

This permit shall be subject to the following provisions.

The water appropriated under this application will be used for public water supply. The State Board of Health rules require public water supply owners to obtain written approval from the Office of Water Supply, Department of Health, Mail Stop LD-11, Building 3, Olympia, Washington 98504, prior to any new construction or alterations of a public water supply system.

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.

This well shall be cased and permanently sealed to a minimum depth of 18 feet below land surface. Such sealing shall be performed in accordance with the provisions and standards of Chapter 173-160-265 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

An approved metering device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through -040 (installation, operation, and maintenance requirements are attached). Meter readings shall be recorded at least monthly.

All water wells constructed within the State shall meet the minimum standards for well construction and maintenance as provided under RCW 18.104, Washington Water Well Construction Act of 1972, and Chapter 173-160 WAC, Minimum Standards for Construction and Maintenance of Wells.

A completed well report of the well shall be submitted by the driller to the Department of Ecology within 30 days of completing this well. All pump test data for this well shall be submitted to the Department as it is obtained.

The Water Resources Act of 1971 specifies certain criteria regarding utilization and management of the waters of the State in the best public interest. Favorable consideration of this application has been based on sufficient waters available, at least during portions of the year. However, it is pointed out to the applicant that this use of water may be subject to regulation at certain times, based on the necessity to maintain water quantities sufficient for preservation of the natural environment.

In accordance with WAC 173-160-205, wells shall not be located within certain minimum distances of potential sources of contamination. These minimum distances shall comply with local health regulations, as appropriate. In general, wells shall be located at least 100 feet from a sewer, septic tank, privy, or other source of contamination. Wells shall not be located within 1,000 feet of a solid waste landfill.

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.

This permit is subject to the implementation of the minimum requirements established in the Interim Guidelines for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology and Conservation Programs, July 1990, (which is attached).

Under RCW 90.03.005 and 90.54.020(6), conservation and improved water use efficiency must be emphasized in the management of the states water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this permit, the applicant shall prepare and implement a water conservation plan approved by Department of Health. The standards for such a plan may be obtained from either the Department of Health or the Department of Ecology.

REPORTED BY: Vicki Wardell Date: August 3, 1992

The statutory permit fee for this application is $20.00.