Groundwater Application Review Summary Form

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Submany 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 usury to prior water rights. On will not likely be available within the capacity of the groundwater resource per Section B of the attached review love.

Surmany of Potential for Substantial Interference Review:

[1] 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. Houte through Well Construction and Compliance Section.

This is anily 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).

WATER RESOURCES DEPARTMENT 4-16 ,20 **MEMO** Application G- 1850 TO: GW: Woods (Reviewer's Name) FROM: **SUBJECT: Scenic Waterway Interference Evaluation** YES The source of appropriation is within or above a Scenic Waterway NO YES Use the Scenic Waterway condition (Condition 7J) NO Per ORS 390.835, the Groundwater Section is able to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below. Per ORS 390.835, the Groundwater Section is unable to calculate ground water interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway. DISTRIBUTION OF INTERFERENCE Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding. Exercise of this permit is calculated to reduce monthly flows in ___ Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced. Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

or Rh

MEMO

To:

Kristopher Byrd, Well Construction and Compliance Section Manager

From:

Joel Jeffery, Well Construction Program Coordinator,

Subject:

Review of Water Right Application G-18501

Date:

August 31, 2018

The attached application was forwarded to the Well Construction and Compliance Section by Water Rights. Jennifer Woody reviewed the application. Please see Jen's Groundwater Review and the Well Logs.

Applicant's Well #1 (YAMH 7944): Based on a review of the well report, Applicant's Well #1 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The well report indicates that 12 bags of bentonite chips were used to seal the wells annular space from land surface to a depth of 40 feet, however, a minimum of 18 bags of bentonite chips were required to fill the space. In order to meet minimum well construction standards the well must be resealed with the correct amount of seal material.

My recommendation is that the Department **not issue** a permit for Applicant's Well #1 (YAMH 7944) unless it is brought into compliance with minimum well construction standards or information is provided showing that it is in compliance with current minimum well construction standards.

Bringing Applicant's Well #1 into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

Y A MH 7944

035/036/2788

State of Oregon WATER WELL REPORT (as required by ORS 537.765)

Page 1 of 1

Start Card # 78926

ORI	SINAL & FIRST COPY - WATER RESOURCES DEPTARTMENT SECOND	COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 10/91
	Temperature of water 53 Depth Artesian Flow Found Was water analysis done? NO By whom	(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief. Signed WWC Number 1438 Date 09/19/95
(8)	WELL TESTS: Minimum testing time is 1 hour Test type AIR Draw- Drill stem Yield GPM down at Time 50 333 1 hr.	well construction standards. Materials used and information reported above are true to my best knowledge and belief. Signed
	· · · · · · · · · · · · · · · · · · ·	(unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or aband—onment of this Well is in compliance with Oregon water supply
(7)	PERFORATIONS/SCREENS: [X] Perforations Method ELECTRIC SAW [] Screens Type Material Slot Tele/pipe From To Size Number Diam. size Casing/liner 293 333 6 72 LINER	BASALT, DECAYED, VESICULAR BASALT, HARD GRAY DAVE PAYSINGER BLUE WATER DRILLING CO DAYTON, OR. 97114 Date started 09/18/95 Completed 09/19/95
	Final Location of shoe(s) NO SHOE	BASALT, HARD GRAY 178 225 BASALT, DECAYED 225 236 147 BASALT, HARD GRAY 236 280
	Liner 4 0 333 SDR26 PLASTIC WELDED	BASALT, VERY HARD GRAY 108 115 BASALT, HARD GRAY 115 175 BASALT, DECAYED 175 178 147
(6)	CASING/LINER: Diam. From To Gauge Material Connection Casing 6 +2 78 .25 STEEL WELDED	RED CLAY 2 17 BROWN CLAY 17 51 DECAYED BASALT 51 63 BASALT, HARD GRAY 63 108
	Seal placement method C Backfill: from ft to ft Material Gravel: from ft to ft Size	(12) WELL LOG: Ground elevation Naterial From To SWL RED SOIL 0 2
	Special Construction Approval: NO Depth of Compl. Well 333 ft Explosives used NO Type Amount HOLE SEAL Diam. From To Material From To Amount 10 0 78 BENTONITE 0 40 12 SAX 6 78 333 CEMENT W/GEL 40 78 12 SAX	(11) WATER BEARING ZONES: Depth at which water was first found 175 From To Est Flow Rate SWL 175 178 5 147 225 236 8 147 280 318 37 147
(4)	PROPOSED USE: DOMESTIC BORE HOLE CONSTRUCTION:	(10) STATIC WATER LEVEL: 147 ft. below land surface. Date 09/19/95 Artesian pressure lb per square in. Date
	TYPE OF WORK: NEW WELL DRILL METHOD: ROTARY AIR	Street Address of Well (or nearest Address) 18600 NE FAIRVIEW RD DUNDEE, OR SALEM, OREGON
	OWNER: Well No. 1549 Name DON KNIGHT Address 18600 NE FAIRVIEW RD City DUNDEE St OR Zip 97115	(9) LOCATION OF WELL by legal description: County VANHILL Lat. 45 17' 06" Long. 123 02' 45 Township 3 S Range 3 W WM. Section 27 NW 1/4 NW 1/4 SEP 2 5 1995 Tax Lot 3327 Lot 01000 Block Subdivision Street Address of Well (or nearest Address)
/11	OWNER! WAST NA 1540	(9) TOTATION OF WELL by local description

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: FROM	:		r Rights S ndwater S	ection ection					Date	4/1	6/201	<u>.8</u>		
SUBJE	ECT:	Appl	ication G-	18501			ewer's Nam persedes		view of <u>n/a</u>		Da	ate of Rev	view(s)	
OAR 69 welfare, to deter	90-310-1, safety a mine who sumption	30 (1) ind head ether the criteria	The Depart th as descr e presumpt	ibed in ORS ion is establ ew is based	resume that 537.525. D ished. OAR upon avail	a propose epartment 690-310- able infor	ed ground staff rev 140 allow mation a	iew vs th and	ter use will e groundwate ne proposed agency poli	r applicatio use be mod cies in plac	reserves und ified of the thick the	vation o der OAF or condi he time	f the pub R 690-31 tioned to	0-140 meet ation.
A1.	Applica	ant(s) se	eek(s) <u>0.3</u>	34 cfs <u>up to</u>	47 acre-fee			ll(s)	in the Willa	mette				_Basin,
A2.	Propose	ed use	irri	gation		subba		M	arch 1 – Oct	ober 31				
A3.	_			_					rk proposed					
Well	Logi	}	Applicant Well #	Propos	ed Aquifer*	Prop Rate	(cfs)		Locatio (T/R-S Q(Q-Q)		0' N, 120	netes and I e.g. 00' E fr NV 36	
1 2 3	YAMH 7 Propos		2		CRBG CRBG	0.3			S/R3W-S27 NV 3S/R3W-S22 SV				ne given ne given	
4 5 * Alluvii	um, CRB,	Bedroc	k											
Well 1 2	Well Elev ft msl 700 925	First Water ft bls 175	r SWL	SWL Date 9/19/1995	Well Depth (ft) 333 333	Seal Interval (ft) 0-78	Casing Interva (ft) 0-78		Liner Intervals (ft) 0-333	Perforatio Or Screer (ft) 293-333	ıs	Well Yield (gpm) 50	Draw Down (ft)	Test Type air
Use data	from app	lication	for proposed	l wells.										
A4.	request as Well	ed clari #1, bas	fication, bu sed on dept	it none was r h, location a	eceived. A	fter resear tion. The	ching the driller's	well	ausible well Il log databa I number is r	se, this rev	iew id 19, wh	lentifies iich was	YAMH the appl	7944
A5. 🛚	manage (Not all Comme	ment o basin r ents: <u>69</u>	rules contai 00-502-024	nter hydraulion such provi O classifies under the such that the such th	cally connections.) use from uncontactivated.	cted to sur	face wate	er [les relative to are, or ers. This app	are not, ac	oposes	ed by the	is applica	ation. fined
A6. 🗌	Well(s) Name of	of admir	nistrative ai			,	,	tap	o(s) an aquife	r limited by				

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

Bas	ed upon available data, I have determined that groundwater* 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. * 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: i. The permit should contain condition #(s) 7i, Large Water Use Reporting Condition ;; 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;
).	Condition to allow groundwater production from no shallower than ft. below land surface;
:. roi	Condition to allow groundwater production only from indwater reservoir between approximately ft.
	ft. below land surface;
	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):
The (CR Eac thic	applicant's proposed wells will produce from one or more water-bearing zones in the Columbia River Basalt Group BG), a series of lava flows with a composite thickness that ranges from 300 to 400 feet in this area (Conlon et al., 2005). In flow is characterized by a series of internal features, including a thin rubble zone at the contact between flows and a
The inter CRI whi experience	k, dense, low porosity and low permeability interior zone. In some cases, sedimentary layers were deposited during the between basalt flow emplacements. A flow top, sedimentary interbed and flow bottom are collectively referred to as an aflow zone. Unconfined groundwater occurs near the weathered top of the basalts, but most water occurs in interflow at the contacts between lava flows. CRBG flow features result in a series of stacked, thin aquifers that are confined by se flow interiors. The low permeability of the basalt flow interiors usually results in little connection between stacked fers, which generally results in tabular aquifers with unique water level heads. proposed use of 47 acre-feet per year at a maximum rate of 150 gallons per minute (gpm) is unlikely to create drawdown ference with nearby wells that prevents access to water. Nearby wells access a variety of water-bearing zones within the 3G aquifer system. Well logs in T3S/R3W- Sections 22 and 27 report yields ranging from 1 to 364 gpm, with a median d of 25 gpm. Wells that access the upper elevation water-bearing zones show reasonably stable trends (see Figure 3), we wells that access the lower elevation water bearing zones show slightly more long-term decline. The subject wells are exceed to access upper elevation water-bearing zones, with a water-level elevation of approximately 500 ft above mean sea
The inter CRI yiel whi experience	k, dense, low porosity and low permeability interior zone. In some cases, sedimentary layers were deposited during the between basalt flow emplacements. A flow top, sedimentary interbed and flow bottom are collectively referred to as an aflow zone. Unconfined groundwater occurs near the weathered top of the basalts, but most water occurs in interflow as at the contacts between lava flows. CRBG flow features result in a series of stacked, thin aquifers that are confined by se flow interiors. The low permeability of the basalt flow interiors usually results in little connection between stacked fers, which generally results in tabular aquifers with unique water level heads. proposed use of 47 acre-feet per year at a maximum rate of 150 gallons per minute (gpm) is unlikely to create drawdown ference with nearby wells that prevents access to water. Nearby wells access a variety of water-bearing zones within the aGG aquifer system. Well logs in T3S/R3W- Sections 22 and 27 report yields ranging from 1 to 364 gpm, with a median

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Columbia River Basalt Group (CRBG)Aquifer		
2	Columbia River Basalt Group (CRBG)Aquifer	\boxtimes	

Basis for aquifer confinement evaluation: According to the well log, static water levels rise above water-bearing zones, indicating the aquifer is confined.

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	1	Harvey Creek	553	550	1600		
2	1	Harvey Creek	475	450	2500		
					7-		
							- 🔲

Basis for aquifer hydraulic connection evaluation: Water-bearing zones are reported in the confined interflow zones of the CRBG. These water-bearing zones are coincident with or above perennial reaches of Harvey Creek within a mile. The creek has incised through several hundred feet of CRBG. Groundwater from the uplands likely discharges to surface water, providing baseflow or spring flow to sustain nearby perennial reaches of the creek.

Water Availability Basin the well(s) are located within:	Watershed ID #: 182, WILLAMETTE R > COLUMBIA R - AB
MOLALLA R	

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			MF182A	1500		3830		*	
1	1			MF182A	1500		3830		*	
							·			

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?

Comments: *There is no appropriate model to estimate streamflow depletion from pumping in CRBG interflow zones that are
incised by streams or discharge to point sources such as springs. Therefore, the percentage of interference at 30 days is not
calculated.

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-Di	istributed	Wells							<u>-</u>				
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS			-									
201 . 11			-			-					·	· · · · · · · · · · · · · · · · · · ·	
Distrib Well	uted Well SW#		Y71.	N/	A	3.6	T	7 1		C	0.	3.7	ъ
wen	3W#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
11/ 11/0	. CEG	%	%	%	%		%	%	%	%	%	%	%
	as CFS				···			-					
Intertere	ence CFS												_
		%	%	%	%	%	%	%	%	%	%	%	
	as CFS												
Interfere	ence CFS							_					
		%	%	%	%	%	%	%	%	%	%	%	%
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Interfere	ence CFS							·					
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	as CFS												
Interfere	ence CFS												
(A) T	Anl Intere						_						
	tal Interf.									<u> </u>			
	% Nat. Q												
(C) = 1	% Nat. Q										·		
(D) = ((A) > (C)	✓	1	. 1	· ✓	1	<u>√</u>	4	4	1	√	V	√
$(\mathbf{E}) = (\mathbf{A})$	/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.

Basis for impact evaluation:

				-			
							
							
				,			
	····		<u>.</u>				
	-09-040 (5) (b) Rights Section.	The potential t	to impair or det	rimentally affe	et the public into	erest is to be dete	rmined by the Wa
☐ If]	der this permit car	n be regulated if	e water source(s) it is found to sultin condition #(s)	ostantially interf	ere with surface	n interference, and water:	d/or groundwater u
	ii. The peri	mit should conta	in special condi	ion(s) as indicat	ed in "Remarks"	below;	
W/G	W Remarks and	Conditions:	The applicant's	proposed well w	ould be producin	g from an aquifer	that has been four
					mile. However, t	he department is u	
ullicic	int evidence that ti	he proposed use	will have the Po	tential for Subst		re per OAR 690-0	NO P
	ent evidence that the	he proposed use	will have the Po	tential for Subst		ce per OAR 690-0	09.
	ent evidence that the	he proposed use	will have the Po	tential for Subst		ce per OAR 690-0	09.
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	nt evidence that ti	he proposed use	will have the Po	tential for Subst		ce per OAR 690-0	09.
	nt evidence that the	he proposed use	will have the Po	tential for Subst		ce per OAR 690-0	09.
Refere	nces Used:	he proposed use	will have the Po	tential for Subst		ce per OAR 690-0	09.
Conlon	nces Used: , T.D., Wozniak,	K.C., Woodcock	ς, D., Herrera, N	B., Fisher, B.J.,	Morgan, D.S., L	ee, K.K., and Hin	
Conlon Cround	nces Used: , T.D., Wozniak,	K.C., Woodcock of the Willamet	k, D., Herrera, N tte Basin, Orego	.B., Fisher, B.J.,	Morgan, D.S., L	ee, K.K., and Hin	kle, S.R., 2005,

D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:	Logid:				
D2.	a. review of b. field inspections. report of 0	not appear to meet current well construction standards based u the well log; ection by CWRE ectify)	- 			
D3.	THE WELL construction deficiency or other comment is described as follows:					
D4. [Route to the Well	Construction and Compliance Section for a review of existing w	vell construction.			

Water Availability Analysis Detailed: Reports

WILLAMETTE R > COLUMBIA R - AB MOLALLA R WILLAMETTE BASIN

Water Availability as of 4/16/2018

Watershed ID #: 182 (Map)

Exceedance Level:80%

Date: 4/16/2018

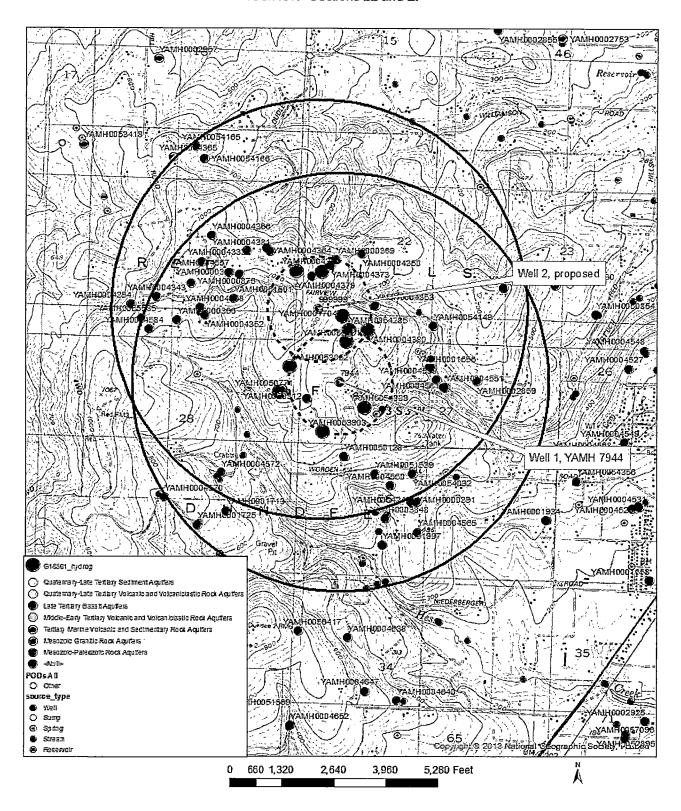
Time: 9:50 AM

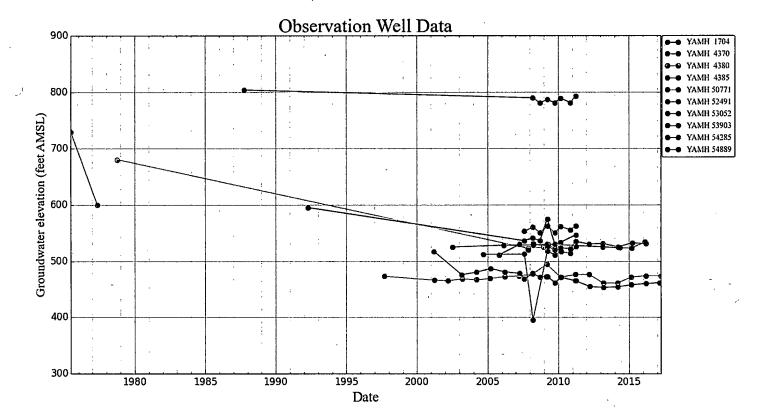
Water Availability Calculation

Monthly Streamflow in Cubic Feet per Second Annual Volume at 50% Exceedance in Acre-Feet

Month	Natural	Consumptive	Expected		Instream Flow	Net Water
	Stream Flow	Uses and	Stream Flow	Stream	Requirement	Available
	* ************************************	Storages	grow a	Flow	: ************************************	The state of the s
JAN	21,400.00	2,290.00	19,100.00	0.00	1,500.00	17,600.00
FEB	23,200.00	7,480.00	15,700.00	0.00	1,500.00	14,200.00
MAR	22,400.00	7,250.00	15,100.00	0.00	1,500.00	13,600.00
APR	19,900.00	6,910.00	13,000.00	0.00	1,500.00	11,500.00
MAY	16,600.00	4,230.00	12,400.00	0.00	1,500.00	10,900.00
JUN	8,740.00	1,970.00	6,770.00	0.00	1,500.00	5,270.00
JUL	4,980.00	1,800.00	3,180.00	0.00	1,500.00	1,680.00
AUG	3,830.00	1,650.00	2,180.00	0.00	1,500.00	685.00
SEP	3,890.00	1,390.00	2,500.00	0.00	1,500.00	997.00
OCT	4,850.00	748.00	4,100.00	0.00	1,500.00	2,600.00
NOV	10,200.00	881.00	9,320.00	0.00	1,500.00	7,820.00
DEC	19,300.00	964.00	18,300.00	0.00	1,500.00	16,800.00
ANN	15,200,000.00	2,250,000.00	13,000,000.00	0.00	1,090,000.00	11,900,000.00

G 18501 Gore T3S/R3W- Sections 22 and 27





INTEROFFICE MEMORANDUM

TO:

Joel Jeffery, Well Construction and Compliance Section

FROM:

Kim French, Water Rights Section

DATE:

August 30, 2018

RE:

G-18501 – Ste Michelle Wine Estate- request for determination of compliance with

well construction standards

Please review Well 1 (YAMH 7944), and make a determination regarding well construction compliance.

Please route the file and your review back to me.

Thanks.

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