



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION
To Appropriate Public Waters of the State of Washington

PRIORITY DATE	APPLICATION NO.	PERMIT NO.	CERTIFICATE NO.
February 26, 2009	G1-28612		

NAME
Orcas Island Golf Estates Water Users

ADDRESS/STREET	CITY/STATE	ZIP CODE
P.O. Box 44	Eastsound, WA	98245

PUBLIC WATERS TO BE APPROPRIATED

SOURCE
Well
TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND (cfs)	MAXIMUM GALLONS PER MINUTE (gpm)	MAXIMUM ACRE FEET PER YEAR (ac-ft/yr)
	15*	12.6**

TYPE OF USE, PERIOD OF USE, QUANTITIES
Multiple domestic supply, year-round

* 2 gpm is additive and 13 gpm is non-additive. Total instantaneous quantity of G1-28612 plus G1-23395C and G1-26206P shall not exceed 15 gpm.

**6.9 acre-feet per year is additive and 5.7 acre-feet per year is non-additive. Total annual quantity of G1-28612 plus G1-23395C and G1-26206P shall not exceed 12.6 acre-feet per year.

(See DISCUSSION section on page 9 for explanation)

LOCATION OF WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION--WITHDRAWAL
Well (AGK101) is located 23ft North and 1250ft West of the SE corner of Section 22
Within Township 37 North, Range 2 West, W. M. in San Juan County, Washington.

SOURCE NAME	PARCEL #	LATITUDE	LONGITUDE	QTR/QTR	SECTION	TOWNSHIP	RANGE
Well (AGK101)	272244003	N 48.674374	122.927960 W	SE1/4 SE1/4	22	37N	2W

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Attachment 1 shows the location of the authorized place of use and points of diversion

Attachment 2 provides the legal description of the property on which water is to be used

DESCRIPTION OF PROPOSED WORKS

The Orcas Island Golf Estates Water System consists of a 6 inch by 149.5 foot well, 20,000 gallon storage tank, and a 4-inch mainline. It currently is authorized by existing water rights to serve 18 homes and the club house for Orcas Island Golf Course. The current application is to expand the service area to serve Morning Star Heights, which is currently a Class B exempt water system, and other contiguous properties. This will potentially increase the number of connections from 19 to 42.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE	COMPLETE PROJECT BY THIS DATE	WATER PUT TO FULL USE BY THIS DATE
Already started	December 31, 2020	December 31, 2025

PROVISIONS

- An approved measuring device shall be installed and maintained in accordance with the rule "Requirements for Measuring and Reporting Water Use", WAC 173-173.
 - Water use data shall be recorded annually and maintained by the property owner for a minimum of five years, and shall be promptly submitted to the Department of Ecology upon request.
 - WAC 173-173 describes the requirements for data accuracy, device installation and operation, and information reporting. It also allows a water user to petition Ecology for modifications to some of the requirements. Installation, operation and maintenance requirements are enclosed as a document entitled "Water Measurement Device Installation and Operation Requirements".
 - Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the records of water use that are kept to meet the above conditions, and to inspect at reasonable times any measuring device used to meet the above conditions.
- A certificate of water right will issue for only that quantity of water that has been diverted and applied to actual beneficial use. Such quantity applied to actual beneficial use shall not exceed the quantity specified in this report of exam and will be calculated based on the best information available to Ecology, including metering data and/or water duty analysis.
- **PROOF OF APPROPRIATION:** The water right holder shall file the notice of Proof of Appropriation of water (under which the certificate of water right is issued) when the permanent distribution system has been constructed and the quantity of water required by the project has been put to full beneficial use. The certificate will reflect the extent of the project perfected within the limitations of the permit. Elements of a proof inspection may include, as appropriate, the source(s), system instantaneous capacity, beneficial use(s), annual quantity, place of use, and satisfaction of provisions.
- A certificate of water right will not be issued until a final investigation is made.

FINDINGS OF FACT AND ORDER

Upon reviewing the investigator's report, I find all facts relevant and material to the subject application have been thoroughly investigated. Furthermore, I concur with the investigator that water is available from the source in question, the purpose of use is beneficial, there will be no impairment of existing rights, and there will be no detriment to the public interest.

Therefore, I ORDER approval of Application No. G1-28612, subject to existing rights and the provisions listed above.

You have a right to appeal this ORDER. To appeal this you must:

- File your appeal with the Pollution Control Hearings Board within 30 days of the "date of receipt" of this document. Filing means actual receipt by the Board during regular office hours.
- Serve your appeal on the Department of Ecology within 30 days of the "date of receipt" of this document. Service may be accomplished by any of the procedures identified in WAC 371-08-305(10). "Date of receipt" is defined at RCW 43.21B.001(2).

Be sure to do the following:

- Include a copy of this document that you are appealing with your Notice of Appeal.
- Serve and file your appeal in paper form; electronic copies are not accepted.

1. To file your appeal with the Pollution Control Hearings Board

Mail appeal to:

The Pollution Control Hearings Board
PO Box 40903
Olympia, WA 98504-0903

OR

Deliver your appeal in person to:

The Pollution Control Hearings Board
4224 – 6th Ave SE Rowe Six, Bldg 2
Lacey, WA 98503

2. To serve your appeal on the Department of Ecology

Mail appeal to:

Deliver your appeal in person to:

The Department of Ecology
Appeals Coordinator
P.O. Box 47608
Olympia, WA 98504-7608

OR

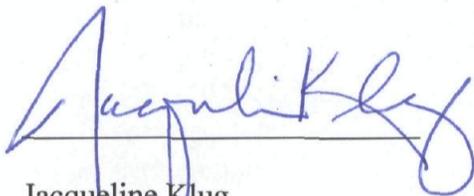
The Department of Ecology
Appeals Coordinator
300 Desmond Dr SE
Lacey, WA 98503

3. And send a copy of your appeal to:

Jacqueline Klug
Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, WA 98008

For additional information visit the Environmental Hearings Office Website: <http://www.eho.wa.gov> . To find laws and agency rules visit the Washington State Legislature Website: <http://www1.leg.wa.gov/CodeReviser> .

Signed at Bellevue, Washington, this 15th day of April, 2010.



Jacqueline Klug
Section Manager
Northwest Regional Office
Water Resources Program

INVESTIGATOR'S REPORT

BACKGROUND

Description and Purpose of the Project

Application for appropriation of waters from a well for community domestic supply was received February 26, 2009, from Orcas Island Golf Estates Water Users. The well is located on adjacent Orcas Island Golf Course property.

Orcas Island Golf Estates currently holds two water rights, G1-23395C and G1-26206P, which authorize an instantaneous quantity of 13 gpm and 5.7 acre-feet per year for multiple domestic supply. These water rights authorize 19 connections inclusive of the clubhouse for the Orcas Island Golf Course. The current application is to increase the potential number of connections from 19 to 42 by expanding the service area to include the Morning Star Plat and other contiguous properties. The applicant also applied to increase the instantaneous pumping rate from 13 gpm to 15 gpm.

Legal Requirements for Application Processing

Chapters 90.03 and 90.44 RCW authorize the appropriation of public water for beneficial use and describes the process for obtaining water rights. Laws governing the water right permitting process are contained in RCW 90.03.250 through 90.03.340 and RCW 90.44.060.

The following legal requirements must be met prior to processing a water right application:

- **Public Notice**
Public notice of the application was published in *The Islands' Sounder* on April 1 and April 8, 2009. There were no written protests during the statutory 30-day protest period.
- **State Environmental Policy Act (SEPA)**
The subject water right application is categorically exempt under SEPA WAC 197-11-305 and WAC 197-11-800(4) because the instantaneous quantity is less than the 2,250 gallons per minute threshold.

INVESTIGATION

In considering this application, my investigation included, but was not limited to, research and/or review of:

- Brandon, M. T., Cowan, D.S., and Vance, J.A. 1988, The Late Cretaceous San Juan Thrust System, San Juan Islands, Washington, The Geological Society of America Special Paper 221, 81 page
- Orr, L.A., Bauer, H.H. and Wayenberg, J.A. 2002, Estimates of Ground-Water Recharge from Precipitation to Glacial-Deposit and Bedrock Aquifers on Lopez, San Juan, Orcas, and Shaw Islands, San Juan County, Washington, U.S. Geological Survey Water-Resources Investigations Report 02-4114, 114 pages.
- Russell, R.H. ed., 1975, Geology and Water Resources of the San Juan Islands, San Juan County, Washington, Washington Department of Ecology Water Supply Bulletin No 46, 171 pages.
- Whiteman, K.J., Molenaar, D., Bortleson, G.C., and Jacoby, J.M., 1983, Occurrence, Quality, and Use of Ground Water in Orcas, San Juan, Lopez, and Shaw Islands, San Juan County, Washington, U.S. Geological Survey Water-Resources Investigations Report 83-4019, 12 sheets.
- John Rose, 2010, Hydrogeologic Report of Orcas Island Golf Estates Water Users
- USGS Eastsound, Wash. 7.5 minute topographic map
- Water well reports for Orcas Island
- Notes and GPS data from my site visit on February 3, 2010
- Records of existing water rights in the vicinity

Geographic Setting of the Place of Use and Point of Withdrawal

The Orcas Island Golf Estates property is located about five miles north of the Orcas ferry dock, west of East Sound, southwest of Judd Bay on the eastern margin of Crow Valley (Attachment 1). Generally this area consists of relatively flat low lying areas bounded by steep mountains and hills to the North, West and East and by the broad flat plain of Crow Valley sloping to the Southwest. The most prominent features in the area are Turtleback Mountain to the west with an elevation of 1519 feet and Lookout Hill to the north with elevation of 690 ft. (Fig. 1)

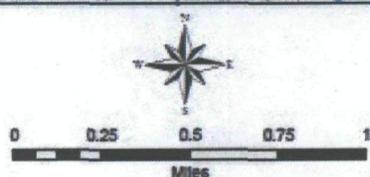
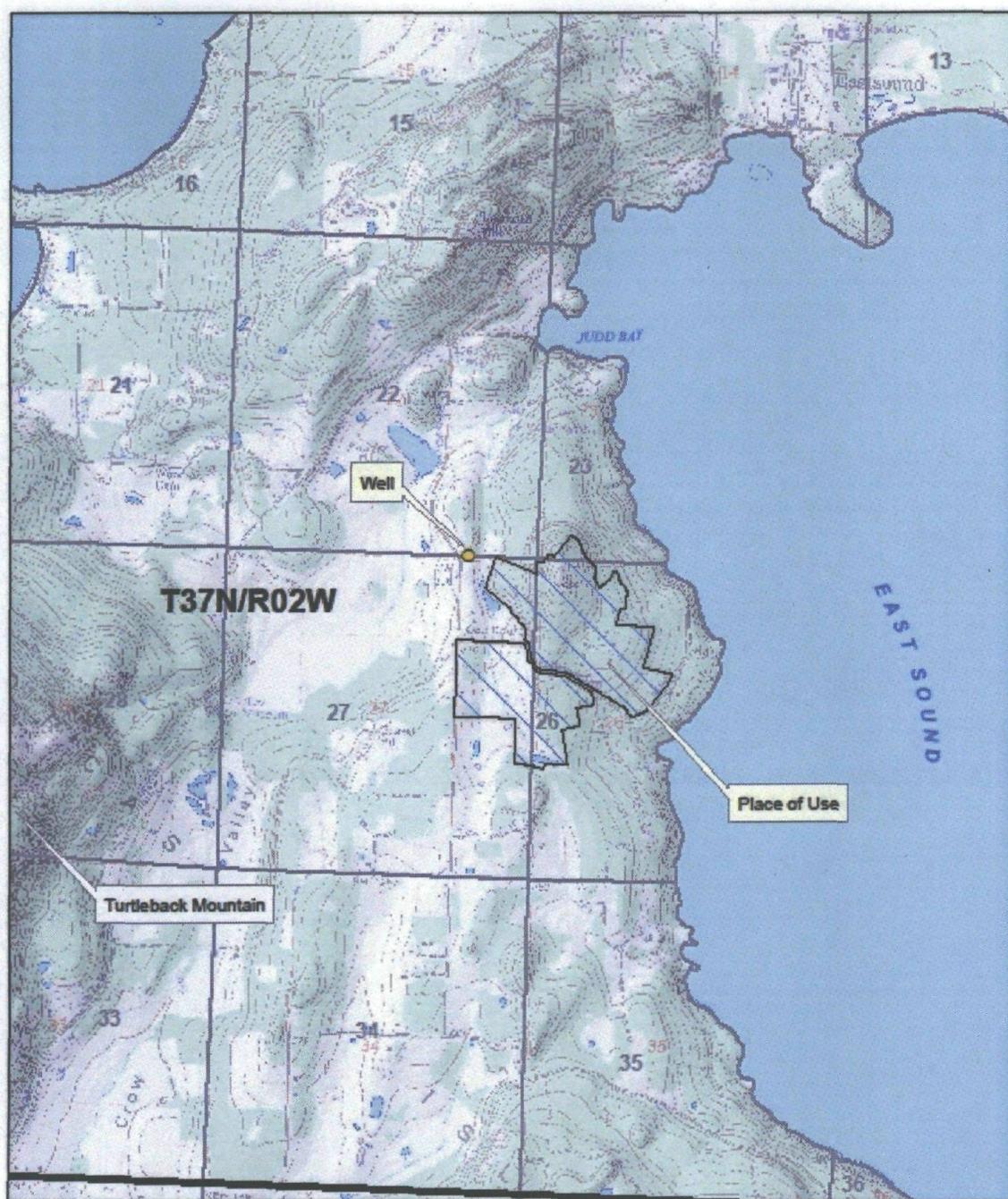


Figure 1

2/25/2010



**Topographic Area in the Vicinity of
Water Right Application G1-28612
Orcas Island Golf Estate Water Users**

Simplified Geology of the San Juan Islands (From the Hydrogeologic Report by John Rose)

The geology of the San Juan Islands is very complex. It consists of a series of allochthonous terranes mostly of island arc and shallow marine origin of early Paleozoic to middle Cretaceous age which were accreted onto the North American continent probably prior to subsequent compressional faulting. During the late Cretaceous, imbricate thrust faulting created a series of sub-parallel nappes which generally divide each of the five identified terranes. This faulting also resulted in pervasive high-pressure metamorphism and the creation of intermittent tectonic zones along fault contacts. These units were then tilted to the southeast, probably during the Tertiary period. Subsequent advance and retreat of continental glaciers of the Vashon Stade during the Fraser Glaciation approximately 10,000 years ago deposited sequences of intermixed clay, silt, sand and gravel in low lying areas. (Russell 1975) (Brandon et al.1988)

Of particular note are the Turtleback and Orcas formations that underlie the glacial drift in the study area. The Turtleback formation consists of coarse grained metamorphosed gabbros and quartz diorites often intersected with younger finer grained dikes of varying igneous compositions. The Orcas formation consists of ribbon chert interspersed with thin basaltic beds and limestone lenses of varying thickness. (Russell 1975) Structurally the region is dominated by a series of roughly NE-SW trending faults that are splays of the major thrust fault separating the Turtleback terrane to the southeast and the Wrangellia terrane to the northwest.

Hydrogeology of the Eastsound Area, San Juan County, Washington (From the Hydrogeologic Report by John Rose)

The geology within a mile radius of the Orcas Golf Estates well is varied, consisting of slabs of Turtleback gabbros and diorites, Orcas chert, and lenses of Deadman Bay meta-volcanics. The chert and meta-volcanics are separated by a wide tectonic zone composed of sheared and fractured Orcas bedrock. Much of these units in the area are overlain by the glacial drift in Crow Valley which thickens to the southwest. (Fig 2)

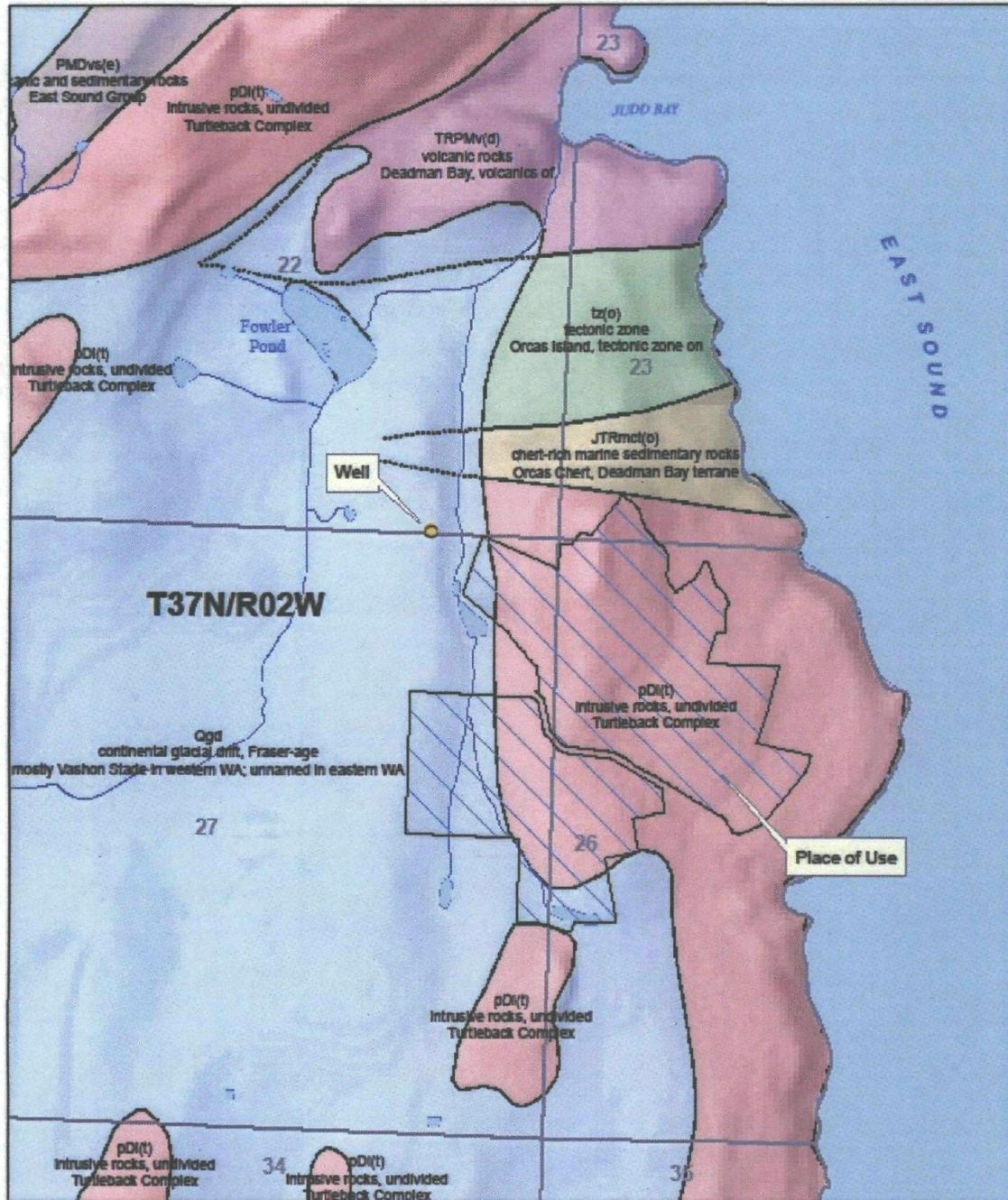


Figure 2



Geologic Map showing the area of Water Right Application G1-28612 Orcas Island Golf Estate Water Users

2/25/2010

The well was completed when the drill bit reached bedrock at a depth of 171 ft. The well log indicates mixed glacially deposited sand and clay for the entire drilled interval, with the well screened from 139.6 ft to 146.6 ft into an aquifer consisting of fine sand.

Aquifer Testing (From the Hydrogeologic Report by John Rose)

A constant rate pump test was run at 15 gallons per minute for nearly 26 hours. Dynamic water level reached a depth of 123.16 ft and recovery of water level to 62.41 ft took 36.6 hours. 75% of recovery occurred within 40 minutes of the pump being shut off. Water levels were measured in an observation well (well tag # AHH988) 287.85 ft to the southeast of the production well.

Using Aquifer Test Pro software, Transmissivity was calculated using the Theis model for the recovery period of the test generated a result of 241 gpd/ft. with a yield of 21,600 gpd. The results from the pump test analysis are summarized in table 1.

Date	June 24-26, 2007
Duration (hours)	25 hours 48 min.
Static Water Level	61.45ft.
Maximum Drawdown	123.16ft.
Recovery Level	62.41ft.
Recovery Time	36.6 hours.
Total gallons pumped	23,216 gallons
Yield (calculated)	21,600 gpd
Transmissivity	241 gpd/ft

Aquifer Recharge and Groundwater Flow Directions

Russell reports that the source of groundwater in the San Juan's is exclusively from precipitation. Precipitation in the area is between 32-36 inches per year and annual recharge occurs mostly during the wintertime, from September to April when precipitation is highest and evapotranspiration and artificial discharge is lowest. (Orr et al. 2002) Data provided by Orr reports significant simulated annual recharge of 5.5 to 6 inches to the area encompassing the location of the well. Static water level tests in the Golf Estates well in August 1978 and June 2007 yielded water levels of 66 and 61.5 ft depth respectively. Based on these conditions, the static water levels indicate a good groundwater source which should have sufficient amounts for domestic use.

Site Visit

On February 3, 2010, John Rose and I met with Bob Eagan, the applicant's representative, who gave us a tour of the system. We observed the wells, plumbing, booster pumps, water storage tank, and homes on the system.

Water System Details

Orcas Island Golf Estates has one six-inch diameter well located in the northeast corner of the Orcas Island Golf Course just off Orcas Road in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 22, Township 37 North, Range 2 West. The well is completed to a depth of 149.6 feet with a 1 $\frac{1}{2}$ hp Flint & Walling submersible pump set at a depth of 130 feet in the well. The well pumps into a 20,000 gallon Scafco water tank through a 4-inch PVC pipe that runs across the northern portion of the golf course to the tank located on tax parcel 272711003. A Clayton float valve isolates the line from the well when the tank is full. A pressure switch at the well controls the electronic on – off of the well pump. A 4-inch PVC main supplies water from the tank to the booster station along Sunderland Road. A 1 $\frac{1}{2}$ hp Flint & Walling centrifugal booster pump and three 119 gallon Challenger pressure tanks in series supply water at a rate of 60 gpm with a pressure of 30-50 psi to residences via 1-inch PVC lines run off the 4-inch mains. A pump saver shuts off the booster pump in low water conditions.

The current application is to expand the service area to include Morning Star Heights which is currently a Class B exempt water system, and other contiguous properties. This will potentially increase the number of connections from 19 to 42. The Morning Star Heights Water System consists of four low production bedrock wells, and three 1,750 gallon Cuz concrete storage tanks. Service mains consist of 2-inch PVC. Morning Star Wells 1, 3 and 4 are located in SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 26, and Well 2 is located in SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 23, all in Township 37 North, Range 2 West.

Orcas Island Golf Estates Water Users plan to keep Morning Star Heights Water System's wells for emergency back-up. However, the Morning Star wells will lose their exempt well status when Orcas Island Golf Estates connects to Morning Star Heights infrastructure. If they do not disconnect these wells from the system they must either: 1) submit a change application to include them as additional points of withdrawal to be used for emergency back-up (known as standby/reserve wells); or 2) submit a new application to include them as additional points of withdrawal if they want additional instantaneous pumping capacity (known as additive or alternate wells). Until such additional application is processed the four Morning Star Heights wells may not be used.

Water Rights in the Vicinity of Orcas Island Golf Estates

The Department of Ecology Water Right Tracking System (WRTS) database was queried to determine the number of existing water rights within one-half mile of the point of withdrawal. An arbitrarily, yet conservatively chosen area of one-half mile is used to define "close proximity". This value is justified experimentally based on current and historical pump test data that show negligible drawdown, and therefore unlikely impairment to wells or surface water diversions, induced by groundwater withdrawal from wells at a distance of 1000 feet in most cases. In addition to the two water rights held by Orcas Island Golf Estates (G1-23395C and G1-26206P), one reservoir certificate, one surface water permit, and one ground water permit were found to be located within this vicinity. The water rights are summarized in Table 2 below:

Water Right	Priority Date	Type	Qi	Qa (afy)	Purpose of Use
G1-28262P	07/13/2005	Permit	5.7 gpm	4.6	Multiple Domestic, Irrigation
R1-*15426C	04/28/1959	Certificate	—	5	Single Domestic, Irrigation, Stock Watering, Wildlife, Fish Propagation
S1-28073P	05/01/2000	Permit	0.223 cfs	64.6	Irrigation
G1-26206P	05/30/1991	Permit	*13 gpm	**5.7	Multiple Domestic
G1-23395C	05/31/1979	Certificate	13 gpm	5.7	Multiple Domestic

* G1-26206 Qi of 13 gpm is non-additive to G1-23395C

** G1-26206 Qa of 5.7 afy is non-additive to G1-23395C

In addition to the water rights listed in Table 2, there are ten ground water claims and three surface water claims within the ½ mile radius. One of the surface water claims is for the Orcas Island Golf Course which also has surface water permit S1-28073P for the same use. A water right claim is a statement of the beneficial use of water that occurred prior to the adoption of the water right codes and is not authorized by a state-issued permit or certificate. The Department of Ecology cannot verify the validity of these claims, as water right claims can only be confirmed in an adjudication by the Washington State Superior Court. Many of the claims represent use under the ground water exemption (RCW 90.44.050) for single domestic use.

Ecology's well log database shows twenty-one water wells within one-half mile of the point of withdrawal. Some of the wells belong to the certificated and claimed water rights mentioned above. The remainder fall under the ground water exemption.

FINDINGS

Under state law the following four criteria must be met for an application to be approved:

- Water must be available
- There must be no impairment of existing rights
- The water use must be beneficial
- The water use must not be detrimental to the public interest

Water Availability

The well has shown that it is capable of producing the 15 gpm requested. Based on the low amounts of water to be used, the high static water levels measured in the well, the pump test results, and the recharge characteristics of the immediate area, water is physically available for appropriation from this well.

There are no regulatory closures or restrictions affecting water availability on Orcas Island, therefore I find water is legally available for this appropriation..

The annual quantity of 12.6 acre-feet per year was calculated based on a maximum of 42 connections using average rural use in the area of 0.30 acre-feet per connection.

Impairment Considerations

One ground water permit, one surface water permit, one reservoir certificate, ten ground water claims, three surface water claims, and twenty-one water wells all exist within one-half mile of the point of withdrawal for this application. The withdrawal for this application is from a well that is deep enough to have no connection to any surface water rights or claims. Based on the pump test and past use of the applicants well, there should be no impacts or impairment to wells in the vicinity.

Beneficial Use

Multiple domestic supply is considered to be beneficial under RCW 90.54.020(1).

Public Interest Considerations

No potential for detriment to the public interest could be identified during the investigation of this application.

Consideration of Protests and Comments

No protests were filed against this application.

DISCUSSION

The following definitions of the terms “additive”, “non-additive”, “alternate”, and “standby/reserve” are cited from Water Resources Program Policy 1040:

Additive - A water right for either annual or instantaneous quantities of water that are added to an existing water right.

Non-additive - A water right for either annual or instantaneous quantities of water that does not increase the water available in existing water rights.

Alternate - A water right that can be used either instead of, or simultaneously with, another water right. Alternate rights authorize a substitute point of diversion or withdrawal under a second water right to meet or augment an existing water right. The water user is allowed to determine which right to use. An alternate water right generally does not have an annual quantity that is additive to other water rights, and can have an instantaneous quantity that is either additive or non-additive depending on the needs of the project.

Standby/Reserve - A water right that can only be used when the primary water right goes unfilled or cannot satisfy an authorized use during times of drought or other low flow periods. A primary right must be used to the extent available before a standby/reserve right is used.

While processing this application I reviewed all previously issued water rights for Orcas Island Golf Estates. G1-23395C was certificated March 15, 1984, for 30 gpm and 13 acre-feet per year. On December 29, 1995, G1-26206P was permitted for 13 gpm and 5.7 acre-feet per year supplemental (non-additive) to G1-23395C. The face of permit G1-26206P reads: “Supplemental to G1-23395C; the total quantities for G1-26206 & G1-23395 shall not exceed 13 gallons per minute (gpm) and 5.7 acre-feet per year.”

Curious why the total was decreased from 30 gpm and 13 acre-feet per year for certificate G1-23395C, I looked at the file for G1-26206 and found the applicant stated the application was to correct the place of use, withdrawal rate, and annual consumption, to comply with Department of Health Regulations. G1-23395 incorrectly published point of withdrawal in NE¼ NE¼ Section 27. G1-26206 published point of withdrawal in SE¼ SE¼ Section 22 which is the correct location (same well) for both.

The Report of Examination for G1-26206 states: “A superseding certificate for G1-23395C will issue to correct the point of withdrawal location, to indicate the actual instantaneous and annual quantities of 13 gpm and 5.7 acre-feet per year and to show that it is supplemental to G1-26206.” I do not believe it was meant for G1-23395C to be supplemental to G1-26206. G1-26206 has to be supplemental to G1-23395C.

The Department of Ecology neglected to issue the superseding certificate because the Water Resource Section went through a major reduction in staff in the months between the time the Report of Exam was written and non-additive permit G1-26206 was issued. The report writer assigned to follow-up with Superseding Certificate G1-23395C was one of the reductions in staff. To correct this oversight we recently issued Superseding Certificate G1-23395C for 13 gpm and 5.7 acre-feet per year, and corrected the point of withdrawal location to SE¼ SE¼ Section 22, T37N., R2W. Non-additive permit G1-26206 appears to be redundant, however, the published location for the point of withdrawal (well) is correct in that file. Although redundant, it may be best to keep G1-26206 active because of the correct public notification for the well.

The current application requested place of use expansion which will potentially increase number of connections from 19 to 42. So the annual quantity of water allocated to Orcas Island Golf Estates for domestic supply will increase from 5.7 acre-feet per year to 12.6 acre-feet [(42 connections)(0.3 acre-feet per year per connection) = 12.6 acre-feet per year]. The same well will be used but the pumping rate will increase from 13 gpm to 15 gpm. Therefore, if approved, this authorization will be an additive instantaneous quantity of 2 gpm, and an additive annual quantity of 6.9 acre-feet per year.

RECOMMENDATIONS

Based on the above investigation and findings, I recommend the request for a groundwater permit be approved in the quantities and within the limitations listed below and subject to the provisions on page 2.

Purpose of Use and Authorized Quantities

The amount of water recommended is a maximum limit and the water user may only use that amount of water within the specified limit that is reasonable and beneficial:

- *15 gpm (* 2 gpm additive and 13 gpm non-additive)
- **12.6 acre-feet per year (** 6.9 acre-feet per year additive and 5.7 acre-feet per year non-additive)
- For multiple domestic supply

Point of Withdrawal

SE¼ SE¼, Section 22, Township 37 North, Range 2 West, W.M.

Place of Use

As described in Attachment 2.

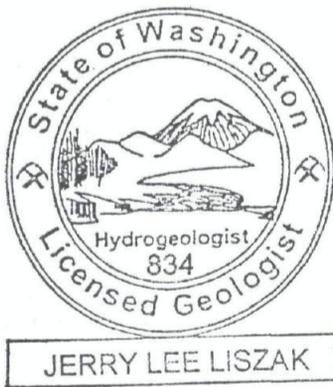
Based on the above investigation and findings, I recommend the request for a groundwater permit be approved in the quantities and within the limitations listed above and subject to the provisions on page 2.

CONCLUSIONS

In accordance with chapters 90.03 and 90.44 RCW, I conclude there is water available from the source in question, the purpose of use is beneficial, there will be no impairment of existing rights, and there will be no detriment to the public interest.

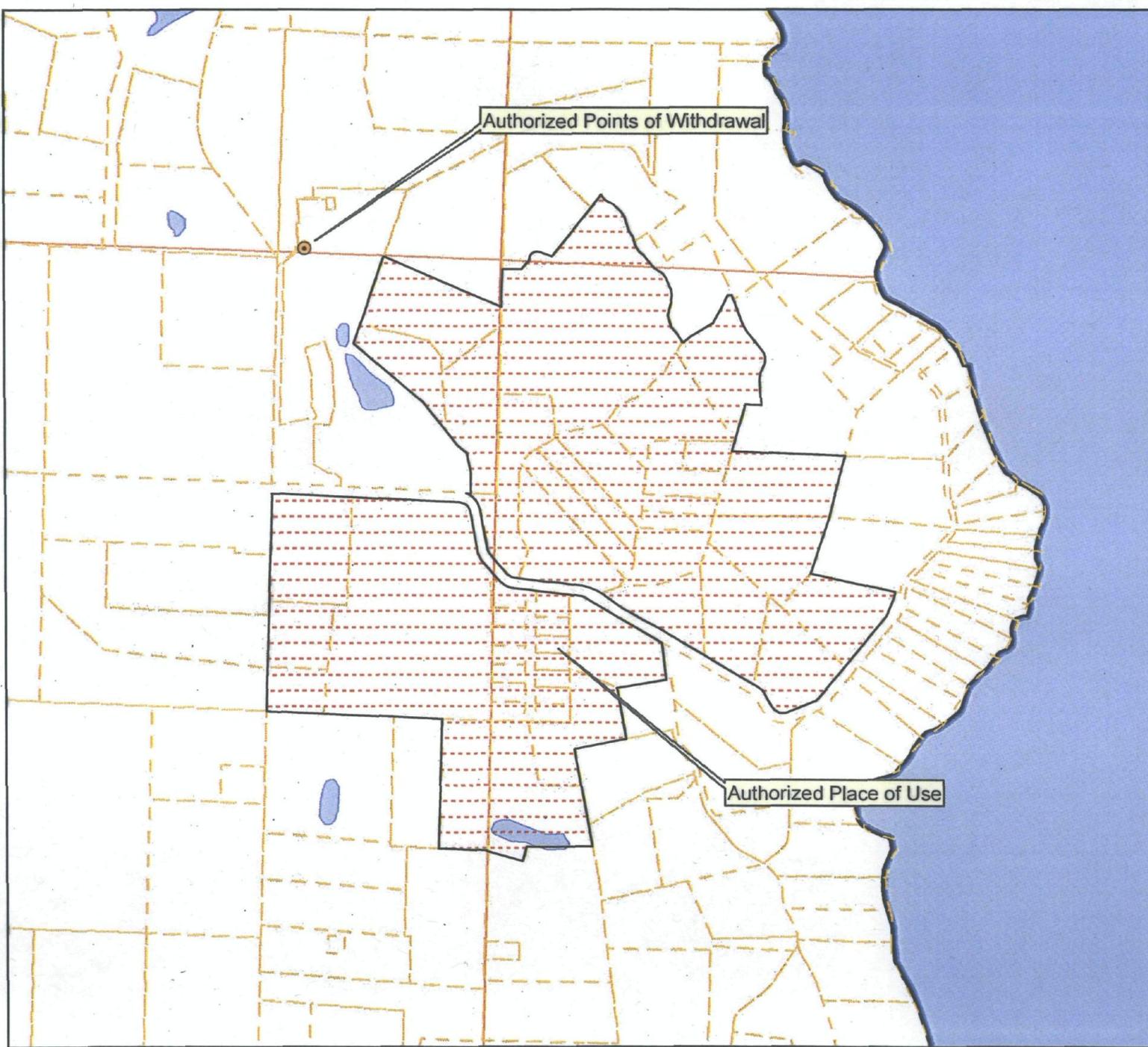
Report by: Jerry L. Liszak
 Jerry L. Liszak, LG, LHG
 Water Resources Program

4 / 14, 2010
 Date

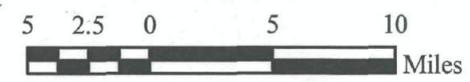
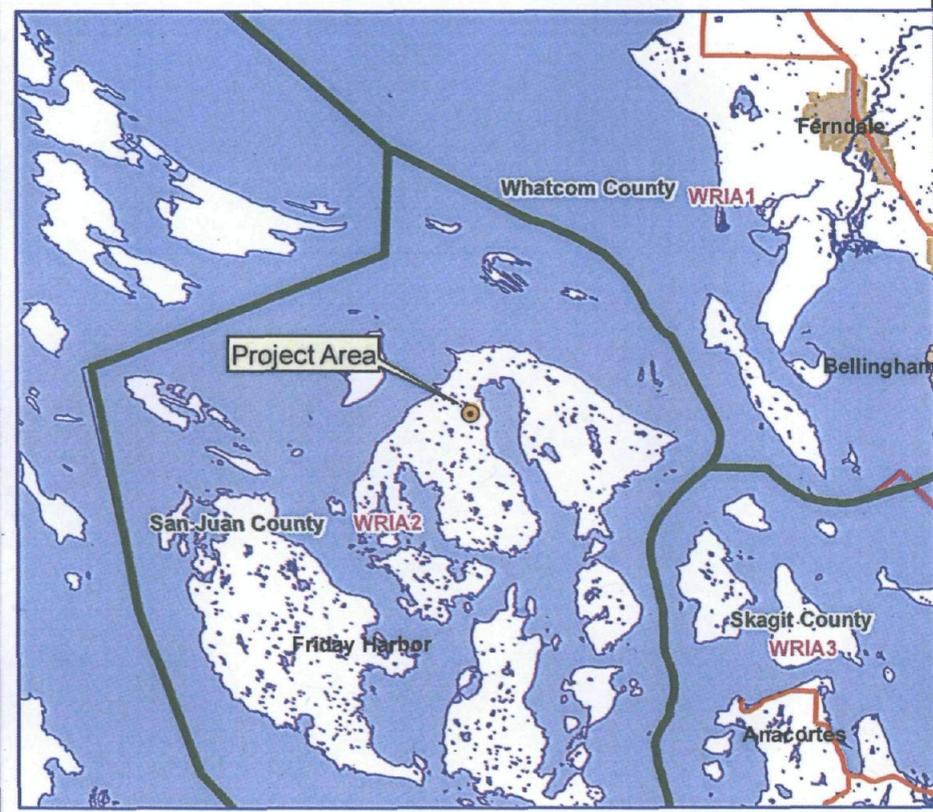


Licensed Geologist/Hydrogeologist No. 834

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Orcas Island Golf Estates Water Users
 Water Right Number G1-28612
 Sec.22, T 37N, R 02W W.M.
 WRIA 2 - San Juan County



- Legend**
- County
 - WRIA
 - Highways
 - Townships
 - cities
 - Sections
 - Authorized Point of Withdrawal
 - Authorized Place of Use

Place of use and point(s) of diversion/withdrawal are as defined on the cover sheet under the headings, 'LOCATION OF DIVERSION/WITHDRAWAL' and 'LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED.'

Attachment 1

All 14 lots of the "Orcas Island Golf Estates Sub-division", which is a portion of the SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 26 and a portion of the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 27, both in Township 37 North, Range 2 West, W.M. Recorded in Volume 2, Page 28 of Plats; TOGETHER WITH Lots 1, 2, and 3 of the "Orcas Island Golf Estates No. 2" Short Plat, which is a portion of the SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 22 and the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 27, both in Township 37 North, Range 2 West, W.M. Recorded in Volume 6, Pages 11, 11A and 11B of Short Plat Records; TOGETHER WITH lots 1 through 10 and Common Areas 1 & 2 of Morning Star Heights Sub Division. TOGETHER WITH Lots 2 and 3 of EastSound Shores Park Sub Division all in section 26, T37N R02W, W. M. And the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 27 T37N R02W except roads.

AND the following described tracts within the NW $\frac{1}{4}$ of Section 26, Township 37 North Range 2 West W.M. described as follows:

Beginning at the NW corner of Section 26 Township 37 North Range 2 West W.M. thence South $87^{\circ} 18' 41''$ E 861.54ft along the north boundary of said section, thence S 1016.28ft to the true point of beginning. Thence S $89^{\circ} 19' 16''$ E 496.36ft, thence S $16^{\circ} 13' 39''$ W 74.31ft thence S $87^{\circ} 52' 49''$ E 647.8 ft thence S $14^{\circ} 22' 37''$ W 371.4ft thence S $18^{\circ} 20' 56''$ W 350.17 ft thence S $42^{\circ} 35' 00''$ W 262.19ft thence N $48^{\circ} 02' 59''$ W 556 ft thence N 20 31 48 E 66.98 ft thence N $86^{\circ} 18' 29''$ W 416.56ft thence N $6^{\circ} 01' 29''$ E 515 ft more or less to the true point of beginning.

Beginning at the NW corner of Section 26 Township 37 North Range 2 West W.M. thence S $1^{\circ} 28' 19''$ W along the West boundary of said section 26, 790.4 ft to the true point of beginning. Thence S $89^{\circ} 48' 29''$ E 304.58 ft thence S $20^{\circ} 14' 26''$ E 21.47 ft thence S $6^{\circ} 37' 19''$ E 169.75 ft thence S $10^{\circ} 14' 58''$ W 47.3 ft thence N $77^{\circ} 41' 39''$ E 147.05 ft to the tangent of a curve to the left with a radius of 230.82ft and an internal angle of $70^{\circ} 20' 21''$ and chord direction of N $59^{\circ} 36' 52''$ E thence N $64^{\circ} 33' 25''$ E 48.71ft thence N $59^{\circ} 01' 40''$ E 48.86 ft thence N $74^{\circ} 38' 05''$ E 32.56 ft thence N $51^{\circ} 27' 54''$ E 70.93 ft thence N $38^{\circ} 13' 25''$ E 52.6 ft thence N $57^{\circ} 32' 08''$ E 61.28 ft thence N $28^{\circ} 43' 03''$ E 102 ft thence N $33^{\circ} 49' 15''$ E 109.9 ft thence N $38^{\circ} 24' 15''$ E 23 ft thence N $36^{\circ} 44' 18''$ W 109.3 ft thence N $15^{\circ} 32' 46''$ W 71.15 ft thence N $10^{\circ} 55' 20''$ E 121.7 ft thence N $18^{\circ} 37' 17''$ W 112.66 ft thence N $51^{\circ} 28' 56''$ W 101.4 ft thence N $33^{\circ} 52' 10''$ W 53.63 ft thence N $42^{\circ} 45' 29''$ W 77.2 ft N $21^{\circ} 41' 56''$ W 70.56 ft thence N $31^{\circ} 14' 29''$ W 41.9 ft thence N $18^{\circ} 26' 33''$ W 99.54 ft thence N $40^{\circ} 11' 16''$ W 84.26 ft to the tangent of a curve to the right with a radius of 123.62 ft and an internal angle of $48^{\circ} 16' 28''$ and a chord direction of N $50^{\circ} 05' 33''$ W thence S $38^{\circ} 18' 37''$ W 464 ft thence N $70^{\circ} 43' 23''$ W 65.65 ft to the tangent of a curve to the left with a radius of 51.37 ft and an internal angle of $119^{\circ} 44' 05''$ and a chord direction of S $55^{\circ} 38' 20''$ W thence S $41^{\circ} 21' 19''$ W 64.97 ft thence N $89^{\circ} 42' 37''$ W 111.3 ft thence S $1^{\circ} 41' 59''$ W 732.14 ft more or less to the true point of beginning.

TOGETHER WITH the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 27 Township 37 N Range 02 W W.M. except roads.

AND the following described tract in the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 27 and the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 26, Township 37 N Range 02 W W.M described as follows: Beginning at the E $\frac{1}{4}$ corner of Section 26 said Township and Range, thence N $87^{\circ} 25' 38''$ W 286.31 ft thence S $1^{\circ} 42' 01''$ W 760.54 ft thence S $87^{\circ} 25' 38''$ E 287.2 ft thence S $74^{\circ} 27' 16''$ E 214.66 ft thence N $15^{\circ} 43' 42''$ E 86.87ft thence N $89^{\circ} 28' 11''$ E 382.52 ft thence N $10^{\circ} 03' 15''$ W 361.1 ft N $89^{\circ} 13' 22''$ W 248.44 ft thence N $9^{\circ} 41' 39''$ W 380.2 thence N $89^{\circ} 15' 10''$ W 214.65 ft more or less to the point of beginning.

AND the Orcas Island Golf Clubhouse located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 27 Township 37 North Range 2 West W.M., all property is situated in San Juan County, State of Washington.