



Project: Request for Modification to ASR Limited License #002

To: Jennifer Woody, RG – Oregon Water Resources Department

Mitra Khadka, RG – Oregon Water Resources Department

Seth Sadofsky, RG - Oregon Department of Environmental Quality

Tom Pattee, RG - Oregon Health Authority

From: Summit Water Resources, LLC

Jason Melady, RG, CWRE

Larry Eaton, RG Darby Scanlon, RG

CC: Pete Boon, PE – Tualatin Valley Water District

David Winship, PE – City of Beaverton

Date: July 8, 2025

## Introduction

On behalf of the City of Beaverton (City) and the Tualatin Valley Water District (TVWD), this document requests a modification to the ASR Limited License (LL) #002. The City and TVWD are jointly represented on LL #002. In summary, the following is requested in this memorandum:

Reguest to add well ASR 3A (WASH 78442) to ASR LL #002.

Currently, 13 ASR wells are authorized by ASR LL #002. Based on a mutual agreement between the City and TVWD, the City of Beaverton has 7 ASR wells allocated through the LL #002, and 3 additional wells that are jointly allocated between TVWD and the City. **Figure 1** (attached) shows the location of the 13 ASR wells listed in ASR LL #002 as of the latest renewal date of December 29, 2023. **Table 1**, lists those 13 ASR wells along with Well ID logs, the anticipated rates in million gallons per day (MGD), and individual well locations.

The changes proposed in this document will add one additional well (ASR 3A) to ASR LL #002, but the total injection/pumping limits as prescribed in the current ASR LL #002 will not change by adding ASR 3A. We understand that Oregon Water Resources Department (OWRD) is agreeable to either adding a new ASR well to an ASR LL #002 or relocating an already identified well in ASR LL #002. The City has elected to add another well (ASR 3A) that will be located in the Sterling Park area. ASR 3 and ASR 3A are also used as part of the Sterling Park stormwater recharge project under Artificial Recharge Limited License (AR LL) #1912. With ASR 3 and ASR 3A added to ASR LL #002, the two wells can also recover ASR stored water banked over many years by the City in the Cooper Mountain area.

### **ASR 3A Details**

The location of well ASR 3A is presented in **Figures 1 and 2**. The final ASR 3A as-built and some basic design drawings for ASR 3A are included in **Attachment A**. The well log for ASR 3A is included in **Attachment B**. ASR 3A meets all OWRD well construction standards as defined in Oregon Administrative Rules (OAR) 690-210. The completion of ASR 3A, including the seal and liner, was pre-approved by OWRD. Specifically, ASR 3A is located approximately 45 feet from the existing well ASR 3 at the Sterling Park Site, located at 16490 SW Loon Drive, Beaverton, OR 97007 (**Figure 2**). Below are some specifics for ASR 3A:

- Licensee City of Beaverton
- Well Name: ASR 3A
- Well Log ID WASH 78442
- Rate MGD 1.4 (up to 1,000 gallons per minute)
- Well Location 1,611 ft South, 121 ft East from the Northwest corner of Section 5 in T2S R1W.

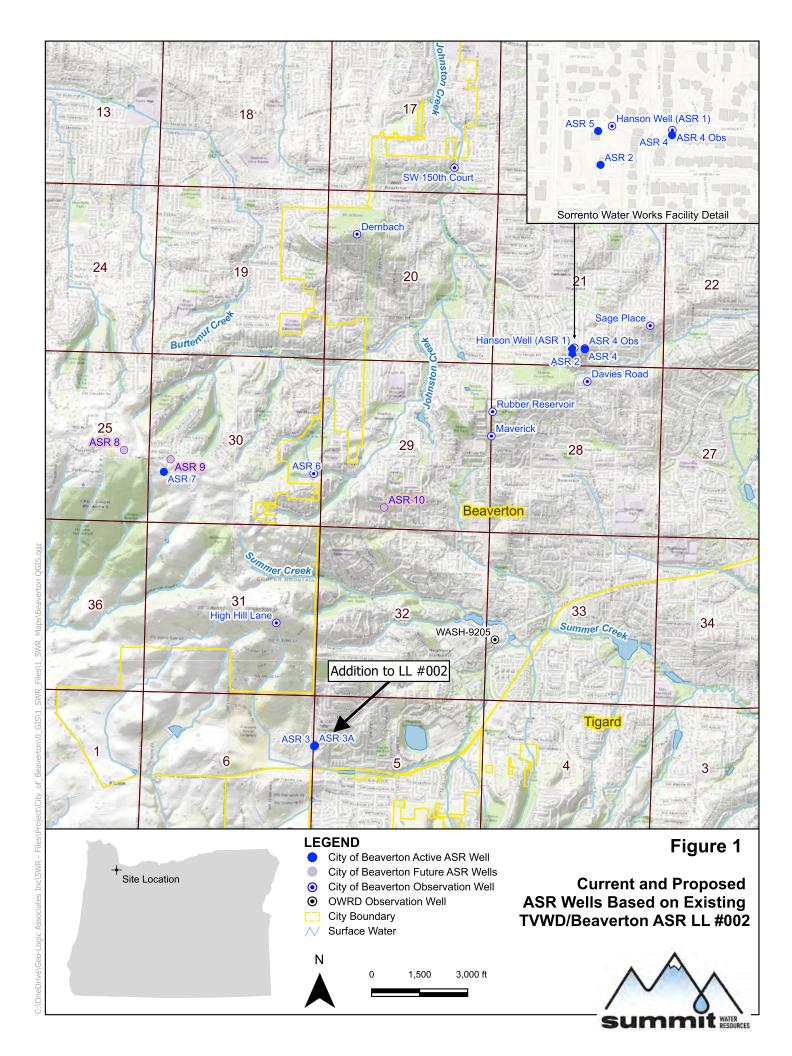
Table 1. Wells Currently Under ASR LL #002

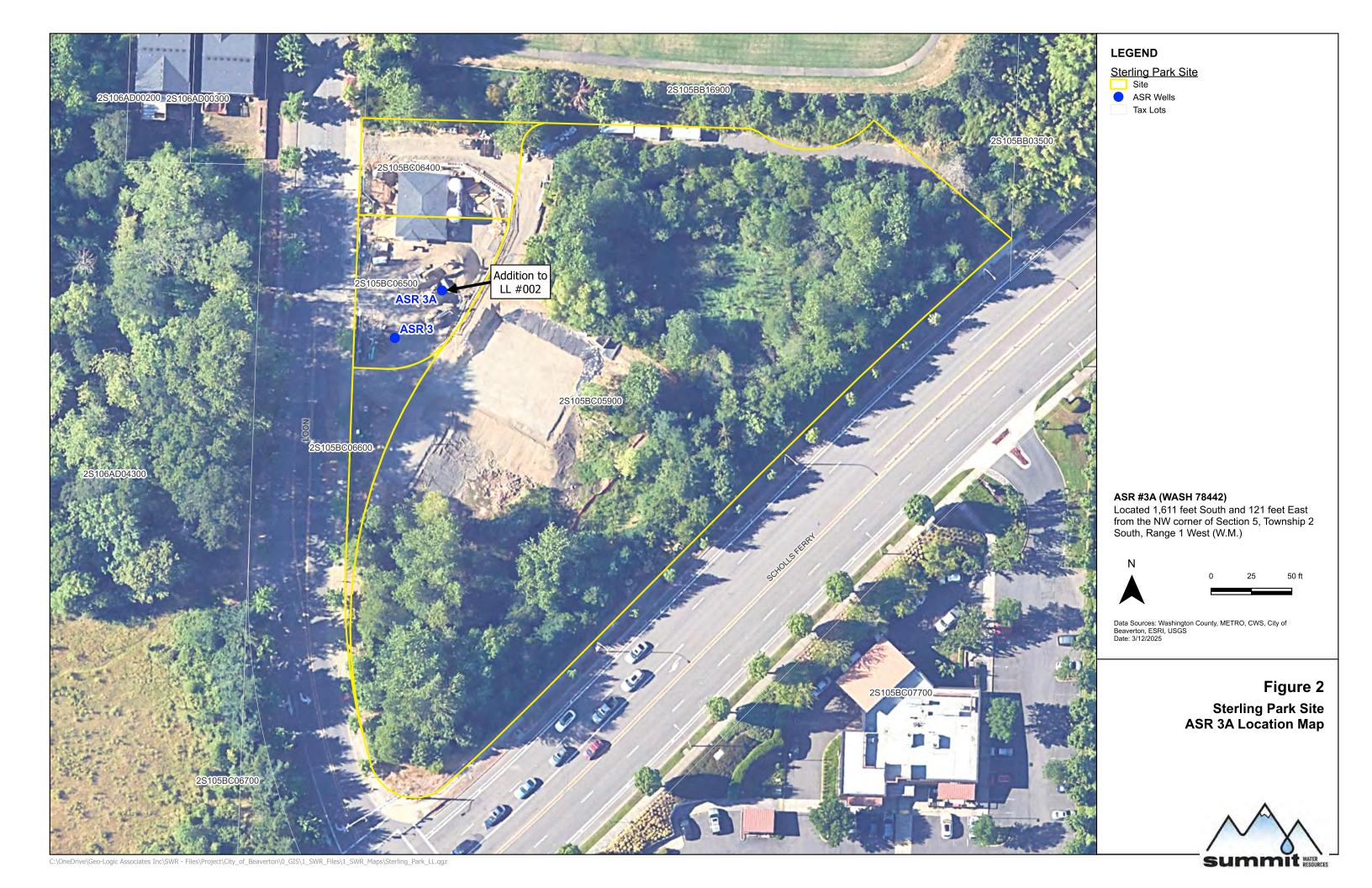
Licensee	Well Name	Well Log ID	Rate (MGD)	Well Location
TVWD/Beaverton	ASR #1	WASH 54507	1.5	1,250 FT SOUTH AND 1,170 FT WEST FROM CENTER OF SECTION 17, T1S/R1W
TVWD/Beaverton	Schuepbach	WASH 8862	1.5	1,600 FT SOUTH AND1,200 FT WEST FROM CENTER OF SECTION 17, T1S/R1W
Beaverton	ASR #4	WASH 61319	3.0	480 FT NORTH AND 2,445 FT WEST FROM SE CORNER, SECTION 21, T1S/R1W
Beaverton	ASR #2	WASH 55918	3.0	235 FT NORTH AND 2,430 FT EAST FROM SW CORNER, SECTION 21, T1S/R1W
Beaverton	ASR #10	Not yet drilled	3.0	SECTION 29, SE1/4 SW1/4, T1S/R1W
Beaverton	ASR #9	Not yet drilled	3.0	SECTION 30, NW1/4 SW1/4, T1S/R1W
Beaverton	ASR #5	WASH 76834	3.0	540 FT NORTH AND 2,495 FT EAST FROM SW CORNER OF SECTION 21, T1S/R1W
Beaverton	ASR #3	WASH 57952	3.0	1,640 FT SOUTH AND 60 FT EAST FROM NW CORNER, SECTION 5, T2S/R1W
TVWD	Jenkins Estate	WASH 10279	3.0	720 FT SOUTH AND 950 FT WEST FROM SE CORNER, SECTION 23, T1S/R2W
TVWD	Grabhorn	WASH 10148	3.0	200 FT NORTH AND 780 FT WEST FROM SE CORNER, SECTION 23, T1S/R2W
TVWD	189th Ave	WASH 10200	3.0	1,500 FT NORTH AND 750 FT WEST FROM SE CORNER, SECTION 24, T1S/R2W
Beaverton/TVWD	ASR #8	Not yet drilled	3.0	SECTION 25, NE1/4 SE1/4, T1S/R2W
Beaverton	ASR #6	WASH 74133	3.0	1,520 FT NORTH AND 125 FT WEST FROM SE CORNER OF SECTION 30, T1S/R1W

## **Figures**

Figure 1 City of Beaverton Monitoring Well Network

Figure 2 Sterling Park Site - ASR 3A Location Map

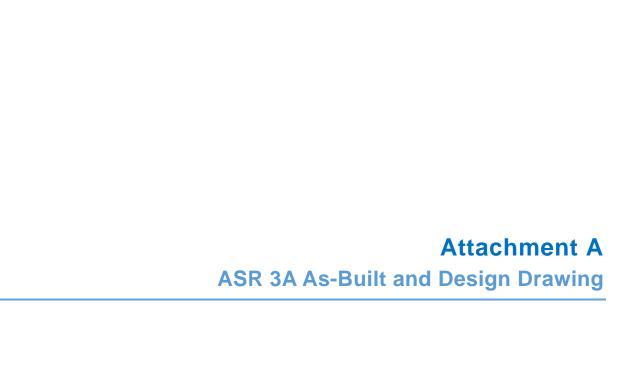


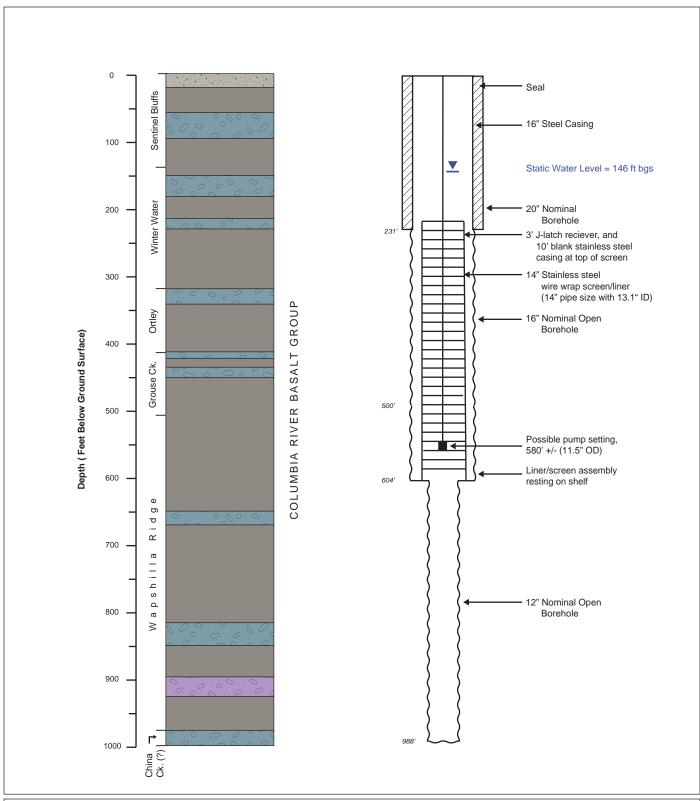


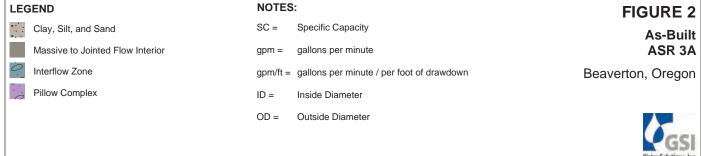
## **Attachments**

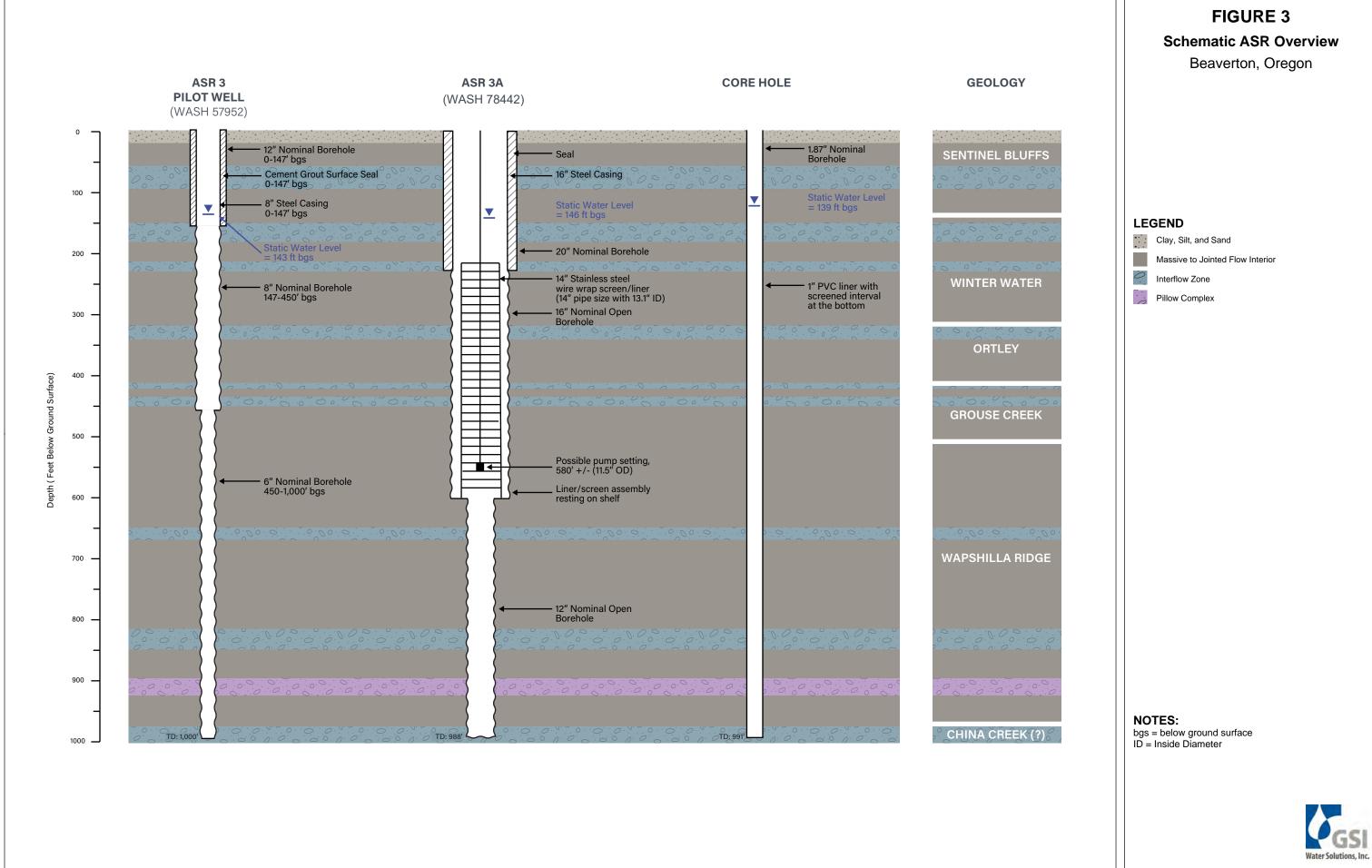
Attachment A ASR 3A As-Built and Design Drawing

Attachment B ASR 3A Well Log

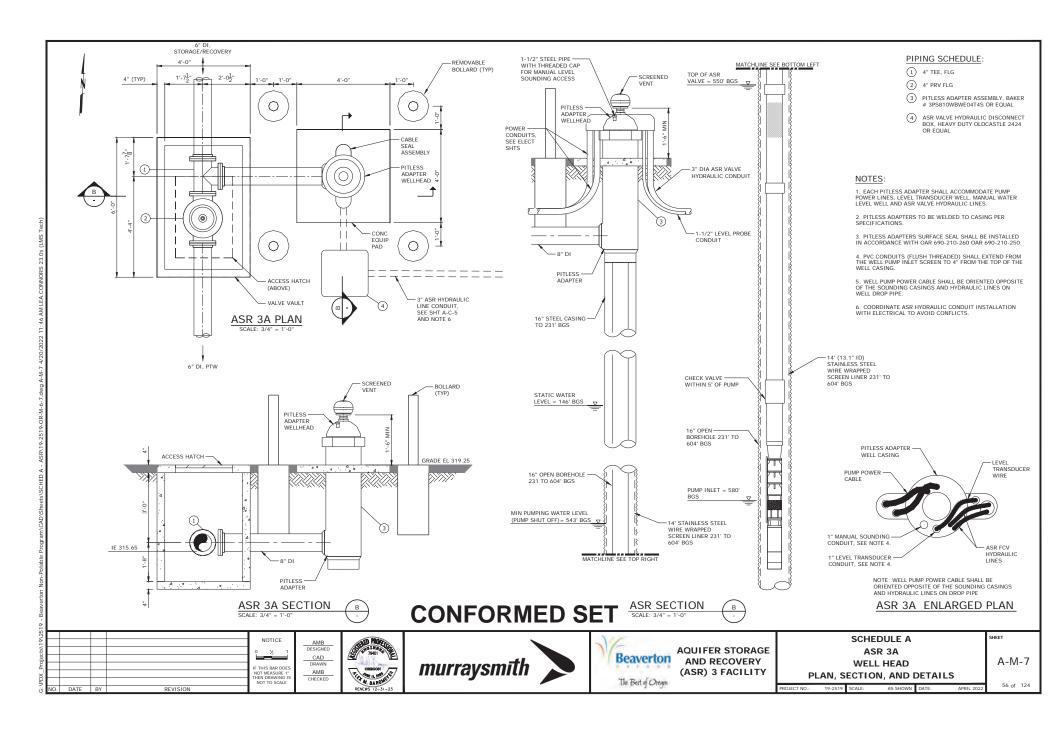








Y:\0100\_Beaverton\Source\_Figures\090\_New\_Irrigation\_Well\ASR\_3A\_Report



WELL I.D. LABEL# L 128831 STATE OF OREGON START CARD# 216481 WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210) ORIGINAL LOG# (1) LAND OWNER WASH 78442 Owner Well I.D. First Name Last Name (9) LOCATION OF WELL (legal description) City of Beaverton 1W E/W WM Company County Washington Twp\_\_\_\_\_ 2S N/S Range PO Box 4755 Address \_ SW 1/4 of the 97076 Tax Map Number 2S 1 05BC New Well Conversion Deepening (2) TYPE OF WORK DMS or DD Alteration (complete 2a & 10) Abandonment(complete 5a) " or DMS or DD (2a) PRE-ALTERATION Street address of well Nearest address Casing: 16500 SW Loon Drive, Beaverton, OR 97007 Amt sacks/lbs Seal: (10) STATIC WATER LEVEL (3) DRILL METHOD Date SWL(psi) + SWL(ft) Rotary Air Rotary Mud Cable Auger Cable Mud Existing Well / Pre-Alteration Reverse Rotary Other Completed Well 10/22/19 146 Domestic X Irrigation Community Flowing Artesian? (4) PROPOSED USE 209 \_\_Industrial/ Commericial \_\_\_ Livestock \_\_\_ Dewatering Depth water was first found WATER BEARING ZONES Thermal Injection X Other \_ SWL Date Est Flow SWL(psi) + SWL(ft) To (5) BORE HOLE CONSTRUCTION Special Standard (Attach copy) 6/21/19 209 213 1-2 143 Depth of Completed Well \_\_\_ 10/22/19 305 981 see (8) 146 **BORE HOLE** SEAL sacks/ Dia From Material To From Amt lbs 24\* 20.5 231 140 0 cement 20\* 231 20.5 Calculated 102 16\* 231 605 20.5 16 cement (11) WELL LOG 12\* 605 988 Calculated 11 Ground Elevation X C How was seal placed: Method L A  $| |_{\mathbf{D}}$ From To Material See attached formation log Other Backfill placed from \_ \_\_ ft. to \_\_\_\_ \_ ft. Material \*Bore hole diameters are nominal diameters \_\_ ft. to ft, Material Explosives used: Yes Type\_ Amount (5a) ABANDONMENT USING UNHYDRATED BENTONITE RECEIVED Proposed Amount Actual Amount (6) CASING/LINER Casing Liner NOV 2 2 2019 Wld Thrd From To Gauge Plstc 20 Ω 20.5 .375 × 3 × 16 231 .375 OWRD Inside Outside Other Location of shoe(s) Top of 20" casing has steel plate welded between it and 16" csg Temp casing Yes Dia\_ From Top of SS screen riser has J receptor. (7) PERFORATIONS/SCREENS Screen assembly is all 304SS. Blanks are from .375 wall pipe. Perforations Method 304SS 11/5/19 Screens Type\_ V-wire wrap Date Started 6/12/19 Material Completed Perf/ Casing/Screen Tele/ # of Scrn/slot Slot (unbonded) Water Well Constructor Certification Screen Liner Dia From width length slots pipe size I certify that the work I performed on the construction, deepening, alteration, or 232 SS riser 14 219 PS blank n.a n.a. 14 232 602 abandonment of this well is in compliance with Oregon water supply well screen .100 continuou n.a. PS 602 PS construction standards. Materials used and information reported above are true to SS tail 14 605 blank n.a. the best of my knowledge and belief. 11/18/19 License Number (8) WELL TESTS: Minimum testing time is 1 hour Signed O Bailer O Flowing Artesian Pump (bonded) Water Well Constructor Certification Yield gal/min Drawdown Drill stem/Pump depth Duration (hr) I accept responsibility for the construction, deepening, 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. °F Lab analysis LYes By 60 Temperature Yes (describe below) TDS amount
Description A 11/18/19 Water quality concerns? License Number Amount Units Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT

# City of Beaverton ASR 3 SC #216481 - Well Tag ID #L128831 Formation Log by Schneider Water Services

<u>FM</u>	<u>TO</u>	<b>DESCRIPTION</b>				
0	12	Clay, brown, silty				
12	15	Basalt, broken, soft				
15	20	Basalt, grey & brown, medium				
20	37	Basalt, grey & brown, medium-hard, broken, fractured				
37	59	Basalt, grey & brown, medium, broken, some vesicles				
59	65	Basalt, grey, medium-hard, fractured				
65	76	Basalt, grey & brown, medium-hard, fractured				
76	83	Basalt, brown, broken, weathered, some vesicles				
83	150	Basalt, grey & brown, medium, fractured				
150	181	Basalt, brown & some grey, some vesicles & weathering				
181	189	Basalt, brown, medium-soft, broken, weathered, vesicular, w/some sandstone, tan				
189	197	Basalt, black, medium-hard, fractured				
197	201	Basalt, grey & brown, medium-hard, fractured				
201	207	Basalt, grey, hard, fractured				
207	209	Basalt, grey w/brown, fractured				
209	213	Basalt, brown, soft, broken, fractured				
213	221	Basalt, grey w/brown, medium, fractured, broken				
221	226	Basalt, grey, medium-hard, fractured				
226	231	Basalt, dark grey, medium-hard, fractured				
231	300	Basalt, dark grey, hard, fractured				
300	305	Basalt, grey, hard				
305	326	Basalt, brown, broken, fractured, weathered w/vesicles				
326	338	sandy				
338	340	Basalt, grey, medium-hard, fractured				
340	354	Basalt, dark grey, hard, some fractures				
354	356	Basalt, brown w/dark grey, broken				
356	360	Basalt, dark grey w/some brown, fractured	RECEIVED			
360	366	Basalt, brown w/some grey, broken, fractured	RECLIVED			
366	377	Basalt, dark grey, fractured, hard	NOV 2 2 2019			
377	387	Basalt, dark grey, fractured, medium hard				
387	390	Basalt, grey & brown, fractured, medium-hard	OWRD			
390	396	Basalt, dark grey, fractured, medium-hard				
396	412	Basalt, grey, hard, fractured				
412	423	Basalt, brown & grey, medium-soft, broken w/some vesicles & claystone, yellow				
423	440 452	Basalt, grey and brown, medium, fractured, some vesicles				
440 453	453	Basalt, grey, hard, fractured				
453 457	457 471	Basalt, red, soft, broken, vesicleular				
457	471	Basalt, brown & grey, medium, fractured, some vesicles				

## City of Beaverton ASR 3 SC #216481 - Well Tag ID #L128831 Formation Log

# by Schneider Water Services

<u>FM</u>	<u>TO</u>	<u>DESCRIPTION</u>			
471	505	Basalt, grey, hard, fractured			
505	509	Basalt, black, medium-soft, fractured w/vesicles & claystone, green			
509	514	Basalt, black, medium soft, fractured, with claystone, black, vesicles			
514	567	Basalt, dark grey, medium, fractured			
567	575	Basalt, grey & red, medium, fractured			
575	592	Basalt, dark grey, medium, fractured			
592	598	Basalt, dark grey, medium-hard, some fractures			
598	602	Basalt, grey, medium, fractured			
602	656	Basalt, grey, hard, some fractures			
656	660	Basalt, dark grey, medium-hard, fractured, some vesicles			
660	666	Basalt, grey & brown, medium, fractured, vesicular w/claystone, grey			
666	673	Basalt, dark grey, medium, fractured, some vesicles			
673	679	Basalt, grey & some brown, fractured w/some vesicles & claystone, green			
679	689	Basalt, grey, fractured some vesicles			
689	710	Basalt, grey, medium-hard, some fractures			
710	713	Basalt, grey, hard, some fractures			
713	716	Basalt, grey, medium-hard, fractured, some vesicles			
716	728	Basalt, grey, hard, some fractures			
728	750	Basalt, grey, medium-hard, fractured			
750	795	Basalt, grey, medium, fractured, some vesicles			
795	816	Basalt, grey, hard, some fractures			
816	819	Basalt, dark grey, medium-hard, fractured, some vesicles			
819	829	Basalt, grey & brown, broken, vesicular, medium w/claystone, tan			
829	844	Basalt, dark grey, medum-hard, fractured, some vesicles			
844	873	Basalt, grey & brown, medium-hard, fractured w/some vesicles & claystone, tan			
873	885	Basalt, grey, medium, fractured, vesicular w/some claystone, tan			
885	925	Basalt, black & brown, soft, broken, vesicular w/some claystone, tan			
925	943	Basalt, black, medium-hard, some fractures & vesicles			
943	953	Basalt, dark grey & brown, medium hard, fractured, vesicular			
953	970	Basalt, dark grey, medium, fractured, w/some vesicles & claystone, multicolored			
970	981	Basalt, black, medium-soft, vesicular, some fractures w/claystone, multicolored			
981	985	Claystone, grey			
985	988	Claystone, blue-grey			

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**OWRD**