Groundwater Application Review Summary Form

| Application # G- 18 675 |
|--|
| GW Reviewer Arona Bouchier Date Review Completed: 18/2018 |
| |
| 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: |
| [v] 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). |

WATER RESOURCES DEPARTMENT **MEMO** Application G- 186 F5 TO: 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 ______ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced. Jan Feb Mar May Apr Jun Jul Sep Aug Oct Nov Dec

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

| TO: | | | Rights Se | | | | | | e1 | 1/8/20 | 18 | | |
|---------------|----------|-------------|---------------------|------------------------------|---------------------|-------------|--------------|--------------------|------------|---------|-------------|------------|--------------|
| FROM: | | Groun | dwater Se | ection | | | C Bouchie | er | | | | | |
| SUBJE | СТ | Applic | eation G | 18675 | | | | eview of <u>na</u> | | | | | |
| SUBJE | CI. | Applic | ation G- | 10075 | | Suj | perseues re | eview of <u>na</u> | | Г | Date of Rev | view(s) | |
| PUBLI | C INTI | EREST | PRESU | MPTION; | GROUNI | OWATE | R | | | | | | |
| | | | | | | | | ater use will e | ensure the | preser | vation o | f the pub | lic |
| | | | | | | | | w groundwate | | | | | |
| | | | | | | | | the proposed | | | | | |
| | | | | | | | , | d agency poli | | | | | ation. |
| A. <u>GEN</u> | NERAL | INFO | RMATIC | <u>)N</u> : A | pplicant's N | ame: | Montgome | ery Farms, Ll | LC | C | ounty: _ | Linn | |
| A1. | Applica | int(s) see | k(s) _1_ | cfs from | n <u>1</u> | well(| s) in the | Willamette | | | | | _Basin, |
| | 1 | Upper W | illamette | | | subb | asin | | | | | | |
| A2. | Propose | ed use _ | Irri | gation (79 ac | cres)_ | Seas | onality: _A | April - Octobe | r | | | | |
| A3. | Well an | d aquife | r data (att | ach and nu | mber logs f | or existin | g wells; ma | ark proposed | wells as | such u | nder log | gid): | |
| Well | Logic | 1 | Applicant' | S Propos | ed Aquifer* | Prop | | Location | | | | s and bou | |
| | | | Well # | | | Rate | | (T/R-S QQ- | | | | E fr NW | |
| 2 | Propos | ed | 1 | P | Alluvial | tb | d | 12S/3W-29 NE | E-NW | 321. | 5 5, 600 | W fr Cente | er S 20 |
| 3 | | | | | | | | | | | | | |
| 5 | | | | | | - | | | | | | | |
| | ım, CRB, | Bedrock | | | | | | | | | | | |
| | Well | First | | | Well | Seal | Casing | Liner | Perforat | ions | Well | Draw | |
| Well | Elev | Water | SWL ft bls | SWL Date | Depth | Interval | Intervals | Intervals | Or Scre | | Yield | Down | Test Type |
| 1 | ft msl | ft bls | It ors | Date | (ft) | (ft) | (ft) | (ft) | (ft) | | (gpm) | (ft) | Турс |
| 1 | 260 | | | | tbd | tbd | tbd | tbd | tbd | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Use data | from ann | lication fo | or proposed | wells | | | | | | | | | |
| | | | | | | | | | | | | | |
| A4. | Comm | ents: No | well con | struction is p | provided asi | de from th | ne intention | of producing | from san | ds and | gravels. | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| A5. 🛛 | Provis | ions of t | he <u>Willar</u> | nette | - 11 | . 1. | Basin r | ules relative t | o the deve | elopme | nt, classi | ification | and/or |
| | (Not all | basin ru | groundwa | ter nydrauli n such provi | cally connections.) | cted to sur | face water | □ are, or ⊠ |] are not, | activat | ted by th | is applic | ation. |
| | , | | | | , | thin ¼ mi | le of any pe | erennial surfac | e water f | eatures | so perti | nent basi | n rules |
| | | | | | | | | | | | • | | |
| | | | | | | | | | | | | | |
| A6. 🗌 | Well(s) | # | , | , | , | , | , ta | ap(s) an aquife | er limited | by an a | administ | rative res | striction. |
| | Name of | of admini | strative ar | ea: | | | | | | | | | |
| | Comme | :nts: | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Version: 05/07/2018

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

| | ed upon available data, I have determined that groundwater* for the proposed use: |
|---------------------------------|---|
| a. | is over appropriated, is not over appropriated, <i>or</i> 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) 7N (annual measurement); Large Water-Use Reporting 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 withholding 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): |
| | |
| | |
| The app | proposed well is located in an area that contains fine-grained sediments (Willamette Silt) from land surface to a depth of oximately 20 feet (Gannett et al., (1998). The well will be completed into alluvial fill of the Lebanon Fan (Woodward et |
| cons consurf mile grou | 1998). The alluvial fan deposits are composed of coarse- to fine-grained sediments approximately 100 ft thick and are sidered to be very productive aquifer system within the Willamette Valley. The aquifer is generally unconfined to semi-fined in the deeper zones and SWLs (both observed and reported on driller's logs) are typically within a 10-15 ft of land acc. The proposed well is located near long term observation well LINN 10562. LINN10562 (located approximately 1-to the south) shows seasonal fluctuation of approximately 10 feet (see hydrograph below). There have been many new andwater applications in this area, as well as numerous water rights which have been recently issued, not all of which ear to have begun production. |
| cons consurf mile grou | sidered to be very productive aquifer system within the Willamette Valley. The aquifer is generally unconfined to semi- fined in the deeper zones and SWLs (both observed and reported on driller's logs) are typically within a 10-15 ft of land ace. The proposed well is located near long term observation well LINN 10562. LINN10562 (located approximately 1- to the south) shows seasonal fluctuation of approximately 10 feet (see hydrograph below). There have been many new |
| consurf surf mile | sidered to be very productive aquifer system within the Willamette Valley. The aquifer is generally unconfined to semi- fined in the deeper zones and SWLs (both observed and reported on driller's logs) are typically within a 10-15 ft of land ace. The proposed well is located near long term observation well LINN 10562. LINN10562 (located approximately 1- to the south) shows seasonal fluctuation of approximately 10 feet (see hydrograph below). There have been many new andwater applications in this area, as well as numerous water rights which have been recently issued, not all of which |
| cons consurf mile grou | sidered to be very productive aquifer system within the Willamette Valley. The aquifer is generally unconfined to semi- fined in the deeper zones and SWLs (both observed and reported on driller's logs) are typically within a 10-15 ft of land ace. The proposed well is located near long term observation well LINN 10562. LINN10562 (located approximately 1- to the south) shows seasonal fluctuation of approximately 10 feet (see hydrograph below). There have been many new andwater applications in this area, as well as numerous water rights which have been recently issued, not all of which |
| cons consurf mile grou | sidered to be very productive aquifer system within the Willamette Valley. The aquifer is generally unconfined to semi- fined in the deeper zones and SWLs (both observed and reported on driller's logs) are typically within a 10-15 ft of land ace. The proposed well is located near long term observation well LINN 10562. LINN10562 (located approximately 1- to the south) shows seasonal fluctuation of approximately 10 feet (see hydrograph below). There have been many new andwater applications in this area, as well as numerous water rights which have been recently issued, not all of which |
| cons consurf mile grou | sidered to be very productive aquifer system within the Willamette Valley. The aquifer is generally unconfined to semi- fined in the deeper zones and SWLs (both observed and reported on driller's logs) are typically within a 10-15 ft of land ace. The proposed well is located near long term observation well LINN 10562. LINN10562 (located approximately 1- to the south) shows seasonal fluctuation of approximately 10 feet (see hydrograph below). There have been many new andwater applications in this area, as well as numerous water rights which have been recently issued, not all of which |
| cons consurf mile grou | sidered to be very productive aquifer system within the Willamette Valley. The aquifer is generally unconfined to semi- fined in the deeper zones and SWLs (both observed and reported on driller's logs) are typically within a 10-15 ft of land ace. The proposed well is located near long term observation well LINN 10562. LINN10562 (located approximately 1- to the south) shows seasonal fluctuation of approximately 10 feet (see hydrograph below). There have been many new andwater applications in this area, as well as numerous water rights which have been recently issued, not all of which |

3

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 | Alluvium of Lebanon Fan | | \boxtimes |
| | | | |
| | | | |
| | | | |
| | | | |

Basis for aquifer confinement evaluation: Almost all of the well logs in the area surrounding the location of the proposed well are greater than 30 feet deep. Many of the area well logs list a *Static Water Level* coincident with or a few feet above the zone at which water was first encountered, indicating unconfined to semi-confined conditions. Well logs listing deeper water bearing zones in also list *Static Water Levels* tens of feet above the water bearing zone, indicating greater confinement with depth. In general, in the Southern Willamette Valley the Willamette Silt does not act to confine the underlying aquifer (Conlon et al., 2005, page 13).

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) | Conn | ulically ected? ASSUMED | Potentia Subst. In Assum YES | terfer. |
|------|---------|--------------------|----------------------|----------------------|---------------|-----------|-------------------------------|---------------------------------------|-------------|
| 1 | 1 | Calapooia River | ~255 | 252 | 3,280 | \square | | | \boxtimes |
| | | - | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Basis for aquifer hydraulic connection evaluation: According to published groundwater elevation maps by Conlon et al. (2005) groundwater flows from this area northwest to the Calapooia River. Appropriation of water from the applicant's proposed well would intersect water that would eventually flow into the Calapooia River. Smaller creeks in the immediate area are not perennial.

Water Availability Basin the well(s) are located within: Watershed ID: 76 [CALAPOOIA R > WILLAMETTE R – AB MOUITH]

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 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 | | | 76A | 20 | \boxtimes | 22.70 | \boxtimes | <25% | \boxtimes |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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.

| 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: | The stream d | epletion | from the Ca | lapooia River | was estima | ited using the | Hunt 1999 n | nodel. | |

| Comments: | The stream depletion from the Calapooia River was estimated using the Hunt 1999 model. |
|------------------|--|
| | |
| - | |
| | |

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 | istributed | Wells | | | | , | | | | | | | |
|--|---------------------------------------|----------|----------|------|-----|-------|----------|----------|----------|-------|-----|-----|-----|
| Well | SW# | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well (| Q as CFS | | | | | | | | | | | | |
| Interfer | rence CFS | | | | | | | | | | | | |
| D: 4 '11 | . 1 337 11 | | | | | | | | | | | | |
| Well | outed Well SW# | s Jan | Feb | Mar | Apr | Mov | Jun | Jul | Aug | Can | Oct | Nov | Dec |
| WEII | 3 W # | 7an % | 7eb % | Wiai | Apr | May % | yun % | Jui % | Aug % | Sep % | % | % | % |
| Wall (| Q as CFS | % | % | % | % | % | % | % | % | % | % | % | % |
| | rence CFS | | | | | | | | | | | | |
| Interier | Tellec Cr 5 | % | % | % | % | % | % | % | % | % | % | % | % |
| Wall | Q as CFS | % | 70 | 70 | 70 | 70 | 70 | % | % | % | % | % | 70 |
| And the second s | rence CFS | | | | | | | | | | | | |
| Interier | T T T T T T T T T T T T T T T T T T T | % | % | % | C/ | % | % | 67 | 67 | % | Of | 67 | % |
| Wall | Q as CFS | % | % | % | % | % | % | % | % | % | % | % | % |
| | rence CFS | | | | | | | | | | | | |
| THEFTE | The Cr 5 | % | % | % | % | % | % | % | % | % | % | % | % |
| Wall | Q as CFS | % | 70 | 70 | 70 | 70 | 70 | 70 | 76 | % | % | 70 | 70 |
| | rence CFS | | | | | | | | | | | | |
| IIIICITCI | Tence Cr3 | % | % | % | % | % | % | % | % | % | % | % | % |
| Well (| Q as CFS | % | 70 | 76 | 76 | % | % | % | % | % | % | 76 | 70 |
| | rence CFS | | | | | | | | | | | | |
| merici | Tenee Cr 5 | % | % | % | % | % | % | % | % | % | % | % | % |
| Well (| Q as CFS | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| | rence CFS | | | | | | | | | | | | |
| THICHICI | chec er o | | | | | | | | | | | | |
| $(\mathbf{A}) = \mathbf{T}$ | otal Interf. | | | | | | | | | | | | |
| (B) = 80 | % Nat. Q | | | | | | | | | | | | |
| (C) = 1 | % Nat. Q | | | | | | | | | | | | |
| (D) = | (A) > (C) | | | | | | | | | | | | |
| | /B) x 100 | % | % | % | % | % | % | % | % | % | % | % | % |

5 Application G-18675 Date: 11/8/2018 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 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: Not applicable. 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Water C4b. Rights Section. C5.

If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater use 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; C6. SW / GW Remarks and Conditions: Five to ten feet of saturated Willamette Silt lies between the bed of the Calapooia River and the underlying aquifer. This fine-grained material, which acts as a resistor between the aquifer and the stream, will attenuate pumping impacts from the well. References Used: Application file G-18675, and nearby G-16150, G-17488, G-17976, and G-18649 Conlon, T. D., Wozniak, K. C., Woodcock, D., Herrera, N.B., Fischer, B.J. Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-Water Hydrology of the Willamette Basin, Oregon: U. S. Geological Survey Scientific Investigations Report 2005-5168. Gannett, Marshall W., and Caldwell, Rodney R., 1998, Geologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington: U. S. Geological Survey Professional Paper 1424-A. Herra, N. B., Burns, E. R., and Conlon, T. D, 2014, Simulation of groundwater flow and the interaction of groundwater and surface water in the Willamette Basin and Central Willamette subbasin, Oregon: U.S. Geological Survey Scientific Investigations Report 2014-5136, 152 p., http://dx.doi.org/10.3133/sir20155136. Hunt, B., 2003, Unsteady stream depletion when pumping from semiconfined aquifer: Journal of Hydrologic Engineering, January/February, 2003.

Hunt, B., 1999, Unsteady stream depletion from ground water pumping: Ground Water, v. 37, no. 1, p. 98-102.

Lowland Aquifer System, Oregon and Washington: U. S. Geological Survey Professional Paper 1424-B.

Nearby well logs and water level data.

Woodward, Dennis G., Gannett, Marshall W., and Vaccaro, John J., 1998 Hydrogeologic Framework of the Willamette

Application G-18675

Date: 11/8/2018

6

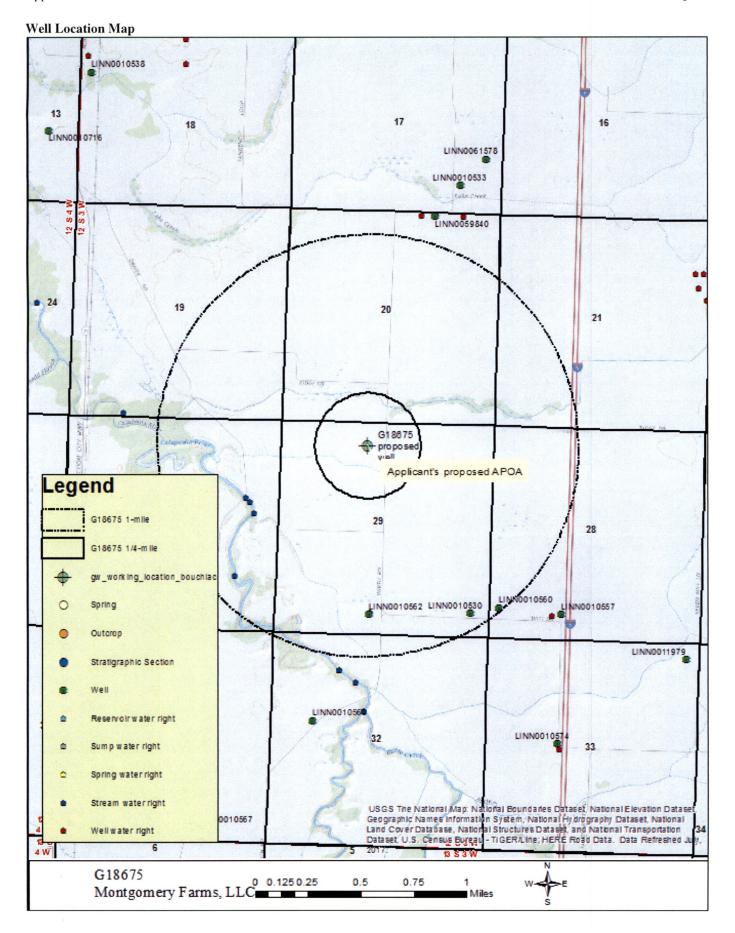
Page

D. WELL CONSTRUCTION, OAR 690-200

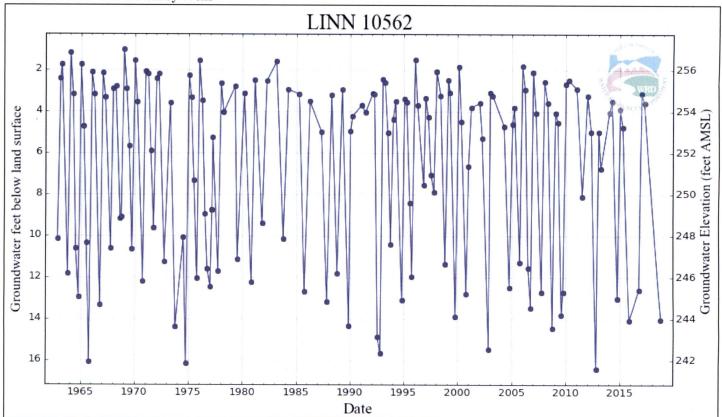
| D1. | Well #: | Logid: | |
|-----|---------|---|----|
| | a. | ELL does not appear to meet current well construction standards based upon: review of the well log; field inspection by report of CWRE other: (specify) | _; |
| D3. | | ELL construction deficiency or other comment is described as follows: | |
| | | | _ |
| | | to the Well Construction and Compliance Section for a review of existing well construction. | |
| | | ity Tables | = |
| | | DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION | ٦ |

| | | DETAILED REPORT | ON THE WATER AVAILA | BILITY CALCULATION | N | | | | | | | | |
|---|--|-----------------------------------|----------------------------|----------------------------|--------------------------|---------------------------|--|--|--|--|--|--|--|
| CALAPOOIA R > WILLAMETTE R - AB MOUTH Watershed ID #: 76 Basin: WILLAMETTE Exceedance Leve Time: 9:23 AM Date: 11/08 | | | | | | | | | | | | | |
| Month | Natural Stream Flow | Consumptive Use and Storage | Expected Stream Flow | Reserved Stream Flow | Instream Requirements | Net Water Available | | | | | | | |
| | Monthly values are in cfs. Storage is the annual amount at 50% exceedance in ac-ft. | | | | | | | | | | | | |
| JAN | 592.00 | 3.37 | 589.00 | 0.00 | 20.00 | 569.00 | | | | | | | |
| FEB MAR | 650.00 575.00 | 3.32 2.24 | 647.00 573.00 | 0.00 | 20.00 | 627.00 | | | | | | | |
| APR | 423.00 | 1.95 | 421.00 | 0.00 | 20.00 | 553.00 401.00 | | | | | | | |
| MAY | 234.00 | 18.30 | 216.00 | 0.00 | 20.00 | 196.00 | | | | | | | |
| JUN | 111.00 | 12.80 | 98.20 | 0.00 | 20.00 | 78.20 | | | | | | | |
| JUL | 49.00 | 19.60 | 29.40 | 0.00 | 20.00 | 9.42 | | | | | | | |
| AUG | 26.00 | 14.10 | 11.90 | 0.00 | 20.00 | -8.09 | | | | | | | |
| SEP | 22.70 | 7.36 | 15.30 | 0.00 | 20.00 | -4.66 | | | | | | | |
| OCT | 29.60 | 1.92 | 27.70 | 0.00 | 20.00 | 7.68 | | | | | | | |
| NOV | 133.00 | 2.39 | 131.00 | 0.00 | 20.00 | 111.00 | | | | | | | |
| DEC ANN | 499.00 404.000 | 3.33 5.500 | 496.00 398.000 | 0.00 | 20.00 | 476.00 | | | | | | | |
| | | | 390,000 | | 14,500 | 384,000 | | | | | | | |

| Monthly values are in cfs. MF76A CERTIFICATE 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20. | | | | | | | | | | | | | | |
|--|---------|-------------|------|------|----------|---------|----------|----------|----------|------|------|------|-------|------|
| Watershed ID #: 76 Basin: WILLAMET Time: 10:56 AM Date: 11/08/20 Application Number Status JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV D Monthly values are in cfs. Monthly values are in cfs. | | | | DET | AILED RE | PORT OF | INSTREAM | REQUIRE | MENTS | | | | | |
| Number Status JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV D Monthly values are in cfs. MF76A CERTIFICATE 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20. | | | | C | ALAPOOIA | R > WIL | LAMETTE | R - AB M | оитн | | | | | |
| MF76A CERTIFICATE 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20. | | Status | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ост | NOV | DEC |
| | | | | | | | Monthly | values | are in c | fs. | | | | |
| MAXIMUM 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20. | MF76A | CERTIFICATE | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.00 | 20.0 |
| | MAXIMUM | | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |



Water-Level Trends in Nearby Wells



Stream Depletion Model Results

