Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE # i	<u>. کے</u> #	-1 <u>7606</u>

ROUTED TO: Water Rights

TOWNSHIP/

10WN5HIP/ 185/126 - 15 RANGE-SECTION: 175/126 - 14

CONDITIONS ATTACHED?: **X** yes [] no

REMARKS OR FURTHER INSTRUCTIONS:

within USGS GW Study Area

Reviewer: K. Lite

water desources department

					Mari	20) 3
TO: PROM:	Application G. GW: K. Line	7606 m// Yene)	<u> </u>	Selection in		
SUBJECTA Dvaluation	Specie Williams for Deschater Gros	-Interderence		Local Sur	Sec. Villa	
	Cappropriation is Wi			ee ^{rt} ii	Sounic W	dicrya
	iic Waterway bondit					
Copartness	RANCE OF EVEN has found that there will encountedly on	is a proposider	mee of evide	n ee th at the	noposed	
Acci Cowing	clearance of the necessary for recrea	Deschuter		THE RESERVE OF THE PARTY OF THE	cenic Wat	公共工作的证明
COCALIZE	DIMPACT FINOR	<u>o</u> :		a sue a l'		
The propos	ed use of growing wa		focalized imp eek Subbasin		acc water	
enteriori (c) Arteiorite (d	ed impact line above his application is pre- entified subbagin. M	sumed to have highlion of the	a localized i impact, orig	rapuokaba ireding Ra	n e izio e Wal Markania	e le Lice
	ektikenijkijki ile	Deputinent v	rill be require	d before a		

If the localized impact line above is not checked, then the water use under engright tanked pursuant to this application is presumed to have a general (regional) impact on surface water. Miligation of the impact, originating anywhere within the Deschutes Besia above the Madres gage, will be required before a point may be issued for the proposed.

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights Se	ction			Date04/29/2013							
FROM	1:	Grou	nd Water/F	łydrology	Section									
SUBJI	ECT:	Appli	cation G	17606		Revi Su	ewer's Name persedes re	view of			Date of Re	view(s)		
OAR 6 welfare, to deter	90-310-1, safety a mine who sumption	30 (1) and heal ether the criteria	The Department as described presumption. This revie	nent shall p bed in ORS on is establ w is based	537.525. D ished. OAR upon availa	a propos epartment 690-310- able infor	R ed groundwa staff review 140 allows the mation and	ater use will a ground water the proposed of agency poli	ensur er app use b cies i	re the pressolications use modified in place at	ervation of ander OA or condict the time	of the pub R 690-31 tioned to of evalu	meet mation.	
A. <u>GE</u>			RMATIO					ompany						
A1.								_ well(s) in t					_ Basin,	
		<u>Deschu</u>	tes			subb	asin Qu	ad Map: <u>B</u>	end :	and Bend	Airport			
A2. A3.								<u>year-round</u> rk proposed		s as such i	under log	gid):		
Well	Log	id	Applicant' Well #		oposed quifer*	Propose Rate(cf		Location /R-S QQ-Q)			n, metes a N, 1200' E			
2	Propo Propo		2		hutes Fm hutes Fm	10		2E-sec 15 CI 2E-sec 15 CI			/ & 52' N / & 52' N			
3	Propo		3		hutes Fm	10		2E-sec 13 C1 2E-sec 14DA			& 1935 N			
5														
-	um, CRB,	Bedrocl	 _											
Well	Well Elev ft msl	First Water	I II ble I	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)		forations Screens (ft)	Well Yield	Draw Down (ft)	Test Type	
1	3750	It bis			Prop. 1000	Prop. 0-700	Prop. 0- 50; 0- 700	(11)		Prop. 00-1000	(gpm)	(11)		
2	3750				Prop. 1000	Prop. 0-700	Prop. 0- 50; 0- 700			Prop. 00-1000				
3	3430				Prop. 1000	Prop. 0-700	Prop. 0- 50; 0- 700			Prop. 00-1000				
A4. FORM WILL	Commo ATION. LIKELY	ents: <u>W</u> GROU BE B	ND-WATE	L BE CO ER FLOW ER LEVE	IS TOWAL	RDS THE	NORTH -	BEARING Z NORTHEA . NEAREST	ST.	WATER	LEVEL	IN WEL	LS	
				•										
A5. 🛛	manage (Not all	ment o	ules contain	er hydraul such prov	isions.)		rface water	ıles relative t ⊠ are, <i>or</i> □ DESCHUTI] are	not, activ	ated by th	is applic	ation.	
A6. 🗌		of admir	istrative are	ea:,		,	, ta	p(s) an aquif	er lin	nited by an	adminis	trative res	striction.	

Version: 08/15/2003

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

Bas	sed 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.						
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 thanft. below land surface;						
c.	Condition to allow ground water production only from the						
	Condition to allow ground water production only from the ground water reservoir between approximately ft. and ft. below land surface;						
	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):						
Gr	ound water availability remarks:						
SH HY RE	NUAL WATER LEVEL OBSERVATIONS AT THE CITY OF BEND BEAR CREEK #1 WELL (DESC 51943) IOWS ABOUT 4-FEET OF FLUCTUATION HAS OCCURRED IN THE AREA SINCE 2009. THE YDROGRAPH SHOWS ABOUT 4-FEET OF DECLINE BETWEEN 2009 AND 2011, AND ONE FOOT OF ECOVERY SINCE 2011. THE WATER LEVEL FLUCTUATIONS ARE LIKELY MOSTLY DUE TO CLIMATE RENDS.						

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	aquifer 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 PSI.

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
						 	├ ─ ├┤
			_			 	
		<u> </u>					
Basis for	r aquif	er hydraulic connection evaluatio	n:				

basis for aquiter hydrautic connection evaluation.
Water Availability Basin the well(s) are located within:

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?

Date: 04/29/2013

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:								

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.

Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS											_	
Interfere	nce CFS				_				_				_
	uted Well										_		
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
117 11 0	O.F.O.	%	%	%	%	%	%	%	%	%	%	%	%
Well Q					_								
Interfere	ence CFS	0/	- 0/	0/	0.4	0/	- 01	2.					
		%	%	<u>%</u>	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a													_
Interfere	nce CFS												
		%	_ %	%	%	%	%	%	%	%	%	%	<u>%</u>
Well Q a													
Interfere	nce CFS												
_		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a													
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a					_								
Interfere	ence CFS												
(A) = Tot	tal Interf.												
(B) = 80	% Nat. Q				_								
(C) = 1 %	% Nat. Q												
(D) = (A)) > (C)	✓	√	√	√	√							
	/B) x 100	%	- %	%	%	%	%	%	%	%	%	%	<u>%</u>

(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.

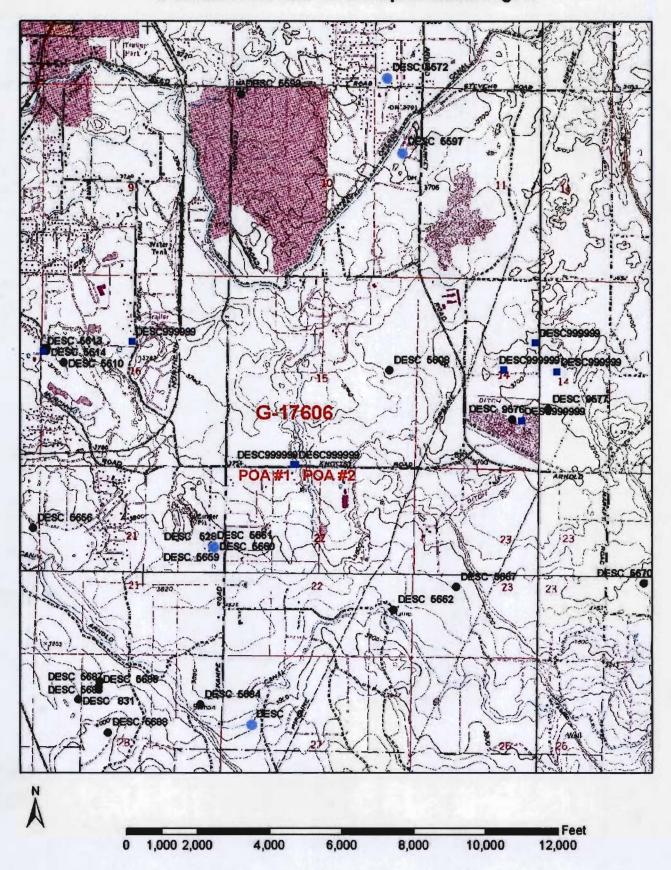
Basis for impact evaluation:

plication: G-17606 continued	Date: 04/29/20
COO OO OAO (#) (I) (The mate (I) (A) (A) (B) (
690-09-040 (5) (b) The potential to impair or detrimentally affe Rights Section.	ct the public interest is to be determined by the W
ragues section.	
If properly conditioned, the surface water source(s) can be adequate	ely protected from interference, and/or ground water
under this permit can be regulated if it is found to substantially interf i. The permit should contain condition #(s)	ere with surface water:
ii. The permit should contain condition #(s) ii. The permit should contain special condition(s) as indicated the permit should contain special condition(s) as indicated the permit should contain condition #(s)	ted in "Remarks" below:
iii 🗀 The permit enema centam special centamen(e) as malea	Temants below,
SW / GW Remarks and Conditions	
Dofovonosa Usada	
References Used:	S OPEN-FILE REPORT 97-197: REND AIRPOI
BEND QUADRANGLES; APPLICATION FILE G-17606; WATER	WELL REPORTS DESC 58007 AND DESC
51943(NEARBY WELLS); DIVISION 690-505.	

Application: G-17606 continued Date: 04/29/2013

D. WELL CONSTRUCTION, OAR 690-200 D1. Well #: _____ D2. THE WELL does not meet current well construction standards based upon: a. review of the well log; field inspection by ______ report of CWRE ______ d. other: (specify) D3. THE WELL construction deficiency: a. 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; other: (specify) ______ D4. 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. \(\Boxed{1}\) 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 ______, 200_____. (Enforcement Section Signature) D8. Route to Water Rights Section (attach well reconstruction logs to this page).

G-17606: Bend and Bend Airport Quadrangles



G-17606: Bend and Bend Airport Quadrangles

