

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 March 28, 1973	APPLICATION NUMBER G2-20901C A	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME Olympus Beach Tracts, Inc.			
ADDRESS (STREET) Post Office Box 65092	(CITY) Port Ludlow	(STATE) Washington	(ZIP CODE) 98365

PUBLIC WATERS TO BE APPROPRIATED

SOURCE
Two wells

TRIBUTARY OF (IF SURFACE WATER)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 42	MAXIMUM ACRE-FEET PER YEAR 27.25
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QUANTITY, TYPE OF USE, PERIOD OF USE
27.25 acre-feet per year Multiple domestic supply Year-round, as needed

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL
Well #3: 150 feet north and 850 feet east of the southwest corner of Section 4.
Well #4: 250 feet north and 825 feet east of the southwest corner of Section 4.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SW $\frac{1}{4}$ SW $\frac{1}{4}$	SECTION 4	TOWNSHIP N. 28	RANGE, (E. OR W.) W.M. 1E	W.R.L.A. 17	COUNTY Jefferson
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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

The plat of Olympus Beach in Section 4, T. 28 N., R. 1 E.W.M

DESCRIPTION OF PROPOSED WORKS

Well #3: A 6" x 54' well with a 3/4 horsepower pump.

Well #4: A 6" x 122' well with a 3/4 horsepower pump.

8" and 4" distribution mainlines, and a 12,000 gallon and 30,000 gallon storage reservoir.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Started	Completed	In use

REPORT

I recommend issuance of a superseding certificate for Application #G2-20901CA based on the following:

BACKGROUND:

Pursuant to Chapters 90.03 and 90.44 Revised Code of Washington (RCW), Olympus Beach Tracts, Inc., of Port Ludlow, Washington, applied for a change of the points of withdrawal authorized under an existing water right certificate. The instantaneous rate authorized under the original water right certificate is 42 gallons per minute (gpm) for multiple domestic supply. The application was assigned a priority date of March 28, 1973.

Legal notice of the change of points of withdrawal was published in the "Port Townsend Jefferson County Leader" on May 27 and June 3, 1992. No protests were received as a result of this notice.

Surface water right certificate #1510, priority dated June 18, 1930, authorized diversion of 0.1 cfs from surface water springs at this site. In 1963, pipes were driven into the springs to decrease the possibility of water supply contamination, creating Wells #1 and #2. These wells are covered under water right certificate #G2-20901C. Wells #1 and #2 were abandoned and replaced by Wells #3 and #4. This application was filed to change the existing certificate to reflect the new points of withdrawal.

INVESTIGATIONS:

Investigations included:

- A field examination of this site on February 26, 1992, by Marie Peter and Jill Van Hulle. (The applicant was not present.)
- Telephone conversations with Steve Smith of Olympus Beach Tracts, Inc.
- Review of Department of Ecology groundwater records for this area.

Location and Site Description

The property owned by Olympus Beach Tracts, Inc. is located approximately one mile north of the town of Port Ludlow in Jefferson County. Surrounding areas are forested with residential development concentrated along the shores of Hood Canal.

Wells #3 and #4, the new points of withdrawal, are located on a wooded hillside off Oak Bay Road approximately 1/4 mile west of Hood Canal. Well #4 is located 100 feet north and 25 feet west of Well #3, and is approximately 30 feet higher in elevation.

A pumphouse, two active reservoirs, and an abandoned concrete reservoir are located in a fenced enclosure near the access road below. Numerous springs and seeps emerge from the base of the hill, where former Wells #1 and #2 (now abandoned) were located.

RECOMMENDATIONS:

I recommend approval of this application and issuance of a superseding certificate to allow appropriation of 42 gpm, 27.25 acre-feet per year, from two wells, for multiple domestic supply. The period of use shall be year-round, as needed.

This permit shall be subject to rights existing prior to March 28, 1973, and 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.

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.

Chloride concentration analysis shall be performed prior to system use, then twice a year when the system is in use, by a laboratory accredited by the Department of Ecology. The resulting data shall be submitted to the Department of Ecology, Southwest Regional Office. If the chloride concentration exceeds 50 mg/L, the withdrawal rate shall be reduced or the pump setting raised to reduce the chloride level to below 50 mg/L.

This permit may be subject to 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 State's water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this permit, the applicant may need to 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.

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.

REPORTED BY: Wm. P. [Signature] Date: September 9, 1992

Report Continued

Well Information:

	<u>Well #3</u>	<u>Well #4</u>	<u>Wells #1 and #2</u>
Completed depth:	54 feet	122 feet	32' / 36'
Casing diameter:	6-inch	6-inch	6-inch
Well elevation:	approx. 180' msl	approx. 210' msl	approx. 170' msl
Static water level:	10.25'	38.35' (2-26-92)	flowing
Pump size:	3/4 hp	3/4 hp	
Screen depth:	49-54'	117-122'	
Yield:	30 gpm	26 gpm	42 gpm (combined)
Chloride level:	5 mg/L	8 mg/L (Department of Health records)	
Distribution mainline:	8" and 4"	8" and 4"	
Total storage capacity:	42,000 gallons (12,000-gallon and 30,000-gallon tanks)		

Pipes from the wells lead to two storage reservoirs. Control valves allow feeding of water from either or both wells into either reservoir. Well #3 is currently the only well in operation. It serves water to 55 existing homes in the development. Well #4 will serve as a back-up to Well #3 and as a source of water for additional connections to the water system.

Aquifer Information

Well #3 penetrates a surface layer of sand, followed by sandy clay, a water-bearing layer of muddy sand, and a water-bearing gravel layer. It is completed in brown clay.

Well #4 penetrates sandy clay, sand and gravel; water-bearing sand separated by layers or lenses of clay; and several water-bearing layers comprised of sand, clay, gravel and/or silt.

Wells #3 and 4 are completed at 126 and 88 feet above sea level. Although it is unlikely that these wells will be impacted by seawater intrusion, they may contribute to intrusion into the aquifer. Semi-annual chloride monitoring will be required to detect intrusion of seawater into the aquifer.

Existing Rights

The following groundwater records are on file with Department of Ecology within a half mile of the subject wells:

- A groundwater right certificate for Olympus Beach Tracts, Inc. Wells #1 and #2: Certificate #20901C; priority date March 28, 1973; authorizing withdrawal of 42 gpm, 27.25 acre-feet per year
- Two senior groundwater right certificates and one junior right:

Certificate #	Priority Date	GPM	Acre-feet/Year	Distance
G2-09681C	08-22-68	20	13.0	3/8 mile
G2-00193C	10-06-69	110	88.0	1/2 mile
G2-24344C	11-15-76	20	1.0	1/4 mile

- Sixteen well logs

Most of these wells are completed in water-bearing formations consisting of gravel, or sand and gravel. Many may be completed within the same water-bearing formation as the Olympus Beach Tract wells.

Due to well spacing, interference with surrounding wells is unlikely. However, withdrawals and/or pumping rates from the subject wells may need to be regulated if senior rights are impaired.

CONCLUSION:

Based on topographical and well log information, it appears that the new wells tap the same groundwater source as the old wells. 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.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

SURFACE WATER GROUND WATER

APPLICATION NO. G2-20901	PRIORITY DATE OF APPLICATION March 28, 1973
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NAME
OLYMPUS BEACH TRACTS, INC.

ADDRESS (STREET) (CITY) (STATE) (ZIP CODE)
PO Box 67 Port Tollew Washington 98365

PUBLIC WATERS TO BE APPROPRIATED

SOURCE
2 wells

TERRITORY OF (IF SURFACE WATER)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 42	MAXIMUM ACRE-FOOT PER YEAR 27.23
QUANTITY, TYPE OF USE, PERIOD OF USE 27.23 acre-foot per year	community domestic supply	continuously

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION/WITHDRAWAL
Lot 109 of the plat of Olympus Beach

LOCATED WITHIN SMALLEST LEGAL SUBDIVISION	SECTION 4	TOWNSHIP N. 28	RANGE E. OR W. OR A. 1 E	S.W. 1/4 17	COUNTY Jefferson
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RECORDED PLATTED PROPERTY

109	BLOCK	OF 1000 NAME OF PLAT (IF ADDITION) Olympus Beach
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LEGAL DESCRIPTION OF PROPERTY WATER TO BE USED ON

The plat of Olympus Beach in Sec. 4, T. 28 N., R. 1 E.W.N.

DESCRIPTION OF PROPOSED WORKS

wells - 6" x 32' and 36'

DEVELOPMENT SCHEDULE

BEGINNING DATE	COMPLETION DATE	DATE COMPLETE APPLICATION OF WATER TO BE MADE
Started	Completed	February 1, 1976

PROVISIONS AND RECOMMENDATIONS

This application is for the purpose of obtaining a water supply for a community domestic water system consisting of 109 services.

For a development of this magnitude and nature in this locale, 225 gallons per day per service will meet the water demand of each service. For 109 services, this amounts to 27.25 acre-feet per year.

Use of the waters to be appropriated under this application will be for a public water supply. State Board of Health rules require every owner of a public water supply to obtain written approval from the Assistant Secretary, Health Services Division prior to any new construction or alterations of a public water supply.

The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right. The applicant may, for his own convenience, wish to install an airline and gate in addition to the access port.

Applicant is advised that notice of proof of appropriation of water (under which final certificate of water right issues) should not be filed until the permanent diversion facilities have been installed together with a mainline system capable of delivering the recommended quantity of water to an existing or proposed distribution system within the area to be served.

Accordingly, this application may be approved for 42 gallons per minute on a continuous basis, not to exceed 27.25 acre-feet annually.

Additionally, the permit when issued shall carry the following provision: "Nothing in this permit shall be construed as ensuring the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including those administered by local agencies under the Shoreline Management Act of 1971."

Signed at Olympia, Washington
this 27th day of January, 1975.

Walter Herderson
WALTER HERDERSON, Resource Management
Department of Ecology