OAR 6 welfare	ECT:			Hydrology	Section _	Doug	ins mount	TOR COL				
PUBL DAR 6 welfare		Applica	·tian O				ewer's Name					
OAR 6 velfare	IC INTE		ition G-	15793		Su	persedes re	view of	April 9,	<b>2003 (G</b> Date of Re		
	90-310-1 e, safety a	30 (1) Th nd health ether the p	e Depart as descr presumpt	ribed in ORS tion is establ	presume that 5 537.525. I ished. OAR	at a propos Departmen R 690-310-	ed groundwa t staff review 140 allows th	ground wat ne proposed	ensure the pres er applications use be modified icies in place at	under OA l or condi	R 690-31 tioned to	10-14 meet
A. <u>GE</u>	NERAL	INFOR	RMATIO	ON: A	pplicant's	Name:	Weathers					
A1.	Applica	int(s) seel	k(s)04	5 cfs fro	m 1	well	(s) in the	Rogue				Basi
						1.1			hady Cove			
A2.	Propose	ed use:	Irr	, 3 ac		Seas	sonality:	Mar 1- O	et 31			
A3.	-								l wells as such	under lee	aid).	
	T			oposed	Proposed		Location		ocation, metes a			nle:
Well		ogid K 55505	A	quifer* DROCK	Rate(cfs)	(T/	R-S QQ-Q)		2250' N, 1200	E fr NW	cor S 36	
2	JACK	. 22202	BEI	DROCK	0.045	358/0	W-08 NE-S	W	1600'N, 475'	W 1r S1/4	cor S 8	
3												
5						+		_				
* Alluvi	um, CRB,	Bedrock			•							
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval	Casing Intervals	Liner Intervals	Perforations Or Screens	Well Yield	Draw Down	Tes Typ
1	1390	84	33	6/19/02	180	0-18	0-18	4-180	140-180	40	180	A
			29.92	2/3/03						20	9	P
Use data	a from app	lication for	r proposed	d wells.								
A4.	Comme	nts: Addi	itional w	ater level d	ata from a	n aquifer	test					
											-	
A5. 🗌	manage (Not all	basin rul	ground wa	ater hydraul	ically conne isions.)	ected to sur	Basin ru	are, or	to the developm are not, activ	ent, class: ated by th	ification a	and/or ation.
<b>46</b> □	Walter	#						-(-)	er limited by an	1		

oplic	ation	G15793	continued	Date	June 18, 2003	
GR	ROUN	ND WATER AVAILAB	ILITY CONSIDERATION	S, OAR 690-310-130,	400-01 <mark>0, 410-</mark> 0	070
1.	Bas	ed upon available data, I ha	ve determined that ground wate	$\underline{\mathbf{r}}^*$ for the proposed use:		
	a.	period of the proposed	is not over appropriated, or l use. * This finding is limited tribed in OAR 690-310-130;			
	b.		kely be available in the amounts and water portion of the inju			
	c.	☐ will not or ☐ will li	kely to be available within the c	apacity of the ground wat	er resource; or	
	d.	i.  The permit sl ii.  The permit sl	ditioned, avoid injury to existing mould contain condition #(s) mould be conditioned as indicated an accordance of the condition of the	<b>7B, 7F, 7J</b> ed in item 2 below.		resource:
2.	a.	☐ Condition to allow g	round water production from no	deeper than	ft. below l	and surface;
	b.	☐ Condition to allow g	round water production from no	shallower than	ft. below l	and surface;
	c.	Condition to allow gr	ound water production only from	m the ft. belo	ow land surface;	ground
	d.	occur with this use and	is necessary to accomplish one of without reconstructing are cite until evidence of well reconstru	d below. Without reconst	truction, I recomm	end withholding
			ted to water availability– that is within the capacity of the resour			
	B3.	Ground water availability r	emarks: Condition: Requi	ire permittee to install an	nd maintain a pro	perly functionin
	See	Ferrero Geologic report f	For aquifer test data			
		zerrero Georogio reporti	or aquiter test until			
	_					
	_					
	-					

horizon assume	ntal dis	tance le hydrau	ss than ! lically c	1/4 mi	le from a su	and hydraulic rface water so surface water	ource that pr	roduce water	from ar	unc	onfined aquif	er shall be	
Well	s evalus	ated for		e Wa	ter Name	GW Elev	SW Elev	Distance (ft)	(	Conn	ulically ected?	Potenti Subst. Ii Assur	nte
						ft msl	ft msl	(11)	YES	NO	ASSUMED	YES	110
1	1	Rogu	e River	•		1357	1295	2125	$\square$				
	-	-											
<u></u>	-	+					-		<u> </u>	뷰			
<u> </u>	-	+					-		H	뷰	H	H	
<b>—</b>	-	-					-		H	屵			
<b>—</b>	_	-					+		H	片	H	H	
	1	1							H	+	H	H	
		1							H	H	H	H	
	<u> </u>	+-							H	Ħ	H	H	
									H	一片	H	H	
					ion evaluati er the Rogu	on: Ro					for GW in t well is above		
geology river. 590-09-( connecte are perting	040 (4 ed and nent to ested r	): Evalution ():	nation o an 1 mi face wa	f streele from ter so	ear the Rogue earn impacts our a surface ource, and notes that the surface ource, and notes the surface of the	for each well water source to lower SW	that has be. Limit eval sources to ve pertinent	en determine uation to inswhich the stre	d or ass tream ri	umed ghts a ler ev	I to be hydra and minimum raluation is tri	ulically a stream flotibutary. Co	of t
geology river. 590-09-( connecte are perting	040 (4 ed and nent to ested r	): Evalution ():	nation o an 1 mi face wa	f streele from ter so	ear the Rogue earn impacts our a surface ource, and notes that the f 80% natur Any checke	for each well water source to lower SW al flow for the down indi	that has be Limit eval sources to ve pertinent vecates the we	en determine uation to ins which the stre Water Availa ell is assume	d or ass tream ri eam und bility B d to hav	umed ghts ler ev asin e the	I to be hydra and minimum raluation is tri	ulically a stream flot ibutary. Co is not dist	ows omp
geology river. 590-09-0 connector are perting the requestion by well,	040 (4 ed and nent to ested r	): Evalution ():	nation o an 1 mi face wa nst the 1 r each v	f stree le fronter so well.	ear the Rogue earn impacts our a surface ource, and notes that the f 80% natur Any checke	for each well water source to lower SW	that has be Limit eval sources to we pertinent to cates the wo	en determine uation to ins which the stre Water Availa ell is assumed 80%	d or ass tream ri eam und bility B d to hav	umed ghts: ler ev asin e the	I to be hydra and minimum raluation is tri (WAB). If Q potential to c	ulically a stream flotibutary. Cotis not distrause PSI.	ows omprib
geology river. 590-09-( connecte are perting	040 (4 ed and nent to ested ruse fui	tinuous  ): Evaluate less the that surate againate for	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue earn impacts our a surface ource, and notes that the f 80% natur Any checke	for each well water source tot lower SW al flow for the d box indi  Instream Water	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine uation to ins which the stre Water Availa ell is assume	d or ass tream ri eam und bility B d to hav	umed ghts a ler ev asin e e the	I to be hydra and minimum raluation is tri (WAB). If Q potential to continue in the continue i	ulically a stream flotibutary. Co is not dist cause PSI.  Pote for S	ows omprib
geology river. 590-09-0 connector are perting the requestive requestive well,	040 (4 ed and nent to ested ruse full	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue ear impacts our a surface ource, and ref 80% natur Any checke Instream Water Right ID	for each well water source tot lower SW al flow for the d box indi  Instream Water Right Q (cfs)	that has be Limit eval sources to we pertinent to cates the wo	en determine uation to inswhich the stre Water Availa ell is assumed 80% Natural	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	I to be hydra and minimum raluation is tri (WAB). If Q potential to c	ulically a stream flotibutary. Cotis not distrause PSI.	ows omprib
geology river. 590-09-0 connector are perting the requestion by well,	040 (4 ed and nent to ested ruse full	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	eam impacts om a surface ource, and n f 80% natur Any checke  Instream Water Right	for each well water source to tlower SW al flow for the d one box indi  Instream Water Right Q	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine uation to ins which the stre Water Availa ell is assume  80% Natural Flow	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	I to be hydra and minimum raluation is tri (WAB). If Q potential to continue in the continue i	ulically a stream flotibutary. Cois not distrause PSI.  Pote for S Inte	ows omprib
geology river. 590-09-0 connector are perting the requestive requestive well,	040 (4 ed and nent to ested ruse full	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue ear impacts our a surface ource, and ref 80% natur Any checke Instream Water Right ID	for each well water source tot lower SW al flow for the d box indi  Instream Water Right Q (cfs)	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine tuation to instance Availa ell is assumed 80% Natural Flow (cfs)	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	to be hydra and minimum valuation is tri (WAB). If Q potential to componential	ulically a stream flotibutary. Cois not distrause PSI.  Pote for S Inte	ows omprib
geology river. 590-09-0 connector are perting the requestive requestive well,	040 (4 ed and nent to ested ruse full	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue ear impacts our a surface ource, and ref 80% natur Any checke Instream Water Right ID	for each well water source tot lower SW al flow for the d box indi  Instream Water Right Q (cfs)	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine tuation to instance Availa ell is assumed 80% Natural Flow (cfs)	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	to be hydra and minimum valuation is tri (WAB). If Q potential to componential	ulically a stream flotibutary. Cois not distrause PSI.  Pote for S Inte	ows omprib
geology river. 590-09-0 connector are perting the requestive requestive well,	040 (4 ed and nent to ested ruse full SW #	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue ear impacts our a surface ource, and ref 80% natur Any checke Instream Water Right ID	for each well water source tot lower SW al flow for the d box indi  Instream Water Right Q (cfs)	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine tuation to instance Availa ell is assumed 80% Natural Flow (cfs)	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	to be hydra and minimum valuation is tri (WAB). If Q potential to componential	ulically a stream flotibutary. Cois not distrause PSI.  Pote for S Inte	ows omprib
geology river. 590-09-0 connector are perting the requestive requestive well,	040 (4 ed and nent to ested ruse full SW #	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue ear impacts our a surface ource, and ref 80% natur Any checke Instream Water Right ID	for each well water source tot lower SW al flow for the d box indi  Instream Water Right Q (cfs)	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine tuation to instance Availa ell is assumed 80% Natural Flow (cfs)	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	to be hydra and minimum valuation is tri (WAB). If Q potential to componential	ulically a stream flotibutary. Cois not distrause PSI.  Pote for S Inte	ows omprib
geology river. 590-09-0 connector are perting the requestive requestive well,	040 (4 ed and nent to ested ruse full SW #	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue ear impacts our a surface ource, and ref 80% natur Any checke Instream Water Right ID	for each well water source tot lower SW al flow for the d box indi  Instream Water Right Q (cfs)	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine tuation to instance Availa ell is assumed 80% Natural Flow (cfs)	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	to be hydra and minimum valuation is tri (WAB). If Q potential to componential	ulically a stream flotibutary. Cois not distrause PSI.  Pote for S Inte	ows omprib
geology river. 590-09-0 connector are perting the requestive requestive well,	040 (4 ed and nent to ested ruse full SW #	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue ear impacts our a surface ource, and ref 80% natur Any checke Instream Water Right ID	for each well water source tot lower SW al flow for the d box indi  Instream Water Right Q (cfs)	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine tuation to instance Availa ell is assumed 80% Natural Flow (cfs)	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	to be hydra and minimum valuation is tri (WAB). If Q potential to componential	ulically a stream flotibutary. Cois not distrause PSI.  Pote for S Inte	ows omprib
geology river. 690-09-0 connector are perting the requestive well,	040 (4 ed and nent to ested ruse full SW #	tinuous  ): Evaluate less the that surate again larate for the well-	nation o an 1 mi face wa nst the 1 r each v	f streele from ter so well.	ear the Rogue ear impacts our a surface ource, and ref 80% natur Any checke Instream Water Right ID	for each well water source tot lower SW al flow for the d box indi  Instream Water Right Q (cfs)	that has be. Limit eval sources to ve pertinent vecates the week pertinent vecates the vecates vecates and vecates ve	en determine tuation to instance Availa ell is assumed 80% Natural Flow (cfs)	d or ass tream riceam und bility B d to hav	umeceghts a sin of the	to be hydra and minimum valuation is tri (WAB). If Q potential to componential	ulically a stream flotibutary. Cois not distrause PSI.  Pote for S Inte	ows omj rib

Date\_\_\_\_\_June 18, 2003

Unconfined

Confined

Application G- 15793 continued

Bedrock

Well 1

C1. **690-09-040 (1):** Evaluation of aquifer confinement:

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

Aquifer or Proposed Aquifer

Application (	G- 1	15793	continued
1 ipplication .		10170	Commudea

1%WAB - Interf.

Date	June 18, 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.

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?
				7 🔲				

Comments:	Well is hydraulically connected but the use does not exceed the prescriptive standards of (4).

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), (c) and (d), which are not included on this form. For simple analytical models, model non-distributed wells once as a single well at the full rate using the closest hydraulically connected stream beyond one mile. For distributed wells, model each well once at the identified rate per well using the closest hydraulically connected stream beyond one mile. Adjust aquifer parameters to reflect uncertainties in streambed conductance, partial penetration, etc. Calculate the difference of the **1% WAB flow – Interference as CFS**. Negative numbers indicate those months where calculated interference exceeds 1% of natural stream flow. Under "basis" identify which WAB was used and attach the ground water model parameters/results and water availability table to this review.

Non-Di	stributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1			0.0	.02	.05	.09	.13	.17	.20	.24	.26	.27
		.27	.24										
Well Q a	is CFS	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
Interfere	nce CFS	.012	.011	0	.001	.002	.004	.006	.007	.009	.011	.012	.012

Interferen	ce CFS	.012	.011	0	.001	.002	.004	.006	.007	.009	.011	.012	.012
Distribu	ted Wells	•											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Well Q as	CFS		-					-					-
Interferen													
Well Q as	CFS							-				-	-
Interferen													
Well Q a	is CFS		-										-
Interfere	nce CFS												
Well Q a	s CFS												-
Interfere	nce CFS												
Well Q a	s CFS												1
Interfere	nce CFS												
Total Int	erf. CFS	.012	.011	0	.001	.002	.004	.006	.007	.009	.011	.012	.012
1 % WA		1860	2260	2300	2420	2500	1670	1250	1080	1020	1080	1210	1620

oack to 2 gpd/ft2 to r		01 1110 1110 1111			
690-09-040 (5) (b) Rights Section.	The potential to impa	ir or detrimentally af	fect the public interes	t is to be determin	ned by th
under this permit ca i. The per	oned, the surface water n be regulated if it is for mit should contain cond	nd to substantially inte ition #(s)	rfere with surface wate	r:	ground wa
ii. The per	mit should contain spec	ial condition(s) as indic	cated in "Remarks" belo	ow;	
V / GW Remarks					
V / GW Remarks					
V / GW Remarks					
V / GW Remarks					
V / GW Remarks					
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V / GW Remarks					

Date June 18, 2003

Version: 06/17/2003

Application G- 15793 continued

Appli	ication G15793continued	DateJune 18, 2003
D. <u>W</u>	VELL CONSTRUCTION, OAR 690-200	
D1.	Well #: Logid:	
D2.	THE WELL does not meet current well construction standards base  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 original construction or most recent modification.  b. □ I don't know if it met standards at the time or	ation.
D6.	Route to the Enforcement Section. I recommend withholding issuance is filed with the Department and approved by the Enforcement Section and	e of the permit until evidence of well reconstruction nd the Ground Water Section.
THI	S SECTION TO BE COMPLETED BY ENFORCEMENT PERS	SONNEL
D7.	Well construction deficiency has been corrected by the following actions	3:
		, 200
	(Enforcement Section Signature)	
D8.	☐ Route to Water Rights Section (attach well reconstruction logs to th	nis page).

# DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION Water Availability as of 6/18/2003 for ROGUE R > PACIFIC OCEAN - AB HOG CR

Watershed ID #: 31530708 Basin: ROGUE Exceedance Level: 80 Time: 08:55 Date: 06/18/2003

İ	Month	Natural	CU + Stor	CU + Stor	Expected	Reserved	Instream	Net
		Stream	Prior to	After	Stream	Stream	Water	Water
		Flow	1/1/93	1/1/93	Flow	Flow	Rights	Available
-								
ĺ	1	1860.00	790.00	0.30	1070.00	0.00	0.00	1070.00
	2	2260.00	1600.00	0.40	659.00	0.00	0.00	659.00
	3	2300.00	1370.00	0.40	931.00	0.00	0.00	931.00
	4	2420.00	863.00	0.29	1560.00	0.00	0.00	1560.00
	5	2500.00	306.00	0.26	2190.00	0.00	0.00	2190.00
	6	1670.00	316.00	0.02	1350.00	0.00	0.00	1350.00
	7	1250.00	321.00	0.02	929.00	0.00	0.00	929.00
	8	1080.00	315.00	0.02	765.00	0.00	0.00	765.00
	9	1020.00	303.00	0.02	717.00	0.00	0.00	717.00
	10	1080.00	243.00	0.02	837.00	0.00	0.00	837.00
	11	1210.00	287.00	0.02	923.00	0.00	0.00	923.00
	12	1620.00	303.00	0.14	1320.00	0.00	0.00	1320.00
	Stor	1640000	419000	115	1220000	0	0	1220000

#### stream\_depletion\_2\_41.xls

#### Input Data:

Variable	Name	Minimum	"Best"	Maximum	Unit
Well Owner or Well Number	Well		Weathers		
X Coord. for X-Section (Head Distribution)	X		0		[ft]
Perpendicular Distance From Well to Stream	а		2,125		[ft]
Net Steady Pumping Rate	Q		20		[gpm]
Hydraulic Conductivity	K	0.20	2.00	20.00	[gpd/ft*ft]
Aquifer Thickness	b	25	25	25	[ft]
Well Depth	d		180		[ft]
Storativity	S		0.00100		
Effective porosity	n		0.01000		
Hydr. Grad. Perpend. to Stream (must be > 0)	i	0.00095	0.00095	0.00095	
Time Since Pumping Started	time		30.00		[days]

#### Output Data:

						_						
General Output:												
Transmissivity	Т	5	50	500	[gpd/ft]	= K*b						
Hydraulic Conductivity	K	0.20	2.00	20.00	[gpd/ft*ft]	7						
		0.03	0.27	2.67	[ft/day]							
		9.38E-08	9.38E-07	9.38E-06	[m/s]							
Average linear velocity	ALV	0.00	0.03	0.25	[ft/day]	= K*i/						
		0.93	9.28	92.78	[ft/yr]							
Ambient Flux at River per Foot	dQ	0.0000	0.0000	0.0003	[gpm/ft]	] = K*b						

		i				
Transient Stream Depletion Output:						
k	SDTr_k	56.2948	5.6295	0.5629		= ((a^2*S)/(4Tt))*7.48
Transient Stream Depletion (Theis/Jenkins)	SDTr	0.00	0.00	0.29		= erfc SQRT(a*a*S)/4Tt)
Transient Induced Infiltration (Theis/Jenkins)	IITr					1

TO:			Rights S						A	PRIL 09		, 2	200 3	
FROM	<b>[</b> :	Groun	d Water	/Hydrology	Section	I	IAN G	AL	1					
SUBJI	ECT:	Applic	ation G-	15793	3	Rev Su	iewer's Name persedes re	eview	of	AUGUST 1	5 Z		,	
oar 6 welfare to deter the pres	<b>90-310-1</b> , safety a mine who	30 (1) The nd health ether the criteria.	he Depar n as descr presumpt This revi	ribed in ORS tion is establ iew is based	oresume the 537.525. ished. OAL upon ava	at a propos Departmen R 690-310- ilable infor	ted groundwat staff review 140 allows the mation and	w grouthe produced a great with the produced a great with the great was a great with the great was a great with the great was a great was a great with the great was a great w	und war oposed ncy pol	ensure the prester applications use be modified licies in place at the place and the place and the place are the place and the place are the p	ervation under OA d or cond t the time	of the pu R 690-3 itioned to	10-140 meet	
A1.	Applica	int(s) see	k(s) <u>0.0</u>	45 cfs from				•					Basin,	
	ROGUEsubbasin Quad Map: SHADY COVE													
A2.	Propose	ed use:	IRRIGI	ATION.	3 ACRE	Seas	sonality: 🖊	1AR	CH 1	- OCTOBE	R31			
A3.	Well an	d aquifer	data (at	tach and nu	mber logs	for existin	g wells; ma	ırk pı	roposeo	d wells as such	under lo	gid):		
Well	Logid Proposed Aquifer*				Proposed Rate(cfs	) (T/	Location R-S QQ-Q)			ocation, metes a 2250' N, 1200'	E fr NW	cor S 36		
2	JACK S	K 55505 BEDROCK				355/0	IW-080	ca	1600'	N, 475'W F	r 54	or S	8	
3														
5														
* Alluvi	um, CRB,	Bedrock												
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval	Casing Intervals		iner ervals	Perforations Or Screens	Well Yield	Draw Down	Test Type	
	1390	84	33	02/03/2003		0-18	+2-18	-	-180	140-180	40	180	AIR	
			27.72	02/04/2005	DATA	FROM A	QUIFER	TES	1		20	9	PUMP	
					,									
Use data	from app	lication fo	r proposed	d wells										
A4.														
A5. 🗌	manage (Not all	ment of g	ground wa	Ro ater hydrauli in such provi	cally conn	ected to sur	face water	☐ ar	e, or	to the developm are not, activ	ated by th	is applic	ation.	
A6. 🗌	Name o	f adminis	strative ar	,, rea:				ıp(s) a	an aqui	fer limited by an	administ	rative res	striction.	

Application G-	157	93	continued

AF	PR	14	09	. 2003
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## B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130 (b) (c)

Bas	ed 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 any period of the proposed use;
b.	will not or will likely be available in the amounts requested without injury to prior ground water rights;
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;
<b>c</b> .	Condition to allow ground water production only from the ground water reservoir between approximately ft. and ft. below land surface;
	■ 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):
Gro	und water availability remarks: <u>CONDITION:</u> Require permittee to install and maintain properly hunchoning, totalizing flow meter.
X	- See Ferrero Geologic Report for aquifer totals data
_	
_	
_	

### 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
	BEDROCK	X	
	•		
Basis for	aquifer confinement evaluation: Aquifer at least locally	onfined their	
unco	should bake on water level rise abv. Wbz	and approx. 28	Feet of
"bed	ash " above whz.	. , ,	

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 ½ 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.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES NO ASSUMED	Potential Subst. Inte Assume YES	erfer. ed? NO
1	/	ROGUE RIVER	1357	1295	1950			X
					2125			
		4						

Basis for aquifer hydraulic connection evaluation: Roger for ground water in the area. Bed under the Roger River from the stage of Roger River.	e River is the regions	al discharge area location
for ground water in the area, Bed	TOLK alplosy is com	tinuous to and
under the Rowe River from the	ite. Static water les	ell in well greater than
stage of logic River.		<i>J</i>

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. If Q is not distributed by well, use full rate for each well. If modeled, include description and model parameters in Comments (C3b). Any checked box indicates the well is assumed to have the potential to cause substantial interference with surface water.

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				59816	1,000		1020			
				-	,		•			

Appli	cation G-	157	93	(	continued	l				_	APR	160	9	, 2	00_3
C3b.	connecte	040 (4): ed and leson and lim	s than	1 mile fr	om a surf	face wat	total appr er source	copriation Comple	for all	wells de	termined o	or assum d amon	ned to be g wells. (	<b>hydrau</b> )therwi	lically se same
	-	SW #		Qw > 5 cfs?	Instrea Water Right ID	r N	stream Water ight Q (cfs)	Qw > 1% ISWR?	N:	80% atural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Int	erference 30 days (%)	for In	subst. terfer. sumed?
	Commen	nts:													
C4a.	690-09-0	<b>940 (5):</b> It waluation t	Estimate to one y	ed impacted impacted are of pu	ts on surf mping.	face water	er source	s as perce	ent or qu	ualitative	e fraction*	of prop	osed pun	nping ra	ite.
	Well	SW#	Jan VL	Feb VL	Mar	Apr L	May	Jun 	Jul	Aug	Sep L	Oct	Nov VL	Dec VL	
		TL= Very I		n: Se	e Fellwed 1	rrero	Geolo	gic Re	port ka	- Ren	%). tal nel 25 205 Wb7	on f			
	indirect c surface w (a) The The	connection vater avail potential t potential t	betwee ability in to reducto reduc	n surface n the firs e surface e surface	e water at t year of water av	nd grour pumping vailabilit vailabilit	nd water; g. Do not ty in ty in	⊠ High t equate " OG-UE	denote Low" a	s hydrau nd "Higl ER	Low den lic connec	etion than C4a ar	t would l	or 🗖	duce
	The	potential t s: <u>Rosu</u>	o reduc e R	e surface	water av	vailabilit	ty in	re Doi	int. S	Tatic	gw ele	is	Low	or 🔲	

(b) The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

cation G	15 +93 continued	i	APKIL 09	, 200
690-09-0	<b>40 (5):</b> . Evaluation of paragraph	s under subsection 5 continued.		
(c) The	percentage of appropriation in the	e first year of use that will be at the expe	nse of surface water 25	-90
sho	w stream depletion e	using aquifer transmission-	2596 in 90 blay	S.
	,			
(d) The t	iming of interference will be	mmediate (within one year), or del	layed;	
Basis	Relatively shallow f	low system ~2125 feet - Mat would eventually disc Kaguifer increases stream	briver well use	willvery
-11	ally capture ground water	Very Brischers sheem	a de Alehous	ives elim
	The state of the s	THE PROPERTY SPECIAL S	7 osepanos 7	
(e) The p	potential for cumulative adverse in	npacts: A graphical distribution of F		
	Impacted stream	Impacted basin or sub-basin	Existing Ground W	
C				
Com	ments:			
surface interfer	water from interference. If the gro	nterfere with surface water. Well reconst bund water use under this permit is found thend withholding issuance of the permit Ground Water Section.:	d to have the potential for s	substantial
The we	ll should be reconstructed as fo	llows:		
V / CW B	Remarks			
W/GW N	Cental K5			
1	-			
				Version: 04/0

AP	R	11	09	i
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2003

## D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:	Logid:	
D2.	a.	LL does not meet current well construction standards based upon: view of the well log; eld inspection by port of CWRE her: (specify)	
D3.	a.	construction deficiency: constitutes a health threat under Division 200 rules; commingles water from more than one ground water reservoir; commits the loss of artesian head; cormits the de-watering of one or more ground water reservoirs; cher: (specify)	
D4.	THE WEL	L construction deficiency is described as follows:	
	$\overline{}$		
D5.	THE WEI	a. was, or was not constructed according to the standards in effect at original construction or most recent modification.	the time of
		b.   I don't know if it met standards at the time of construction.	
D6. □	Route to t is filed with	<b>he Enforcement Section.</b> I recommend withholding issuance of the permit until eviden the Department and approved by the Enforcement Section and the Ground Water Section	nce of well reconstruction ion.
THIS S	SECTION	TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
D7.	] Well constr	ruction deficiency has been corrected by the following actions:	
	(E	nforcement Section Signature)	, 200
D8.	Route to V	Water Rights Section (attach well reconstruction logs to this page).	
		r F F F	

TO:	Water Rights Section	AUGUST 15 , 200 Z
FROM	,	
SUBJI	ECT: Application G-15793	eviewer's Name
<u>GROU</u> 1.	PER THE Basin rule feet/mile of a surface water source ( source hydraulically connected to the surface water source)	es, one or more of the proposed POA's is/is not within ) and taps a groundwater
2.	BASED UPON OAR 690-09 currently in effect,	I have determined that the proposed groundwater use
	namely	protect the surface water from interference:
	NDWATER AVAILABILITY CONSIDERATION	
3.	capacity of the resource; or  bwill not be available in the amount requestive capacity of the resource; or  cwill, if properly conditioned, avoid injury i The permit should contain conditioned.	quested without injury to prior rights and/or is within the lested without injury to prior rights and/or is within the or to existing rights or to the groundwater resource: ition #(s); stall condition(s) as indicated in "Remarks" below;
4.	land surface;  cThe permit should allow groundwater permit groundwater reservoir between approx  dWell reconstruction is necessary to acceeOne or more POA's commingle two or	roduction from no deeper than feet below roduction from no shallower than feet below roduction only from the feet and feet below land surface; complish one or more of the above conditions. more sources of water. The applicant must select one ne proportion of water to be produced from each source.
REMA	RKS:	RECEIVED
		AUG 1 9 2002  WATER RESOURCES DEPT. SALEM, OREGON

WELL	CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)
5.	THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:  areview of the well log;  bfield inspection by;  creport of CWRE;  dother: (specify)
6.	THE WELL construction deficiency:  aconstitutes a health threat under Division 200 rules;  bcommingles water from more than one groundwater reservoir;  cpermits the loss of artesian head;  dpermits the de-watering of one or more groundwater reservoirs;  eother: (specify)
7.	THE WELL construction deficiency is described as follows:
8.	THE WELL  a was constructed according to the standards in effect at the time of original construction or most recent modification.  b was not constructed according to the standards in effect at the time of original construction or most recent modification.  c I do not know if it met standards at the time of construction.
A	I recommend including the following condition in the permit: "No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."  I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.  REFER this review to Enforcement Section for concurrence.
I conc	THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL ur in G/H's recommendation A or B above relating to conditioning or withholding the permit.
	, 200, 200
	ot concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the ng reasons:
	, 200
	(Signature)

## Water Resources Department

M	ЕМО							911611	STIS		02		
	O'COM	G	w: <u></u>	on G	GA ver's Name)	u	— — Evalua	tion			e		
	Ye No	Th	e sourc	e of app	ropriati	on is wi	thin or	above a	Scenic	Waterv	vay		
X C	Ye. No	Use the Scenic Waterway condition (Condition 7J).											
PRI	FPONIC	FDAN	CE OE	EVIDE	NCE EI	NIDING	(61						
At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.													
Exercise of this permit is calculated to reduce monthly flows in Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which urface water flow is reduced.													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
l	C)				100						RE	ECEI	VED

AIIG 1 9 2002 WATER RESOURCES DEPT. SALEM, OREGON