

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- 12120 Permit G- 18527
 Information to Assess Permit Renewal Request

Location: T 3S/ R 2W- S 16
 GW Limited Area Chehalem Mountain Groundwater Limited Area (GWLA)
 Permittee: OXBERG LAKES ESTATES HOMEOWNERS ASSOCIATION
 Use: Group domestic for 39 families (0.18 cfs), including irrigation of lawn or noncommercial garden not to exceed ½ acre in area for each
 Priority Date: 5/18/1990
 Permit History:

Document/Permit	Date Issued	Date Expired
G-11526 EX	6/2/1992	6/2/1997
G-13675 EX	6/18/1999	6/18/2004
G-15638 EX	9/9/2004	10/31/2008
G-16744 EX	1/24/2011	10/31/2013
G-17120 EX	1/16/2014	10/31/2018
G-18527 EX	12/11/2020	10/31/2022

Q: 0.18 cfs
 Well Logs: YAMH 2385 and YAMH 2386
 Decline Triggers: “If a well listed on this permit displays a total static water-level decline of 25 or more feet over any period of years, as compared to the reference level, then the appropriators shall discontinue use of, or reduce the rate of volume of withdrawal from, the wells. Such action shall be taken until the water level recovers to above the 25-foot decline level or once the Department determines, based on the appropriator’s or the Department’s data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights.”
 Renewal Criteria: “The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.”
Also: “Determination that groundwater resource can probably support extended use” (OAR 690-502-0200(1)).

Pump Test: A pumping test for YAMH 2385 was approved on March 3, 2021 and a pumping test for YAMH 2386 was completed on August 4, 1997.

Long-term Supply Plan: Submitted in 1998.

Water Use Reporting: Submitted from water years 2000 through 2021.

COBU: Yes (received 7/11/1997).

Water Level Reporting: Yes. Permittee is required to submit a March water level each year; current through 2022 (see attached hydrograph for YAMH 2385 and YAMH 2386).

Ref. Water Levels: Well #1 (YAMH 2386) – 20 feet below land surface, Well #2 (YAMH 2385) – 31 feet below land surface

SWL Data: See attached hydrograph for YAMH 2385 and YAMH 2386.

Comments

TRIGGERS. No triggers have been exceeded since the last permit renewal in 2014.

Historical water levels for the wells dating back to 2000 generally show annual fluctuations of up to 5 feet, with a few years (2004, 2005) up to 10 feet. Since 2019, water levels have varied up to 20 feet and are reported as static measurements. From 2018 through 2021, annual precipitation was lower than usual as shown by the deviation from mean precipitation plotted with the attached hydrograph. This variation may reflect effects of the multiyear drought and increased groundwater use.

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

AREA WATER LEVEL BEHAVIOR. Nearby wells within about 3 miles show generally stable water levels (see attached hydrograph for nearby observation wells). Groundwater data from the permitted wells (YAMH 2385 and YAMH 2386) show recent high variability, as described above. Other nearby observations wells do not show the same behavior, which suggests the water level variability is limited to the POAs.

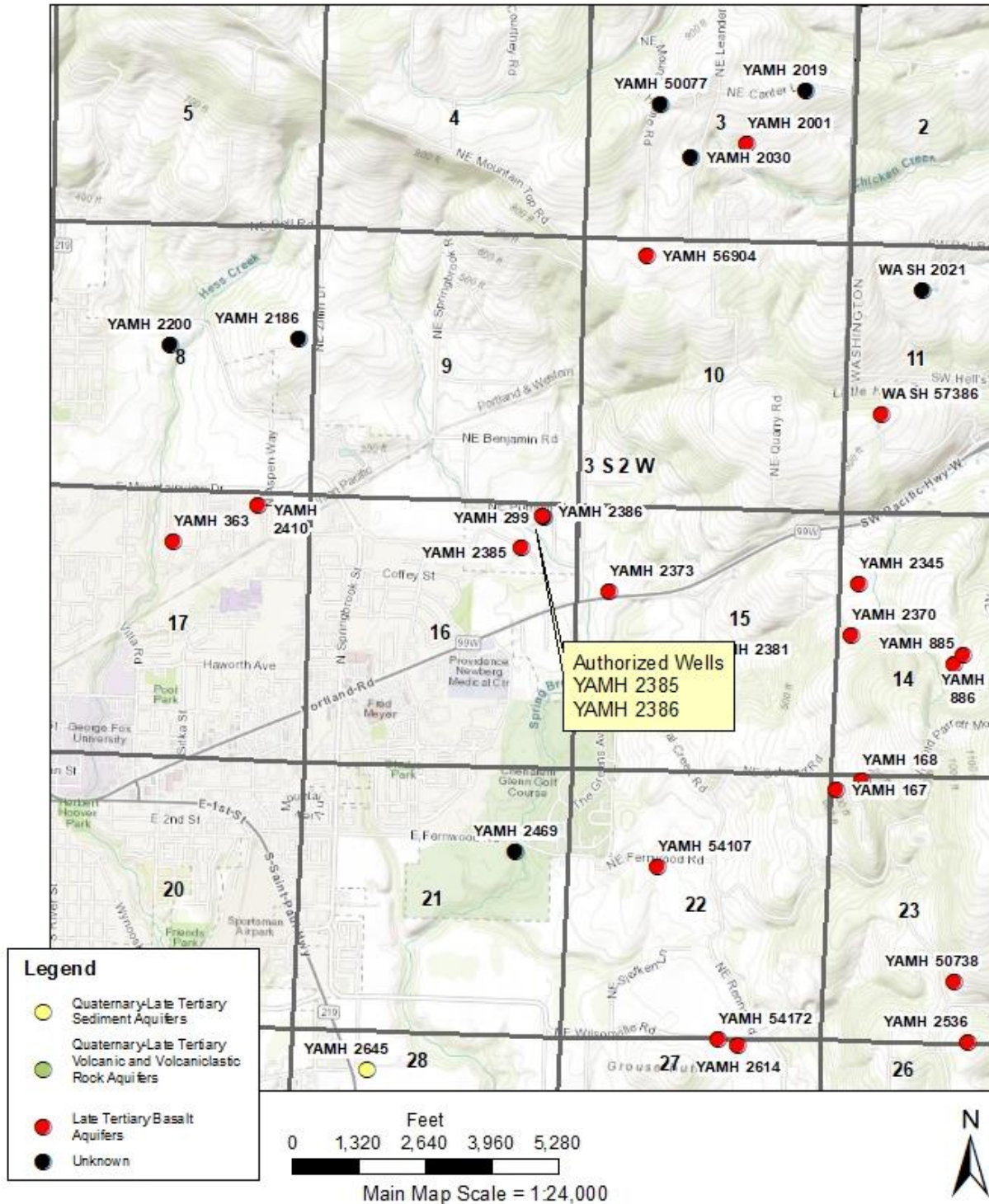
PERMIT RENEWAL. The groundwater resource can probably support the extended use.

The Groundwater Section finds that renewal criteria for permit G-18527 have been satisfied.

If renewed by the Water Rights Section, it is requested that the renewal for application G-12120/permit G-18527 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-18527 EX, Renewal Review
Oxberg Lakes Estates Homeowners Association
T3S/R2W, Section 16**



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Water Use Report

Water Use Report Based on Water Right

Permit: G 18527 EX
 OXBERG LAKES ESTATES HOMEOWNERS ASSOCIATION 4307 BIRD HAVEN
 LOOP NEWBERG, OR 97132

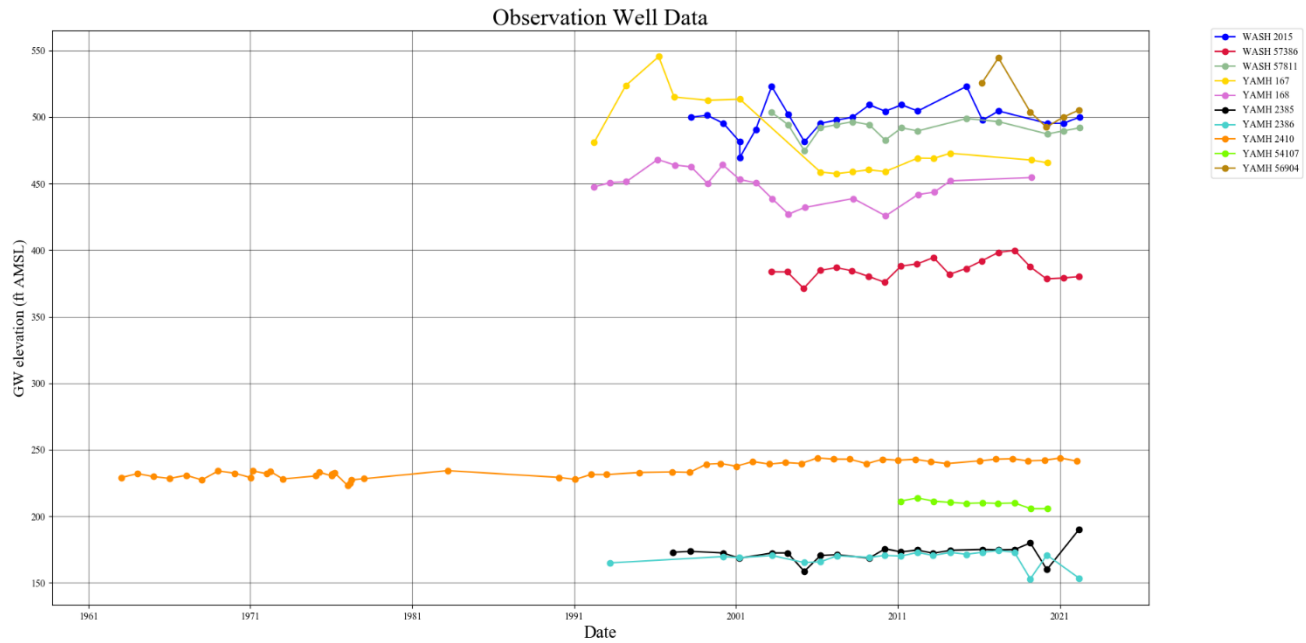
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Water Year*	Report ID	Facility	Acre-feet (AF) of Water Used												Total Water Used	Irrigated Acres
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
2021	36073	OXBERG WELL 2/BIRD HAVEN LP (YAMH 2385)	3.48	2.24	2.15	2.11	3.95	4.38	4.38	4.38	22.92	22.92	33.93	8.54	115.36	
2021	45988	OXBERG WELL 1/PUTNAM RD (YAMH 2386)	0.58	0.53	0.38	0.72	0.91	0.91	0.91	0.91	3.04	3.04	6.69	1.88	20.52	
2020	36073	OXBERG WELL 2/BIRD HAVEN LP (YAMH 2385)	3.47	2.76	4.43	4.82	4.72	4.72	5.87	5.44	23.25	27.26	27.26	4.22	118.23	
2020	45988	OXBERG WELL 1/PUTNAM RD (YAMH 2386)	0.10	0.10	0.10	0.11	0.06	0.08	0.08	1.00	1.00	1.00	0.45	0.45	4.53	
2019	36073	OXBERG WELL 2/BIRD HAVEN LP (YAMH 2385)	10.36	3.89	3.63	3.93	2.87	3.68	3.01	13.13	29.06	43.58	13.11	8.53	138.77	
2019	45988	OXBERG WELL 1/PUTNAM RD (YAMH 2386)	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.10	0.10	0.06	0.01	0.37	
2018	36073	OXBERG WELL 2/BIRD HAVEN LP (YAMH 2385)	6.06	3.15	3.78	1.91	3.06	2.47	2.93	16.11	21.92	64.49	7.39	19.55	152.83	
2018	45988	OXBERG WELL 1/PUTNAM RD (YAMH 2386)	0.14	0.13	0.17	0.07	0.14	0.15	0.15	0.43	0.43	1.15	0.16	0.40	3.53	
2017	36073	OXBERG WELL 2/BIRD HAVEN LP (YAMH 2385)	0.36	0.35	0.53	0.29	0.26	0.44	0.38	1.45	2.61	3.72	5.18	1.45	17.00	
2017	45988	OXBERG WELL 1/PUTNAM RD (YAMH 2386)	0.02	0.02	0.03	0.02	0.01	0.02	0.02	0.03	0.07	0.07	0.14	0.03	0.49	

1 2 3 4 5

*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



Hydrographs – Authorized POAs (YAMH 2385 and YAMH 2386)

