

Approved:



# MEMO

**To:** Kristopher Byrd, Well Construction Manager  
**From:** Tommy Laird, Well Construction Program Coordinator  
**Subject:** Review of Water Right Application G-19039  
**Date:** February 20, 2024

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Dennis Orłowski reviewed the application. Please see Dennis' Groundwater Review and the Well Report.

Applicant's Well #1 (CLAC 75780): Based on a review of the Well Report, Applicant's Well #1 seems to protect the groundwater resource.

The construction of Applicant's Well #1 may not satisfy hydraulic connection issues.

**(1) OWNER:** Well Number: **01**  
 Name **Happy Hollow Farms / Will Garrison**  
 Address **2050 Beaver Creek Rd, Suite 102-169**  
 City **Oregon City** State **OR** Zip **97045**

**(2) TYPE OF WORK:**  
 New Well  Deepening  Alteration (repair/recondition)  Abandonment

**(3) DRILL METHOD:**  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other

**(4) PROPOSED USE:**  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other

**(5) BORE HOLE CONSTRUCTION:**  
 Special Construction approval  Yes  No Depth of Completed Well **60** ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
10	0	52	Bentonite	20	0	9 Sacks
6	52	60	Calculated			9 Sacks

How was seal placed: Method  A  B  C  D  E  
 Other **Poured**  
 Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from **52** ft. to **20** ft. Size of gravel **3/8 pea 27sks**

**(6) CASING/LINER:**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: <b>6</b>	<b>+2</b>	<b>52</b>	<b>.250</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: <b>4.5</b>	<b>3</b>	<b>60</b>	<b>Sch40</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Drive Shoe used  Inside  Outside  None  
 Final location of shoe(s) \_\_\_\_\_

**(7) PERFORATIONS/SCREENS:**

Perforations Method **Torch / Saw**  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
<b>40</b>	<b>51</b>	<b>1/8x</b>	<b>22</b>			<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>50</b>	<b>60</b>	<b>1/8x3</b>	<b>45</b>			<input type="checkbox"/>	<input checked="" type="checkbox"/>

**(8) WELL TESTS: Minimum testing time is 1 hour**  
 Pump  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
<b>40</b>		<b>57</b>	<b>1 hr.</b>

TDS Amount **20.6 ppm**

Temperature of Water **56.6°** Depth Artesian Flow found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom **SDI, Iron Trace**  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

**(9) LOCATION OF WELL by legal description:**  
 County **Clackamas** Latitude **45.25726** Longitude **122.58618**  
 Township **4SOUTH** N or S. Range **2EAST** E or W. of WM.  
 Section **05** **NW** 1/4 **NE** 1/4  
 Tax lot **200** Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) **13678 S Spangler Rd,**  
**Oregon City, Oregon**

**(10) STATIC WATER LEVEL:**  
**22** ft. below land surface. Date **5/4/2020**  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

**(11) WATER BEARING ZONES:**  
 Depth at which water was first found **22'**

From	To	Estimated Flow Rate	SWL
<b>22</b>	<b>57</b>	<b>40 5/4/20</b>	<b>22</b>

**(12) WELL LOG:** Ground elevation \_\_\_\_\_

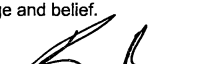
Material	From	To	SWL
<b>Topsoil, brown</b>	<b>0</b>	<b>3</b>	
<b>Clay, reddish-brown</b>	<b>3</b>	<b>18</b>	
<b>Lava, multicolored weathered</b>	<b>18</b>	<b>39</b>	<b>22</b>
<b>Lava, gray &amp; brown soft</b>	<b>39</b>	<b>48</b>	<b>22</b>
<b>Lava, gray &amp; brown fractured</b>	<b>48</b>	<b>51</b>	<b>22</b>
<b>Lava, gray fractured</b>	<b>51</b>	<b>57</b>	<b>22</b>
<b>Lava, gray w/white specks</b>	<b>57</b>	<b>60</b>	

**SKYLES DRILLING, INC.**  
**503-656-2683**

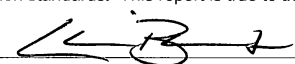
**RECEIVED**  
**MAY 08 2020**  
**OWRD**

Date started **5/1/2020** Completed **5/4/2020**

**(unbonded) Water Well Constructor Certification:**  
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed  WWC Number **1715**  
 Date **5/4/2020**  
**Skyles Drilling, Inc.**

**(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 **2006**  
 Date **5/4/2020**  
**Skyles Drilling, Inc.**

# Groundwater Application Review Summary Form

Application # G- 19039

GW Reviewer Dennis Orłowski Date Review Completed: February 17, 2023

## 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).*

**WATER RESOURCES DEPARTMENT**

**MEMO**

**February 17, 2023**

**TO: Application G- 19039**

**FROM: GW: Dennis Orlowski  
(Reviewer's Name)**

**SUBJECT: Scenic Waterway Interference Evaluation**

- YES** The source of appropriation is hydraulically connected to a State Scenic Waterway or its tributaries
- NO**

- YES**
- NO** Use the Scenic Waterway Condition (Condition 7J)

- 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 [Enter] Scenic 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

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: Water Rights Section Date February 17, 2023  
 FROM: Groundwater Section Dennis Orłowski  
 Reviewer's Name  
 SUBJECT: Application G- 19039 Supersedes review of \_\_\_\_\_  
 Date of Review(s)

**PUBLIC INTEREST PRESUMPTION; GROUNDWATER**

**OAR 690-310-130 (1)** *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review groundwater applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

**A. GENERAL INFORMATION:** Applicant's Name: G Can of Oregon LLC County: Clackamas

A1. Applicant(s) seek(s) 0.0222 cfs from one well(s) in the Willamette Basin,  
Willamette subbasin

A2. Proposed use Nursery (156.34 acres) Seasonality: Year-round

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	CLAC 75780	Well 1	Volcanics/Alluvium**	0.0222	T4S/R2E-S5 NW-NE	670'S, 1770'W of NE cor S5

\* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	595	22	22	5/4/2020	60	0-20	+2-52	3-60	40-51	40	--	Air

Use data from application for proposed wells.

A4. **Comments:** The proposed POA/POU location is approximately five miles due east of Canby, Oregon.

\*\* The CLAC 75780 well log indicates approximately 40 feet of "lava" underlying about 20 feet of topsoil and clay, with all water-bearing zones present within "lava." In this area geologic conditions are very complex, with basalts (Boring Lava and/or High Cascades Volcanics) underlying, overlying and/or occasionally interfingering with alluvial deposits. Local hydrogeologic conditions are discussed in more detail in Section B3 of this review.

A5.  **Provisions of the** Willamette Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water  **are, or**  **are not,** activated by this application. (Not all basin rules contain such provisions.)

Comments: The proposed POA will produce groundwater from a confined (to semi-confined) aquifer and is greater than 1/4 mile from the nearest perennial stream reach, and thus the pertinent Willamette Basin rules (OAR 690-502-0240) do not apply.

A6.  **Well(s) #** \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, tap(s) an aquifer limited by an administrative restriction.

Name of administrative area: Not applicable

Comments: \_\_\_\_\_

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

B1. **Based 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 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;
  - 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;

- B2.
- 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): \_\_\_\_\_

- B3. **Groundwater availability remarks:** The proposed POA is located near the edge of the upland plateau located east of Canby and south of Oregon City that divides the Portland Basin and the central Willamette Valley. In this upland area the Boring Lava rest unconformably on the eroded Pliocene Troutdale Formation, and is locally overlain by Quaternary gravel and mudflow deposits. The Troutdale Formation in this area is typically comprised of low permeability silts and clays, with some thin interbeds of water-bearing sand and fine gravel that provide local sources of groundwater (Gannett and Caldwell, 1998; Woodward and others, 1998; Conlon and others, 2005). Nearby well logs show very heterogeneous geologic conditions in a relatively-small area: (1) volcanics overlying sediments (CLAC 76536); (2) mixture of volcanics interlayered with sediments (CLAC 16260); or (3) only sediments (CLAC 71789). Because groundwater can typically move freely between the volcanics and alluvial deposits, the USGS has combined the two general lithologies into their delineation of the Troutdale Gravel Aquifer (TGA); the TGA is mapped farther to the north in the Portland Basin, but similar heterogeneous conditions appear to be present in this area.

Groundwater development in this area is limited, and thus groundwater level data are likewise sparse. However, available data from CLAC 13583, located approximately 2,000 feet to the south and of comparable completion depth and elevation, has shown generally stable water levels between 2005 and 2016 (see hydrograph); this dataset suggests that the targeted aquifer is not over-appropriated and that the proposed use is within the capacity of the resource. However, despite these favorable conditions (including the low requested allocation for this application), the following permit condition is recommended to gain additional data to help manage the resource: 7N (annual measurement condition).

**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 (Troutdale Fm/Boring Lava)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Basis for aquifer confinement evaluation:** The well log for Well 1 (CLAC 75780) shows the presence of “weathered lava” from 18-39 ft bgs; overlying the weathered lava is 15 feet of clay. The upper portions of the weathered lava combined with the clay likely constitutes an effective confining unit for the water-bearing lava reportedly present from 22-57 ft bgs (with a reported SWL of 22 ft bgs just at/within the confining layer). This is likely a semi-confined aquifer condition.

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?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	Unnamed tributary to Parrott Creek (N)	570-580	180-490	1,380	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Basis for aquifer hydraulic connection evaluation:** The estimated range of groundwater elevations for Well 1 (based largely on measurements from nearby CLAC 13583 and the single SWL recorded on the Well 1-CLAC 75780 log) is above the range of elevations for the nearest perennial reach of SW1. The moderately-large separation between the two estimated ranges (80 ft) suggests this is not likely a highly-efficient hydraulic connection, but still connected nonetheless.

**Water Availability Basin the well(s) are located within:** WID 181: Willamette River > Columbia River – 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 (SW) source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that SW source, 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 < ¼ 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	<input type="checkbox"/>	<input type="checkbox"/>	MF181A	1,500	<input type="checkbox"/>	4,890	<input type="checkbox"/>	<<25% (see comment)	<input type="checkbox"/>

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?
			<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

**Comments:** C3a: there are no readily-available analytical stream depletion models that are applicable to this mixed aquifer system (alluvium/volcanics). Given the likely low-efficiency hydraulic connection between the shallow aquifer system and SW1, coupled with very low requested pumping allocation (0.0222 cfs, ~10 gpm), it was concluded that potential stream interference at 30 days would be much less than 25%.

C3b: not applicable.

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 Wells													
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													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(E) = (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:** Not applicable.

C4b. **690-09-040 (5) (b)** The potential to impair or detrimentally affect the public interest is to be determined by the Water 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:** None.

**References Used:** Application files: G-19039, G-18589, G-18399

Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, 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, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-A, 32 p.

Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.



**D. WELL CONSTRUCTION, OAR 690-200**

D1. Well #: 1 Logid: CLAC 75780

D2. **THE WELL does not appear to meet current well construction standards based upon:**

- a.  review of the well log;
- b.  field inspection by \_\_\_\_\_;
- c.  report of CWRE \_\_\_\_\_;
- d.  other: (specify) \_\_\_\_\_

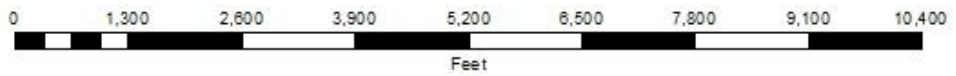
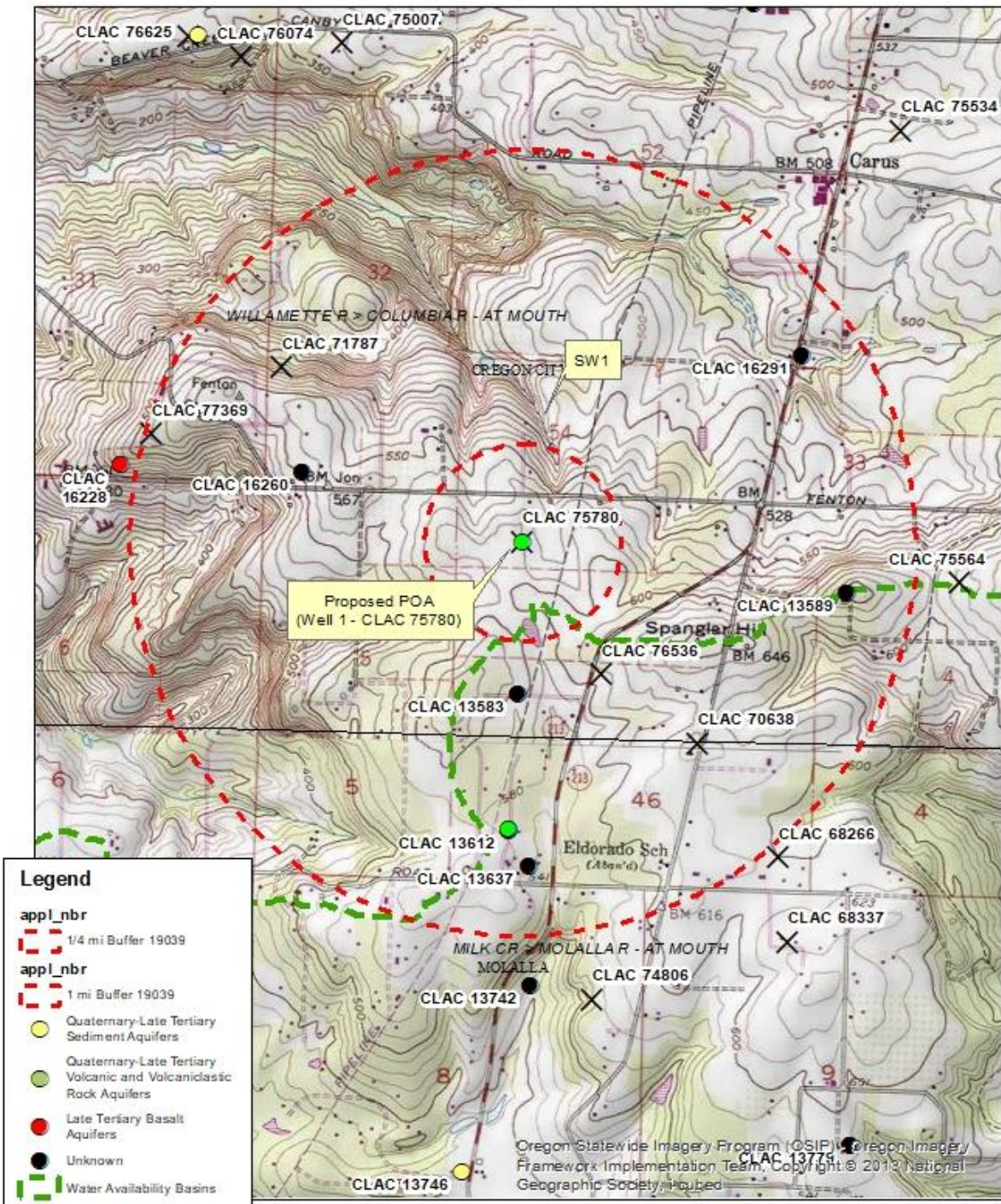
D3. **THE WELL construction deficiency or other comment is described as follows:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D4.  **Route to the Well Construction and Compliance Section for a review of existing well construction.**

\_\_\_\_\_

Well Location Map

### Application G-19038, G-Can T4S, R2E, Section 5



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Water Availability Table

Oregon Water Resources Department  
Water Availability Analysis

Main Help  
Return Contact Us

### Water Availability Analysis Detailed Reports

WILLAMETTE R > COLUMBIA R - AT MOUTH  
WILLAMETTE BASIN

Water Availability as of 2/17/2023

Watershed ID #: 181 [\(Map\)](#) Exceedance Level: 80%  
Time: 2:03 PM

Water Availability Calculation
Consumptive Uses and Storages
Instream Flow Requirements
Reservations
Water Rights
Watershed Characteristics

Water Availability Calculation

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

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	27,500.00	2,700.00	24,800.00	0.00	1,500.00	23,300.00
FEB	30,000.00	7,970.00	22,000.00	0.00	1,500.00	20,500.00
MAR	28,500.00	7,550.00	20,900.00	0.00	1,500.00	19,400.00
APR	25,400.00	7,200.00	18,200.00	0.00	1,500.00	16,700.00
MAY	20,700.00	4,430.00	16,300.00	0.00	1,500.00	14,800.00
JUN	11,000.00	2,360.00	8,640.00	0.00	1,500.00	7,140.00
JUL	6,280.00	2,310.00	3,970.00	0.00	1,500.00	2,470.00
AUG	4,890.00	2,070.00	2,820.00	0.00	1,500.00	1,320.00
SEP	4,930.00	1,690.00	3,240.00	0.00	1,500.00	1,740.00
OCT	5,990.00	735.00	5,260.00	0.00	1,500.00	3,760.00
NOV	12,700.00	1,040.00	11,700.00	0.00	1,500.00	10,200.00
DEC	24,800.00	1,360.00	23,400.00	0.00	1,500.00	21,900.00
ANN	19,700,000.00	2,480,000.00	17,300,000.00	0.00	1,090,000.00	16,200,000.00

Water-Level Measurements in Nearby Wells

Oregon Water Resources Department  
OWRD Groundwater Hydrographs

Search Records

Well Log Id:  or GW Logid: CLAC0013583 Chart Clear

Well Location:	4.00S/2.00E-5DB-	Total Depth (bis):	94 ft	Water Level Count:	11
Log ID:	CLAC 13583 <a href="#">Well Log</a>	Land Surface Elevation:	602 ft	Wtr Lvl Date Range:	3/30/2005 - 3/14/2016
Well Tag:	---	Vertical Reference Datum:	NAVD1988	Wtr Lvl Depth Min-Max:	11.97 - 22.75 ft
State Observation:	---	Primary Use of Well:	---	Recorder Wtr Lvl Count:	0
USGS Site:	---	Primary Aquifer System:	---	Recorder Wtr Lvl Date Range:	---
More information:	<a href="#">GWIS</a>	<a href="#">Groundwater Mapping Tool</a>	---	Recorder Wtr Lvl Depth Min-Max:	---

#### Groundwater Levels for CLAC 13583

Zoom **All** Mar 30, 2005 — Mar 14, 2016

Water Level - Feet Below Land Surface  
(Elevation - Feet Above Mean Sea Level)

--- Combined Water Level
▲ Other Water Level
▲ OWRD Water Level

--- OWRD Water Level
--- Mean Daily Water Level (Provisional)
--- Mean Daily Water Level (Reviewed)

Source: Oregon Water Resources