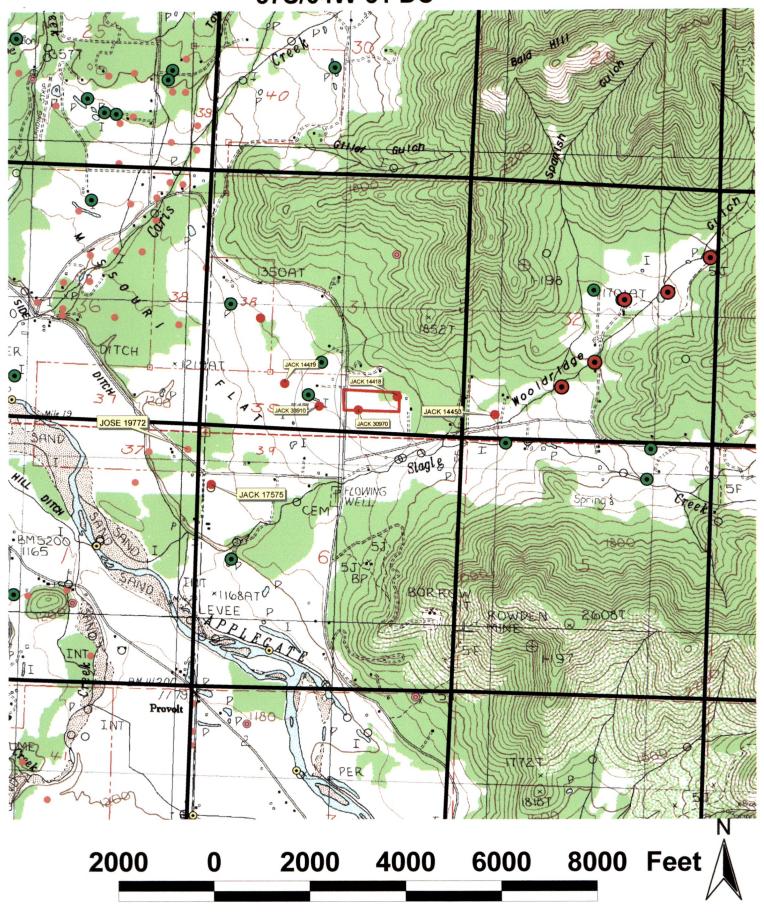
N	IEMO						_	SE	PTI	2,2	00_6		
F	O_ROM UBJEC	G	W: -(	ion G (Reviewa	vX. wer's Name)	601 Bul	Evalu	ation					
	_	Yes  The source of appropriation is within or above a Scenic Waterway  No											
	4	Yes Use the Scenic Waterway condition (Condition 7J). No											
PR	EPOND	ERAN	CE OF	EVIDE	NCE F	INDINC	G: (Che	eck box	only if	stateme	ent is tru	۵)	
	1	At evi sur	this tindence the face was	ne the I that the	Departm propos	nent is used use	unable of gro	to find	that that that er wi	ere is a	a prepor	nderance reduce of a sce	.1
FLO	OW REI	DUCTI	ON: (Te	o be fille	ed out o	nly if <u>Pr</u>	reponde	erance o	of Evide	nce box	c is not o	checked)	
Exe Wat	rcise of	this per by the f	rmit is collowin	calculate	ed to rec	luce mo	nthly f	lowe in				Scen	
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G-16701 Conner 37S/04W-31 DC



#### PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS TO: Water Rights Section Date September 12, 2006 Ground Water/Hydrology Section \_\_\_\_\_ Ivan Gall FROM: Reviewer's Name Supersedes review of \_\_\_\_\_NA SUBJECT: Application G- 16701 Date of Review(s) 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. A. GENERAL INFORMATION: Applicant's Name: Gary and Cassie Conner County: JACK Applicant(s) seek(s) \_\_\_\_\_\_ cfs from \_\_\_\_\_\_ well(s) in the \_\_\_\_\_\_ Rogue Basin, A1. ApplegateRiver/Slagle Creek subbasin Quad Map: Applegate A2. Seasonality: April 1 to October 31 Proposed use: Irrigation Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid): A3. Applicant's Location, metes and bounds, e.g. Proposed Location Well Logid Proposed Aquifer\* 2250' N, 1200' E fr NW cor S 36 Well# Rate(cfs) (T/R-S QQ-Q) JACK 14418 37S/04W-31SWSE 0.125 810' N, 1200' E fr S 1/4 cor S 31 1 Bedrock 2 0.125 2 JACK 30970 37S/04W-31SWSE 580' N, 400' E fr S 1/4 cor S 31 Bedrock 3 4 5 \* Alluvium, CRB, Bedrock Well Well Well First Seal Casing Liner Perforations Draw **SWL** SWL Test Well Depth Interval Intervals Intervals Yield Elev Water Or Screens Down ft bls Date Type (ft) (gpm) ft bls ft msl (ft) (ft) (ft) (ft) (ft) 35.5 7/11/2006 2-150 120-150 12 1375 150 NA NA na NA A 2 0-39 +1-39 0-180 20-170 50 1335 12.9 7/11/2006 180 55 na A Use data from application for proposed wells. A4. Comments: Unable to locate original log for JACK 14418.

A5. Provisions of the Rogue

Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water | are, or | are not, activated by this application. (Not all basin rules contain such provisions.)

Comments:

46. Well(s) # \_\_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, tap(s) an aquifer limited by an administrative restriction. Name of administrative area:

Comments:

Version: 08/15/2003

Application: G- 16701	continued	Date:	<u>September 12, 2006</u>

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

Base	ed upon available data, I have determined that ground water* for the proposed use:									
a.	is over appropriated, is not over appropriated, or is 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)									
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;									
d.	<ul> <li>■ 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.</li> <li>■ 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):</li> </ul>									
mete	und water availability remarks: *** Require applicant to install and maintain a properly functioning, totalizing flower on each well. Record monthly and submit annually water use data to OWRD.  I yields in the area are relatively good, being generally greater than 10 gpm and as high as 100+ gpm. Well depths are									
gene	erally less than 250 feet. Overall, the fractured bedrock aquifer has better than average yields for this area.									
near	ording to Tom Wiley – DOGAMI, bedrock in the area consists of meta-sediments with some intrusives. The area lies the contact between the granitic pluton and the meta-sediments. Some meta-volcanics have also been mapped in the and may appear as "sandstone" in well logs. The end of Slagle Creek Road is the contact between the granitic rocks and									
	meta-sediments.  groundwater section database does not contain any permit condition reporting information for this area. There are									
	ral groundwater rights in the area. I have received no well interference complaints from this area.									

2

# 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	Bedrock		$\boxtimes$
2	Bedrock		$\boxtimes$

Basis for aquifer confinement evaluation: <u>Relatively shallow depth to first water, well-fractured nature of aquifer.</u> Aquifer likely progressively more confined with depth.

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 Subst. Into Assume YES	erfer. ed? NO
1	1	Slagle Creek	1340	1320	1320			$\boxtimes$
2	1	Slagle Creek	1322	1320	1350			
1	2	Applegate River	1340	1155	6200			$\boxtimes$
2	2	Applegate River	1322	1155	5400			$\boxtimes$

Basis for aquifer hydraulic connection evaluation: <u>Aquifer head greater than or equal to surface water stage</u>, groundwater discharge to streams supports baseflow during late summer on Slagle Creek and Applegate River.

Water Availability Basin the well(s) are located within: APPLEGATE R > ROGUE R - AT MOUTH

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?
1	1			na	na		45.8		<25%*	
2	1			na	na		45.8		<25%	
1	2			MF249	120		45.8		<25%	
2	2			MF249	120		45.8		<25%	

3

Application: G- 16701 continued

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.

Craitant	attation and infinitations 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: \*Given the two surface water boundaries, the complex nature of the fractured bedrock aquifer, and unknown hydraulic conductivity and storage values, making a suitable estimate from the Jenkins or Hunt analytical models is not appropriate at this time. Many of the model assumptions are not met within this hydrogeological scenario.

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	stributed W SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
well	3 W#	%	<b>%</b>	Wiai %	Apr %	%	%	% %	%	%	%	%	%
Well Q	CEC	7/0	70	70	70	70	70	70	70	70	70	70	70
	ence CFS												
menere	ince Cr5							rozala de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición de la composición dela composición de la composición dela composición dela compos					
Distribu	ited Wells							***************************************					
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
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		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS						-		~	~	~	~	~
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
(A) = To	tal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
(D) = (A	a) > (C)	4	✓	<b>✓</b>	V	√	1	<b>V</b>	1	1	√	1	✓
	/ 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.

(D) = mightight the checkmark for	each month where (A) is greater that	$\Pi(C)$ , $(E)$ – total interference	divided by 80% flow as percentage.
<b>Basis for impact evaluation:</b>			

ppli	cation: G- 16701 continued Date: September 12, 2006
b.	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Warrights 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) 7J
	ii. The permit should contain special condition(s) as indicated in "Remarks" below;
fl	W / GW Remarks and Conditions: The Applegate River, a regional groundwater discharge area due to its position in ow system, is likely to be impacted the greatest from the proposed groundwater use. Slagle Creek is a much smaller drainage and much less incised into the local geology, and is reportedly dry in reaches the some late summer months. The distance between
th	e proposed wells and the river will somewhat delay the impact.  otential for substantial interference was not found as the proposed POA is greater than one-quarter mile from surface water are
	e rate of appropriation does not exceed one percent of the 80% natural streamflow or instream water right.
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D	eferences Used: USGS Applegate topographic map, 1:24,000.
	MIDD CDID 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Viley, Tom, May 2006, verbal communication.
	ney, 10m, may 2000, verbar communication.
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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:	
D5.	<ul> <li>a.  was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.</li> <li>b.  don't know if it met standards at the time of construction.</li> </ul>	
D6. [	<b>Route to the Enforcement Section.</b> I recommend withholding issuance of the permit until evidence of well recons is filed with the Department and approved by the Enforcement Section and the Ground Water Section.	truction
THIS	ECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
D7. [	Well construction deficiency has been corrected by the following actions:	
		200
	(Enforcement Section Signature)	200

Date: September 12, 2006

Application: G- 16701 continued

Application: G- 16701 continued

Water Availability as of 6/1/2006 for

#### APPLEGATE R > ROGUE R - AT MOUTH

Watershed ID #: 249 Basin: ROGUE

Exceedance Level: 80

Time: 13:23

Date: 06/01/2006

Select an Item Number for More Details .....

Item # Watershed ID # Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Sto

..... 266 YES YES YES YES YES YES NO NO NO YES NO YES YES

2 31531008 NO NO NO NO YES NO NO NO NO NO NO NO YES

31531001 NO NO NO NO YES NO NO NO NO NO NO NO YES 3 31531002 NO YES 4

249 NO YES 5 DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Water Availability as of 6/1/2006 for

### APPLEGATE R > ROGUE R - AT MOUTH

249 Watershed ID #:

Basin: ROGUE

Exceedance Level: 80

Time: 13:23

Date: 06/01/2006

	. 0.20					1	
   Mont 		Use and	Stream	Stream		re-  Water	Net
1     2     3     4     5     6     7     8     9     10   11   12   Stor-5	373.00  674.00  792.00  662.00  591.00  222.00  91.80  59.00  45.80    56.00	4.97  438.00  437.00  459.00  41.60  57.20  75.50  62.70  41.90  15.30  3.48  4.26	368.00  235.00  354.00  203.00  549.00  165.00  16.20  -3.74  3.87  40.70  143.00  240.00	0.00  0.00	300.00  300.00  340.00  340.00  360.00  120.00  120.00  120.00  360.00  360.00  300.00	 68.00  -64.70  14.40  -137.00  189.00  -195.00  -104.00  -124.00  -116.00  -217.00	Ol
			'		'	'	'

# DETAILED REPORT OF INSTREAM REQUIREMENTS

Water Availability as of 6/1/2006 for

APPLEGATE R > ROGUE R - AT MOUTH Watershed ID # 249 Basin: ROGUE

	Watershed ID #: 249 Time: 13:23				Basin:	ROGU D	ate: 0	Exceedance Level: 80 6/01/2006			
	S   APP # MF 249  0  0						0	0  MAXIMUM			
	Statu	ıs  Cert.	l					-    			
i	1 I	300.00	0.00	0.00	0.00	0.00	0.00	0.00  300.00			
i	2	300.00	0.00	0.00	0.00	0.00	0.00	0.00 300.00			
i	3	340.00	0.00	0.00	0.00	0.00	0.00	0.00 340.00			
ĺ	4	340.00	0.00	0.00	0.00	0.00	0.00	0.00  340.00			
ĺ	5	360.00	0.00	0.00	0.00	0.00	0.00	0.00  360.00			
ĺ	6	360.00	0.00	0.00	0.00	0.00	0.00	0.00  360.00			
ĺ	7	120.00	0.00	0.00	0.00	0.00	0.00	0.00 120.00			
İ	8	120.00	0.00	0.00	0.00	0.00	0.00	0.00 120.00			
ĺ	9	120.00	0.00	0.00	0.00	0.00	0.00	0.00 120.00			
	10	360.00	0.00	0.00	0.00	0.00	0.00	0.00  360.00			
	11	360.00	0.00	0.00	0.00	0.00	0.00	0.00 360.00			
	12	300.00	0.00	0.00	0.00	0.00	0.00	0.00 300.00			

	GW Wa	ater Level Input -	Standard								
	g Log	Csg Diam Field	6	TRS	37.00 S./	/4.00 W31 DCC.					
State Obs Well Well Tag	Field	Max Depth				JAC	ZK				
Use IRRIGATION						APPLEGAT	E.				
Owner Well Name				Lsd Elev	1335	LsdAccuracy	20				
Owner GARY CONNER			Call		Ph Home Ph Work	541-846-0216					
Owner			Before		Ph Cell						
Comments			Visit		FAX						
			Y	Call F	First Phone	541-846-02	16				
Well Address 1494 KUBLI ROAD											
Sow				MP Reprted		Export					
Num Logid Source Org	SourceOWRD	Date	Time I	Hght Wtr Lv		WL BLS Method					
JACK 30970 DRILLER	WELL LOG	07/09/1991		26	)	26.00 UNKNOWN					
JACK 30970 OWRD	WELL LOG	07/11/2006	8:26	1.15	12.88	12.88 ETAPE					

**GW Water Level Input - Standard** TRS ....37.00 S./ ....4.00 W.- ...31 DC... Logid JACK 14418 Csg Diam Field .... Well Tag Log ..... Well Tag Field ..... Max Depth ..... JACK State Obs Well ..... County ... APPLEGATE Quad24 Use IRR & DOMESTIC Lsd Elev ......1375 LsdAccuracy .....20 Owner Well Name Ph Home 541-846-0216 Owner GARY AND CONNER Call Ph Work Contact Before Ph Cell Owner Visit FAX Comments ....Y Call First Phone 541-846-0216 Well Address 1494 KUBLI ROAD MP Reprted Verified Export Sow Wtr Lvl WL BLS WL BLS Method Hght Num Logid Source Org SourceOWRD Date Time 8 8.00 UNKNOWN JACK 14418 DRILLER WELL LOG 05/08/1989

JACK 14418 OWRD GRANTS PASS 07/11/2006 8:40 1.70 35.47 35.47 ETAPE