

Application for a Permit to Use Groundwater



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

Water-Use Permit Application Processing

1. Completeness Determination

The Department evaluates whether the application and accompanying map contain all of the information required under OAR 690-310-0040 and OAR 690-310-0050 (www.oregon.gov/owrd/law). The Department also determines whether the proposed use is prohibited by statute. If the Department determines that the application is incomplete, all fees have not been paid, or the use is prohibited by statute, the application and all fees submitted are returned to the applicant.

2. Initial Review

The Department reviews the application to determine whether water is available during the period requested, whether the proposed use is restricted or limited by rule or statute, and whether other issues may preclude approval of or restrict the proposed use. An Initial Review (IR) containing preliminary determinations is mailed to the applicant. The applicant has 14 days from the mailing date to withdraw the application from further processing and receive a refund of all fees paid minus \$260. The applicant may put the application on hold for up to 180 days and may request additional time if necessary.

3. Public Notice

Within 7 days of the mailing of the initial review, the Department gives public notice of the application in the weekly notice published by the Department at www.oregon.gov/owrd. The public comment period is 30 days from publication in the weekly notice.

4. Proposed Final Order Issued

The Department reviews any comments received, including comments from other state agencies related to the protection of sensitive, threatened or endangered fish species. Within 60 days of completion of the IR, the Department issues a Proposed Final Order (PFO) explaining the proposed decision to deny or approve the application. A PFO proposing approval of an application will include a draft permit, and may request additional information or outstanding fees required prior to permit issuance.

5. Public Notice

Within 7 days of issuing the PFO, the Department gives public notice in the weekly notice. Notice includes information about the application and the PFO. Protest must be received by the Department within 45 days after publication of the PFO in the weekly notice. Anyone may file a protest. The protest filing fee is \$410 for the applicant and \$810 for non-applicants. Protests are filed on approximately 10% of Proposed Final Orders. If a protest is filed, the Department will attempt to settle the protest but will schedule a contested case hearing if necessary.

6. Final Order Issued

If no protests are filed, the Department issues a Final Order consistent with the PFO. If the application is approved, a permit is issued that specifies the details of the authorized use and any terms, limitations or conditions that the Department deems appropriate.

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Minimum Requirements Checklist

Minimum Requirements (OAR 690-310-0040, OAR 690-310-0050 & ORS 537.615)

Include this checklist with the application

Check that each of the following items is included. The application will be returned if all required items are not included. If you have questions, please call the Water Rights Customer Service Group at (503) 986-0900.

- SECTION 1: applicant information and signature
- SECTION 2: property ownership
- SECTION 3: well development
- SECTION 4: water use
- SECTION 5: water management
- SECTION 6: storage of groundwater in a reservoir
- SECTION 7: use of stored groundwater from the reservoir
- SECTION 8: project schedule
- SECTION 9: within a district
- SECTION 10: remarks

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Attachments:

- Land Use Information Form with approval and signature of local Planning Department (*must be an original*) or signed receipt (**Attachment A**)
- Provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map. Example: **A copy of the deed, land sales contract or title insurance policy.**
See attachment C for the legal description of the property where the proposed points of appropriation are located.
- Fees - Amount enclosed: **\$ 2,910**
See the Department's Fee Schedule at www.oregon.gov/owrd or call (503) 986-0900.

Provide a map and check that each of the following items is included: (Attachment B**).**

- Permanent quality and drawn in ink
- Even map scale not less than 4" = 1 mile (example: 1" = 400 ft, 1" = 1320 ft, etc.)
- North Directional Symbol
- Township, Range, Section, Quarter/Quarter, Tax Lots
- Reference corner on map
- Location of each well, and/or dam if applicable, by reference to a recognized public land survey corner (distances north/south and east/west). Each well must be identified by a unique name and/or number.
- Indicate the area of use by Quarter/Quarter and tax lot clearly identified
- Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery **N/A-The proposed use is quasi-municipal.**
- Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)

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SECTION 1: APPLICANT INFORMATION AND

SIGNATURE

Applicant Information

APPLICANT/BUSINESS NAME Avion Water Company, Inc., Attn: Jason Wick			PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS 60813 Parrell Road			FAX NO.	
CITY Bend	STATE OR	ZIP 97702	E-MAIL Jason@avionwater.com	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT/BUSINESS NAME GSI Water Solutions, Attn: Adam Sussman			PHONE NO. 541-257-9001	ADDITIONAL CONTACT NO.
ADDRESS 1600 SW Western Blvd, Suite 240			FAX NO.	
CITY Corvallis	STATE OR	ZIP 97333	E-MAIL asussman@gsiws.com	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

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Note: Attach multiple copies as needed

* By providing an e-mail address, consent is given to receive all correspondence from the Department electronically. (Paper copies of the final order documents will also be mailed.)

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By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.

 **I (we) affirm that the information contained in this application is true and accurate.**

Applicant Signature

Jason Wick, President, Avion Water Co, Inc.

Print Name and title if applicable

Date

Applicant Signature

Print Name and title if applicable

Date

For Department Use		
App: No. 6-10608	Permit No. _____	Date _____

SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

Yes

There are no encumbrances.

This land is encumbered by easements, rights of way, roads or other encumbrances.

No The applicant meets the definition of a municipality as described in ORS 540.510(3) (b).

I have a recorded easement or written authorization permitting access to the proposed points of appropriation.

I do not currently have written authorization or easement permitting access.

Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).

Water is to be diverted, conveyed, and/or used only on federal lands.

List the names and mailing addresses of all affected landowners (*attach additional sheets if necessary*).

N/A-The applicant meets the definition of a municipality as described in ORS 540.510(3) (b).

You must provide the legal description of: 1. The property from which the water is to be diverted, 2. Any property crossed by the proposed ditch, canal or other work, and 3. Any property on which the water is to be used as depicted on the map.

See Attachment C for a legal description of the property where the proposed points of appropriation are located.

SECTION 3: WELL DEVELOPMENT

WELL NO.	NAME OF NEAREST SURFACE WATER	IF LESS THAN 1 MILE:	
		DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
SCCE Well 1	Whychus Creek	0.41 miles	+ approximately 329 ft.
SCCE Well 2	Whychus Creek	0.40 miles	+ approximately 327 ft.
SCCE Well 3	Whychus Creek	0.40 miles	+ approximately 327 ft.

Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials (*attach additional sheets if necessary*).

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SECTION 3: WELL DEVELOPMENT, CONTINUED

Total maximum rate requested: 0.67 cfs (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

The table below must be completed for each source to be evaluated or the application will be returned. If this is an existing well, the information may be found on the applicable well log. (If a well log is available, please submit it in addition to completing the table.) If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner to obtain the necessary information. **(Attachment D).**

OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	PROPOSED USE			
										SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL- SPECIFIC RATE (GPM) ¹	ANNUAL VOLUME (ACRE- FEET) ²
SCCE Well 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L-91141 (DESC 58167)	<input type="checkbox"/>	8"	+2 to 844 ft.	780 to 840 ft. (60 ft.)	0 to 96 ft.	520 ft. (2007)	Deschutes Formation	844 ft.		
SCCE Well 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L-42966 (DESC 53193/580 39)	<input type="checkbox"/>	8"	+2 to 78 ft.	585 to 605 ft. (20 ft.)	0 to 78 ft.	498 ft. (2007)	Deschutes Formation	690 ft.		
SCCE Well 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	L-42967 (DESC 53194/596 78)	<input type="checkbox"/>	8" Diam 6" Liner	+2 to 750 ft.	710 to 750 ft. (40 ft.)	0 to 138 ft.	525 (2013)	Deschutes Formation	750 ft.		

* Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.

** A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.

*** Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

¹ A maximum rate of up to 0.67 cfs will be produced from any combination of the three wells.

² A maximum annual volume of up to 62 acre-feet will be produced from any combination of the three wells.

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SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Quasi-municipal	Year-round	62 AF

For irrigation use only: N/A

Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: _____ Acres Supplemental: _____ Acres

If you listed supplemental acres, list the Permit or Certificate number of the underlying primary water right(s):

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: _____

- If the use is **municipal or quasi-municipal**, attach **Form M (Attachment E)**.
- If the use is **domestic**, indicate the number of households: N/A
Exempt Uses: Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.
- If the use is **mining**, describe what is being mined and the method(s) of extraction (*attach additional sheets if necessary*): N/A

SECTION 5: WATER MANAGEMENT

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A. Diversion and Conveyance

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What equipment will you use to pump water from your well(s)?

Pump (give horsepower and type):

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Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. Wells discharge water to two partially buried storage reservoirs (Reservoir #1 (40,000 gallons) and Reservoir #2 (80,000 gallons)). Water is treated with chlorine, then pumped from the storage reservoirs with two 40-hp pumps and delivered to customers through a waterline buried at a minimum of 30" underground.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler) (*attach additional sheets if necessary*)

Water will be pumped from wells into the Squaw Creek Canyon Estates water system and delivered to customers' systems.

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters (*attach additional sheets if necessary*).

Water will be used for quasi-municipal use. Customers are charged according to their water usage, which is a known deterrent of water waste. Water will be used for quasi-municipal use.

SECTION 6: STORAGE OF GROUNDWATER IN A RESERVOIR -N/A

If you would like to store groundwater in a reservoir, complete this section (if more than one reservoir, reproduce this section for each reservoir)

Reservoir name: _____ Acreage inundated by reservoir: _____

Use(s):

Volume of Reservoir (acre-feet): _____ Dam height (feet, if excavated, write "zero"): _____

Note: If the dam height is greater than or equal to 10.0' above land surface AND the reservoir will store 9.2 acre feet or more, engineered plans and specifications must be approved prior to storage of water.

SECTION 7: USE OF STORED GROUNDWATER FROM THE RESERVOIR-N/A

If you would like to use stored groundwater from the reservoir, complete this section (if more than one reservoir, reproduce this section for each reservoir).

Annual volume (acre-feet): _____

USE OF STORED GROUNDWATER	PERIOD OF USE

SECTION 8: PROJECT SCHEDULE

Date construction will begin: Within 5 years of permit issuance

Date construction will be completed: Within 5 years of permit issuance

Date beneficial water use will begin: Within 5 years of permit issuance

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SECTION 9: WITHIN A DISTRICT

Check here if the point of diversion or place of use are located within or served by an irrigation or other water district.

Irrigation District Name	Address	
City	State	Zip

SECTION 10: REMARKS

Use this space to clarify any information you have provided in the application (attach additional sheets if necessary).

As a result of communications with OWRD groundwater staff, we understand that mitigation will be required within the General Zone of Impact due to the fact that the Whychus Creek Zone of Impact encompasses the area of the Whychus Creek sub-basin above River Mile 16 on Whychus Creek. Squaw Creek Canyon Estates is located several miles downstream from River Mile 16 on Whychus Creek.

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Attachment A
Land Use Form

Application for a Permit to Use Groundwater- Avion Water Co. Inc.

G-18608

Land Use Information Form



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

This form is NOT required if:

- 1) Water is to be diverted, conveyed, and/or used only on federal lands; **OR**
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and **all** of the following apply:
 - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
 - b) The application involves a change in place of use only;
 - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; **and**
 - d) The application involves irrigation water uses only.

NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

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Land Use Information Form



Oregon Water Resources Department
 725 Summer Street NE, Suite A
 Salem, Oregon 97301-1266
 (503) 986-0900
 www.wrd.state.or.us

Applicant(s): Avion Water Co. Inc.

Mailing Address: 60813 Parrell Rd.

City: Bend

State: OR

Zip Code: 97702

Daytime Phone: 541-382-5342

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
<u>See Attached Maps</u>						<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	<u>Quasi-Municipal</u>
_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	_____
_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	_____
_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	_____

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Deschutes County

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water
 Water Right Transfer
 Permit Amendment or Ground Water Registration Modification
 Limited Water Use License
 Allocation of Conserved Water
 Exchange of Water

Source of water: Reservoir/Pond
 Ground Water
 Surface Water (name) _____

Estimated quantity of water needed: 0.67
 cubic feet per second
 gallons per minute
 acre-feet

Intended use of water: Irrigation
 Commercial
 Industrial
 Domestic for _____ household(s)
 Municipal
 Quasi-Municipal
 Instream
 Other _____

Briefly describe:

Avion Water Co., Inc. is applying for a permit to use groundwater from three existing wells for quasi-municipal use within the Squaw Creek Canyon Estates development.

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

See bottom of Page 3. →

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6-18608

Receipt for Request for Land Use Information

Applicant name: Avion Water Co c/o GSI Solutions

City or County: Deschutes County Staff contact: Cynthia Smidt

Signature: Cynthia Smidt Phone: 541-317-3150 Date: Jan. 18, 2018

Receipt for Request for Land Use Information

Applicant name: Avion Water Co c/o GST Solutions
City or County: Deschutes County Staff contact: Cynthia Smith
Signature: Cynthia Smith Phone: 541-317-3150 Date: Jan. 18, 2018

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For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s):
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

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Name: _____ Title: _____

Signature: _____ Phone: _____ Date: _____

Government Entity: _____

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Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.



Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

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Attachment B
Application Maps

Application for a Permit to Use Groundwater – Avion Water Co. Inc.

G-18608

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Attachment D
Well Logs

Application for a Permit to Use Groundwater – Avion Water Co. Inc.

G-18608

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

08-12-2007

WELL LABEL # L 91141

START CARD # 1001485

(1) LAND OWNER
Owner Well I.D.
First Name RON Last Name REMUND
Company
Address PO BOX 760
City SISTERS State OR Zip 97759

(2) TYPE OF WORK
[X] New Well [] Deepening [] Conversion
[] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD
[X] Rotary Air [] Rotary Mud [] Cable [] Auger [] Cable Mud
[] Reverse Rotary [] Other

(4) PROPOSED USE
[X] Domestic [] Irrigation [] Community
[] Industrial/ Commercial [] Livestock [] Dewatering
[] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION Special Standard [] (Attach copy)
Depth of Completed Well 844.00 ft.

Table with columns: Dia, From, To, Material, SEAL, To, Amt, lbs, S. Includes data for Cement seal at 96 ft depth.

How was seal placed: Method [] A [] B [X] C [] D [] E
Backfill placed from ft. to ft. Material
Filter pack from ft. to ft. Material Size
Explosives used: [] Yes Type Amount

(6) CASING/LINER
Table with columns: Casing, Liner, Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd. Includes data for 10" casing and 8" liner.

Shoe [X] Inside [] Outside [] Other Location of shoe(s)
Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS
Perforations Method Air Perf
Screens Type Material

Table with columns: Perf/ Screen, Casing/ Liner, Dia, From, To, Sern/slot width, Slot length, # of slots, Tele/ pipe size. Includes data for 8" liner with 2 slots.

(8) WELL TESTS: Minimum testing time is 1 hour
Pump [X] Bailer [] Air [] Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
250 4 800 6

Temperature 53 °F Lab analysis [] Yes By
Water quality concerns? [] Yes (describe below)
Table with columns: From, To, Description, Amount, Units

(9) LOCATION OF WELL (legal description)
County Deschutes Twp 14.00 S N/S Range 11.00 E E/W WM
Sec 17 SW 1/4 of the SW 1/4 Tax Lot 2017
Tax Map Number Lot
Lat " or 44.35235000 DMS or DD
Long " or -121.45120000 DMS or DD
Street address of well Nearest address
MT WEIWRD

(10) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Predeepening
Completed Well 08-01-2007 520
Flowing Artesian? [] Dry Hole? []

WATER BEARING ZONES
Depth water was first found 616
Table with columns: SWL Date, From, To, Est Flow, SWL(psi), + SWL(ft). Includes data for 07-28-2007, 08-28-2007, 08-29-2007.

(11) WELL LOG
Ground Elevation
Material From To
Sand Pumice Lava Broken 0 5
Cinders 5 20
Lava Gray 20 46
Cinders Red 46 56
Conglomerate Gravels Brown 56 75
Basalt Clay Seams Gray 75 90
Basalt Clay Seams Brown 90 150
Basalt 150 185
Gravels Sand 185 205
Conglomerate 205 255
Basalt 255 260
Lava Crevices 260 275
Lava 275 305
Sandstone Brown 305 345
Cinders Lava Broken Red 345 365
Gravels Sand 365 385
Clay Brown 385 420
Lost Circ 420 430
Clay Red Brown 430 460

Date Started 07-13-2007 Completed 08-01-2007

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number 758 Date 08-12-2007
Electronically Filed
Signed THOMAS R PECK (E-filed)

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
License Number 1720 Date 08-12-2007
Electronically Filed
Signed JACK ABBAS (E-filed)
Contact Info (optional)

G-18600

(5) BORE HOLE CONSTRUCTION

BORE HOLE			SEAL			sacks/ lbs
Dia	From	To	Material	From	To	

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plsto	Wld	Thrd
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(7) PERFORATIONS/SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Sern/slot width	Slot length	# of slots	Tele/ pipe size

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(11) WELL LOG

Material	From	To
Sandstone	460	485
Basalt	485	495
Lava Broken Layers	495	520
Conglomerate	520	555
Lava Clay Seams	555	590
Crevices Hard	590	616
Lava Broken Caving	616	628
Soft	628	655
Hard	655	680
Cinders Red Lava	680	686
Lava Gray	686	700
Sandstone	700	739
Basalt Clay Seams	739	754
Cinders Basalt Black	754	788
Lava Hard	788	799
Cinders Lava Red	799	807
Basalt Vesicular	807	844

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Comments/Remarks

2 yards sand grout 120 feet - 185 feet
 4 1/2 yards sand grout 190 feet - 430 feet
 2 yards sand grout 435 feet - 480 feet
 4 yards sand grout 370 feet - 440 feet
 3 yards sand grout 440 feet - 500 feet
 4 yards sand grout 400 feet - 530 feet

G-10608

STATE OF OREGON
Water Supply Well Report

(as required by ORS 537.765)

DESC53193

Received Date:

Well ID Tag # L 42966

Start Card # 128830

Instructions for completing this report are on the last page of this form.

(1) Owner Well Number: _____
 Name: **RON REMUND**
 Street: **PO BOX 760**
 City: **SISTERS** State: **OR** Zip Code: **97759**

(9) Location of Hole by legal description
 County: **DESC** Latitude: _____ Longitude: _____
 Township: **14.00 S** Range: **11.00 E**
 Section: **17 SWSW** Lot: _____ Block: _____
 Tax Lot: **2017** Subdivision: _____
 Street Address of Well (or nearest address):
MNT VIEW RD
 MAP, with location identified, must be attached.

(2) Type of Work
 New Alter (Recondition) Alter (Repair)
 Deepening Abandonment

(3) Drill Method
 Rotary Air Rotary Mud Cable Auger
 Other: _____

(10) Static Water Level
 Feet below land surface: **498.0** Date: **07 / 14 / 2000**
 Artesian Pressure: _____ Date: _____

(4) Proposed Use
 Domestic Community Industrial Irrigation Injection
 Livestock Thermal Other: _____

(11) Water Bearing Zones
 Depth at which water was first found: **590.00 ft.**

From	To	est Flow	swl
590.00	605.00	10.00	498

(5) Bore Hole Construction
 Special Standards: Depth of completed well: **605.00 ft.**
 Explosives Used: Amount: _____ Type: _____

Hole			Seal			
Diameter	From	To	Mtrl	From	To	Sacks/lbs
12.00	0.00	78.00	CE	0.00	78.00	4512
8.00	78.00	605.00				

How was seal placed? **C** Other: _____
 Back fill placed from: _____ Material: _____
 Filter pack from: _____ Size: _____

(12) Well Log Ground Elevation: _____

Material	From	To	swl
LOAM BROKEN LAVA	0.00	3.00	
LAVA BROWN	3.00	10.00	
LAVA GRAY FRAC LAYERS	10.00	42.00	
CINDERS RED	42.00	51.00	
LAVA RED	51.00	70.00	
SANDSTONE	70.00	88.00	
SAND BRN FINE GRAVELS	88.00	104.00	
SANDSTONE	104.00	175.00	
LAVA BROWN	175.00	235.00	
SANDSTONE CONGLOMERATE	235.00	260.00	
LAVA BROWN GRAY LAYERS	260.00	335.00	
LAVA RED/CINDERS	335.00	350.00	
LAVA BROWN	350.00	475.00	
LAVA GRAY	475.00	525.00	
LAVA SOFT	525.00	540.00	
SANDSTONE CINDERS	540.00	588.00	
LAVA/BASALT BROKEN	588.00	605.00	498

(6) Casing / Liner

Csng/ Liner	Diameter	From	To	Gauge	Mtrl	Weld	Shoe at	Shoe used
C	8.00	2.00	78.00	.250	S	X		
L	6.00	-5.00	600.00	.188	S	X		

(7) Perforation / Screens

Perforations:

Mtrl	From	To	Width	Height	#Slots	Dia.	t/pSize	Csng/ Lnr	Method
S	585.00	605.00	0.13	3.00	216	6.00		L	MACHINE

Screens:

Mtrl	From	To	S Size	#Slots	Dia.	t/pSize	Type	Gauge

(8) Well Tests (Minimum testing time is one hour)

Type	Yield	Units	Drawdown	Stem at	Duration
A	10.00	G		600.00	1.00

Temperature of Water: **53 F**
 Was water analysis done? Depth of artesian flow: _____
 by whom? _____
 Did any strata contain water unsuitable for use? Too Little Salty
 Muddy Odor Colored other: _____
 Depth of strata: _____

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Date Started: **07 / 12 / 2000** Date Completed: **07 / 14 / 2000**

(unbonded) Water Well Constructor Certification:
 I certify that the work I perform on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.
 Signed by: **THOMAS R PECK** WWC #: **758**

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
 Signed by: **JACK ABBAS** WWC #: **1720**
ABBAS WELL DRILLING CO Phone: **541-548-2787**

G-08608

Amendment STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

DESC 58039 06-05-2007

WELL LABEL # L 42966 START CARD # 1001144

(1) LAND OWNER Owner Well I.D. First Name RON Last Name REMUND Company Address PO BOX 760 City SISTERS State OR Zip 97759

(2) TYPE OF WORK [] New Well [X] Deepening [] Conversion [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD [X] Rotary Air [] Rotary Mud [] Cable [] Auger [] Cable Mud [] Reverse Rotary [] Other

(4) PROPOSED USE [X] Domestic [] Irrigation [] Community [] Industrial/ Commercial [] Livestock [] Dewatering [] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION Special Standard [] (Attach copy) Depth of Completed Well 690.00 ft.

Table with columns: Dia, From, To, Material, SEAL From, To, Amt, sacks/lbs

How was seal placed: Method [] A [] B [] C [] D [] E [] Other Backfill placed from ft. to ft. Material Filter pack from ft. to ft. Material Size Explosives used: [] Yes Type Amount

(6) CASING/LINER Table with columns: Casing, Liner, Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd

Shoe [] Inside [] Outside [] Other Location of shoe(s) Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS Perforations Method Screens Type Material

Table with columns: Perf/ Screen, Casing/ Liner, Dia, From, To, Sern/slot width, Slot length, # of slots, Tel/ pipe size

(8) WELL TESTS: Minimum testing time is 1 hour [] Pump [] Bailer [X] Air [] Flowing Artesian Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)

Temperature 53 °F Lab analysis [] Yes By Water quality concerns? [] Yes (describe below) From To Description Amount Units

(9) LOCATION OF WELL (legal description) County Deschutes Twp 14.00 S N/S Range 11.00 E E/W WM Sec 17 SW 1/4 of the SW 1/4 Tax Lot 2017 Tax Map Number Lot Lat Long Street address of well Nearest address

MNT VEIWRD

(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft) Existing Well / Predeepening Completed Well 06-04-2007 496 498

WATER BEARING ZONES Depth water was first found Table with columns: SWL Date, From, To, Est Flow, SWL(psi), + SWL(ft)

(11) WELL LOG Ground Elevation Table with columns: Material, From, To

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Date Started 06-04-2007 Completed 06-04-2007

(unbonded) Water Well Constructor Certification I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards.

License Number 1852 Date 06-05-2007 Electronically Filed Signed JEB W ABBAS (E-filed)

(bonded) Water Well Constructor Certification I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above.

License Number 1720 Date 06-05-2007 Electronically Filed Signed JACK ABBAS (E-filed) Contact Info (optional)

G-18608

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

DESC 59678
5/7/2013

WELL I.D. LABEL# I 42967
START CARD # 1019198
ORIGINAL LOG # DESCHUTES 53194

(1) LAND OWNER
Owner Well I.D. _____
First Name RON Last Name REMUND
Company _____
Address PO BOX 760
City SISTERS State OR Zip 97759

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (complete 2a & 10) Abandonment (complete 5a)

(2a) PRE-ALTERATION
Dia + From To Gauge Stl Plstc Wld Thrd
Casing: 8 2 138 .250
Material From To Amt sacks/lbs
Seal: Cement 0 138 5700 Pounds

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other _____

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
Depth of Completed Well 750.00 ft.
BORE HOLE SEAL
Dia From To Material From To Amt sacks/lbs
8 0 750
How was seal placed: Method A B C D E
 Other DID NOT DISTURB
Backfill placed from _____ ft. to _____ ft. Material _____
Filter pack from _____ ft. to _____ ft. Material _____ Size _____
Explosives used: Yes Type _____ Amount _____

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
Proposed Amount _____ Actual Amount _____

(6) CASING/LINER
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd
 6 2 750 .188
Shoe Inside Outside Other Location of shoe(s) _____
Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS
Perforations Method MACHINE
Screens Type _____ Material _____
Perf/ Casing/ Screen Screen Liner Dia From To Som/slot Slot # of Tel/ width length slots pipe size
Perf Liner 6 710 750 .125 3 456
Temperature 54 °F Lab analysis Yes By _____
Water quality concerns? Yes (describe below) TDS amount
From To Description Amount Units

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
200 _____ 750 2
Temperature 54 °F Lab analysis Yes By _____
Water quality concerns? Yes (describe below) TDS amount
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County DESCHUTES Twp 14.00 S N/S Range 11.00 E E/W WM
Sec 17 SW 1/4 of the SW 1/4 Tax Lot 2017
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address
MT VIEW RD

(10) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Pre-Alteration 4/25/2013 _____ 525
Completed Well 5/2/2013 _____ 525
Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 626.00
SWL Date From To Est Flow SWL(psi) + SWL(ft)
4/29/2013 626 750 200 _____ 525

(11) WELL LOG
Ground Elevation _____
Material From To
NONE 0 626
LAVA BASALT BROKEN 626 705
SANDSTONE 705 725
BASALT BROKEN 725 750
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Date Started 4/25/2013 Complete 5/2/2013

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number 758 Date 5/7/2013
Signed THOMAS R PECK (E-filed)

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
License Number 1720 Date 5/7/2013
Signed JACK ABBAS (E-filed)
Contact Info (optional) _____

6-10-2013

**STATE OF OREGON
Water Supply Well Report**

(as required by ORS 537.765)

DESC

Received Date:

Well ID Tag # L 42967

Start Card # 128831

Instructions for completing this report are on the last page of this form.

(1) Owner Well Number: _____
 Name: **RON REMUND**
 Street: **PO BOX 768**
 City: **SISTERS** State: **OR** Zip Code: **97769**

(9) Location of Hole by legal description
 County: **DESC** Latitude: _____ Longitude: _____
 Township: **14.00 S** Range: **11.00 E**
 Section: **17 SWSW** Lot: _____ Block: _____
 Tax Lot: **2017** Subdivision: _____
 Street Address of Well (or nearest address):
MNT VIEW RD
 MAP, with location identified, must be attached.

(2) Type of Work
 New Alter (Recondition) Alter (Repair)
 Deepening Abandonment

(3) Drill Method
 Rotary Air Rotary Mud Cable Auger
 Other: _____

(10) Static Water Level
 Feet below land surface: **801.00** Date: **07/20/2000**
 Artesian Pressure: _____ Date: _____

(4) Proposed Use
 Domestic Community Industrial Irrigation Injection
 Livestock Thermal Other: _____

(11) Water Bearing Zones
 Depth at which water was first found: **590.00 ft.**
 From _____ To _____ est Flow _____ swl _____
590 625 206 ft 501

(5) Bore Hole Construction
 Special Standards: Depth of completed well: **821.00 ft.**
 Explosives Used: Amount: _____ Type: _____

Hole			Seal			Sacks/lbs
Diameter	From	To	Mtrl	From	To	
12	0	138	CE	0	138	5700
8	138	626				

 How was seal placed? **C** Other: _____
 Back fill placed from: _____ Material: _____
 Filter pack from: _____ Size: _____

(12) Well Log Ground Elevation: _____

Material	From	To	swl
BROKEN LAVA LOAM	0	3	
LAVA BROWN FRAC LAYERS	43	3	
RED LAVA/CINDERS	43	55	
SANDSTONE	55	95	
LAVA BROWN GRAY LAYERS	95	190	
LAVA BROWN	190	220	
SANDSTOEN BROWN	220	228	
LAVA BROWN	228	345	
LAVA RED/CINDERS	345	460	
LAVA HARD	460	490	
LAVA BROWN	490	609	
LAVA/BASALT	609	642	
LAVA RED	642	651	
SANDSTONE	651	685	
LAVA/BASALT BROKEN	685	625	601

(6) Casing / Liner

Casing/Liner	Diameter	From	To	Gauge	Mtrl	Weld	Thrd	Shoe at used
C	8	2	138	.250	S	X		
L	8	6	626	.188	S	X		

(7) Perforation / Screens
 Perforations:

Mtrl	From	To	Width	Height	#Slots	Dia.	UpSize	Casing/Liner	Method
S	585	626	0.125	3.00	432	6		L	MACHINE

 Screens:

Mtrl	From	To	S Size	#Slots	Dia.	UpSize	Type	Gauge

(8) Well Tests (Minimum testing time is one hour)

Type	Yield	Units	Drawdown	Stem at	Duration
A	2000	G		620	1.00
	2000				

Temperature of Water: **63.00 F**
 Was water analysis done? Depth of artesian by whom?
 Did any strata contain water unsuitable for use?
 Muddy Odor Colored other: _____
 Depth of strata: _____

Date Started: **07/17/2000** Date Completed: **07/20/2000**

(unbonded) Water Well Constructor Certification:
 I certify that the work I perform on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.
 Signed by: **THOMAS R PECK** MWC # **758**

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
 Signed by: **JACK ABBAS** MWC #: **1720**
ABBAS WELL DRILLING CO Phone: **541-548-2787**

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 WATER RESOURCES DEPT
 SALEM, OREGON

STATE OF OREGON
Water Supply Well Report
 (as required by ORS 537.765)

DESC 53184

DESC

Received Date:

Well ID Tag # L

Start Card # 128831

Instructions for completing this report are on the last page of this form.

(1) Owner Well Number _____
 Name: RON REMUND
 Street: PO BOX 780
 City: SISTERS State OR Zip Code: 97769

(2) Type of Work
 New Alter (Recondition) Alter (Repair)
 Deepening Abandonment

(3) Drill Method
 Rotary Air Rotary Mud Cable Auger
 Other: _____

(4) Proposed Use
 Domestic Community Industrial Irrigation Injection
 Livestock Thermal Other: _____

(5) Bore Hole Construction
 Special Standards: Depth of completed well 621.00 ft.
 Explosives Used. Amount: _____ Type: _____

Hole		Seal		Sacks/lbs	
Diameter	From To	Mtrl	From To		
12	0 138	CE	0 138		5700
8	138 625				

How was seal placed? C Other: _____
 Back fill placed from: _____ Material: _____
 Filter pack from: _____ Size: _____

(6) Casing / Liner

Casing/Liner	Diameter	From	To	Gauge	Mtrl	Weld	Thrd	Shoe	Shoe
								at	used
C	8	2	138	.260	S	X			
L	8	5	625	.188	S	X			

(7) Perforation / Screens

Perforations:

Mtrl	From	To	Width	Height	#Slots	Dia.	UpSize	Casing/Liner	Method
S	586	625	0.125	3.00	432	6		L	MACHINE

Screens:

Mtrl	From	To	S. Size	#Slots	Dia.	UpSize	Type	Gauge

(8) Well Tests (Minimum testing time is one hour)

Type	Yield	Units	Drawdown	Stem at	Duration
A	40.00	G		620	1.00

Temperature of Water: 53.00 F
 Was water analysis done? Depth of artesian flow: _____
 by whom? _____
 Did any strata contain water Unsuitable for use? Too Little Salty
 Muddy Odor Colored other: _____
 Depth of strata: _____

(9) Location of Hole by legal description
 County DESC Latitude: _____ Longitude: _____
 Township: 14.00 S Range 11.00 E
 Section: 17 SWSW Lot: _____ Block: _____
 Tax Lot: 2017 Subdivision: _____
 Street Address of Well (or nearest address):
 MNT VIEW RD
 MAP, with location identified, must be attached.

(10) Static Water Level
 Feet below land surface: 601.00 Date: 07 / 20 / 2000
 Artesian Pressure: _____ Date: _____

(11) Water Bearing Zones
 Depth at which water was first found: 690.00 ft.
 From _____ To _____ est Flow _____ swf _____

(12) Well Log Ground Elevation: _____

Material	From	To	swf
BROKEN LAVA LOAM	0	3	
LAVA BROWN FRAC LAYERS	43	3	
RED LAVA/CINDERS	43	65	
SANDSTONE	65	95	
LAVA BROWN GRAY LAYERS	95	190	
LAVA BROWN	190	220	
SANDSTOEN BROWN	220	228	
LAVA BROWN	228	346	
LAVA RED/CINDERS	346	480	
LAVA HARD	460	490	
LAVA BROWN	490	509	
LAVA/BASALT	509	642	
LAVA RED	542	551	
SANDSTONE	551	585	
LAVA/BASALT BROKEN	585	626	501

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Date Started: 07 / 17 / 2000 Date Completed: 07 / 20 / 2000

(unbonded) Water Well Constructor Certification:
 I certify that the work I perform on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.
 Signed by: THOMAS R PECK MWC # 788

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
 Signed by: JACK ABBAS MWC # 1720

G-18608

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Attachment E

Form M

Application for a Permit to Use Groundwater – Avion Water Co. Inc.

G-18608



Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).

1 acre-foot is equal to 325,851 gallons.

Background Information

Name of water supplier: Avion Water Co., Inc.

Name and size of area to be served: Squaw Creek Canyon Estates
(in square miles)

Present population of service area: Population: 325; based on 147 connections and an average of 2.2 persons per household. Area: Within the Squaw Creek Canyon Estates Development
(Contact county planning staff, if needed.)

Projected population in 20 years: Squaw Creek Canyon Estates will include 250 homes at buildout. Complete construction and beneficial use of water will occur within five years of permit issuance and it is anticipated that the water right will provide for projected buildout demand
(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

There are currently no water rights associated with Squaw Creek Canyon Estates. See the attached table of Avion Water Co.'s water rights.

Water Use

Average yearly demand: 47.8 AFY Year: 2016

Per-capita daily consumption (in gallons): 168 gpcd
(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

Peak season (by month/day): 5/1 to 10/31 Total peak season demand: 34.5 Acre-feet

Peak season per-capita daily consumption: 226 gpcd
(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 15,560,700 gallons
(diverted or pumped)

Delivered: 15,560,700 gallons

Is your system fully metered? Yes No

Describe your rate structure: Base rate plus consumption rate.
(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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G-18608

Request for Water

A. Discuss the reason(s) for your request for additional water

(e.g. loss of current supply, peak demand, growth, or other):

Avion Water Co., Inc. is applying for a new groundwater right to fulfill existing and future demands in Squaw Creek Canyon Estates.

B. How long is the amount of water requested in this application expected to meet future needs?

(e.g. until the year 2040) Until the year 2024, assuming permit issued by 1/1/19.

C. Briefly discuss operation of water system and the most constraining component of the system:

Wells discharge water to two partially buried storage reservoirs: Reservoir #1 (40,000 gallons) and Reservoir #2 (80,000 gallons). Water is treated with chlorine, then pumped from the storage reservoirs with two 40-hp pumps and delivered to customers through a waterline buried at a minimum of 30" underground. The water system is able to meet current and future demands.

D. Percentage of water use by type:

Residential: 100%

Commercial:

Public Authority:

Agricultural:

Unaccounted for use:

Industrial

Other (specify use):

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

Squaw Creek Canyon Estates currently has no water right. The cost to implement the proposed request is minimal, due to the fact that wells and other delivery infrastructure have already been constructed to supply water.

R. How and by how much will your proposed water use efficiency programs increase efficiency?

(Express as a percentage of per-capita consumption.)

The system has five groundwater wells (three wells are currently in use) and two partially buried reservoirs: Reservoir #1 (40,000 gallons) and Reservoir #2 (80,000 gallons). Well 1 and Well 3 provide year-round supply and Well 2 is used seasonally. Wells discharge water to the two reservoirs. Water is treated with chlorine, then pumped from the storage reservoirs with two 40-hp pumps and delivered to customers through a waterline buried at a minimum of 30" underground. Current system losses are very low as is annual per capita demand.

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G-18608

G-18609

Avion Water Company, Inc. Water Rights – December 2017

Application Number	Permit Number	Certificate	Authorized Rate of Diversion (cfs)	Source	Authorized Use	Priority Date	Comment
Water Rights within the Greater Avion Service Area							
G-10184	G-9946	82418	4.22	GW	QM	2/81	Modified by T-10205
G-10421	G-9948	82419	2.50	GW	QM	7/81	Modified by T-10205
G-10378	G-9975	82420	2.15	GW	QM	6/81	Modified by T-10205
G-10154	G-9217	82414	1.11	GW	QM	2/81	Modified by T-10205
G-10242	G-9269	82415	0.32	GW	QM	4/81	Modified by T-10205
G-10310	G-9320	82416	0.04	GW	QM	5/81	Modified by T-10205
G-10445	G-9976	82417	0.03	GW	QM	7/81	Modified by T-10205
G-10348	G-9971	-	0.48	GW	GD	5/81	Modified by T-7778
G-10599	G-9981	87382	0.18	GW	GD	11/81	Modified by T-7778
G-10440	G-10000	86161	0.56	GW	GD	7/81	Modified by T-7778 and T-10918
G-10263	G-9341	91068	0.66	GW	QM	4/81	Modified by T-7778
G-10208	G-16949	88551	0.37	GW	QM	5/81	Conestoga Hills
G-10347	G-11972	-	0.24	GW	QM	1/83	
G-11741	G-11389	93364	1.00	GW	QM	11/87	
G-12924	G-12788	84975	25.2	GW	QM	12/92	<i>Use under this and all other underlying rights with the same POAs is limited to 11,305 gpm; Modified by T-7778 and T-10407</i>
G-15851	G-16025	-	5	GW	QM	10/02	Modified by T-10204
G-16060	G-16026	-	10	GW	QM	7/03	Modified by T-10204, T-12027
G-17606	G-17551	-	10	GW	QM	12/12	
Water Rights outside the Greater Avion Service Area (Satellite Areas)							
G-13446	G-12192	-	0.29	GW	DI	6/93	Powell Butte View Estates
G-8754	G-8258	84898	0.04	GW	GD	4/78	
G-10371	G-9999	84899	0.27	GW	DI	6/81	
G-10207	G-9283	-	0.577	GW	QM	3/81	Cinder Butte
G-10617	G-9982	-	0.1	GW	GD	12/81	Odin Falls I
G-12757	G-12330	-	0.46	GW	QM	1/92	Odin Falls II
G-10290	G-9398	86874	0.59	GW	QM	4/81	Red Cloud- modified by T-9526, T-12732
G-13616	G-12936	87594	0.53	GW	QM	2/94	Red Cloud- modified by T-9525, T-12732
G-10349	G-9972	-	0.57	GW	DI	5/81	Wildriver
G-10466	G-10019	86875	0.63	GW	DI	7/81	Modified by T-10828
G-13726	G-13136	81805	0.238	GW	DN	6/94 11/96	Tumalo Rim

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Attachment C
Legal Description

Application for a Permit to Use Groundwater – Avion Water Co. Inc.

6-10608

Parcel 1 Continued
 Thence North 89° 59' 02" West 2637.23 feet; thence South 00° 13' 28" West 1321.62 feet; thence South 89° 59' 20" West 1320.28 feet; thence South 00° 09' 05" West 2668.34 feet; thence North 89° 40' 55" West 1313.67 feet; thence North 2661.13 feet; thence South 89° 08' 15" West 1314.74 feet; thence South 00° 26' 00" East 1315.90 feet; thence South 89° 33' 00" West 1308.48 feet; thence South 00° 41' 20" East 1308.75 feet to the point of beginning, being a portion of Sections 24 and 25, Township 14 South, Range 10 East Willamette Meridian and Sections 17, 19 and 20, Township 14 South, Range 11 East Willamette Meridian, Deschutes County, Oregon.

EXCEPTING THEREFROM any portion of the above described premises lying within the boundaries of Squaw Creek Canyon Recreational Estates and Squaw Creek Canyon Recreational Estates First Addition.

PARCEL 2: In Township Fourteen (14) South; Range Eleven (11) East Willamette Meridian; Deschutes County, Oregon

Section 20: North Half of the Northeast Quarter (N 1/2 NE 1/4) and part of the North Half of the Northwest Quarter (N 1/2 NW 1/4) lying South of the land conveyed to Alfred B. Ramsey and Mae E. Ramsey, Husband and Wife, by deed recorded December 28, 1967 in Volume 156, Page 363, Deed Records of Deschutes County, also, the Southeast Quarter of the Northwest Quarter (SE 1/4 NW 1/4).

Section 17: Part of the South Half of the Southeast Quarter (S 1/2 SE 1/4) and the Southeast Quarter of the Southwest Quarter (SE 1/4 SW 1/4) lying South of the land conveyed to Alfred B. Ramsey and Mae E. Ramsey, Husband and Wife, by deed recorded December 28, 1967 in Volume 156, Page 363 Deed Records. Also, the South Half of the Southwest Quarter (S 1/2 SW 1/4) lying northwest of Squaw Creek Canyon Recreational Estates
 Section 21: The Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) containing 241 acres, more or less.

EXCEPTING THEREFROM any portion of the above described premises lying within the boundaries of Squaw Creek Canyon Recreational Estates and Squaw Creek Canyon Recreational Estates First Addition.

PARCEL 3: Township Fourteen (14) South, Range Eleven (11) East Willamette Meridian, Deschutes County, Oregon

Section 19: Part of the North Half of the Southeast Quarter (N 1/2 SE 1/4), the Northeast Quarter of the Southwest Quarter (NE 1/4 SW 1/4) and the Southeast Quarter of the Northeast Quarter (SE 1/4 NE 1/4) lying South of Squaw Creek Canyon Recreational Estates, more fully described in the Deed recorded April 15, 1968 in Volume 157, Page 602, Deed Records. Also, the East Half of the Northeast Quarter (E 1/2 NE 1/4) lying northwest of Squaw Creek Canyon Recreational Estates
 Section 20: Southeast Quarter of the Northwest Quarter (SE 1/4 NW 1/4), North Half of the Southwest Quarter (N 1/2 SW 1/4) and the Northwest Quarter of the Southeast Quarter (NW 1/4 SE 1/4).

CONTINUED

76/3

EXHIBIT A Quitclaim
 to Bargain and Sale Deed
 PAGE 2 OF 617

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February 6, 2018

Dwight French
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: Application for a Permit to Appropriate Groundwater in the name of Avion Water Company Inc.

Dear Dwight:

Please find enclosed a permit application to appropriate groundwater from 3 wells for quasi-municipal use at Squaw Creek Canyon Estates, which is submitted on behalf of Avion Water Company Inc. The applicant is requesting to appropriate groundwater at a rate of up to 0.67 cfs and an annual volume of up to 62 acre-feet. Also enclosed is the required fee of \$2,910, which was calculated as follows:

\$1,340 - Base Fee
\$350 - Rate Fee of \$350 for a rate of less than 1 cfs
\$700 Fee for each additional well after the 1st (\$350 x 2)
\$520 - Permit Recording Fee
Total = \$2,910

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FEB 12 2018

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If you have any questions about the enclosed materials, please contact me at 541-257-9001.

Sincerely,

A handwritten signature in black ink, appearing to read "Adam Sussman", written over a white background.

Adam Sussman
Principal Water Resources Consultant

Enclosures: Groundwater Application
Check for Application Fee



Oregon Water Resources Department
Apply for a Permit to Appropriate Ground Water and/or Store Ground Water

- [Main](#)
- [Help](#)
- [Return](#)
- [Contact Us](#)

Today's Date: Tuesday, February 13, 2018

Base Application Fee for use of Ground, Surface and optionally Stored Water.		\$1,340.00
Number of proposed cubic feet per second (cfs) to be appropriated. (1 cfs = 448.83 gallons per minute)	1	\$350.00
Number of proposed Use's for the appropriated water. (i.e. Irrigation, Supplemental Irrigation, Pond Maintenance, Industrial, Commercial, etc) *	1	
Number of proposed Ground Water points of appropriation. (i.e. number of wells) (include all injection wells, if applicable) **	3	\$700.00
Number of Acre Feet to be stored in a reservoir/pond from Ground Water.	0	
Number of Acre Feet to be appropriated from reservoir/pond (Only Applies to reservoir/pond constructed under Ground Water Application)	0	
Number of reservoirs.	0	
Permit Recording Fee. ***		\$520.00
* the 1st Water Use is included in the base cost. ** the 1st Ground Water point of appropriation is included in the base cost. *** the Permit Recording Fee is not required when the application is submitted but, must be paid before a permit will be issued. It is fully refundable if a permit is not issued. If the recording fee is not paid prior to issuance of the Final Order, permit issuance will be delayed.	<input type="button" value="Recalculate"/>	
Estimated cost of Permit Application		\$2,910.00

OWRD Fee Schedule

Fee Calculator Version B20170117