PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	Water Rights Section					Date <u>March 18, 2009</u>						
FROM:		Groun	d Water/	Hydrology	Section _	Josh F	Iackett					
SUBJE	CT:	Applic	cation G-	17162			ewer's Name persedes rev	view of				
		11				,	L			Date of Rev	view(s)	
OAR 69 welfare, to determ the press	90-310-13 safety armine when sumption of	30 (1) The description of the de	he Depart h as descr presumpt This revi	ibed in ORS ion is estable ew is based	resume tha 537.525. I ished. OAF upon avai	tt a propos Department R 690-310- lable infor	ed groundwa t staff review 140 allows t rmation and	ground wate he proposed agency poli	ensure the prese er applications to use be modified cies in place at	under OA d or condi t the time	R 690-32 itioned to e of evalu	10-140 meet
							Land, LLC			Clackama		
A1.	Applica	nt(s) see	ek(s) <u>0.9</u>	3 cfs f	rom <u>1</u> w		ne Willa					
						subt	oasin Qua	ad Map: <u>Yo</u>	oder			
A2. A3.	Propose Well and	d use: _	irriş r data (att	gation	mher logs	Seas	onality:	March 1 – O	October 31 wells as such i	under loc	aiq).	
		<u> </u>	Applicant	,,		Propose		Location Location		n, metes a		s. e.g.
Well 1	PROPO		Well #	Propose	ed Aquifer*	Rate(cfs	s) (T	(T/R-S QQ-Q) 5S/1E-12 NW-SE		I, 1200' E 1 , 1660' W	fr NW cor	S 36
2	PROPU	SED	1 Alluvium		iuviuiii	0.93 58/		.E-12 NW-SE	2730 3	, 1000 W	II NE COI	3 12
3 4												
5												
* Alluviu	ım, CRB,	Bedrock		•		•	· ·		•			
Well	Well Elev ft msl	First Water ft bls	SWL 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	307	11 013			500	0-145	0-500	(11)	(It)	(gpiii)	(11)	
										 		
Use data	from appl	ication fo	or proposed	d wells.			•					
A4.	Comme	nts:										
-												
A5. 🖂	Provisi	ons of t	he	Willamette)		Basin ru	les relative to	o the developme	ent, classi	fication a	and/or
	manager (Not all Comme	ment of basin ru nts:	ground wa les contai The applic	ater hydrauli n such provi cant's well is	sions.) not locate	ected to su <u>d within ¼</u>	rface water mile of near	∐ are , <i>or</i> ⊵	are not, activ	ated by the	nis applic inent basi	ation.
A6. 🗌	Name of	f admini	strative ar	rea:				o(s) an aquife	er limited by an	administr	rative res	triction.
	-											

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B. <u>GR</u>	ROUN	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070											
B1.	Based upon available data, I have determined that ground water* for the proposed use:												
	a.	is over appropriated, is not over appropriated, $or \boxtimes$ 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.	\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, 7C 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 alluvial 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/senior water rights, not within the capacity of the resource, etc): 											
В3.		ound water availability remarks: Over 500 feet of alluvial sediments occur beneath land surface in the vicinity of the											
	seq Nea pro	posed POA. The water table occurs 40-60 feet below land surface. Productive sand and gravel beds occur throughout the uence separated by beds of lower permeability silt and clay which progressively confine deeper water-bearing zones. The array observation wells indicate relatively stable long-term water-level trends for wells in the immediate vicinity of the posed POA (see attached hydrograph), but increased ground-water development in the area speaks to the need for litional water-level monitoring.											

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			Aquife	r or Proposed	Aquifer		C	Confined	J	Unconfined		
1				alluvium								
1												
<u> </u>								<u> </u>		<u> </u>		
										<u> </u>		
<u> </u>												
Basis for sediment	_	fer confin	ement ev	aluation: <u>W</u>	ater bearing	zones are o	overlain by s	everal hundr	ed feet of find	e grained al	luvi	
horizon assume	tal dis d to be	tance less to hydraulic	than ¼ mi ally conn	distance to, an	ace water so	urce that p	roduce water	from an und	confined aqui	fer shall be		
that are	evalu	ated for PS	SI.		<u> </u>	1					1.0	
Well	SW #	S	urface Wa	ter Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Conn	ulically ected? ASSUMED	Potentia Subst. In Assum YES	terfe	
1	1	Bear Creek			180	240-300	3200					
+												
	r aann			ection evalua					This suggests			
indicate part of th	water ie allu	vial aquife	r is not co	onnected to the above the water	ese streams a							
indicate part of the Creek) as	water ne allu re assu	vial aquife imed to be	r is not co perched a	nnected to the	ese streams a er table.	long these	reaches. No	n-perennial s	treams in the	area (e.g. I		
water A 590-09-0 connecte that are p	water ne allu re assu vailal 40 (4 ed and pertine the re	vial aquife umed to be bility Basis bility Basis Evaluat less than nt to that sequested ra	n the well ion of stre 1 mile frurface wa te against	onnected to the above the water	ed within: or each well water source. d not lower so % natural fle	151: PUDI that has be Limit eval SW source ow for the	DING R > Ment of the pertinent Was	IOLALLA I ed or assume stream rights te stream und ater Availabi	R – AB MIL d to be hydra and minimumaler evaluation lity Basin (W	L CR aulically m stream flo n is tributary (AB). If Q	Xais	
water A 590-09-0 connecte that are p Compared distribute	water ne allu re assu vailal 40 (4 ed and pertine the re	vial aquife umed to be bility Basis bility Basis Evaluat less than nt to that sequested ra	n the well ion of stre 1 mile frurface wa te against	l(s) are locate eam impacts form a surface vater source, and the 1% of 80	ed within: or each well water source. d not lower so % natural fle	151: PUDI that has be Limit eval SW source ow for the	DING R > Ment of the pertinent Was	IOLALLA I ed or assume stream rights te stream und ater Availabi	R – AB MIL d to be hydra and minimumaler evaluation lity Basin (W	L CR aulically m stream flo n is tributary (AB). If Q potential to	Ows /. is n cau	
water A S90-09-0 connecte that are p Compare distribute PSI.	water le allu re assu vailal vailal ed and bertine the re ed by SW	pility Basing Evaluate I less than to that sequested rawell, use full well <	n the wellion of street 1 mile from the against all rate for Qw >	eam impacts for the source, and the 1% of 80 reach well. A	ed within: or each well water source d not lower is not necked [Instream Water Right Q	that has be Limit eval. SW source ow for the Dox indicates the Dox	en determine luation to ins s to which the pertinent Waicates the we 80% Natural Flow	MOLALLA ed or assume stream rights the stream undater Availabil is assumed Qw > 1% of 80% Natural	d to be hydra and minimuler evaluation lity Basin (Will to have the Interference @ 30 days	L CR aulically m stream flor n is tributary (AB). If Q potential to	Ows /. is n cau	
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water A S90-09-0 connecte that are p Compare distribute PSI.	water le allu re assu vailal vailal ed and bertine the re ed by SW	pility Basing Evaluate I less than to that sequested rawell, use full well <	n the wellion of street against all rate for the well all rate for the wellion of street against all rate for t	eam impacts for the source, and the 1% of 80 reach well. A	ed within: or each well water source d not lower is not necked [Instream Water Right Q	that has be Limit eval. SW source ow for the Dox indicates the Dox	en determine luation to ins s to which the pertinent Waicates the we 80% Natural Flow	MOLALLA ed or assume stream rights the stream undater Availabil is assumed Qw > 1% of 80% Natural	d to be hydra and minimuler evaluation lity Basin (Will to have the Interference @ 30 days	L CR aulically m stream flor n is tributary (AB). If Q potential to	Cai Ows y. is r cau tia tibst fer.	
water A Gonnecte that are p Compare distribute PSI.	water le allu re assu vailal vailal ed and bertine the re ed by SW	pility Basing Evaluate I less than to that sequested rawell, use full well <	n the wellion of street against all rate for the well all rate for the wellion of street against all rate for t	eam impacts for the source, and the 1% of 80 reach well. A	ed within: or each well water source d not lower is not necked [Instream Water Right Q	that has be Limit eval. SW source ow for the Dox indicates the Dox	en determine luation to ins s to which the pertinent Waicates the we 80% Natural Flow	MOLALLA ed or assume stream rights the stream undater Availabil is assumed Qw > 1% of 80% Natural	d to be hydra and minimuler evaluation lity Basin (Will to have the Interference @ 30 days	L CR aulically m stream flor n is tributary (AB). If Q potential to	Xai Xai Xai Xai	

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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.

tame evaluation and immunious apply as in each acove.										
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.

	stributed V						-			~			_
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfer	ence CFS												
Dietrib	uted Wells												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
****	J 11 11	%	%	%	%	%	%	%	%	% %	%	%	%
Well Q	as CFS	,,,			,,,	,,,	,,		,,,	, ,	,,,	,,,	
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
(A) - To	otal Interf.												
	% Nat. Q												
(C) = I	% Nat. Q												
$(\mathbf{D}) = (A$	A) > (C)	✓	✓	√	✓	√	✓	✓	√	√	✓	✓	√
$(\mathbf{E}) = (\mathbf{A}$	/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:

ication: G- 17162 continued	Date: March 18, 2009
690-09-040 (5) (b) The potential to impair or detrimentally affect the Rights Section.	ne public interest is to be determined by the W
☐ If properly conditioned, the surface water source(s) can be adequately under this permit can be regulated if it is found to substantially interfere i. ☐ The permit should contain condition #(s)	with surface water:
ii. The permit should contain condition #(s) ii. The permit should contain special condition(s) as indicated it	in "Remarks" below;
W / GW Remarks and Conditions:	
eferences Used:	
annett, Marshall W., and Caldwell, Rodney R., 1998, Geologic Framework	of the Willamette Lowland Aquifer System, Ore
nd Washington: U. S. Geological Survey Professional Paper 1424-A, 32p,	8 plates.
	-
lampton, E.R., 1972, Geology and ground water of the Molalla-Salem slope	e area, northern Williamette Valley, Oregon: U.S.
deological Survey Water-Supply Paper 1997, 83p.	,
cological parto, traici pappi, rapor 1771, 00p.	
Land Daniel I Comment of the state of the st	1 1 v.
Voodward, Dennis J., Gannett, Marshall W., and Vaccaro, John J., 1998, Hy	
quifer System, Oregon and Washington: U. S. Geological Survey Profession	onal Paper 1424-B, 82p, 1 plate.

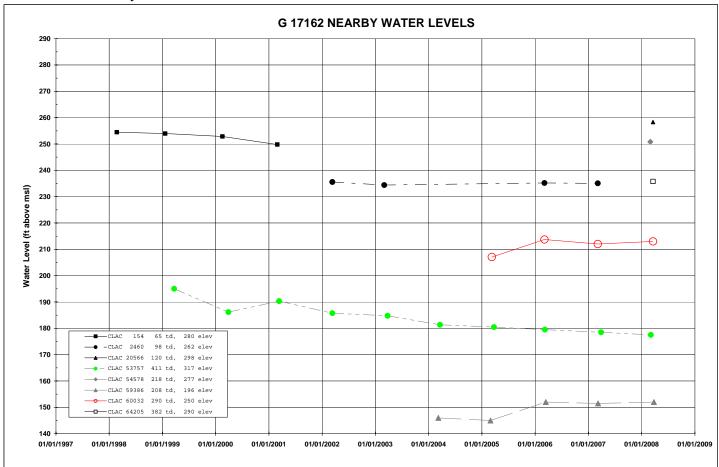
D. <u>V</u>	VEL	L CONSTRUCTION, OAR 690-200	
D1.	,	Vell #: Logid:	
D2.	1	HE WELL does not meet current well construction standards based upon: review of the well log; field inspection by report of CWRE other: (specify)	;
D3.	1	HE WELL construction deficiency: constitutes a health threat under Division 200 rules; commingles water from more than one ground water reservoir; permits the loss of artesian head; permits the de-watering of one or more ground water reservoirs; other: (specify)	
D4.	,	HE WELL construction deficiency is described as follows:	
	-		
	-		
	-		
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 reconstructs filed with the Department and approved by the Enforcement Section and the Ground Water Section.	on
THI	SSI	CTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
		Vell construction deficiency has been corrected by the following actions:	
Σ7.	Ш.	en construction deficiency has been corrected by the following decions:	
	-		
	-		
	•		
	-	200	
	-	(Enforcement Section Signature), 200	
D8.		Route to Water Rights Section (attach well reconstruction logs to this page).	

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Water Levels in Nearby Wells



Date: March 18, 2009_____

Well Location Map

G-17162, Dickman

