Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE # # <u>G- 17566</u>
ROUTED TO: Water Rights
TOWNSHIP/
RANGE-SECTION: 185/12E-16
CONDITIONS ATTACHED?: 1/2 yes [] no
REMARKS OR FURTHER INSTRUCTIONS:
wlin USGS Deschutes GW
Study Area
Reviewer: K. Lite

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

SUBJECT: Application G17566 Subject	TO:		Wate	r Rights S	ection				Date	e <u>11/20/20</u>	12		
Date of Review(s)	FROM	ROM: Ground Water/Hydrology Section											
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 welfure, safety and health as described in ORS 537-525. Department staff review ground water applications under OAR 690-310-140 look to determine whether the presumption is established. OAR 690-310-140 allows he 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: Deschutes County County: Deschutes A. Applicant(s) seek(s) (145gpm) 0.32						_	Revi	iewer's Name					
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Application: G-17566 continued

Date: 11/20/2012

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

B1.	Base	ed 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 <i>or</i> ☐ 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.	\square will not or \square 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, 7N ; 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 ground water reservoir between approximately ft. and 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/
D4		senior water rights, not within the capacity of the resource, etc):
B3.	552 PEI TH CO OF AT	A DESCRIPTION WELL IS STATE OBS WELL 1311 (DESCRIPTION) WELL IS STATE OBS WELL 1311 (DESCRIPTION) WELL IS STATE OBS WELL 1311 (DESCRIPTION) WELL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEARS TO BE IN DYNAMIC EQUILIBRIUM. WELL 1311 (DESC 4), LOCAL 1311 APPEAR

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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
Basis for aq	uifer confinement evaluation:		

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 ¼ 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 PS1.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO

Basis for aquifer hydraulic connection evaluation:	
Water Availability Basin the well(s) are located within:	

C3a. 690-09-040 (4): Evaluation of stream impacts for <u>each well</u> 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% 1SWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?

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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?			
Comments:	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-D	istributed	Wells											
Well	SW#	Jan	Feb_	Mar	Apr	May	Jun	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	- %	%	%	-%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
	outed Well		E-L	Man	A	Mari	T	71	A~	Com	Oat	Nov	Dag
Well	SW#	Jan %	Feb %	Mar %	Apr %	May %	Jun %	Jul %	Aug %	Sep %	Oct	Nov %	Dec %
W II O	OPC			%	%		% 0		% 0	%			%
Well Q													
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		%	%	%	%	%	%	%	%	%	<u>%</u>	%	%
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(A) = To	otal Interf.				[
	% Nat. Q												
	% Nat. Q												
-, -													
(D) = (A	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:

plicatio	n: G-17566 continued	Date: 11/20/201
		
690	0-09-040 (5) (b) The potential to impair or detrimentally affect the public intere	st is to be determined by the W
	Rights Section.	
☐ If	properly conditioned, the surface water source(s) can be adequately protected from in	nterference, and/or ground water i
un	nder this permit can be regulated if it is found to substantially interfere with surface wat	er:
	i. The permit should contain condition #(s)	
	ii. The permit should contain special condition(s) as indicated in "Remarks" be	low;
SW / (GW Remarks and Conditions	
J , .		
Refer	ences Used:	
	S WRI REPORT 00-4162; USGS WRI REPORT 02-4015; USGS OPEN-FILE F	REPORT 97-197; BEND
QUAL	DRANGLE; APPLICATION FILE G-17566; WATER WELL REPORTS DESC 5	613, AND DESC 5610 (NEAF
<u>WE</u> LL	LS); OWRD WATER LEVEL DATA; DIVISION 690-505.	

Application: G-17566 continued Date: 11/20/2012 D. WELL CONSTRUCTION, OAR 690-200 Logid: _____ D1. Well #: ____ 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. d. other: (specify) D3. THE WELL construction deficiency: constitutes a health threat under Division 200 rules; commingles water from more than one ground water reservoir; 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: a. was, or was not constructed according to the standards in effect at the time of D5. THE WELL 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:

G-17566: Bend Quadrangle



