Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

. , 0,
FILE # # G- 17550
ROUTED TO: Water Right
TOWNISHIP/
RANGE-SECTION: 45/2E-31
CONDITIONS ATTACHED?: [4 yes [] no
REMARKS OR FURTHER INSTRUCTIONS:
see conditions on g 2.
Baylawari T 11 le #

WATER RESOURCES DEPARTMENT

MEM	10							Ju	ly :	31	20 <u>12</u>
TO:			cation (
FROI SUBJ	M: ÆCT:		J. (R c Water		Name) iterfere	— nce Eva	luation	ľ			
	_YES	The so	ource of	approp	riation i	s within	ı or abo	ve a Sce	enic Wa	terway	
	YES NO	Use th	e Sceni	c Water	way coi	ndition ((Conditi	on 7J)			
-	interfecture interfecture Details	erence wated into	vith surferferences 835, the vith surferent is unosed us	ace wat e is dist Ground ace wate nable to e will n	er that c ributed d Water er that c	ontribute below. Section ontribute ther bly red	tes to a state to a st	Scenic V ble to ca scenic w reponde surface	Waterwalculate vaterwalerance of water	ground y; there of evide flows	water fore,
Calcula calcula informi Exerci	ted, per c ng Water se of th	rcentage riteria in Rights th is permi	of consun 390.835, at the De t is calc	iptive use do not fii partment ulated t	e by mont. Il in the to is unable o reduce	able but c to make e month	heck the a Prepor ly flows	"unable" derance s in	option a of Eviden		s g. Scenic
	way by surface		_		express	ed as a p	oroporti	on of th	e consu	mptive	use by
Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights S	ection		Date July 31, 2012								
FROM	:	Groun	d Water/	Hydrology	Section _									
SUBJE	CT:	Applic	cation G-	17550			ewer's Name persedes re	eview of		Date of Re	view(s)			
OAR 69 welfare, to determ the press	safety armine when umption of NERAL	30 (1) The day of the ther the criteria.	the Depart h as descr. presumpti This revie	ibed in ORS ion is establicew is based ON: Ap	resume that 537.525. D shed. OAR upon avail oplicant's N	t a propose epartment 690-310- able infor	ed groundw staff review 140 allows mation and Marlys Pa	w ground wate the proposed to d agency police		under OAd or condit the time	R 690-31 tioned to of evalu Clackan	0-140 meet ation.		
A1.		nt(s) see <u>Molalla</u>		24 cfs fron				<u>Willamette</u> uad Map: <u>M</u>	olalla			_ Basin,		
A2. A3.	Propose	d use	lrri er data (att	gation ach and nui		Seas or existin	onality: g wells; ma	March 1 – (ark proposed	October 31 wells as such					
Well	Logid		Applicant Well #	Propos	ed Aquifer*	Prop Rate	(cfs)	Location (T/R-S QQ-	·Q) 225	ation, mete 0' N, 1200'	E fr NW c	or S 36		
2	CLAC 14	260	!	Al	luvium_	0.6	24	04S/02E-31 SV	V-NW 280	'S, 1770' W	fr SW cor DLC 41			
3 4														
* Alluviı	ım, CRB,	Bedrock												
Well	Well Elev ft msl 268	First Water ft bls 73	SWL ft bls	SWL Date 3/29/1973	Well Depth (ft) 228	Seal Interval (ft) 0-23	Casing Intervals (ft) 0-228	Liner Intervals (ft)	Perforations Or Screens (ft) 73-78 128-148 190-224	Well Yield (gpm) 50	Draw Down (ft)	Test Type B		
Use data A4.			or proposed							_				
A5. 🗌	manager (Not all	ment of basin ru nts: <u>The</u>	ıles contai e pertinent	ater hydraulion n such provis rules (OAR	cally conne sions.) 690-502-0	cted to sur 240) do no	face water ot apply bec	\square are, or \boxtimes	o the developn are not, active produces from	ated by th	nis applica onf <u>ined to</u>	ation.		
A6. □	Name o	f admini	istrative ar	ea:					er limited by a					
	-													

Version: 08/15/2003

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

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 period of the proposed use. * This finding is limited to the ground water portion o determination as prescribed in OAR 690-310-130;	be over appropriated during any f the over-appropriation
b.	will not or will likely be available in the amounts requested without injury to p is limited to the ground water portion of the injury determination as prescribed in C	rior water rights. * This finding OAR 690-310-130;
c.	will not or will likely to be available within the capacity of the ground water re	esource; or
d.	will, if properly conditioned, avoid injury to existing ground water rights or to the i. The permit should contain condition #(s) 7B, 7C, Large water use repo 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.	rting with a meter on each well
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 water reservoir between approximately ft. and ft. below leads to the ft. below l	ground and surface;
d.	■ Well reconstruction is necessary to accomplish one or more of the above condition occur with this use and without reconstructing are cited below. Without reconstruction issuance of the permit until evidence of well reconstruction is filed with the Department Water Section.	tion, I recommend withholding
	Describe injury —as related to water availability— that is likely to occur without well senior water rights, not within the capacity of the resource, etc):	
Apr	ound water availability remarks: Water-level trends in the area show no obvious decloroximately 120 feet of saturated sands and gravels occurs beneath the well site. These faquate supply of ground water for new uses.	
_		

Date: July 31, 2012

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

CI. UJU-UJ-UTU (II). Evaluation of aquite comment	90-09-040 (1): Evaluation of aquifer confinement	ieni	nt
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Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Alluvium		
Basis fo	r aquifer confinement evaluation: Well logs indicate semi-co	onfined to confined condition	ıs.
_			

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 aguifer 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	Gribble Creek	230	220	7000		

Basis for aquifer hydraulic connection evaluation: The applicant's well is located approximately 7000 feet from the nearest perennial reach of Gribble Creek. Hydraulic head in the well is essentially equivalent to elevation of Gribble Creek, suggesting that groundwater flows toward and discharges into the creek.

Water Availability Basin the well(s) are located within: 69796: MOLALLA R > WILLAMETTE 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 < 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?
		<u></u>								

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.

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	istributed SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
W C11	5 11 11	%	%	%	%	%	%	%	%	%	%	%	
Well O	as CFS	70	- 70		76	70	70			70	70	70	
	ence CFS				_								
	uted Well									_	_		_
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%_	%	%	%	%	%	%	%	<u>%</u>	%	%
	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	_%	%	%	%	%	%
	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS												
111.11.0	000	%	%	%	%	%	%	%	%	%	%	<u>%</u>	%
	as CFS												
Interfer	ence CFS												
$(A) = T_0$	tal Interf.												
(B) = 80	% Nat. Q												
(C) = I	% Nat. Q												
(D) = ((A) > (C)	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.

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6	90-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights 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)
	ii. The permit should contain special condition(s) as indicated in "Remarks" below;
sw .	GW Remarks and Conditions
SW .	GW Remarks and Conditions
SW .	GW Remarks and Conditions
SW .	GW Remarks and Conditions
SW .	GW Remarks and Conditions
SW .	GW Remarks and Conditions
SW .	GW Remarks and Conditions
SW .	GW Remarks and Conditions
SW	GW Remarks and Conditions
Refe	rences Used: on, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005,
Refe	rences Used:
Refe	rences Used:
Refe Conli Grou Gann Was	rences Used: on, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, and-water hydrology of the Willamette Basin, Oregon: U.S. Geological Survey Scientific Investigations Report 2005-516 nett, M. W. and Caldwell, R.R., 1998, Geologic framework of the Willamette lowland aquifer system, Oregon and
Refe Conli Grou Was Ham Geol	rences Used: on, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, ind-water hydrology of the Willamette Basin, Oregon: U.S. Geological Survey Scientific Investigations Report 2005-516 int, M. W. and Caldwell, R.R., 1998, Geologic framework of the Willamette lowland aquifer system, Oregon and inington: U.S. Geological Survey Professional Paper 1424-A, 32p. pton, E.R., 1972, Geology and ground water of the Molalla-Salem slope area, northern Willamette valley, Oregon: U.S.

Date: July 31, 2012

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Application G-17550

D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:	:Logid:	
D2.	a. b. c.	WELL does not meet current well construction standards based upon: review of the well log; field inspection by report of CWRE other: (specify)	i
D3.	a. b. c.	permits the loss of artesian head; permits the de-watering of one or more ground water reservoirs;	
D4.		WELL construction deficiency is described as follows:	
D5. D6.		WELL 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. eto the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction with the Department and approved by the Enforcement Section and the Ground Water Section.	truction
ТНІ	S SECTIO	ON TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
D7.	Well co	onstruction deficiency has been corrected by the following actions:	
D8.	Route	(Enforcement Section Signature) e to Water Rights Section (attach well reconstruction logs to this page).	200

Water Availability Tables

MOLALLA R > WILLAMETTE R - AT MOUTH WILLAMETTE BASIN

Water Availability as of 7/31/2012

Watershed ID #: 69796

Date: 7/31/2012

Exceedance Level:

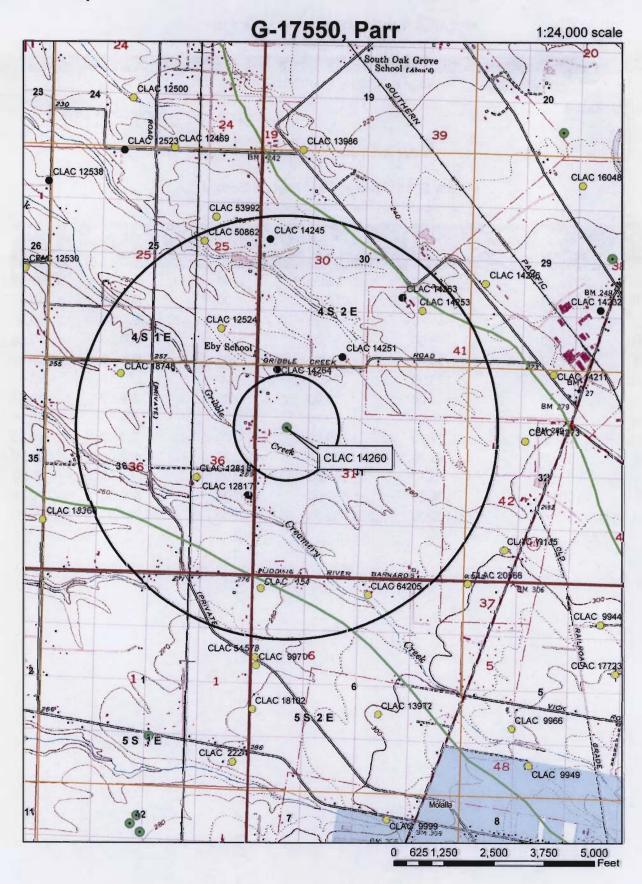
80% 🕶

Time: 8:24 AM

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	n Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	1,870.00	106.00	1,760.00	0.00	500.00	1,260.00
FEB	2,010.00	104.00	1,910.00	0.00	500.00	1,410.00
MAR	1,830.00	86.40	1,740.00	0.00	500.00	1,240.00
APR	1,530.00	79.60	1,450.00	0.00	500.00	950.00
MAY	927.00	103.00	824.00	0.00	500.00	324.00
JUN	431.00	123.00	308.00	0.00	500.00	-192.00
JUL	204.00	187.00	16.90	0.00	200.00	-183.00
AUG	139.00	158.00	-19.40	0.00	100.00	-119.00
SEP	134.00	87.20	46.80	0.00	150.00	-103.00
OCT	188.00	45.40	143.00	0.00	450.00	-307.00
NOV	637.00	73.10	564.00	0.00	500.00	63.90
DEC	1,700.00	106.00	1,590.00	0.00	500.00	1,090.00
ANN	1,320,000.00	76,100.00	1,250,000.00	0.00	295,000.00	976,000.00



Date: July 31, 2012

Water Levels in Nearby Wells

