Water Right Conditions Tracking Slip Groundwater/Hydrology Section FILE ## ___ G-17616 ROUTED TO: Water Rights - Kerry TOWNSHIP/ RANGE-SECTION: 175/4W-14 cd

CONDITIONS ATTACHED?: [] yes [] Yo

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mike Zwart

WATER RESOURCES DEPARTMENT

MEN	ИО							1	pril	18,	20\$3
TO: FRO SUB,	M: JECT:	GW:	Mike Mike c Wate	Zu Leviewer's	Name)	—— nce Eva	aluatior	1			
	_YES _NO	The se	ource of	approp	riation i	is withir	n or abo	ve a Sce	enic Wa	terway	
	_YES	Use th	ne Sceni	c Water	way co	ndition ((Conditi	ion 7J)			
											·
	interfe	erence v	835, the vith surf erference	ace wat	er that c	ontribu			_		iter
	interfe the De that the	rence w epartm ne prop	835, the vith surf ent is un osed us maintai	ace wat nable to e will n	er that c find the easura	ontribut at ther bly red	tes to a s e is a pr uce the	scenic v repondo surface	vaterwa erance e e water	y; there of evide flows	fore,
Calcula calcula	ite the pe ted, per c	rcentage riteria in	INTER of consum 390.835, at the De	nptive use do not fil	e by mont. Il in the to	able but c	heck the	"unable"	option a	bove, thu	2
Water	way by	the follo	t is calcowing an	nounts			-		e consu		Scenic use by
an	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water Rights Section						Dat	e <u>April 1</u>	8, 2013		
FROM	:	Grou	nd Water/H	ydrology	Section		ael Zwart					
SUBJE	ECT:	Appli	cation G	17610			iewer's Name persedes re	eview of				
										Date of Re	view(s)	
OAR 69 welfare, to deter	90-310-1 safety a mine who umption	30 (1) 7 and healt ther the criteria.	th as describe presumption	ent shall p ed in ORS n is establi is based	resume the 537.525. ished. OA upon ava	pat a propos Departmen R 690-310- ilable info	sed groundw t staff review 140 allows t rmation and	v ground wat the proposed I agency poli	ensure the preser applications use be modified icies in place a	under OA d or condi	R 690-31 tioned to of evalu	0-140 meet
A1.	Applica	nt(s) se	ek(s) <u>0.06</u>	_ cfs from	m <u>one</u>	well		Willamette				_ Basin,
A2. A3.						Seas	sonality:	March 1 to	October 31 wells as such	under log	gid):	
Well	Log	id	Applicant's Well #		oposed quifer*	Propos Rate(c:		Location /R-S QQ-Q)		n, metes N, 1200' E		
1	Propo	sed	1		uvium	0.06		4W-14 SE-S		0' W fr S		
3			_							_		
4				-								
5												
* Alluviı	ım, CRB,	Bedrock										
Well	Well Elev ft msl	First Water ft bls	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	393		10*		80	0-18	0-80		25-80	28*		
				_								
Use data	from app	lication f	or proposed w	ells.								
A4.	Comme	ents: <u>*E</u>										
					-							
A5. 🖾	manage (Not all	ment of basin r	ules contain s	r hydrauli uch provi	cally conn sions.)	ected to su	rface water	☐ are, or 🗵	o the developm are not, activ	ated by th	is applica	ation.
A6. 🗌	Name o	f admin	istrative area	:					er limited by an			

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OU!	ND 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 period of the proposed use. * This finding is limited to the ground water portion of the over-appropriated determination as prescribed in OAR 690-310-130;								
b.	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 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/ 							
dat loca	ound water availability remarks: <u>There are no nearby current State Observation Wells. However, the available as for alluvial wells suggests that water levels are relatively stable. The proposed use is relatively small and the ation within the Eugene city limits makes it unlikely that there are nearby wells that could be impacted by pumpinerference. I do not believe that a measurement condition is warranted in this case.</u>							
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Date: April 18, 2013

Application G-17610

_____continued

Application G-17610	continued	Date: April 18, 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	Sand & gravel: Quaternary and late-Tertiary sediments		\boxtimes

Basis for aquifer confinement evaluation: Nearby well logs have relatively shallow water levels which are typically								
ear the depth that groundwater was first encountered.								

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
1	1	Willamette River	383	390±	5400		

Basis for aquifer hydraulic connection evaluation:	The alluvial aquifer is described in the pertinent groundwater
reports to be in hydraulic connection with surface	water sources. See other remarks at C6.

Water Availability Basin the well(s) are located within: Willamette R > Columbia R ab Periwinkle Cr at gage 14174.

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 < ½ 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?
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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: This section does not apply.							

Comments: _	This section does not apply.

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 a	as CFS							_					
Interfere	ence CFS												
Distrib	uted Well												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	- %	%
Well Q	as CFS							_					
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	 %	%	%
Well Q a	as CFS						_						
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS												
Interfere	ence CFS												
(A) = Tot	tal Interf.												
(B) = 80	% Nat. Q												
(C) = 1 %	% Nat. Q												
(D) = (A)) > (C)		.7										
	/ 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.

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тррп	continued	Date: April 18, 2013
	Basis for impact evaluation:	
C4b.	690-09-040 (5) (b) The potential to impair or detrimentally affect Rights Section.	ct the public interest is to be determined by the Wat
25. [☐ If properly conditioned, the surface water source(s) can be adequate under this permit can be regulated if it is found to substantially interfer i. ☐ The permit should contain condition #(s)	ere with surface water:
	ii. The permit should contain special condition(s) as indicat	ed in "Remarks" below;
<u>th</u>	SW / GW Remarks and Conditions <u>Communication in the file betwee</u> the intermittent creek/swale located close to the proposed well is not leconsidered by a Division 9 review. It is ephemeral and is not tributare Mattick.	ikely a surface water source that should be
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	References Used: Gannett, Marshall W., and Caldwell, Rodney R., Lowland Aquifer System, Oregon and Washington: U. S. Geological	
	Conlon and others, 2005, Ground-water hydrology of the Willamette	Basin, Oregon: U.S Geological Survey Scientific
In	nvestigations Report 2005-5168.	
	Woodward and others, 1998, Hydrogeologic framework of the Willan Washington: U.S. Geological Survey Professional Paper 1424-B,	nette lowland aquifer system, Oregon and
W	vi asinington: U.S. Geological Survey Professional Paper 1424-B,	
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App	dication (G- <u>17610</u>	c	ontinued	i							Date:	Aprii i	8, ZUI	<u> </u>			
D V	WELL (CONSTRUC	TION	OAR 6	90-200													
D1.			_			ogid:												
D2.		E WELL does ☐ review of			nt well c	onstruct	tion st	andar	ds ba	ased 1	upon	:						
		field inspe																
	c.	report of 0	CWRE_															
	d.	other: (spe	ecify)				_	•					_					
D3.	TH	E WELL cons	truction	deficie	ncy:													
		constitute																
		commingle permits th				one grou	ind wa	iter res	ervoi	ır;								
		permits th				nore gro	und w	ater re	servo	irs;								
		other: (spe																
D4.	TH	E WELL cons	truction	ı deficier	ncy is de	escribed	as fol	lows:										
																2		
D5.	TH	E WELL	a. 🔟			not consisting						ndards	in effe	ct at th	ie tim	e of		
				origina	· Constitu		111001		oui		· · · ·							
			b. 🗌	I don't	know if	it met sta	andar	ls at th	e tim	e of c	constr	uction.						
D6.		ute to the Enfo led with the De														vell red	constru	uction
TH	IS SEC	TION TO BI	СОМ	PLETI	ED BY	ENFOI	RCEN	AEN7	r PE	RSO	NNE	EL						
D7		Il construction	doficion	ov bos be	an corre	acted by t	the fol	lowing	a acti	oner								
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		(Enforcen	ent Sec	tion Sigr	nature)													
Do			V-L4- 0	4 !	-441	د درد المر	4	41 1	4	. 41-2		,						
D8.	☐ K 0	ute to Water I	rights S	ection (a	ittaen w	en recor	istruc	tion I	ogs to	tnis	page).						

