PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

| TO: | | Wate | r Rights S | ection | | Date January 16, 2009 | | | | | | |
|---------------------------------|--------------------------------------|---|--|--|--|---|--|--|--|--|---------------------------------------|------------------|
| FROM | : | Grou | nd Water/ | Hydrology | Section _ | Mike | Zwart | | | | | |
| SUBJE | ECT: | Appli | ication G- | 17127 | | | iewer's Name persedes re | eview of | | Date of Re | eview(s) | |
| OAR 6 welfare to deter the pres | 90-310-1, safety a mine who sumption | 30 (1) 2 nd heal ether th criteria | The Depart th as descr e presumpt . This revi | ibed in ORS ion is estable w is based ON: A | oresume the S 537.525. lished. OA l upon ava | at a proposition of the proposi | sed groundw t staff revie -140 allows rmation an Heffernan | vater use will w ground wa the proposed d agency pol n Family Tr | ter application use be modificies in place | ons under OA ified or cond e at the tim | AR 690-3 litioned to e of evalu | 10-140 o meet |
| A1. | | ınt(s) se C lover | | <u>55</u> cfs fro | | | | Powder and Map: N | | r | | _Basin, |
| A2. A3. | Propose | ed use: | Irr | igation, 844 | 4 ac. (P & | S) Seas | sonality: | March 1 to | o October 3 | 1 | gid): | |
| Wel l | Logid | | Applican s Well # | Ad | Proposed Aquifer* | | , , | Location (T/R-S QQ-Q) | | Location, metes and bound 2250' N, 1200' E fr NW cor | | r S 36 |
| 1 2 | Propo UNIO 5 | | 1 2 | Basin Fill Basin Fill | | | | 39E-34 SW-NW | | 25' E, 2640' S fr NW cor S 34 25' E, 25' S fr NW cor S 34 | | |
| 3 | Propo | | 3 | | sin Fill | 2.23 | | 5S/39E-34 NW-NW 5S/39E-27 NW-SW | | 2254' N, 60' E fr SW cor S | | |
| 4 | | | | | | | | | | | | |
| 5 * Alluvi | um, CRB, | Bedroc | k | | | | | | | | | _ |
| Well 1 | Well Elev ft msl | First Water ft bls | r SWL | SWL Date | Well Depth (ft) | Seal Interval (ft) | Casing Intervals (ft) | Liner Intervals (ft) | Perforation Or Screen (ft) | | Draw Down (ft) | Test Type |
| 2 | 3348 | 10 | 1 | 4/30/08 | 405 | 0-100 | 0-405 | | 124-164 S 241-261 S 261-315 S 385-405 F | , . | 84 | P |
| 3 | 3342 | | | | | | | | 000 100 1 | | | |
| Use data A4. | | | for proposed Well 2 is | | ed. Wells | 1 and 3 are | e to be cons | tructed in a | manner sim | ilar to #2 | | |
| A5. 🖂 | manage (Not all | ment o | ules contai | ater hydraul n such prov | lically conr risions.) | nected to su | ırface water | ules relative (| ⊠ are not , a | ctivated by t | sification this applic | and/or cation. |
| A6. 🗌 | Well(s) Name of | of admin | nistrative an | ea:, | , | , | , ta | ap(s) an aquif | er limited by | an administ | trative res | triction. |

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| cation | G- <u>17127</u> | continued | Date: <u>Janua</u> | ary 16, 2009 |
|------------------------|---|---|--|---|
| ROUI | ND WATER AV | AILABILITY CONSIDERATION | S, OAR 690-310-130, 400 | <u>-010, 410-0070</u> |
| Bas | sed upon available | e data, I have determined that ground wa | ater* for the proposed use: | |
| a. | period of the | priated, is not over appropriated, <i>or</i> proposed use. * This finding is limited as prescribed in OAR 690-310-130; | annot be determined to to the ground water portion o | be over appropriated during any f the over-appropriation |
| b. | | will likely be available in the amounts the ground water portion of the inju | | |
| c. | ⊠ will not or | will likely to be available within the c | apacity of the ground water r | esource; or |
| d. | i. The ii. The | erly conditioned, avoid injury to existing permit should contain condition #(s) permit should be conditioned as indicated permit should contain special condition(| ed in item 2 below. | |
| a. | ☐ Condition to | o allow ground water production from no | deeper than | ft. below land surface; |
| b. | ☐ Condition to | o allow ground water production from no | shallower than | ft. below land surface; |
| c. | Condition to water reserve | allow ground water production only from | m the | ground |
| d. | to occur with withholding | truction is necessary to accomplish one of this use and without reconstructing are dissuance of the permit until evidence of vid Water Section. | cited below. Without reconstr | ruction, I recommend |
| | | y –as related to water availability– that i | | |
| | | | | |
| pri be the du | or to filing this ap made at the time of Initial Review. T ring the 2009 irrig | bility remarks: The applicant spoke plication. It was understood that a fin of review. The applicant plans to require he hold should be of sufficient duratio action season. The file will subsequent would allow permit issuance, appropriation. | ding that ground water will est an administrative hold f in to allow Ground Water st ly be rereviewed and, provid | not likely be available would or this file following receipt of aff to collect and analyse data ded that the current finding car |
| _ | | | | _ |
| | | | | |

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| Wel 1 | | | Aquifer | or Proposed A | Aquifer | | C | Confined | | ι | Jnconfined | |
|--|--|--|---|---|--|---|---|--|--|---|---|---|
| | Basir | a fill | | | | | | | | | | |
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| | | fer confine fer storage | | aluation: <u>Aq</u> ons | uifer testin | g from Ma | ay 2-5, 2008 | by Der | oartm(| ent staff der | monstrated | <u>.</u> |
| horizont assumed | tal dis d to be evalua SW | tance less to hydraulicated for PS | than ¼ mi ally conne | listance to, and le from a surfa ected to the sur ter Name | ace water so | ource that p | roduce water lude in this t Distance | from a able an | n unco | onfined aqui ms located b lically | fer shall be beyond one Potentia Subst. In | mil al fo terfe |
| | # | | | | ft msl | ft msl | (ft) | | | ASSUMED | Assum YES | ed? N |
| 1-3 | 1 | Clover (| Creek | | 3348 | 3330 | 1600- 6500 | | | | | |
| | | | | | | | | | | | | |
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| onsidero Iydrauli | ed in ically I duri | this review connected ng the 200 | w. Depart to Clove 9 irrigati | ection evaluatement aquifer r Creek in the on season. l(s) are locate | testing den e short-tern | nonstrated n. This de | the deeper termination | basin-l will be | fill sed e reeva | liments are aluated afte | not r data are 920306). | 15 11 |
| Water A 90-09-0 connecte hat are p Compare | 940 (4) ed and ettine ethe re | l less than ant to that sequested ra | 1 mile fro surface wa te against | eam impacts for ma surface water source, and the 1% of 80% reach well. Ar | vater source d not lower % <i>natural</i> fl | . Limit eva SW source ow for the | luation to ins s to which th pertinent Wa | stream i ie streai ater Ava | rights a m unde ailabili | and minimur er evaluation ty Basin (W | n is tributar (AB). If Q | y. is n |
| Water A 90-09-0 connecte hat are p Compare distribute | 940 (4) ed and ettine ethe re | ent to that so equested ra well, use fu | 1 mile fro surface wa te against | om a surface water source, and the 1% of 80% reach well. Ar | vater source d not lower % <i>natural</i> fl ny checked | . Limit eva SW source ow for the \(\sum \) box ind | luation to ins s to which the pertinent Waicates the we | stream in stream in stream in stream ater Ava | rights a m unde ailabili sumed | and minimurer evaluation ty Basin (W to have the | is tributary AB). If Q potential to | y. is n cau |
| Water A 90-09-0 connecte hat are p Compare listribute PSI. | 940 (4) ed and ettine ethe re | ent to that so equested ra well, use fu | 1 mile fro surface wa te against | om a surface water source, and the 1% of 80% reach well. Ar | vater source d not lower % <i>natural</i> fl | . Limit eva SW source ow for the \(\sum \) box ind | luation to ins s to which th pertinent Wa | stream i ie streai ater Ava | rights am under ailabili sumed | and minimurer evaluation ty Basin (W to have the p | r is tributary (AB). If Q potential to | y. is no cau |
| 90-09-0-connecte hat are possibility compare listribute PSI. | 240 (4) ed and pertine the re- ed by v | l less than ent to that see equested rawell, use further well < Well < 1/4 | 1 mile frourface wante against | om a surface water source, and the 1% of 80% reach well. Ar | water source d not lower % natural fl ny checked Instream | . Limit eva SW source ow for the ⊠ box ind Qw > 1% | luation to ins s to which the pertinent Walicates the we | stream in stream | rights am under ailabilisumed > 1% | Interference and minimurer evaluation ty Basin (W) to have the p Interference @ 30 day | r is tributary (AB). If Q potential to | y. is no cau ntial ubst |
| Water A 90-09-0 connecte hat are p Compare listribute PSI. | ed and pertine the reed by v | ent to that so equested ra well, use fu | 1 mile from the fraction of the against all rate for Qw > | om a surface water source, and the 1% of 80% reach well. Ar Instream Water | water source d not lower % natural fl ny checked Instream Water | . Limit eva SW source ow for the \(\sum \) box ind | luation to ins s to which the pertinent Walicates the we 80% | e stream in the | rights am under ailabilisumed > 1% along the sumed along the sumed along the sumed along the sum alo | and minimurer evaluation ty Basin (W to have the p | r is tributary (AB). If Q potential to Potential to for S | y. is no cau ntial ubst fer. |
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| Water A 90-09-0 connecte hat are p Compare listribute PSI. | ed and pertine the reed by v | l less than ent to that see equested rawell, use further well < Well < 1/4 | 1 mile from the fraction of the against all rate for Qw > | om a surface water source, and the 1% of 80% reach well. Ar Instream Water Right | water source d not lower % natural fl ny checked Instream Water Right Q | . Limit eva SW source ow for the ⊠ box ind Qw > 1% | luation to ins s to which the pertinent Wa icates the we 80% Natural Flow | e stream in the | rights am under ailabilisumed > 1% along the sumed along the sumed along the sumed along the sum alo | Interference and minimurer evaluation ty Basin (W) to have the p Interference @ 30 day | r is tributary (AB). If Q potential to Pote for S Inter | y. is n cau ntia ubst |

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Application G-17127 continued

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

| 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? |
|---------|-------------|----------------------------------|---------------------------------------|---------------|---------------------------------|---------------------------------------|----------------------------------|--|
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| Comments: | This section does not apply. | |
|-----------|------------------------------|--|
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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-D | Distributed | Wells | | | | | | | | | | | |
|------------------------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Well | SW# | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| | ence CFS | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Distril | buted Well | ls | | | | | | | | | | | |
| Well | SW# | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | rence CFS | | | | | | | | | | | | |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
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| Well O | as CFS | | | | | | | | | | | | |
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| Well O | as CFS | | | | | | | | | | | | |
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| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well O | as CFS | | | | | | | | | | | | |
| , | ence CFS | | | | | | | | | | | | |
| (A) = To | otal Interf. | | | | | | | | | | | | |
| (B) = 80 | % Nat. Q | | | | | | | | | | | | |
| (C) = 1 | % Nat. Q | | | | | | | | | | | | |
| (D) = (A | A) > (C) | √ |
| $(\mathbf{E}) = (\mathbf{A}$ | (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.

| — mipact | evaluation: |
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| 690-09-040 (5) Rights Section | (b) The potential to impair or detrimentally affect the public interest is to be determined by the Vn. |
| under this perm | ditioned , the surface water source(s) can be adequately protected from interference, and/or ground water to can be regulated if it is found to substantially interfere with surface water: permit should contain condition #(s) permit should contain special condition(s) as indicated in "Remarks" below; |
| ii. 🗌 The | permit should contain special condition(s) as indicated in "Remarks" below; |
| W / GW Remarks | and Conditions_ |
| W / GW Remarks | |
| eferences Used: | and Conditions |
| eferences Used: | and Conditions |
| eferences Used: | and Conditions |

Application G-17127 continued

| | | ΓΙΟΝ, OAR 690-200 | |
|-----|--|--|------------------|
| D1. | THE WELL does a. review of the control of C | not meet current well construction standards based upon: the well log; extion by CWRE excify) | |
| D3. | a. | truction deficiency: s a health threat under Division 200 rules; es water from more than one ground water reservoir; e loss of artesian head; e de-watering of one or more ground water reservoirs; ecify) | |
| D4. | THE WELL const | truction deficiency is described as follows: | |
| | | | |
| D5. | THE WELL | a. was, or was not constructed according to the standards in effecting original construction or most recent modification. b. Idon't know if it met standards at the time of construction. | t at the time of |
| D6. | | partment and approved by the Enforcement Section and the Ground Water S | |
| THI | S SECTION TO BE | COMPLETED BY ENFORCEMENT PERSONNEL | |
| D7. | ☐ Well construction d | leficiency has been corrected by the following actions: | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | (F. G | | , 200_ |
| | (Enforcem | ent Section Signature) | |
| D8. | ☐ Route to Water R | tights Section (attach well reconstruction logs to this page). | |

Application G-17127 continued