

STATE OF OREGON
Water Resources Department
725 Summer St. N.E.
Salem, OR 97301

MEMORANDUM

DATE: 12/5/2022

TO: Mary Bjork, Water Rights Program Analyst; Justin Iverson, GW Section Manager
FROM: Gabriela Ferreira and Dennis Orłowski, Hydrogeologists
SUBJECT: Application G- 12563 Permit G- 17835
Information to Assess Permit Renewal Request

Location: T 2 S/ R 2 W- S 28
GW Limited Area Chehalem Mountain Groundwater Limited Area (GWLA)
Permittee: James and Shirley Leek
Use: Nursery operations on 9.97 acres
Priority Date: June 10, 1991
Permit History:

Document/Permit	Date Issued	Date Expired
G-11441 EX	3/2/1992	3/2/1997
G-13218 EX	9/30/1997	9/30/2002
G-15086 EX	8/12/2002	10/31/2004
G-15909 EX	5/5/2005	10/31/2009
G-16629 EX	2/1/2011	10/31/2014
G-17835 EX	8/9/2017	9/30/2021

Q: 0.1943 cfs
Well Logs: WASH 315/WASH 61221 (WASH 61221 is an alteration log to cleanout the existing borehole and install a liner)
Decline Triggers: “The water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s) if annual water level measurements reveal any of the following events: (A) An average water level decline of three or more feet per year for five consecutive years; or (B) A water level decline of 15 or more feet in fewer than five consecutive years; or (C) A water level decline of 25 or more feet; or (D) Hydraulic interference leading to a decline of 25 or more feet in any neighboring well with senior priority.”
Renewal Criteria: “The Director finds the groundwater resource can probably support the continued use.”
Pump Test: A pumping test for WASH 315 was approved on March 3, 2021.
Long-term supply plan: Submitted in 1998.
Water Use Rptg: Submitted from water years 2000 through 2022 (minus 2002 and 2003).
COBU: Yes (submitted 2005).

Water Level Rptg: Yes. Permittee is required to submit a March water level each year; current through 2022 (see attached hydrograph for WASH 315).

Ref. Water Level: 360.25 ft bls (stated in permit G-17835).

SWL Data: See attached hydrograph for WASH 315.

Comments

TRIGGERS. No triggers have been exceeded since the last permit renewal in 2017.

Despite not triggering a decline condition as of the date of this review, a persistent downward trend in WASH 315 water levels (1997-2022) warrants close attention in the future. The data from WASH 315 show an initial decline of about 30 feet from the late 1990s into the early 2000s (from a high of 356.17 ft bls in 1997 to a low of 386.5 in 2004). In 2004-2005 water levels increased and somewhat stabilized through 2014. From 2014 through 2022, water levels have again slowly declined approximately 11 feet (measurement from March 2022 of 379.9 ft bls and a low of 383.42 in 2021). The declines do not appear to track with precipitation data.

RECOVERY FROM TRIGGER LEVELS. This is not a current issue.

AREA WATER LEVEL BEHAVIOR. Nearby wells show moderately stable water levels (see attached hydrograph for nearby observation wells) with fluctuations around 5 to 7 feet annually. WASH 12978 also shows some decline through the early 2000s (approximately 10-12 feet) with some recovery through 2017, and a declining trend again the past few years of approximately 6 feet from spring measurements.

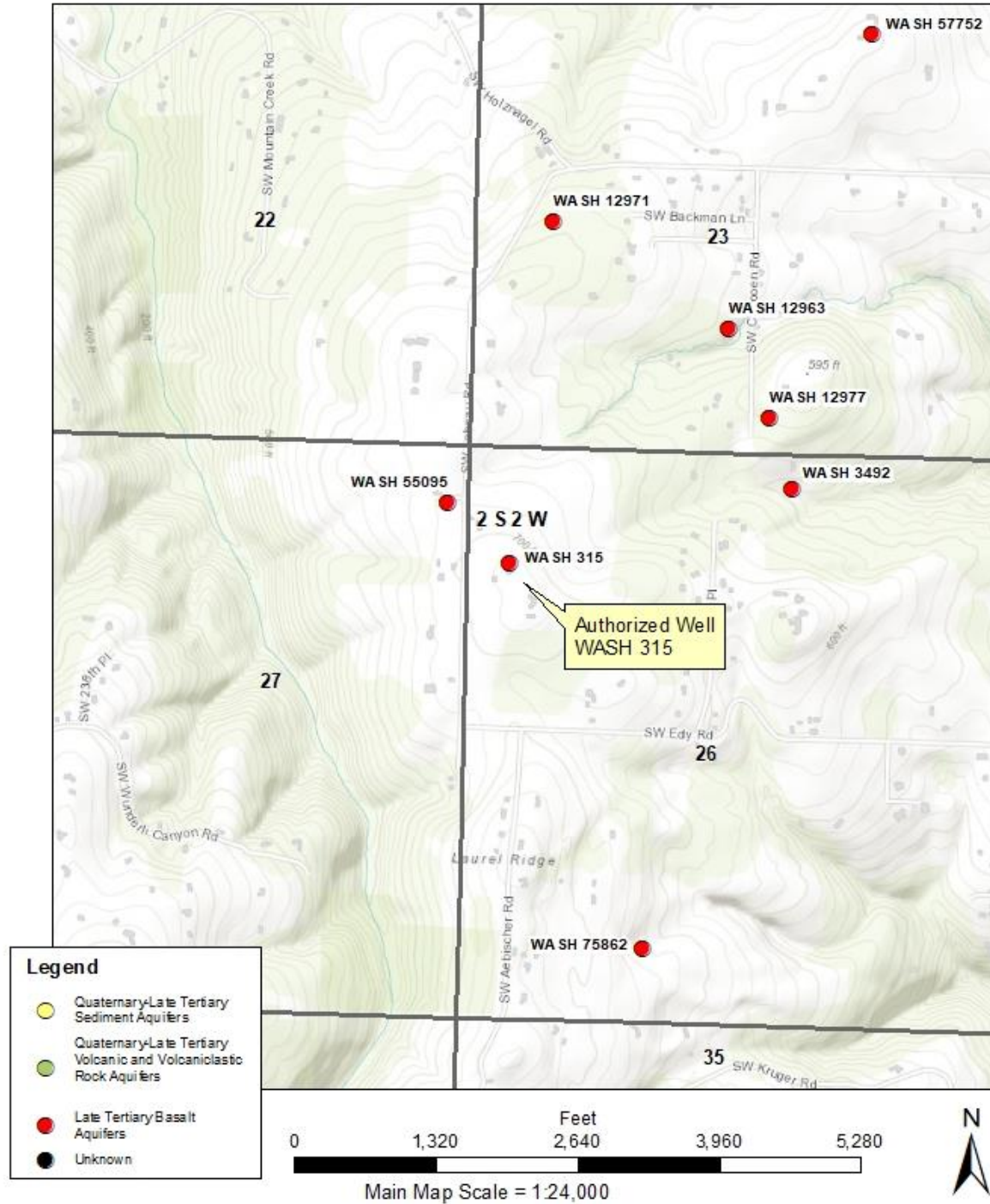
PERMIT RENEWAL. The groundwater resource can probably support the extended use.

The Groundwater Section finds that renewal criteria for permit G-17835 have been satisfied.

If renewed by the Water Rights Section, it is requested that the renewal for application G-12563/permit G-17835 include an **expiration date of October 31, 2028**. The Groundwater Section proposes that, to the extent possible, all time-limited permits within a particular GWLA possess the same expiration date. The goal for synchronizing expiration dates will be to streamline future groundwater technical reviews by allowing them to be done concurrently for a particular GWLA.

Area Map

Permit G-17835 EX, Renewal Review
James and Shirley Leek
T2S/R2W, Section 28



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Water Use Report

Water Use Report Based on Water Right

Permit: G 17835 EX
 LEEK, JAMES H. 22164 SW LEBEAU RD SHERWOOD, OR 97140

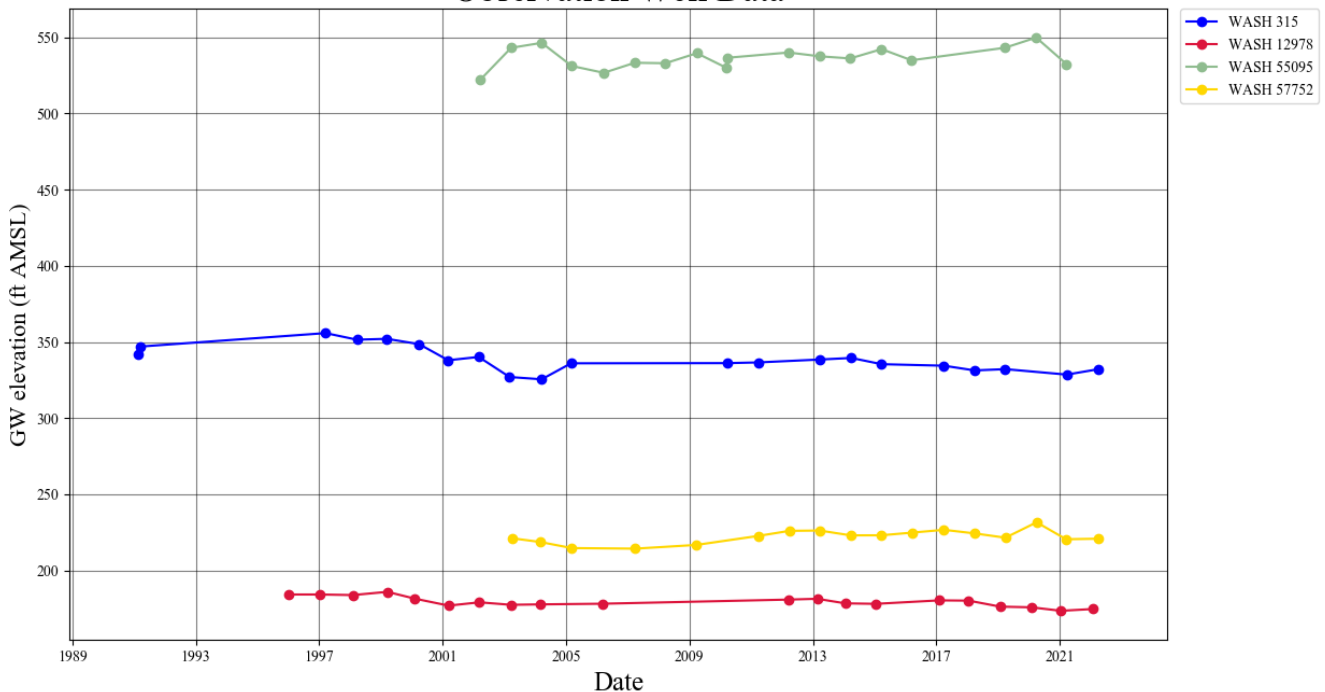
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Water Year*	Report ID	Facility	Acre-feet (AF) of Water Used												Total Water Used	Irrigated Acres		
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
2022	23957	LEEK FARM WELL (WASH 315/L-69632)	0.06	0.05													0.12	2.00
2021	23957	LEEK FARM WELL (WASH 315/L-69632)	0.17	0.09	0.03	0.03	0.05	0.12	0.13	0.24	0.43	0.65	0.65	0.07			2.67	2.00
2020	23957	LEEK FARM WELL (WASH 315/L-69632)	0.13	0.08	0.04	0.04	0.08	0.12	0.14	0.25	0.50	0.63	0.65	0.07			2.72	2.00
2019	23957	LEEK FARM WELL (WASH 315/L-69632)	0.13	0.11	0.05	0.06	0.08	0.12	0.14	0.22	0.46	0.62	0.64	0.07			2.69	
2018	23957	LEEK FARM WELL (WASH 315/L-69632)	0.12	0.09	0.06	0.11	0.17	0.12	0.14	0.39	0.75	1.33	0.84	0.15			4.29	2.00
2017	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.06	0.06			0.57	1.50
2016	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.15	0.15	0.15	0.22	0.22	0.07			1.02	
2015	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.01			0.08	1.50
2014	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.01			0.09	1.50
2013	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.09	0.12	0.15	0.15	0.09			0.78	
2012	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.71	2.00
2011	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.71	2.00
2010	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.71	2.00
2009	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.71	2.00
2008	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.64	
2007	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.71	2.00
2006	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.71	
2005	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.71	2.00
2004	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.14	0.14	0.14	0.07			0.71	2.00
2001	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	1.16	1.66	3.87	4.42	5.52	5.52	3.31			25.47	
2000	23957	LEEK FARM WELL (WASH 315/L-69632)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	1.86	1.93	1.93	1.24			8.58	

*The water year is named for the calendar year in which it ends. Example: the 2018 water year begins Oct. 1, 2017 and ends Sep. 30, 2018.

Hydrograph – Area observation wells

Observation Well Data



Hydrographs – Authorized POA (WASH 315)

