STATE OF WASHINGTON

REPORT OF EXAMINATION

FOR WATER RIGHT APPLICATION

FILE NR

G4-35540

WR DOC ID 5162260

PRIORITY DATE
February 24, 2012

WATER RIGHT NUMBER
G4-35540

MAILING ADDRESS
OREN DEVELOPMENT LLC (SHOVAL)
C/O MAIZEL & ASSOC
9311 SE 36TH ST #112
MERCER ISLAND WA 98040

SITE ADDRESS (IF DIFFERENT)
Unknown

QUANTITY AUTHORIZED FOR WITHDRAWAL OR DIVERSION

<table>
<thead>
<tr>
<th>WITHDRAWAL OR DIVERSION RATE</th>
<th>UNITS</th>
<th>ANNUAL QUANTITY (AF/YR)</th>
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</thead>
<tbody>
<tr>
<td>4.48 GPM</td>
<td></td>
<td>0.414</td>
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PURPOSE

<table>
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<tr>
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<th>WITHDRAWAL OR DIVERSION RATE</th>
<th>UNITS</th>
<th>ANNUAL QUANTITY (AF/YR)</th>
<th>PERIOD OF USE (mm/dd)</th>
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<td>Domestic single</td>
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<td>0.392</td>
<td>01/01 - 12/31</td>
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<tr>
<td>Irrigation</td>
<td>4.48 GPM</td>
<td>0.022</td>
<td>06/01 - 09/30</td>
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</tr>
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REMARKS

The combined instantaneous quantity from the well identified by Ecology's unique well tag # APG192 shall not exceed 33 gallons per minute (gpm) between 8 total connections.

IRRIGATED ACRES

<table>
<thead>
<tr>
<th>ADDITIVE</th>
<th>NON-ADDITIVE</th>
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<tbody>
<tr>
<td>0.011</td>
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PUBLIC WATER SYSTEM INFORMATION

<table>
<thead>
<tr>
<th>WATER SYSTEM ID</th>
<th>CONNECTIONS</th>
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<tbody>
<tr>
<td>AC325 (Carmel Views)</td>
<td>8</td>
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SOURCE LOCATION

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>WATERBODY</th>
<th>TRIBUTARY TO</th>
<th>WATER RESOURCE INVENTORY AREA</th>
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<tbody>
<tr>
<td>KITITAS</td>
<td>GROUNDWATER</td>
<td></td>
<td>39-UPPER YAKIMA</td>
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SOURCE FACILITY/DEVICE

<table>
<thead>
<tr>
<th>PARCELS (NOT LISTED FOR SERVICE AREAS)</th>
</tr>
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<tbody>
<tr>
<td>953358</td>
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LEGAL DESCRIPTION OF AUTHORIZED PLACE OF USE

Lot 1 of CARMEL VIEWS PLAT, according to the Plat recorded in Volume 11 of Plats at page(s) 24 through 25, records of Kittitas County, Washington.
Proposed Works

The subject well was drilled in 2006 (Ecology unique well ID # APG-192) to a depth of 124 feet. A 6-inch casing and a 3-horsepower (hp) submersible pump are installed in the well. The water system uses 2-inch Schedule 40 PVC outgoing pipes, attached to 20-foot stick length pipes with glued joints with 2-inch ball valves. Water from this well will be used for indoor domestic and outdoor supply. With the addition of this proposal, water from this well will be used for multiple domestic and incidental irrigation supplies totaling 8 connections and serving approximately 20 residents.

Carmel Views is a Department of Health (DOH) approved Group B community, private water system and will be regulated by DOH. Domestic wastewater will be discharged to an individual on-site septic system, pursuant to the Declaration of Covenant signed February 17, 2012, by Allon Shovel on behalf of Eli Shoval and Oren Development LLC.

Development Schedule

<table>
<thead>
<tr>
<th></th>
<th>BEGIN PROJECT</th>
<th>COMPLETE PROJECT</th>
<th>PUT WATER TO FULL USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Begun</td>
<td></td>
<td>December 31, 2030</td>
<td>December 31, 2032</td>
</tr>
</tbody>
</table>

Measurement of Water Use

- How often must water use be measured? Bi-weekly*
- How often must water use data be reported to Ecology? Annually (Jan 31)
- What volume should be reported? Total Annual Volume (ac-ft/yr)
- What rate should be reported? Annual Peak Rate of Withdrawal (gpm)

*Bi-weekly means every two weeks

Provisions

Wells, Well Logs and Well Construction Standards

The subject well and the right to use water from it is restricted to and authorized for the Spex Arth Creek alluvial sediment aquifer.

All wells constructed in the state shall meet the construction requirements of WAC 173-160 titled “Minimum Standards for the Construction and Maintenance of Wells” and RCW 18.104 titled “Water Well Construction.” Any well which is unusable, abandoned, or whose use has been permanently discontinued, or which is in such disrepair that its continued use is impractical or is an environmental, safety or public health hazard shall be decommissioned.

All wells shall be tagged with a Department of Ecology unique well identification number. If you have an existing well and it does not have a tag, please contact the well-drilling coordinator at the regional Department of Ecology office issuing this decision. This tag shall remain attached to the well. If you are required to submit water measuring reports, reference this tag number.

Installation and maintenance of an access port as described in WAC 173-160-291(3) is required.

Measurements, Monitoring, Metering and Reporting

An approved measuring device shall be installed and maintained for each of the sources identified by this water right in accordance with the rule "Requirements for Measuring and Reporting Water Use," WAC 173-173.
Ecology is requiring the recording and reporting of meter data as described above to collect seasonal information for water resource planning and compliance.

Recorded water use data shall be submitted via the Internet. To set up an Internet reporting account, contact the Central Regional Office. If you do not have Internet access, you can still submit hard copies by contacting the Central Regional Office for forms to submit your water use data.

WAC 173-173 describes the requirements for data accuracy, device installation and operation, and information reporting. It also allows a water user to petition the Department of Ecology for modifications to some of the requirements.

**Water Level Measurements**
In order to maintain a sustainable supply of water and ensure that your water source is not impaired by future withdrawals, static water levels **should** be measured and recorded monthly using a consistent methodology. Static water level is defined as the water level in a well when no pumping is occurring and the water level has fully recovered from previous pumping. Static water level data should include the following elements:

- Unique Well ID Number.
- Measurement date and time.
- Measurement method (air line, electric tape, pressure transducer, etc.).
- Measurement accuracy (to nearest foot, tenth of foot, etc.).
- Description of the measuring point (top of casing, sounding tube, etc.).
- Measuring point elevation above or below land surface to the nearest 0.1 foot.
- Land surface elevation at the well head to the nearest foot.
- Static water level below measuring point to the nearest 0.1 foot.

**Department of Health Requirements**
Prior to any new construction or alterations of a public water supply system, the State Board of Health rules require public water supply owners to obtain written approval from the Office of Drinking Water of the Washington State Department of Health. Please contact the Office of Drinking Water prior to beginning (or modifying) your project at DOH/Division of Environmental Health, 16201 E. Indiana Avenue, Suite 1500, Spokane Valley, WA 99216, (509) 329-2100.

**Water Use Efficiency**
The water right holder is required to maintain efficient water delivery systems and use of up-to-date water conservation practices consistent with RCW 90.03.005.

**Proof of Appropriation**
Final beneficial use calculations for each connection to the Carmel Views water system, either independently or combined, shall be determined during the investigation at the Proof of Appropriation stage.

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.

**Schedule and Inspections**
Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the project location, and to inspect at reasonable times, records of water use, wells, diversions, measuring devices and associated distribution systems for compliance with water law.

**General Conditions**
You (applicant) will pay to Ecology the sum of $58.61, which represents a proportionate amount of the payment due and owing to the United States for storage and delivery of water under Paragraph 15(a) of Water Storage and Exchange Contract No. 09XX101700, between the Bureau of Reclamation and the State of Washington Department of Ecology, Yakima Project, Washington, dated January 29, 2009.¹ The consumptive use of 0.072d acre-feet (ac-ft) from September 1 through March 31 is subject to the terms and conditions in the Water Storage and Exchange Contract No. 09XX101700.

You (applicant) will record with the Kittitas County Auditor a property covenant as required under WAC 173-539A-050 that restricts or prohibits trees or shrubs over a septic drain field on Parcel No. 953358.

You (applicant) will record with the Kittitas County Auditor an appropriate conveyance instrument under which the applicant obtains an interest in Trust Water Right No. S4-05259CTCL@2sb7 to offset consumptive use.

Any valid priority calls against the source Trust Water Right No. S4-05259CTCL@2sb7, based on local limitations in water availability, will result in temporary curtailment of the use of water under the permit until the priority call for water ends.

**Findings of Facts**
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; that there will be no impairment of existing rights; that the purpose(s) of use are beneficial; and that there will be no detriment to the public interest.

Therefore, I ORDER approval of Application No. G4-35540, subject to existing rights and the provisions specified above.

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¹ “Long-Term Water Storage and Exchange Agreement between the U.S. and the State of Washington, Department of Ecology” [Contract No. 09XX101700],
receipt by the PCHB during regular business hours.

- Serve a copy of your appeal and this Order on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

- You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

### Street Addresses

<table>
<thead>
<tr>
<th><strong>Department of Ecology</strong></th>
<th><strong>Mailing Addresses</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Attn: Appeals Processing Desk</td>
<td>Department of Ecology</td>
</tr>
<tr>
<td>300 Desmond Drive SE</td>
<td>Attn: Appeals Processing Desk</td>
</tr>
<tr>
<td>Lacey, WA 98503</td>
<td>PO Box 47608</td>
</tr>
<tr>
<td></td>
<td>Olympia, WA 98504-7608</td>
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<table>
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<tr>
<th><strong>Pollution Control Hearings Board</strong></th>
<th><strong>Mailing Addresses</strong></th>
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<tr>
<td>1111 Israel RD SW Ste 301</td>
<td>Pollution Control Hearings Board</td>
</tr>
<tr>
<td>Tumwater, WA 98501</td>
<td>PO Box 40903</td>
</tr>
<tr>
<td></td>
<td>Olympia, WA 98504-0903</td>
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For additional information visit the Environmental Hearings Office Website: [http://www.eho.wa.gov](http://www.eho.wa.gov)
To find laws and agency rules visit the Washington State Legislature Website: [http://www.leg.wa.gov/CodeReviser](http://www.leg.wa.gov/CodeReviser)

Signed at Yakima, Washington, this ________________ day of __________________________ 2012.

_________________________________________
Mark Kemner, LHG, Section Manager
Water Resources Program/CRO

BACKGROUND

This report serves as the written findings of fact concerning Water Right Application Number G4-35540.

Priority Processing

This application is being priority processed because it qualified under the criteria under which an application may be processed prior to competing applications (WAC 173-152).

Table 1: Summary of “Requested” Water Right

<table>
<thead>
<tr>
<th>Applicant Name</th>
<th>Oren Development LLC (Eli Shoval)</th>
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<tbody>
<tr>
<td>Date of Application</td>
<td>2/24/2012</td>
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<td>Place of Use</td>
<td>Lot 1 of CARMEL VIEWS PLAT, according to the Plat recorded in Volume 11 of Plats at page(s) 24 through 25, records of Kittitas County, Washington, Parcel No. 953358.</td>
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<table>
<thead>
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<th>County</th>
<th>Waterbody</th>
<th>Tributary To</th>
<th>WRIA</th>
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<tbody>
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<td>Kittitas</td>
<td>Groundwater</td>
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<td>39-Upper Yakima</td>
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<tr>
<th>Purpose</th>
<th>Rate</th>
<th>Unit</th>
<th>Ac-ft/yr</th>
<th>Begin Season</th>
<th>End Season</th>
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<tr>
<td>Domestic single</td>
<td>33</td>
<td>GPM</td>
<td>0.392</td>
<td>01/01</td>
<td>12/31</td>
</tr>
<tr>
<td>Irrigation</td>
<td>33</td>
<td>GPM</td>
<td>0.022</td>
<td>06/01</td>
<td>09/30</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Source Name</th>
<th>Parcel</th>
<th>Well Tag</th>
<th>Twp</th>
<th>Rng</th>
<th>Sec</th>
<th>QQ</th>
<th>Latitude</th>
<th>Longitude</th>
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<tbody>
<tr>
<td>1 Well</td>
<td>953358 &amp; 953359</td>
<td>APG-192</td>
<td>19N</td>
<td>15E</td>
<td>07</td>
<td>SENE</td>
<td>47.15623</td>
<td>-121.01041</td>
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</table>

CFS = Cubic Feet per Second; Ac-ft/yr = Acre-feet per year; Sec. = Section; QQ Q = Quarter-quarter of a section; WRIA = Water Resource Inventory Area; E.W.M. = East of the Willamette Meridian; Datum: NAD83/WGS84.

Legal Requirements for Approval of Appropriation of Water

RCWs 90.03 and 90.44 authorize the appropriation of public water for beneficial use and describe 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 90.44.050. In accordance with RCW 90.03.290, determinations must be made on the following four criteria in order for an application for water rights 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.

Public Notice

RCW 90.03.280 requires that notice of a water right application be published once a week, for two consecutive weeks, in a newspaper of general circulation in the county or counties where the water is to be stored, diverted and used. Notice of this application was published in the Daily Record of Ellensburg, Washington on April 25th and May 2, 2012. No comments or protests were received by the Department of Ecology (Ecology) during the 30-day comment period.
Consultation with the Department of Fish and Wildlife
Ecology must give notice to the Department of Fish and Wildlife of applications to divert, withdraw or store water. Notice was officially provided on July 2, 2012, during a Yakima Water Transfer Workgroup (WTWG) meeting. A positive response was communicated in response to this proposal.

State Environmental Policy Act (SEPA)
A water right application is subject to a SEPA threshold determination (i.e., an evaluation whether there are likely to be significant adverse environmental impacts) if any one of the following conditions are met:

(a) It is a surface water right application for more than one cubic-foot per second (cfs), unless that project is for agricultural irrigation, in which case the threshold is increased to 50 cfs, so long as that irrigation project will not receive public subsidies.

(b) It is a groundwater right application for more than 2,250 gallons per minute (gpm).

(c) It is an application that, in combination with other water right applications for the same project, collectively exceed the amounts above.

(d) It is a part of a larger proposal that is subject to SEPA for other reasons (e.g., the need to obtain other permits that are not exempt from SEPA).

(e) It is part of a series of exempt actions that, together, trigger the need to do a threshold determination, as defined under WAC 197-11-305.

Because this application does not meet any of these conditions, it is categorically exempt from SEPA and a threshold determination is not required.

INVESTIGATION

Site Visit
A site visit was performed on June 7, 2011, for a previous application using the same source by Candis Graff and Anna Hoselton, both from Ecology. Global Positioning Satellite (GGPS) coordinates were taken of the location of the well head. Using 2009 National Agricultural Imaging Program (NAIP) aerial photography and ArcGIS10 computer software, Ecology later determined that the GPS coordinates placed the well approximately 45-feet too far to the east. Although the coordinates are still within the accepted range of error in location accuracy for the GPS hand-held unit, Ecology used the best available science of aerial photography coupled with the recall of the site visit to accomplish a more precise mapping of the location of the well.

Proposed Use and Basis of Water Demand
The DOH-approved Group B water system, Carmel Views, became effective on May 5, 2009, and is approved for 8 connections with a residential population estimated at 20. The source, however, is not currently metered.
The December 2009 *Water System Design Manual*\(^2\) (WSDM) by DOH contains guidance for establishing water demands. The suggested methods, in order of preference, include:

1. Metered water production and use records.
2. Comparable metered water production and use data from analogous water systems. See WAC 246-290-221(3)(a) and Section 5.2.3.
3. The criteria presented in Chapter 5.

According to the WSDM, new systems or water systems that have no source meter records, information can be obtained from analogous water systems or from information presented in Appendix D in order to estimate Average Daily Demand (ADD) and Maximum Daily Demand (MDD) for residential connections (WAC 246-290-221(3)).\(^3\) Analogous water systems are defined in Section 5.2.3 of the WSDM as systems with similar characteristics, such as but not limited to: demographics, housing size, lot sizes, climate, conservation practices, use restrictions, soils and landscaping, and maintenance practices. As such, a reasonable level for a MDD for internal uses can be established at 350 gpd/Equivalent Residential Unit (ERU).

The MDD values are set at 350 gpd/ERU, which is consistent with the WSDM. Under WAC 173-539A, 30% of domestic in-house use on a septic system is assumed to be consumptively used and 90% of outdoor domestic use is assumed to be consumptive.

Monthly and annual use at full build-out of the project were calculated based on the proposed one ERU, DOH’s MDD, Ecology’s Guidance Document 1210, *Determining Irrigation Efficiency and Consumptive Use*, the *Washington Irrigation Guide* (WIG) for outdoor water use, and the assumptions found in WAC 173-539A. A crop irrigation requirement (CIR) for grass in the Cle Elum area of 18.11 inches was estimated using the WIG. Assuming the outdoor use is 90% consumptive, consistent with WAC 173-539A, and applying the WIG’s CIR, the outdoor water requirement for 500 square-feet (0.011 acre) of grass is 0.019 ac-ft/yr. The calculated consumptive use and total calculation considered factors specified in WAC 173-539A and are summarized in Table 2 below.

<table>
<thead>
<tr>
<th></th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
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<th>Oct</th>
<th>Nov</th>
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<tr>
<td>Total Use (ac-ft)</td>
<td>.033</td>
<td>.030</td>
<td>.033</td>
<td>.032</td>
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<td>.038</td>
<td>.036</td>
<td>.033</td>
<td>.032</td>
<td>.033</td>
<td>.414</td>
</tr>
<tr>
<td>Total Consumptive (ac-ft)</td>
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<td>.009</td>
<td>.010</td>
<td>.010</td>
<td>.010</td>
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<td>.013</td>
<td>.010</td>
<td>.010</td>
<td>.010</td>
<td>.137</td>
</tr>
</tbody>
</table>

*Quantities are rounded.

**Other Rights Appurtenant to the Place of Use**

No other water rights are appurtenant to the proposed place-of-use (POW). No surface water rights from Spex Arth Creek within a .5-mile radius were confirmed by the adjudication court. Other ground water rights in the vicinity are summarized in Table 3 below.

---


\(^3\) Ibid. p. 28.
### Table 3: Ground Water Rights within .5-Mile Radius of POW

<table>
<thead>
<tr>
<th>Control Number</th>
<th>Document Type</th>
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<th>Purpose</th>
<th>Source</th>
<th>Purpose</th>
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<td>DG, IR, ST</td>
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<tr>
<td>G4-053368CL</td>
<td>Claim</td>
<td>Not Specified</td>
<td>DG</td>
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<td>G4-35435</td>
<td>WBN/Application Pending</td>
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<td>DM, IR</td>
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<td>Permit</td>
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<td>DS, IR</td>
<td>1 Well</td>
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<tr>
<td>G4-35526P</td>
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<td></td>
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<tr>
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<td>G4-35556</td>
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<tr>
<td>G4-2806CWRIS</td>
<td>Certificate</td>
<td>1.0 ac-ft/yr</td>
<td>DS</td>
<td>1 Well</td>
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<td></td>
</tr>
</tbody>
</table>

Definitions: WBN=Water budget Neutral, DM=Domestic Multiple, DS=Domestic Single, IR=Irrigation, DG=Domestic General, and ST=Stock water

G4-108735CL and G4-053368CL are short-form claims and represent permit-exempt groundwater uses.

WBN Pending Application No. G4-35435 requests withdrawal from an undrilled well for domestic supply to serve one residence and incidental irrigation.

Permit Nos. G4-35250P, G4-35460P, and G4-35495P authorize multiple supplies for up to 80 connections total between the three permits along with approximately five-acres of irrigation.

Pending application Nos. G4-35539 and G4-35556 request water both from the same proposed well and from a neighboring well for single domestic and incidental lawn and garden.

G4-2806CWRIS authorizes single domestic supply seasonally from March 1 through October 31.

**Impairment Considerations**

Impairment is an adverse impact on the physical availability of water for a beneficial use that is entitled to protection. A water right application may not be approved if it would:

- Interrupt or interfere with the availability of water to an adequately constructed groundwater withdrawal facility of an existing right. An adequately constructed groundwater withdrawal facility is one that:
  - is constructed in compliance with well construction requirements, and
  - fully penetrates the saturated zone of an aquifer or withdraws water from a reasonable and feasible pumping lift.

- Interrupt or interfere with the availability of water at the authorized point of diversion of a surface water right. A surface water right conditioned with instream flows may be impaired if a proposed use or change would cause the flow of the stream to fall to or below the instream flow more frequently or for a longer duration than was previously the case.

- Interrupt or interfere with the flow of water allocated by rule, water rights, or court decree to instream flows.
• Degrade the water quality of the source to the point that the water is unsuitable for beneficial use by existing users (e.g., via sea water intrusion).

**Impairment, Qualifying Works, and Well Interference**

There are three concepts that are important when considering whether a withdrawal of water from a well would impair another existing water right. The concepts are defined as follows:

**Impairment** is an adverse impact on the physical availability of water for a beneficial use that is entitled to protection.

**Qualifying ground water withdrawal facilities** are defined as those wells which in the opinion of Ecology are adequately constructed. An adequately constructed well is one that:

(a) is constructed in compliance with well construction requirements;

(b) fully penetrates the saturated thickness of an aquifer or withdraws water from a reasonable and feasible pumping lift (WAC 173-150);

(c) has withdrawal facilities capable of accommodating a reasonable variation in seasonal pumping water levels; and

(d) the withdrawal facilities and pumping facilities are properly sized to match the ability of the aquifer to produce water.

**Well Interference** is the overlap of the cones of depression for two or more wells. Well interference reduces the water available to the individual wells and may occur when several wells penetrate and withdraw groundwater from the same aquifer. Each pumping well creates a drawdown cone. When several wells pump from the same aquifer, well density, aquifer characteristics, and pumping demand may result in individual drawdown cones that intersect and form a composite drawdown cone.

**Water Availability**

For water to be available for appropriation, it must be both physically and legally available.

**Physical Availability**

For water to be physically available for appropriation there must be ground or surface water present in quantities and quality and on a sufficiently frequent basis to provide a reasonably reliable source for the requested beneficial use or uses. In addition, the following factors are considered:

• Volume of water represented by senior water rights, including federal or tribal reserved rights or claims.

• Water right claims registered under Chapter 90.14 RCW.

• Ground water uses established in accordance with Chapter 90.44 RCW, including those that are exempt from the requirement to obtain a permit.

• Potential riparian water rights, including non-diversionary stock water.

• Lack of data indicating water usage can also be a consideration in determining water availability, if the department cannot ascertain the extent to which existing rights are consistently utilized and cannot affirmatively find that water is available for further appropriation.
Legal Availability
To determine whether water to be legally available for appropriation, the following factors are considered:

- Regional water management plans – which may specifically close certain water bodies to further appropriation.
- Existing rights – which may already appropriate physically available water.
- Fisheries and other instream uses (e.g., recreation and navigation). Instream needs, including instream and base flows set by regulation. Water is not available for out of stream uses where further reducing the flow level of surface water would be detrimental to existing fishery resources.
- The Department may deny an application for a new appropriation in a drainage where adjudicated rights exceed the average low flow supply, even if the prior rights are not presently being exercised. Water would not become available for appropriation until existing rights are relinquished for non-use by state proceedings.

Hydrologic/Hydrogeologic Evaluation
The following hydrologic/hydrogeologic excerpts were prepared in a technical memorandum dated June 21, 2011, for a previous proposal and modified on May 22, 2012, this proposal, by licensed hydrogeologist, Anna Hoselton and reviewed by Thomas Mackie, supervisor and licensed hydrogeolgist, and seeks to address, by way of discussion, analysis, and evaluation, physical availability and potential for impairment to existing water users.

Project Area Geologic/Hydrogeology, Water Availability, Impairment, and issues related to Spex Arth Creek for well APG192 was previously evaluated in the June 21st, 2011, Technical Memorandum written for permit file G4-35460 for Oren Development LLC. Permitting conclusions found in the previous evaluation are directly applicable to the current applications seeking to use well APG192 and are summarized below to include the current applications:

Water Availability:
Based on area topography, groundwater levels and flow direction calculations, groundwater captured by the subject well is most likely to reduce the Sub Surface Run Off (SSRO). Based on the hydrogeologic setting, well data, and the simplified water balance, groundwater is physically available for the project. Water availability, however, also includes policy, management and legal considerations and is ultimately a permitting/management decision that is, in part, based on the above information.

Impairment:
The additional withdrawal of 0.828 af/yr (0.414 af/yr per application) at existing well APG192 for applications G4-35540 and G4-35556 will result in approximately one-ft of additional drawdown in the vicinity of the well, but is not anticipated to result in impairing effects on existing rights.

Based on the hydrogeologic setting, well data, and the simplified water balance, groundwater is physically available for the project.

Legal availability, however, is ultimately a permitting/management decision that is, in part based on the below information.
WAC 173-539A withdrew from appropriation all groundwater within upper Kittitas County. Only new withdrawals of groundwater where the new appropriation is determined water budget neutral are allowed. The rule defines water budget neutral as “… an appropriation or project where withdrawals of ground water of the state are proposed in exchange for discharge of water from other water rights that are placed into the trust water right program where such discharge is at least equivalent to the amount of consumptive use”.

The appropriation proposed under the subject application will be water budget neutral by dedicating 0.137 ac-ft/yr of consumptive use available from the Suncadia Water Exchange to mitigation purposes. Table 3 above represents the estimated monthly consumptive use for the project.

**Beneficial Use**

The proposed uses of water for single domestic and irrigation purposes are defined in statute as a beneficial uses (RCW 90.54.020(1)).

**Public Interest Considerations**

When investigating a water right application, Ecology is required to consider whether the proposal is detrimental to the public interest. Ecology must consider how the proposal will affect an array of factors such as wildlife habitat, recreation, water quality, and human health. The environmental resources and other natural values associated with the area were taken into account during the consideration of this application.

**Consideration of Protests and Comments**

No protests were filed against this application.

**Conclusions**

In conclusion,

- Water is physically available at the quantities sufficient to meet project demand. When combined with the proposed mitigation measures, water is legally available under the provisions of WAC 173-539A
- RCW 90.54.020 recognizes domestic and irrigation uses as beneficial uses of water.
- Approval of the proposed appropriation will not result in impairment of existing water rights.
- Approval of the proposed appropriation is not detrimental to the public interest.

**RECOMMENDATIONS**

Based on the above investigation and conclusions, I recommend that this request for a water right be approved in the amounts and within the limitations listed below and subject to the provisions listed above.
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:

- 4.48 gallons per minute
- 0.414 acre-feet per year (0.392 ac-ft/yr for single domestic and 0.022 ac-ft/yr for irrigation).
- Continuous indoor single domestic for 1 residence.
- Seasonal irrigation of up to 0.011 acre of lawn and garden from June 1 through September 30 annually.

Point of Withdrawal

One well (APG-192) approximately 1040 feet west and 1805 feet south from the northeast corner of Section 7, within the SE¼, NE¼, Section 7, Township 19 North, Range 15 E.W.M.

Place of Use

As described on Page 2 of this Report of Examination.

Candis L. Graff

Date