

# Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE # # G-17056

ROUTED TO: Water Rights

TOWNSHIP/  
RANGE-SECTION: 1S/4E-30

CONDITIONS ATTACHED?:  yes  no

REMARKS OR FURTHER INSTRUCTIONS:

see conditions on p. 2

Reviewer: Josh Hackett



G 17056

**Joshua Hackett**

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**From:** Doug Woodcock  
**Sent:** Monday, June 02, 2008 10:33 AM  
**To:** Joshua Hackett  
**Subject:** FW: OWRD: Water Right Application G 17056 (Ground Water) has been submitted for your District or Region. [GWR]

**Importance:** High

-----Original Message-----

From: Automated Email System  
Sent: Thursday, May 29, 2008 10:40 PM  
To: Barry Frost; Kathy Boles; Heather Reece; Tim Wallin; Jonnine Skaug  
Subject: OWRD: Water Right Application G 17056 (Ground Water) has been submitted for your District or Region. [GWR]

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Oregon Water Resources Department - Automated e-mail notice  
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Ground Water Review request for proposed water right application G 17056

Application Type: Ground Water  
Notice Number: 1

Diversion Location:  
County: Clackamas  
TRSQQ: 1S 4E 30 NWSW  
Source: A WELL  
Tributary To: JOHNSON CR

To view the OWRD Web page for G 17056 please click the link below.  
[http://apps2.wrd.state.or.us/apps/wr/wrinfo/wr\\_query.aspx?SearchType=App&app\\_nbr\\_start=17056&app\\_char=G](http://apps2.wrd.state.or.us/apps/wr/wrinfo/wr_query.aspx?SearchType=App&app_nbr_start=17056&app_char=G)

To view the pending reviews for your district or region, click the following link.  
[http://apps2.wrd.state.or.us/apps/wr/external\\_review/gwr\\_review.aspx?directory\\_id=122863](http://apps2.wrd.state.or.us/apps/wr/external_review/gwr_review.aspx?directory_id=122863)

If you have questions about this review request please contact Jonnine Skaug at 503-986-0807 or [jonnine.l.skaug@state.or.us](mailto:jonnine.l.skaug@state.or.us)

This message has been generated automatically by an unmonitored email account. Please do not "reply" to this message. Thank you.

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[ DEBUG ] @_snp_id = 160479
[ DEBUG ] @_notice_number = 1
[ DEBUG ] @_workflow_item_type = GWR
[ DEBUG ] @_workflow_item_directory_id = 122863
[ DEBUG ] @_workflow_item_caseworker_name = GW REVIEWER, NW REGION; OREGON WATER
RESOURCES DEPARTMENT; ADDED FOR EMAIL NOTIFICATION ONLY
[ DEBUG ] @_email_address_list = douglas.e.woodcock@wr.d.state.or.us
[ DEBUG ] @_workflow_item_remind_date = May 29 2008 8:34AM
[ DEBUG ] @_remind_date_increment_in_days = 25
[ DEBUG ] @_calculated_remind_date = Jun 23 2008 8:34AM
```

**PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS**

TO: Water Rights Section Date August 6, 2008  
 FROM: Ground Water/Hydrology Section Josh Hackett  
 Reviewer's Name  
 SUBJECT: Application G- 17056 Supersedes review of \_\_\_\_\_  
 Date of Review(s)

**PUBLIC INTEREST PRESUMPTION; GROUNDWATER**

**OAR 690-310-130 (1)** *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

A. GENERAL INFORMATION: Applicant's Name: Christopher Reardon County: Clackamas

A1. Applicant(s) seek(s) 0.174 cfs from 1 well(s) in the Willamette Basin,  
 \_\_\_\_\_ subbasin Quad Map: Sandy

A2. Proposed use: Nursery Seasonality: year-round

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	PROPOSED	2	Deep Troutdale	0.174	1S/4E-30 NW-SW	2136' N30°09'08"E fr SW cor S 30
2						
3						
4						
5						

\* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	612				440	0-120	0-440					

Use data from application for proposed wells.

A4. **Comments:** The proposed construction for the applicant's well indicates that the well would be sealed to a depth of at least 120 feet below land surface. Because the proposed well is located in the Sandy-Boring Ground Water Limited Area, the well shall not produce water from the shallow Troutdale aquifer. This review is based upon the assumption that the well will be constructed according to the conditions in section B2(c) of this review.

A5.  Provisions of the Willamette Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water  are, or  are not, activated by this application. (Not all basin rules contain such provisions.)  
 Comments: \_\_\_\_\_

A6.  Well(s) # 1, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: Sandy Boring Groundwater Limited Area (OAR 690-502-0170 & 690-503-050)  
 Comments: In this part of the ground water limited area, the shallow Troutdale aquifer is classified for exempt uses only, but the deep Troutdale and the basalt aquifers are classified for other uses including irrigation. If the well is constructed as conditioned in section B2(c) below, the well would produce from an aquifer (deep Troutdale) classified for the requested use, and this restriction would not apply.

**B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070**

B1. Based upon available data, I have determined that ground water\* for the proposed use:

- a.  is over appropriated,  is not over appropriated, or  cannot be determined to be over appropriated during any period of the proposed use. \* This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;
- b.  will not or  will likely be available in the amounts requested without injury to prior water rights. \* This finding is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;
- c.  will not or  will likely to be available within the capacity of the ground water resource; or
- d.  will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:
  - i.  The permit should contain condition #(s) 7B, 7F, 7H;
  - ii.  The permit should be conditioned as indicated in item 2 below.
  - iii.  The permit should contain special condition(s) as indicated in item 3 below;

- B2. a.  Condition to allow ground water production from no deeper than \_\_\_\_\_ ft. below land surface;
- b.  Condition to allow ground water production from no shallower than \_\_\_\_\_ ft. below land surface;
- c.  Condition to allow ground water production only from the Deep Troutdale ground water reservoir between approximately at least 200 ft. and approximately 500 ft. below land surface;
- d.  Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.

**Describe injury** –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B3. Ground water availability remarks: **SPECIAL CONDITIONS: 1) All wells on this permit shall be continuously cased and continuously sealed to a depth of at least 200 feet below land surface.**

**2) Prior to using water on this permit, the permittee shall ensure that the well on this permit has an OWRD Well Identification Number (Well ID or Well tag number). If a well does not have a Well ID, the permittee shall apply for one from the Department. The Well ID shall be attached to the well and shall be used as a reference identification number for any correspondence regarding the well including any water use, water level, or pump test reports.**

A thick sequence of water-bearing sands and gravels are present in the area of the applicant’s wells to a depth of roughly 500 feet below land surface. The shallow portion of these sediments has been designated as the shallow Troutdale aquifer, and the deeper portion as the deep Troutdale aquifer (OWRD, 1992; these are equivalent respectively to the Troutdale Gravel and the Troutdale Sandstone aquifers that have been defined by the USGS (Swanson and Others, 1993). In the area of the applicant’s wells, the two units are separated by an intervening sequence of fine-grained sediments, Confining Unit 1 of the USGS. Below the deep Troutdale lies a thick widespread sequence of fine-grained sediments, Confining Unit 2 of the USGS, which is roughly 400-800 feet thick in the area. Beneath that unit, about 1100 feet below land surface, lies the Columbia River Basalts.

Water levels in the deep Troutdale aquifer are approximately 50-100 below the elevation of local stream reaches (see attached hydrograph).

**C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040**

C1. **690-09-040 (1):** Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Deep Troutdale	<input checked="" 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"/>

**Basis for aquifer confinement evaluation:** The applicant's well will produce water from the deep Troutdale aquifer that is confined by the thick overburden of fine and coarse-grained deposits.

C2. **690-09-040 (2) (3):** Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than 1/4 mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	Johnson Creek	380	420-480	3700	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1	2	Unnamed trib. to Johnson Creek	380	430-540	3250	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>

**Basis for aquifer hydraulic connection evaluation:** Water table maps in the area show heads representing the shallow Troutdale aquifer to be about 30 feet below the elevation of nearby streams (McFarland and Morgan, 1996). The maps are based on measurements made in the spring of 1998, which would likely represent seasonal highs in the water table. Topographic maps (USGS, 1961, 1985) show all streams within one mile as ephemeral. Therefore, it is likely that the ephemeral streams are perched above the water table and are not hydraulically connected to the water table in the area.

**Water Availability Basin the well(s) are located within:** N/A

C3a. **690-09-040 (4):** Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked  box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < 1/4 mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		<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"/>

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

SW #	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
	<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"/>

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

C4a. **690-09-040 (5):** Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)													
(E) = (A / B) x 100		%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

Basis for impact evaluation: \_\_\_\_\_





**D. WELL CONSTRUCTION, OAR 690-200**

D1. Well #: \_\_\_\_\_ Logid: \_\_\_\_\_

D2. **THE WELL does not meet current well construction standards based upon:**

- a.  review of the well log;
- b.  field inspection by \_\_\_\_\_;
- c.  report of CWRE \_\_\_\_\_;
- d.  other: (specify) \_\_\_\_\_

D3. **THE WELL construction deficiency:**

- a.  constitutes a health threat under Division 200 rules;
- b.  commingles water from more than one ground water reservoir;
- c.  permits the loss of artesian head;
- d.  permits the de-watering of one or more ground water reservoirs;
- e.  other: (specify) \_\_\_\_\_

D4. **THE WELL construction deficiency is described as follows:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D5. **THE WELL** a.  was, or  was not constructed according to the standards in effect at the time of original construction or most recent modification.

b.  I don't know if it met standards at the time of construction.

D6.  **Route to the Enforcement Section.** I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.

**THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL**

D7.  Well construction deficiency has been corrected by the following actions: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

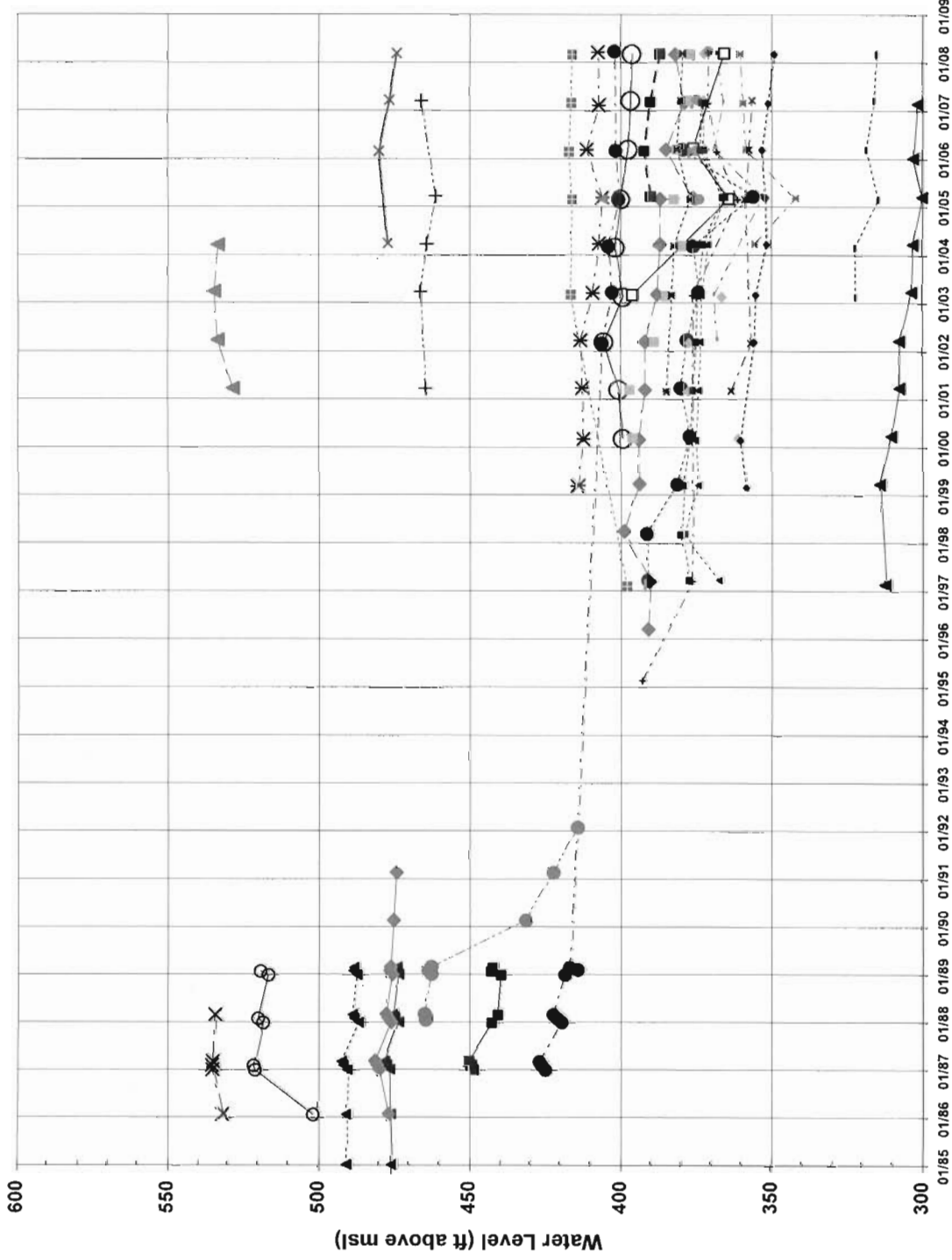
\_\_\_\_\_, 200\_\_\_\_\_  
(Enforcement Section Signature)

D8.  **Route to Water Rights Section (attach well reconstruction logs to this page).**

\_\_\_\_\_  
\_\_\_\_\_

**Water Levels in Nearby Wells**

### G 17056 NEARBY WATER LEVELS



Well Location Map

G-17056, Reardon

