Groundwater Application Review Summary Form

Application # G- 1860(
GW Reviewer Aurora Boochier Date Review Completed: 6/8/2018
Summary of GW Availability and Injury Review:
[] Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.
Summary of Potential for Substantial Interference Review:
[] There is the potential for substantial interference per Section C of the attached review form.
Summary of Well Construction Assessment:
[] The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.
This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

Version: 3/30/17

WATER RESOURCES DEPARTMENT

MEMO	O						_	Jone	- 8-	_,20_1	8
TO:		Applica	ation G	180	001		-				
FROM	I:	GW:	Reviewe	r's Name	Booch:	el	-				
SUBJI		cenic W									
□ ½	YES NO	The sou	arce of a	ppropri	ation is	within o	or above	e a Scen	ic Wate	rway	
□ 90	YES NO	Use the	Scenic	Waterw	vay cond	dition (C	Conditio	n 7J)			
	interfe	RS 390. rence wated inter	ith sur	face wa	ater tha	t contri				_	
	the De	RS 390.8 rence w epartme he prop ary to n	nt is upposed	ace wate nable to use wil	er that of find to the find th	contributhat the surably	tes to a re is a reduce	scenic prepon the s	waterwa deranc urface	ay; there of evi	refore, idence
Calcular calcular informin Exerci Water	te the per ted, per ng Water se of the way by	ON OF recentage of criteria in Rights the is permitthe followater fl	of consum i 390.833 at the Dep t is calc owing an	nptive use 5, do not partment ulated to mounts	by mont fill in the is unable	he table to make	but check a Prepond ly flows	k the "underance of in	able" op of Evidenc	tion above ce finding	scenic
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



MEMO

To:

Kristopher Byrd, Well Construction and Compliance Section Manager

From:

Joel Jeffery, Well Construction Program Coordinator

Subject:

Review of Water Right Application G-18601

Date:

September 19, 2018

The attached application was forwarded to the Well Construction and Compliance Section by Water Rights. Aurora Bouchier reviewed the application. Please see Aurora's Groundwater Review and the Well Log.

Applicant's Well #1 (LANE 61919): Based on a review of the Well Report, Applicant's Well #1 appears to protect the groundwater resource.

The construction of Applicants Well #1 may not satisfy hydraulic connection issues.

STATE OF OREGON					
WATER SUPPLY WELL REPORT	ne	WELL I.D. #	59/43		
(as required by ORS 537.765)	919	START CARI	# 1532	97	
Instructions for completing this report are on the last page of this form.					
(1) LAND OWNER Well Number 2168	(9) LOCATION OF	F WELL by legal	description:		
Name James Guilford		Latitude			
Address 25077 Strawberry In.		N o Rang			WM.
City Veneta State of Zip 97487		NW 1/4			
(2) TYPE OF WORK	Tax Lot Loso	LotBlo	ckS	ubdivision_	
New Well Deepening Alteration (repair/recondition) Abandonment	Street Address of V	Vell (or nearest addres	s) 25077	Strank	perlo
(3) DRILL METHOD:			Veneta	OR	
Rotary Air	(10) STATIC WATI	ER LEVEL:			
Other	<u>86'</u> ft.b	elow land surface.		Date /	-14-02
(4) PROPOSED USE:	Artesian pressure	lb. per	square inch	Date	
Domestic Community Industrial Irrigation	(11) WATER BEAF	RING ZONES:			
☐ Thermal ☐ Injection ☐ Livestock ☐ Other		/	90'		
(5) BORE HOLE CONSTRUCTION:	Depth at which water v	vas first found	/ /		
Special Construction approval Yes No Depth of Completed Well 215 ft.	From	To	Estimated I	low Rate	SWL
Explosives used Yes No Type Amount Amount	194'	198'	20 GPI	m	86'
HOLE SEAL					
Diameter From To, Material From To, Sacks or pounds,					
6" 44' 215"					
	(12) WELL LOG:				
How was seal placed: Method \square A \square B \nearrow C \square D \square E	, ,	ind Elevation			
Other					
Backfill placed fromft. toft. Material	Mater	rial	From	То	SWL
Gravel placed fromft. toft. Size of gravel	Topsoil			2	
(6) CASING/LINER:	Yellow Cl		2_	23	
Diameter From, To, Gauge Steel Plastic Welded Threaded	Brown C		23	38	
Casing: 6 +2 198 250 R	TAN Sand		38_	91	
	Blue Grey		91	145	
	Blue Sand	W/Grave		161	-
Liner: Nons.	Brown S		161	194	5.7
Liner: Nont.	Blue GrAVE		199	198	86
Drive Shoe used Inside Outside W None	Grey Sho	ele	198	215	86
Final location of shoe(s)	'				
(7) PERFORATIONS/SCREENS:	RE	CFIVE	7		
☐ Perforations Method	111	OLIVE	1 17	ECF	MED
☐ Screens Type Material	1	11 1 = 0000	-H		1 4
Slot Tele/pipe		N 1 7 2003	11 1	0V 1 2	2006
From To size Number Diameter size Casing Liner	WATER		- 11 - '	'	2004
None	SAL	RESOURCES DE EM, OREGON	II WAIE	RESOUR	CES DEPT
		LIN, ONLGON		ALEM, OF	EGON
				14.53	
(8) WELL TESTS: Minimum testing time is 1 hour				-14-07	$\underline{\hspace{0.1cm}}$
Pump ☐ Bailer	(unbonded) Water Well				100
Yield gal/min Drawdown Drill stem at Time	I certify that the work ment of this well is in con				
20GPm 215 1 hr.	standards. Materials used				
a 0 3/1/1	knowledge and belief.		WWC Nun	176	12
	Signed Lelono	P. Heberry		ate	
	(bonded) Water Well Co	onstructor Cartifica			
Temperature of water Depth Artesian Flow Found	l accept responsibility			andonment	work
Was a water analysis done?	performed on this well di				
Did any strata contain water not suitable for intended use?	performed during this tim	ne is in compliance w	ith Oregon water	supply well	
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other	construction standards. T		ne best of my kno WWC Nun		Z -
Depth of strata:	Signed Donald	Joven,		ate 12-1	5-02

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Water	Rights S	ection				Date	e6	/8/2018			
FROM:	:	Groun	ndwater S	ection			a C Bouchie	er					
SUBJE	CT:	Appli	cation G-	18601	,		ewer's Name persedes re	eview of <u>na</u>		Date	e of Rev	view(s)	
OAR 69 welfare, to deterr the presu	90-310-13 safety armine when umption	30 (1) Tend healt ether the criteria.	The Departs th as describe presumpt	ibed in ORS ion is establi ew is based	resume that 537.525. D shed. OAR upon avail	t a propos epartment 690-310- able infor	ed groundw t staff review 140 allows rmation and	vater use will of we groundwate the proposed dagency policible.	r applicati use be mod cies in pla	ons unde dified or ace at the	er OAI condi	R 690-31 tioned to of evalu	0-140 meet
A1.	Applica	nt(s) se	ek(s) _**	cfs from	n <u>1</u>	well	(s) in the	Willamette					_Basin,
	I	Long To	om River S	ubbasin		subb	asin (Venet	a quad)					
A2.	Propose	ed use _	Irri	gation (1.76	acres)	Seas	sonality: <u>N</u>	March 1 – Oct	ober 31				
A3.	Well an	d aquife			mber logs f			ark proposed					
Well	Logic		Applicant Well #	Propos	ed Aquifer*	Rate	oosed e(cfs)	Location (T/R-S QQ 18S/5W-6 NW	-Q)		, 1200'	s and bou E fr NW o E fr W1/4 o	cor S 36
3				3									
5													
* Alluviu	ım, CRB,	Bedrock											
Well	Well Elev ft msl 441	First Water ft bls	SWL ft bls	SWL Date 12/14/2002	Well Depth (ft) 215	Seal Interval (ft) 0-44	Casing Intervals (ft) -2-198	Liner Intervals (ft)	Perforati Or Scree (ft)	ens Y	Well Yield gpm) 20	Draw Down (ft) Na	Test Type
Use data	from app	lication t	for proposed	d wells									
A4.	Comme	ents: *	* The appl	ication has levolume of 4.	4 af for irrig	gation of 1	1.76 acres.	sted and the western states and the western states and the western states are state	posed use	is irriga	ation o		cres,
A5. 🛚	manage (Not all Comme	ment of basin r ents: <u>Th</u>	ules contai ne well is g	nter hydraulion In such provi Ireater than 1/2	cally conne sions.) 4 mile from	cted to sur a surface	rface water water source	ules relative t are, or	are not,	activated	d by th	is applic	ation.
A6. 🗌	Name o	f admin	istrative an	rea:				ap(s) an aquif					striction.

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

period of the proposed use. * This finding is limited to the groundwater 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 groundwater portion of the injury determination as prescribed in OAR 690-310-130; c. will not or will likely to be available within the capacity of the groundwater resource; or d. will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:	Bas	ed upon available data, I have determined that groundwater* for the proposed use:
is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130; c. will not or will likely to be available within the capacity of the groundwater resource; or d. will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:	a.	
d. will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource: i. The permit should contain condition #(s) . TT - Measuring Tube, 7N - Annual WL 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; a. Condition to allow groundwater production from no deeper than ft. below land surface; b. Condition to allow groundwater production from no shallower than ft. below land surface; c. Condition to allow groundwater production only from the groundwater 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 withholdir issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater 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):	b.	will not or will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
i. The permit should contain condition #(s) TT — Measuring Tube, 7N — Annual WL ii. The permit should be conditioned as indicated in item 2 below. iii. The permit should be conditioned as indicated in item 3 below; a. Condition to allow groundwater production from no deeper than	c.	\square will not or \square will likely to be available within the capacity of the groundwater resource; or
b. Condition to allow groundwater production from no shallower than	d.	 i. The permit should contain condition #(s) <u>7T - Measuring Tube, 7N - Annual WL</u> ii. The permit should be conditioned as indicated in item 2 below.
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<u>local pumping rather than being indicative of the aquifer in that region</u> . Interference with nearby users could be a problem.	The O'C con Ven	wells in the area develop water from sands and gravels associated with the weather terrace gravels (unit QTg of connor, et al., 2001). Groundwater and surface water are hydraulically connected in this environment. Due to this nection, the long term supply should be relatively stable. However, water levels from nearby wells, including the City of eta well #9 (LANE 2340) and #11 (LANE 68918), show a downward trend between the 1960's through the 1980s, then a ling off, and then a jump back to higher water levels in the 2010's. The water level trends appear related to the amount
	loca	l pumping rather than being indicative of the aquifer in that region. Interference with nearby users could be a problem.

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

C1.	690-09-040	(1) :	Evaluation	of ac	quifer	confinement	:
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Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Alluvial sands and gravels	\boxtimes	

Basis for aquifer confinement evaluation: The water level in the applicant's well rose some 108 feet above the level at which it was first encountered. It appears that the aquifer is at least locally confined by the overlying clay layers which are some 143 feet thick according to the well log.

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)	1	Iydraul Connec NO A	Potentia Subst. Int Assum YES	erfer. ed? NO
1	1	West Fork Coyote Creek	~355-	400-	2,000		\boxtimes		\boxtimes
			375	460					
1	2	Fern Ridge Reservoir	~355- 375	374*	14,300				\boxtimes

Basis for aquifer hydraulic connection evaluation: * The water level listed for Fern Ridge is the maximum stage level. The water level listed on the well log for the applicant's well (LANE 61919) is at about the same elevation (~355 feet asl) as the water level seen in LANE 2340 at that time. Since then, the water levels in both LANE 2340 and LANE 68919 have increased to a level closer to 370-375 feet asl. The water level elevation at the well is below the elevation of nearby West Fork of Coyote Creek, but likely coincident with Fern Ridge.

Water Availability Basin the well(s) are located within: 114: LONG TOM R> WILLAMETTE R- AB MOUTH

C3a. **690-09-040** (4): Evaluation of stream impacts for <u>each well</u> 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 \boxtimes 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?
-										

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.

5 cfs?	Right Right Q (cfs)	1% ISWR?	Natural Flow (cfs)	of 80% Natural Flow?	Interference @ 30 days (%)	for Subst. Interfer. Assumed?
		ID (cfs)	ID (cfs) ISWK?	ID		ID

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.

Non-Distributed	Wells											
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
Distributed Well	<u> </u>											e was a feet of
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
W. II. O. GEG	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS Interference CFS												
Interference CFS	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	%	%	%	%	%	%	%	%	%	%	%	%
Interference CFS												
La transference de la companya del companya de la companya del companya de la com				53:30-31-6								
(A) = Total Interf.												
(B) = 80 % Nat. Q	-											
(C) = 1 % Nat. Q												
(D) = (A) > (C)			List chi contract in							/		
(B) = (A > (C) $(E) = (A / B) \times 100$	%	%	%	%	%	%	%	%	%	%	%	%
$(\mathbf{E}) = (\mathbf{A} / \mathbf{D}) \times 100$	70	70	70	70	70	70	70	70	70	70	70	7/0

Application G-18601 Date: June 8, 2018 Page

(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

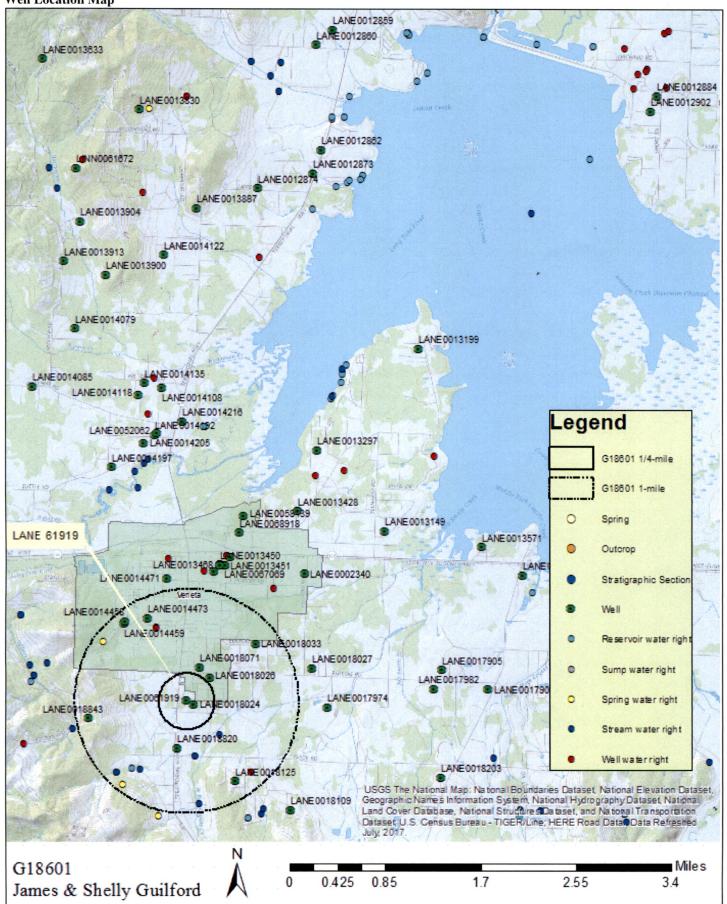
	ork well with a lake rather than a stream and the location of the well in relation to the lake shore. The
terrace gravei alluviai	material is hydraulically connected to the lake. However, the upper clay tends to delay the impact.
690-09-040 (5) (b) Rights Section.	The potential to impair or detrimentally affect the public interest is to be determined by the V
under this permit ca	oned , the surface water source(s) can be adequately protected from interference, and/or groundwater in be regulated if it is found to substantially interfere with surface water:
	rmit should contain condition #(s) rmit should contain special condition(s) as indicated in "Remarks" below;
т. 🗀 тне ре	The should contain special condition(s) as maleuted in Tremarks Colon,
W / GW Remarks an	d Conditions:
W / GW Remarks an	d Conditions:
W / GW Remarks an	d Conditions:
W / GW Remarks an	d Conditions:
W / GW Remarks an	d Conditions:
W / GW Remarks an	d Conditions:
References Used:	
deferences Used: Lipplication files: G-186	01.
References Used: pplication files: G-186	
eferences Used: pplication files: G-186 conlon, T. D., Wozniak cround-Water Hydrolog	601. , K. C., Woodcock, D., Herrera, N.B., Fischer, B.J. Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005,

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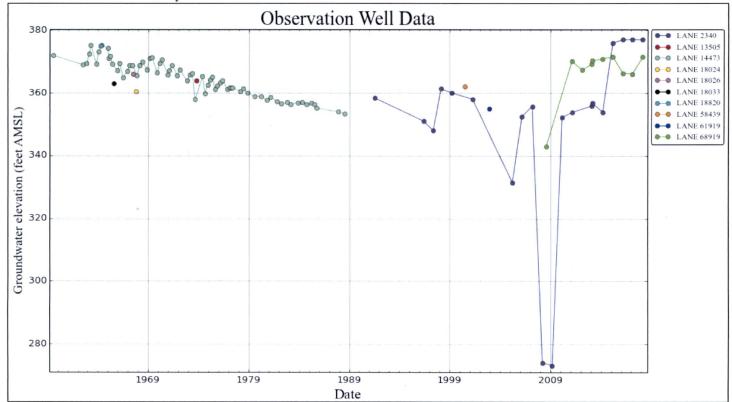
D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:			Logid:			
D2.	a.	review of the field inspect report of CW	ne well log; tion by WRE	current well construction			
D3.	THE W	ELL constru	uction deficiency o	or other comment is desc	ribed as follows:		
		to the Well C	Construction and C	Compliance Section for a		ell construction	1.
				WATER AVAILABILITY			
Time:	2:10 PM	: 114		ONG TOM R > WILLAMETTE R Basin: WILLAME	TTE		Exceedance Level: 80 Date: 06/08/2018
# V	Watershed ID Number	Stream Name			JAN FEB MAR APR MA	Y JUN JUL AUG S	SEP OCT NOV DEC STOR
4	181 182 183 30200321	WILLAMETTE R WILLAMETTE R WILLAMETTE R WILLAMETTE R	R > COLUMBIA R - A R > COLUMBIA R - A R > COLUMBIA R - A R > COLUMBIA R - A	AT MOUTH AB MOLALLA R AB MILL CR AT GAGE 14191 AB PERIWINKLE CR AT GAGE AB MOUTH	YES	S YES YES YES Y S YES YES YES Y S YES YES YES Y	YES
				EPORT ON THE WATER AVAIL			
Time:	2:10 PM	: 114		ONG TOM R > WILLAMETTE R Basin: WILLAME	TTE		Exceedance Level: 80 Date: 06/08/2018
Month		Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirements	Net Water Available
				Monthly values e is the annual amount a	are in cfs.		
JAN FEB MAR APR MAY JUN JUL AUG	,,,,,	568.00 697.00 596.00 373.00 215.00 105.00 50.60 35.40	150.00 389.00 556.00 250.00 64.60 30.10 47.30 38.40	308.00 40.20 123.00 150.00 74.90 3.27	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	418.00 308.00 40.20 123.00 150.00 74.90 3.27 -2.97
5EP OCT		32.10 35.30	22.10 6.50	10.00 28.80	0.00	0.00	10.00 28.80
DEC ANN		82.50 364.00 362.000	6.24 106.00 99.700	76.30 258.00 262.000	0.00 0.00	0.00	76.30 258.00 262.000

Well Location Map



Water-Level Trends in Nearby Wells



Water-Level vs Usage

