



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 11, 1992	APPLICATION NUMBER G2-28425	PERMIT NUMBER	CERTIFICATE NUMBER
---------------------------------	--------------------------------	---------------	--------------------

NAME Jerry Cate (High Tech Farms Corp.)			
ADDRESS (STREET) 3221 Shaw Road East	(CITY) Puyallup	(STATE) Washington	(ZIP CODE) 98374-1560

PUBLIC WATERS TO BE APPROPRIATED

SOURCE
Well No. 1 (Cedar Ridge Estates)

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 3	MAXIMUM ACRE-FEET PER YEAR 4.8 (supplemental)
-------------------------------	---------------------------------	--------------------------------------------------

QUANTITY, TYPE OF USE, PERIOD OF USE
4.8 acre-feet per year (supplemental) Multiple domestic supply Year-round, as needed

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL
500 feet south and 900 feet west of the northeast corner of Section 25.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) NE $\frac{1}{4}$ NE $\frac{1}{4}$	SECTION 25	TOWNSHIP N. 17	RANGE, (E. OR W.) W.M. 2W	W.R.L.A. 23	COUNTY Thurston
----------------------------------------------------------------------------------	---------------	-------------------	------------------------------	----------------	--------------------

RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

The north half of Section 25, T. 17 N., R. 2 W.W.M., and the north half of the east half of the east half of Section 26, T. 17 N., R. 2 W.W.M., Thurston County, Washington.

DESCRIPTION OF PROPOSED WORKS

A 8" x 160' drilled well. To be equipped with a 1 horsepower submersible pump, discharging 3 gpm.

DEVELOPMENT SCHEDULE

<small>BEGIN PROJECT BY THIS DATE:</small> Started	<small>COMPLETE PROJECT BY THIS DATE:</small> June 1, 1995	<small>WATER PUT TO FULL USE BY THIS DATE:</small> June 1, 1996
-------------------------------------------------------	---------------------------------------------------------------	--------------------------------------------------------------------

REPORT

BACKGROUND:

Under the provisions of Chapters 90.03 and 90.44 Revised Code of Washington (RCW), Jerry Cate (High Tech Corp) of Puyallup, Washington filed an application to withdrawal public ground water from a well. The amount requested is 3 gallons per minute for multiple domestic supply. The application was accepted for processing, assigned Application No. G2-28425, and give a priority date of March 11, 1992.

The legal notice of the applicants proposed withdrawal was duly published in the Tenino Independent of Tenino, Washington on April 8 and 15, 1992. No protests were received as a result of the public notice.

I recommend issuance of a permit, based on the following report.

INVESTIGATIONS:

On May 26, 1992, I conducted a field investigation in the company of Bill Larson, the engineer for this project. Mr. Larson showed me the well site and the proposed development area. Other investigations included a review of area water well reports, existing water rights, claims, and an evaluation of information submitted with the application.

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

This project site, known as Cedar Ridge Estates is located approximately five miles south of Tumwater off of McCorkle Road. The surrounding land use is comprised of single family homes and small farms.

The proposed development of Cedar Ridge Estates, is situated within a 400 acre area, with each lot being approximately 5 acres in size. A total of 80 lots are planned. The main roads have been roughed in, and the lots which are timbered will remain untouched for each owners discretion regarding clearing.

The main well for this development is Well No. 2 located on lot 24 on the south end of the Cedar Ridge Estates. Well No. 3, the second source of supply, is approximately 300 feet north.

Well No. 1, the subject of this application, is located at the southwest corner of lot 3 in the northeast area of this development. This well is eight inches in diameter and cased to a depth of 89 feet. This well will be equipped with a 1 horsepower submersible pump discharging 3 gallons per minute directly to the main line system.

DISCUSSION:

Department of Ecology records show that within a half mile radius of this well site, 16 wells have been constructed. These wells range in depth from 39 to 405 feet below ground surface. Three of these appear to be drawing water within the same gravel formation as the applicants well.

One ground water right certificate has been issued within the same half mile area, which authorizes the use of 30 gpm, 5 acre-feet per year for single domestic supply and irrigation. The well under this certificate appears to be within the Deschutes River Basin drainage.

There is an unnamed stream that runs south through the applicants property. Approximately ¼ mile south of this development a surface water certificate was issued that appears to be using water from the same unnamed tributary. The certificate authorizes the use of .1 cfs, 5 acre-feet per year for single domestic supply, stockwatering, and irrigation.

Report Continued

Several ground water right claims are registered with Ecology that may be within the same half mile area of the applicant's development site and the subject well for this application.

Two other ground water applications have been filed by the applicant for this development. Application Nos. G2-28422 and G2-28424 have been recommended for issuance of formal permits for wells 2 and 3 respectively.

If any other new well is anticipated for this development, other than the three mentioned in this report, the applicant shall apply under a separate application, and obtain authorization from this office prior to drilling.

Based on the small withdrawal rate requested from this well, well spacing, and the water use requirements for this area, interference to existing rights is unlikely. However, the applicant is reminded of the responsibility towards existing rights and advised that regulation of the withdrawal and pumping rate may be required if existing rights are injuriously affected.

WATER REQUIREMENTS:

The water requirements for a multiple domestic supply of this type should not exceed a daily average of 450 gallons per day per service. Well No. 3 has a capacity of 3 gpm, when calculated on an annual basis this amounts to 4.7 acre-feet per year, supplemental to existing rights.

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 will 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 3 gallons per minute from Well No. 1, for multiple domestic supply. The total annual withdrawal shall not exceed 40 acre-feet per year for this development, under all rights.

Approval 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.

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.

The Water Resources Act of 1971 specifies certain criteria regarding utilization and management of the water 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.

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 Guideline for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology and Conservation Programs, July 1990, (which is attached).

Report Continued

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 Wainwright Date: July 20, 1992

The statutory permit fee for this application is \$20.00.