Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE #	#	G-	175	73

ROUTED TO: Water Rights - Kerry

TOWNSHIP/
RANGE-SECTION: 175/5W-25 (6

CONDITIONS ATTACHED?: [Yves [] no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mite Zwart

WATER RESOURCES DEPARTMENT

MEN	МО							<u>.</u> J	anuer	30	20 <u>4 3</u>
TO: FRO SUB	M: JECT:	GW:	ication Mik (F	e z	Wart Name)		aluation	1			
	_YES	The so	ource of	approp	oriation :	is withir	n or abo	ve a Sce	enic Wa	terway	
	_YES _NO	Use th	ne Sceni	c Water	rway co:	ndition	(Condit	ion 7J)			
·	interfectual Per Olinterfectual the Details	erence wated into RS 390. Erence water true control of the proper true control of true cont	835, the vith surferference 835, the vith surferent is unosed us maintai	ace wat e is dist Ground ace wat nable to e will n	er that of the cributed d Water er that of the cribat the cribat areasura	sontribu below. Section contribu at ther bly red	tes to a is una tes to a e is a pr uce the	Scenic V ble to ca scenic v reponde surface	Waterwalculate vaterwalerance e water	ground y; there of evide flows	water
Calcula calcula informin Exerci Watery	ite the per ted, per c ing Water se of th way by	rcentage riteria in Rights th is permi the follo	INTER of consum 390.835, at the De it is calc owing an	nptive use do not fi partment ulated t nounts	e by mont ll in the to is unable to reduc	able but c e to make e month	heck the a Prepor ly flows	"unable" aderance s in	option a of Eviden	bove, thu	s g. Scenic
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

: ,

TO:		Wate	r Rights S	ection					Date	e	January	30, 201	3	
FROM	:	Grou	nd Water/	Hydrology	Section _	Mich	ael Zw	art_						
SUBJE	CCT:	Appli	cation G-	17573			iewer's Na persede		view of			Date of Re	view(s)	
OAR 69 welfare, to deter	90-310-1 safety a mine who	30 (1) and heal ether the	The Depart th as descr e presumpt	<i>ibed in ORS</i> ion is establ	oresume the 537.525. I ished. OAF	at a propos Department R 690-310-	ed grou t staff re 140 allo	view ws th	ater use will ground wate ne proposed agency poli	er appuse b	olications u e modified	inder OA l or condi	R 690-31 tioned to	0-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIO	<u>ON</u> : A	pplicant's	Name:	Wally	Gre	sl and Jac	cie L	ucas (County:	Lane	
A 1.	Applica	int(s) se	ek(s) <u>0.1</u>	114 cfs from	m <u>one</u>	well	(s) in the	e	Willamette	2				_Basin,
		Coyote	Creek/Loa	ng Tom Riv	er	subb	asin	Qua	ad Map: <u>E</u>	ugen	e West			
A2. A3.	Propose Well an	ed use: _ d aquif	Irr er data (att	igation, 15 a	acres mber logs	Seas	sonality g wells	: ; mai	March 1 to	Oct well	ober 31 s as such t	under log	gid):	
Well	Logi	id	Applicant		oposed	Propos			Location			n, metes		
1	LANE (Well #		quifer* ine Seds.	Rate(ci			/R-S QQ-Q) W-25 NW-S	W		N, 1200' E fr NE co i		
3														
4	_			_										
5 * Alluvii	ım, CRB,	Redrock	,											
Andvi												T VV 7 11		
Well	Well Elev ft msl	First Water ft bls	SWL	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casi Interv (ft)	als	Liner Intervals (ft)	l .	forations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	402	35	30	05/07/04	100	0-19	0-19		0-100	20-	100	50		Air
I I a data	£	liaatian	for proposed	1										
									•••	_				
A4. vield is	Commo	ents: <u>Tl</u> l to be:	<u>he location</u> somewhat	was clarifi high when	ied by Jerr compared	<u>v Sauter b</u> to other n	<u>ecause</u> learby v	<u>the r</u> wells	map did not developing	<u>refe</u> mari	<u>rence a se</u> ne sedime	ction cor ntary ro	ner. The cks.	e well
					•									
A5. 🛚	manage (Not all	ment of basin r	ules contai	ater hydrauli n such provi	ically conn isions.)	ected to sur	rface wa	ater [lles relative t ☐ are, or 🗵	o the are	developm not, activ	ent, class ated by th	ification a	and/or ation.
	Comme	nts:												
					_									
A6. 🗌	Name of	of admir	nistrative ar	ea:			_		p(s) an aquif				_	triction.
				_	_									

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В. <u>GF</u>	ROUN	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070	
B1.	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 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;	any
	b.	will not or will likely be available in the amounts requested without injury to prior water rights. * This find is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;	ling
	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) 7E 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;	ıd
	d.	 Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are like 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 Grew Water Section. Describe injury —as related to water availability—that is likely to occur without well reconstruction (interference senior water rights, not within the capacity of the resource, etc): 	ng ound
В3.	Gro	ound water availability remarks: The only local current observation well displays stable water levels. However is well appears to develop younger alluvial deposits rather than marine sedimentary rocks.	ver,
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Application O-1/3/3	Continucu

Date: January 30, 2013

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	Sandstone and conglomerate, probably Eugene Formation	\boxtimes	

Basis for aquifer confinement evaluation: Most local wells appear to be developing a confined to semiconfined aquifer.

This well appears to be developing a poorly confined aquifer.

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)	Conn	nulically nected? ASSUMED	Potentia Subst. Int Assum YES	terfer. ed? NO
1	1	Coyote Creek	372	375	7150*				\boxtimes

Basis for aquifer hydraulic connection evaluation: The mainstem of Coyote Creek is at the distance above. Fern Ridge Reservoir is, in part, on Coyote Creek and, when filled, is mapped closer than this distance. However, this part of the lake is primarily wetlands and the shoreline is not distinct. Therefore, I am considering only the closest reach of the creek for Division 9 findings.

Water Availability Basin the well(s) are located within: Long Tom R > Willamette R ab mouth (114).

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?
									·	

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:	This section does	not apply.						

Comments: _	This section does	not apply.	 		
		_	 		
			 <u>_</u>	 	
				•	

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	s CFS		-	-									
Interferer		_									_		
	ited Well												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as													
Interferen	nce CFS												
		%	%	%	%	%	%	%	- %	%	%	%	%
Well Q as	s CFS												
Interferen	nce CFS						_						
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as	s CFS												
Interferer	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as	s CFS						_						_
Interferer	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as	s CFS						_						
Interferer	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as	s CFS												
Interferer	nce CFS												
(A) = Tota													
(B) = 80 %	% Nat. Q												
(C) = 1 %	Nat. Q												
(D) = (A)	>(C)	√	√	√	√	V	1	<u> </u>	1	√	V	1	-/
(D) - (A)	- (C)	*	<u> </u>	, %	%	%	%	<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.

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-	natural flows of the Long Tom River. Therefore, no impact evaluation calculations are necessary.
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	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Naights Section.
	If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water under this permit can be regulated if it is found to substantially interfere with surface water: i. The permit should contain condition #(s)
	 i The permit should contain condition #(s) ii The permit should contain special condition(s) as indicated in "Remarks" below;
SV	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
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SW	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
SW	V / GW Remarks and Conditions
Re	ferences Used: Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K.
Re	ferences Used: Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K.
Re	ferences Used: Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K.

Date: January 30, 2013

Application G-17573 continued

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Applica	ion G-17573 continued Date: January 30, 2013
D. WE	LL 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 report of CWRE d. other: (specify)
D3.	THE WELL construction deficiency: a.
D4.	THE WELL construction deficiency is described as follows: I have no issues with the well construction,
	-
D5.	 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 S	ECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7. 🗆	Well construction deficiency has been corrected by the following actions:
	(Enforcement Section Signature), 200
D8.	Route to Water Rights Section (attach well reconstruction logs to this page).

