## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights S	ection				Dat	e <u>12/28/20</u>	10			
FROM	<b>1</b> :	Groui	nd Water/	Hydrology Se	ection	K. Lit	te						
SUBJI	ECT:	Appli	cation G-	17338			ewer's Name persedes re	view of		Date of Re	view(s)		
OAR 6 welfare to deter	<b>590-310-1</b> e, safety a rmine wh	30 (1) 7 and heals ether the	The Depart th as descr e presumpt	ribed in ORS 5. tion is establish	esume tha 37.525. E hed. OAF	t a propos Department R 690-310-	ed groundwe t staff reviev 140 allows t	v ground wa the proposed	ensure the prester applications use be modified licies in place a	under OA d or cond	AR 690-3 litioned to	10-140 meet	
A. <u>GE</u>	NERAL	INFO	RMATIO	<u>ON</u> : App	olicant's N	Name: Fac	ebook Inc	•		County:_	Crook		
A1.	Applica	ant(s) se	ek(s) <u>0.7</u>	58 cfs from	2	well(	(s) in the	Deschutes				_ Basin,	
		<u>Crooke</u>	d River			subb	asin Qu	ad Map: H	luston Lake				
A2. A3.	Propose Well ar	ed use: nd aquif	Ind er data (att	lustrial tach and num	ber logs	Seas	sonality: ng wells; ma	Year-Rou ark proposed	nd d wells as such	under lo	gid):		
Wel l	Log		Applicar s Well #	Aqui	Proposed Aquifer*		Proposed Loc Rate(cfs) (T/R-S		2250'	ion, metes and bounds, e.g. 0' N, 1200' E fr NW cor S 36			
1	Croo 53		1	Deschu	ites Fm	.758	.758 15S/15E-02		d 203'	N, 139' E	fr SE coi	·, S 2	
2	Croo 5	3878	2	Deschu	ites Fm	.758	.758 15S/15H		d 128'	N, 139' E	fr SE cor	·, S 2	
* Alluv	ium, CRB,	Bedrock	ζ										
Well	Well Elev ft msl	First Water ft bls	It bis	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	
2	3230 3230	490 370	305	09/25/2009 10/29/2010	780 713	0-491	+1.5-491	478-713	488-703	340	223	р	
						7						F	
Use dat	a from app	lication	for proposed	l wells.									
A4.									<u>TH WELLS AR</u> THE DESCHU				
GROU	IND WA	TER FI	LOW IS T	OWARDS TI	HE NOR	THWEST	WITH TH	IE NEARES	ST LIKELY D	SCHAR	GE TO	<b>THE</b>	
				MITH ROCK. DPOSED LOC			AMOUNT N	MAY NOT I	BE WITHIN T	HE CAP	ACITY	<u>OF</u>	
A5. 🔀	Provis manage (Not all	ions of ement of l basin r	the <u>Descl</u> ground w ules contai	hutes ater hydraulica in such provisi	ally conne	ected to su	rface water	are, or	to the developm are not, active GROUND WA	vated by t	his appli	cation.	
A6. [		of admin	istrative a	, , rea:		,	, taj	p(s) an aquif	er limited by an	administ	rative res	striction.	

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

is over appropriated, $\square$ is not over appropriated, $or \boxtimes$ cannot be determined to be period of the proposed use. * This finding is limited to the ground water portion of the	
determination as prescribed in OAR 690-310-130;	
will not or will likely be available in the amounts requested without injury to prio is limited to the ground water portion of the injury determination as prescribe	
$\square$ will not $or$ $\square$ will likely to be available within the capacity of the ground water reso	ource; or
will, if properly conditioned, avoid injury to existing ground water rights or to the g i.  The permit should contain condition #(s)	round water resource:
Condition to allow ground water production from no deeper than	ft. below land surface;
Condition to allow ground water production from no shallower than	ft. below land surface;
Condition to allow ground water production only from the water reservoir between approximately ft. and ft. below land	ground surface;
to occur with this use and without reconstructing are cited below. Without reconstruct withholding issuance of the permit until evidence of well reconstruction is filed with the by the Ground Water Section.  Describe injury —as related to water availability—that is likely to occur without well reconstruction.	tion, I recommend he Department and approved construction (interference w/
L 1314 (CROO 1954), LOCATED ABOUT 5.1 MILES TO THE SOUTHWEST. IT E 1994. THE LONG-TERM TREND SHOWS THE WATER LEVEL HAS BEEN :	<u>' HAS BEEN MONITOREI STEADILY DECLINING.</u>
ERVATION WELL IS A RESULT OF DECREASED RECHARGE AND LIKELY TER PUMPING IN THE AREA.	
EXTURN IN THE AREA.	
POA'S ARE PROPOSED IN AN AREA WHERE LARGE NEW USES OF GROUNTLY OR IN THE PROCESS OF BEING PERMITTED. IN ADDITION, HYDR AREA INDICATE THERE ARE SHARP PERMEABILITY BOUNDARIES THAT CERBATE INTERFERENCE AND WATER SUPPLY PROBLEMS.	OGEOLOGIC DATA IN
ENTLY OR IN THE PROCESS OF BEING PERMITTED. IN ADDITION, HYDR AREA INDICATE THERE ARE SHARP PERMEABILITY BOUNDARIES THAT CERBATE INTERFERENCE AND WATER SUPPLY PROBLEMS.	OGEOLOGIC DATA IN TARE LIKELY TO
ENTLY OR IN THE PROCESS OF BEING PERMITTED. IN ADDITION, HYDR AREA INDICATE THERE ARE SHARP PERMEABILITY BOUNDARIES THAT	OGEOLOGIC DATA IN TARE LIKELY TO  OF DRAWDOWN CRSECTED THE TOP OF
ENTLY OR IN THE PROCESS OF BEING PERMITTED. IN ADDITION, HYDR AREA INDICATE THERE ARE SHARP PERMEABILITY BOUNDARIES THAT CERBATE INTERFERENCE AND WATER SUPPLY PROBLEMS.  DAY AQUIFER TEST WAS DONE AT POA #2 (CROO 53878). ABOUT 240 FEET ULTED FROM PUMPING AT 340 GPM. THE DRAWDOWN AT 198 FEET INTERIOR MAIN AQUIFER 84 MINUTES INTO THE TEST. A RECHARGE BOUNDARY	OGEOLOGIC DATA IN TARE LIKELY TO  TOF DRAWDOWN CRSECTED THE TOP OF APPEARS 1292 MINUTES  TER-BEARING ZONES IN OW THAT IS BOUNDED
	i.  The permit should contain condition #(s)

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

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

Wel 1	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

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  $\boxtimes$  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?

C3b. **690-09-040 (4):** Evaluation of stream impacts <u>by total appropriation</u> 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.

	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
				•									
Distri	buted Well	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	rence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	rence CFS												
(A) = To	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
( <b>D</b> ) = (A	A) > (C)	<b>√</b>	√	<b>√</b>	<b>√</b>								
$(\mathbf{E}) = (\mathbf{A}$	( / B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

-	
	0-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Wests Section.
	<b>operly conditioned</b> , the surface water source(s) can be adequately protected from interference, and/or ground water this permit can be regulated if it is found to substantially interfere with surface water:
i.	The permit should contain condition #(s)
ii	
W / GW	The permit should contain special condition(s) as indicated in "Remarks" below;  Remarks and Conditions
W / GW	
W/GW	
W / GW	
	Remarks and Conditions
Reference OATA; J	

## D. WELL CONSTRUCTION, OAR 690-200

Well #:	Logid:	
<ul><li>a.  review of</li><li>b.  field insp</li><li>c.  report of</li></ul>	the well log; ection byCWRE	; ;
a. constitute b. comming c. permits tl d. permits tl	struction deficiency: es a health threat under Division 200 rules; les water from more than one ground water reservoir; ne loss of artesian head; ne de-watering of one or more ground water reservoirs;	
THE WELL cons	struction deficiency is described as follows:	
		on
Well construction	deficiency has been corrected by the following actions:	
	THE WELL does a.	THE WELL does not meet current well construction standards based upon:  a.

C-17:38

C-1

G-17338: Huston Lake and Prineville Quadrangles

