## Waster Right Conditions Tracking Slip Groundwater/Hydrology Section FILE # # G- 17592 ROUTED TO: Water Rights - Jeans TOWNSHIP/ RANGE-SECTION: Marions - 30 wells CONDITIONS ATTACHED?: [] yes [Ino REMARKS OR FURTHER INSTRUCTIONS: Groundwater not available (Sec B). Reviewer: Mike Zunt

## WATER RESOURCES DEPARTMENT

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TO:		Appl	ication	G- <u>17</u>	592		•				,	
FRO	M:	GW:	Mik	e Z	wart	-					•	
SUB	JECT:	Sceni	GW: Mike Zwart  (Reviewer's Name)  Scenic Waterway Interference Evaluation									
	_YES _NO	The s	ource of	fapprop	oriation	is within	n or abo	ove a Sco	enic Wa	terway		
	YES Use the Scenic Waterway condition (Condition 7J)											
	٠											
	interfe	erence v	vith surf	ace wat		contribu		e to calc Scenic	_			
	interfe the De that th	rence v epartm he prop	vith surf e <b>nt is u</b> r osed us	ace wat nable to e will n	er that o find the neasura	ontribu nat ther bly red	tes to a e is a p uce the	ble to conscenic verepond surfactor of a sce	vaterwa erance e water	y, there of evide flows	efore,	
Calculo calcula informi Exerci	ted, per o ng Water se of th	rcentage riteria in Rights th	of consum 390.835, at the De	nptive use do not fi partment culated t	e by mont ll in the to is unable to reduc	able but c e to make e month	heck the a Prepor lly flow		option a of Eviden	bove, thu ice findin	s g. Scenic	
	way by surface		_		express	ed as a j	proporti	on of th	e consu	mptive	use by	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov ·	Dec	
								1				

## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS TO: Water Rights Section Date January 22, 2013 FROM: Ground Water/Hydrology Section Michael Zwart Reviewer's Name Reviewer's Name Supersedes review of Date of Review(s) Application G- <u>17592</u> SUBJECT: PUBLIC INTEREST PRESUMPTION; GROUNDWATER OAR 690-310-130 (1) The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation. Applicant's Name: Golden Rule Farms, Inc. County: Harney A. GENERAL INFORMATION: Applicant(s) seek(s) 80.2 cfs from 30 well(s) in the Malheur Lake & Malheur Basin, **A**1. Quad Map: New Princeton, Adobe Flat, Malheur Lake West, Malheur Lake East, Barton Lake, Jackass Butte NE Proposed use: <u>Irrigation, 4192.57 acres</u> Seasonality: <u>March 1 to October 31</u> A2. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid): A3. Applicant's Proposed Proposed Location Location, metes and bounds, e.g. Well Logid Well# Aquifer\* Rate(cfs) (T/R-S QQ-Q) 2250' N, 1200' E fr NW cor S 36 Proposed Alluv./Volcanics 2.6738 3 4 5 \* Alluvium, CRB, Bedrock Well First Liner Well Well Seal Casing Perforations Draw SWL SWL Test Well Elev Water Depth Interval Intervals Intervals Or Screens Yield Down ft bls Date Type ft msl ft bls (ft) (ft) (ft) (ft) (ft) (gpm) (ft) All 0 - 18Use data from application for proposed wells. Comments: \*\*See the application maps and this review's maps for details regarding applicant's well numbers, locational information and estimated elevations. All wells are proposed to be constructed identically with minimal seal depth and no total depth specified. All are also proposed to be pumped at a rate of 1200 gallons per minute each (2.6738 cfs). A5. Provisions of the Malheur Lake Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water $\square$ are, or $\boxtimes$ are not, activated by this application. (Not all basin rules contain such provisions.) Comments: \_\_\_\_, \_\_\_\_, \_\_\_\_, tap(s) an aquifer limited by an administrative restriction.

Name of administrative area:

Comments: \_\_\_\_\_

Applic	ation (	G- <u>17592</u>	continued	Date: January	22, 2013					
В. <u>GI</u>	ROUN	D WATER AV	AILABILITY CONSIDERATIONS	S, OAR 690-310-130, 400-	010, 410-0070					
В1.	Bas	ed upon availabl	e data, I have determined that ground water	er* for the proposed use:						
	a.	period of the	opriated, is not over appropriated, or proposed use. * This finding is limited to a sprescribed in OAR 690-310-130;	over appropriated, $or \boxtimes$ cannot be determined to be over appropriated during any his finding is limited to the ground water portion of the over-appropriation AR 690-310-130;						
	b.	will not or is limited to	will likely be available in the amounts to the ground water portion of the injury	requested without injury to priory determination as prescribe	or water rights. * This finding ed in OAR 690-310-130;					
	c.	<b>⊠</b> will not or	will likely to be available within the ca	pacity of the ground water rese	ource; or					
	d.	i. The	perly conditioned, avoid injury to existing e permit should contain condition #(s) e permit should be conditioned as indicated e permit should contain special condition(s	l in item 2 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 water reserv	o allow ground water production only from oir between approximately ft.	andft. below lan	ground d surface;					
	d.	occur with the issuance of the Water Section Describe injuries.	struction is necessary to accomplish one of his use and without reconstructing are cited the permit until evidence of well reconstruction.  ry —as related to water availability—that is ghts, not within the capacity of the resource.	I below. Without reconstruction is filed with the Department of the behavior of the behavior of the below to occur without well resulted to occur without w	on, I recommend withholding ent and approved by the Ground econstruction (interference w/					
В3.	sim 175 wat disc irri gro doc dev a po tha the	ilar geologic sett 81, for which the ter-level data bei closed groundwa gation. The Wea undwater resour umented water-l reloped, it appear ermit for the ver- t would exceed the	ability remarks: Other than being locating within the Malheur Basin (Briggs were same findings regarding groundwater and collected in the Weaver Springs areater level declines in areas that have expenser Springs area is noteworthy because ree and it has a similar climate, underlying evel declines in the basin and the fact the slikely that the declines will increase in a significant amounts proposed here will the limits set forth in permit condition 7N would likely result in water-level declines that.	ells 10-17), this application is availability have been made. and in other parts of the Marienced significant developm it is a local example of overing geology and recharge as the at many permitted groundwattime as these rights are more likely result in water-level distribution.	similar to application G- The findings are based on alheur Lake Basin which have tent of groundwater for appropriation of the he area here. Given the ater rights are yet to be telly developed. Issuance of tellines at the proposed wells anded. In addition, the use of					

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App	lication	G-1	7592

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cont	ını	ned

Date: <u>January 22, 2013</u>

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
All	Alluvium and valley-fill sediments and/or underlying		
	interbedded volcanic, sedimentary and volcaniclastic rocks		

Basis for aquifer confinement evaluation: The application proposes minimal casing and seal depth for all proposed wells. Therefore, the wells will very likely develop an unconfined aquifer where available.

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	Malheur Lake			*		
**	2	Unnamed creek			**		

Basis for aquifer hydraulic connection evaluation: \*The application identifies seven proposed wells (Briggs 25, 26, 28, 30, 31, 32 & 33) within one mile of Malheur Lake (3170' to 4930'). These selected wells (25/33 below), at a minimum, may need to be cased and sealed to 100 feet, or more, to prevent hydraulic connection with the lake. \*\*The eight wells in the Malheur Basin (Briggs 10-17) are within one mile of an unnamed creek (100' to 1600'). This creek appears to be intermittent and contained entirely within Adobe Flat, a small closed basin. It is not "tributary" in the usual sense to the South Fork Malheur River and I am therefore not considering it to be a surface water source for this review.

Water Availability Basin the well(s) are located within: No WAB data for proposed wells in the Malheur Lake Basin; S. Fk. Malheur R ab Indian Cr (31011633) for proposed Briggs wells 10-17.

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?
								<u> </u>		
				***						

Version: 08/15/2003

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.

evaluati	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?
25/33	1	×							
		 <u> </u>			<u> </u>		<del>                                     </del>		<del></del>
					<u> </u>		<del></del>		<u> </u>
L									<u> </u>

Comments: The total proposed appropriation is well over 5 cfs	

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												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
5			-										
	outed Well		r.t.	Man	<b>A</b>	14	τ.	7.1	<b>.</b>	<b>C</b>	0	<b>N</b>	ъ
Well	SW#	Jan	Feb	Mar %	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
77/-11-0	OFF	%	%	<u>%</u>	%	%	%	%	<u>%</u>	%	<u>%</u>	%	%
Well Q	ence CFS												
Interiere	ence CFS	%	%	%	%	%	%	%	0/	0/		0/	- 0
W. H.O.	070	70	- 70	70	70		- %	- %	%	%	<u>%</u>	%	
Well Q													
Interfere	ence CFS	- 0/	- 01				- 21	- 21					
*** 11.0	ODG	%	%	%	<u>%</u>	%	%	%	%_	%	%	%	%
Well Q													
Interfere	ence CFS	0.4	0/			- 0.	- 21		- 21	- 21		- 21	
W. II.O	ODG	%	%	%	%	%	%	<u>%</u>	%	%	. %	%	%
Well Q				_		_							
Interfere	ence CFS	0/	- 01	- 21		- 21	- 21	2.					
W. II.O	ODG	%	%	%	%	%	%	%	%	%	%	_%	%
Well Q													
Interiere	ence CFS	0/	0/	0/	0/	9/	0/	0/	0.	- 0/	21	- 21	
W 11 0	OPO	%	%	%	%	%	%	%	<u>%</u>	%	%	%	%
Well Q													
Interiere	ence CFS						1011						
(A) = To	tal Interf.												
<del>``</del>	% Nat. Q			-	_				_				
	% Nat. Q											-	
(D) = (A		¥	✓	4	✓	¥	√	√	✓	✓	√	- √	$\checkmark$
(E) = (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.

continued	Date: <u>January 22, 2013</u>
Basis for impact evaluation:	
690-09-040 (5) (b) The potential Rights Section.	to impair or detrimentally affect the public interest is to be determined by the Wa
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_	
If properly conditioned, the surface	e water source(s) can be adequately protected from interference, and/or ground water i
	f it is found to substantially interfere with surface water:
<ol> <li>i.  The permit should conta</li> </ol>	ain condition #(s)
<ol> <li>The permit should conta</li> </ol>	ain condition #(s)ain special condition(s) as indicated in "Remarks" below;
SW / GW Remarks and Conditions	
Defenences Used. I cool well logge los	cal recent reviews, review of water level date collected at wells in the Wagner
Enrings area from 2000 to November 3	cal recent reviews; review of water level data collected at wells in the Weaver 2012; GW Report 16, by Leonard, 1970; Greene, Walker, and Corcoran, 1972,
	le, Oregon, USGS Miscellaneous Geologic Investigations Map I-680; Harney Bas
Mome by Iven Cell 1/15 2009, Stare	by Aquaveo, LLC for the Harney County Watershed Council, November 2012;
viemo by Ivan Gall, 1/15, 2008: Strea	m Assessment for Division 9 Review in the Malheur Lakes Basin.

Applica	ation G- <u>175</u> 92continued	Date: January 22, 2013
D. WE	CLL 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 other: (specify)	
D3.	THE WELL construction deficiency:  a.   constitutes a health threat under Division 200 rules;  b.   commingles water from more than one ground water reservoir;  c.   permits the loss of artesian head;  d.   permits the de-watering of one or more ground water reservoirs;  e.   other: (specify)	
D4.	THE WELL construction deficiency is described as follows:	
D5.	THE WELL a. □ was, or □ was not constructed according to the state original construction or most recent modification.	andards in effect at the time of
	b.   I don't know if it met standards at the time of const	ruction.
D6.	Route to the Enforcement Section. I recommend withholding issuance of the is filed with the Department and approved by the Enforcement Section and the G	
THIS	SECTION TO BE COMPLETED BY ENFORCEMENT PERSONN	<u>CL</u>
D7.	Well construction deficiency has been corrected by the following actions:	
		200
	(Enforcement Section Signature)	
D0 [	· · · · · · · · · · · · · · · · · · ·	
D8	Route to Water Rights Section (attach well reconstruction logs to this page	е).
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