Approved:

MEMO

To: Kristopher Byrd, Well Construction Manager

From: Tommy Laird, Well Construction Program Coordinator

Subject: Review of Water Right Application LL-1957

Date: June 25, 2024

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

Applicant's Well #NW-3 (WASH 1130): Based on a review of the Well Report, NW-3 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that according to the Water Supply Well Report, the well was sealed with an unapproved grout. In order to meet minimum construction standards, the well must be resealed with an approved grout to a minimum depth of 32 feet bgs.

My recommendation is that the Department **not issue** a permit for NW-3 unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is constructed to meet current minimum well construction standards.

The construction of NW-3 may not satisfy hydraulic connection issues.

Applicant's Well #NW-5 (WASH 9603): Based on a review of the Well Report, Applicant's Well NW-5 seems to protect the groundwater resource.

The construction of NW-5 may not satisfy hydraulic connection issues.

Applicant's Well #NW-6 (WASH 9628/WASH 119): Based on a review of the Well Report, Applicant's Well NW-6 seems to protect the groundwater resource.

The construction of NW-6 may not satisfy hydraulic connection issues.

STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765) (START CARD) # (1) OWNER: LOCATION OF WELL by legal description:
OREGON Latitude Longitude Name Oregon Garden Products ___ Longitude 3150 SE Minter Bridge Rd Township N or S, Range City Hillsboro 97123 OR NE SE Section (2) TYPE OF WORK: Block Subdivision 3150 XX New Well Deepen Deepen SE Minter ☐ Recondition Street Address of Well (or nearest address) Bridge Rd., Hillsboro, OR (3) DRILL METHOD 97123 ☐ Rotary Aix Rotary Mud ☐ Cable (10) STATIC WATER LEVEL: Other 23 Date 4/25/89 ____ ft. below land surface. (4) PROPOSED USE: Artesian pressure _ lb. per square inch. ☐ Domestic ☐ Community KX Irrigation ☐ Industrial (11) WATER BEARING ZONES: ☐ Thermal ☐ Injection ☐ Other Depth at which water was first found _ (5) BORE HOLE CONSTRUCTION: Special Construction approval Yes No Depth of Completed Well 182 ft. From To Estimated Flow Rate SWL Yes No 109 129 100 qpm 23 \mathbf{X} Explosives used Type Amount 140 145 HOLE SEAL 159 179 11 11 Amount Diameter From To Material From To sacks or pounds (12) **WELL LOG:** 131/2 65 cem/qe1 0 43 sacks 65 Ground elevation 182 13岁 65 sand pack 65 182 From SWL 209 drill gel Rock & clay fill Σ_{C} How was seal placed: Method A B 2 Gray clay ☐ Other 27 Wood & fill material Backfill placed from 49 Soft brown silty clay Gravel placed from . 65 182 ft. Size of gravel #4 & #8 Actua ft. to . 49 109 Soft gray silty clay (6) CASING/LINER: 109 129 Medium to coarse black sand Diameter From To Gauge Steel Plastic Welded Threaded occ. clay interbed 109 Casing: 129 Sticky gray-brown clay 134 129 140 \mathbf{X} 134 140 Soft brown sandy clay 8 145 159 \mathbf{X} Fine to coarse brown sand 140 144 179 182 XX Sticky gray clay 144 161 Medium to coarse brown sand 161 177 Sticky gray clay 209 Final location of shoe(s) (7) PERFORATIONS/SCREENS: ☐ Perforations XX Screens Type Wire wound Material L.C. steel Slot Tele/pipe From To Number Diameter Casing size size Liner 109 129 .030 8 pipe XX П 140 145 .030 pipe XX 159 179 .030 pipe XX 3/16/89 4/26/89 Date started. Completed (unbonded) Water Well Constructor Certification: (8) WELL TESTS: Minimum testing time is 1 hour I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction ☐ Pump ☐ Artesian ☐ Bailer Air standards. Materials used and information reported above are true to my best Yield gal/min Drawdown Drill stem at Time knowledge and belief. WWC Number 66 1 hr. Signed . 82 80 hr. hr (bonded) Water Well Constructor Certification: 103 Temperature of water 100 5 Depth Artesian Flow Found I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all Yes By whom Was a water analysis done? work performed during this time is in compliance with Oregon well Did any strata contain water not suitable for intended use?

Too little construction standards. This report is true to the best of my knowledge and belief. ☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

MEGELVEL

Depth of strata:

Signed

APR 21 1980

009603

WASH

STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPT. SALEM, OREGON

(START CARD) #___

 Sku	VIda
 00.43	

(1) OWNE		roducto	Well Numb	_{oer:} #5 - 89		OF WELL by le				
Address	n Garden P	roducts			- County Wash	Latitude	1 1	Longitud	de	, ,
City		State		Zip	Township IS	N or S, Range NE 14	2W		E or W,	, WM.
	\T\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	State		Zip	Section/		011	— ¼		
(2) TYPE (_			Tax Lot	Lot Block	2150	Subc	livision_	·
New Well		Recondition	☐ 'At	andon	Street Address of W	Vell (or nearest address) $_$ d. Hillsboro,	2120	07123	inter	
(3) DRILL		_				d. HIIISDOIO,	UK	9/123	1	
Rotary Air	XX Rotary Mud	☐ Cable				VATER LEVEL:				
U Other			·		= 17 ft.	below land surface.		Date	4/17	/89
	(4) PROPOSED USE:				lb. per squa					
	☐ Domestic ☐ Community ☐ Industrial XX Irrigation			(11) WATER B	EARING ZONE	S:				
☐ Thermal ☐ Injection ☐ Other										
	(5) BORE HOLE CONSTRUCTION:				Depth at which water was first found 92					
Special Construction approval Yes No Depth of Completed Well 170 ft.			To 106		nated Flov		SWL			
Explosives used			Amount _		92	126		0 gpm		17
HOLE		SEAL			129	134		00 gpm		71
Diameter From	To Mate		To	Amount sacks or pounds	143 160	155		0 gpm		11
						166	9	00 gpm	1	
13½ 0			62	42 Sacks	(12) WELL LO	G: Ground elevation	on			
62	170 Sandp		170	<u> </u>	-	Material		From	To	SWL
6½ 170	210 Drill		210		- Topsoil			0	1	
	d: Method 🔲 A	. □в ЩКС		□ E	Dark Brown C	1ay		1	3	
Other					- Soft Brown S	ilty Clay		3	13	
	nft. to			JLO c JL/	Fine Muddy B	rown Sand		13	X 15	
	62_ft. to _	1/U ft. Size	of gravel	110 & 114		y - Brown Clay	У	15	17	
(6) CASINO	- · ·				Soft Brown S			17	45	
0	r From To +1 95	Gauge Steel		Velded Threaded						
Casing: 8		.250 XX		XX	Soft Gray Si			45	57	
8		.250 XX			Fine Gray Sa			57	65	
8		,250 XX			Soft Gray Si		1	65	92	
Liner:	1200 270	1,22				um Coarse Bla	<u>ck</u>	92	108	ļ. —
Final location of sh	oe(s)				Sticky WX Gr			108	109	
, 	RATIONS/S	CDEENG.			Sticky Gray	se Black Sand		109 126	126 129	-
_	· ·					se Black Sand		129	134	
☐ Perforation		dro round		T C Stor	· 1 i			134	140	
AM Screens		lire wound		L.C. Stee	Sticky Brown			140	143	
From To	Slot size Numbe	er, Diameter	ele/pipe size	Casing Liner		se Brown Sand		143	155	
x 95 135	.030	8" I	<u>Pipe</u>	XIX 🗆	Sticky Light			155	161	
146 156	.020		Pipe Pipe	X[X] □		se Brown Sand		161	166	
161 166	.030	8"				Clay occ. San		166		
					Streaks					
					Date started 4/12/	'89 Comp	leted	4/18	8/89	-
					(unbonded) Weter V	Vell Constructor Cer	tificati			
(8) WELL T	TESTS: Mini	mum testing	time is 1			work I performed on			on, alter	ation, or
☐ Pump	\square Bailer	KX Air	, Ē	Flowing Artesian	abandonment of this	well is in compliance	with (Oregon v	well cons	struction
Yield gal/min	Drawdown	Drill stem	at	Time	standards. Materials u knowledge and belief.	sed and information re	ported	above ar	e true to	my best
-	220,000,1				· I · · · · · · · · · · · · · · · · · ·	**	W	WC Nu	mber	
60 72		70		1 hr.	Signed					
		80		2 hr.						
					I Constructor Certifi bility for the construct			or above	danmant	
Temperature of water Depth Artesian Flow Found Was a water analysis done?			work performed on the	I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all						
was a water analysis done? Lies By whom			work performed duri	ing this time is in s. This report is true t	compli	ance wi	th Oreg	on well		
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other C			belief.	s. The report s true t			mber			
Depth of strata:			Signed	o Mus	, " D	ete	mper 72			

WASH

RECEIVED

(START CARD) #

STATE OF OREGON
WATER WELL REPORT 009628
(as required by ORS 537.765)

6561 0 3 JAM

B/RD/8 cb 10626

(1) OWNER: Well Number: TW#/YWW	79 POCATION OF WELL by legal descr	iption:
oregon Garden Floducts	ALEM OREGON CountWashington attitude	itude '
	Township 1 S Nor S, Range 2 W	E or W. WM.
111113010 OK -F 97123	Section 8 NW 1/4 SW 1/4	,
(2) TYPE OF WORK:	Tax Lot Block S	
New Well Deepen Recondition Abandon emporar		E. Minter
(3) DRILL METHOD	Bridge Rd., Hillsboro, Oregon 9	7123
Rotary Air Rotary Mud Cable	(10) STATIC WATER LEVEL:	
Other	ft. below land surface.	ate
(4) PROPOSED USE: ☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation	Artesian pressure lb. per square inch. De	ate
☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation ☐ Thermal ☐ Injection ☒ Other ☐ Test Well	(11) WATER BEARING ZONES:	· · · · · · · · · · · · · · · · · · ·
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found	
		B . D
Yes No L 💢	From To Estimated F	low Rate SWL
Explosives used Type Amount		
HOLE SEAL Amount		
Diameter From To Material From To sacks or pounds 10" 0 18 Gran. Bentn. 0 18 8 sacks		
10" 0 18 Gran.Bentn. 0 18 8 sacks 65" 18 228 Drill gel	(12) WELL LOG:	
	Ground elevation	
	Material From	n To SWL
How was seal placed: Method	Rock & clay fill 0	1
X Other poured into dry anulas	Gray clay 1	
Backfill placed fromft. toft. Material	Soft brown clay 2	
Gravel placed fromft. toft. Size of gravel	Soft brown silty clay 8	
(6) CASING/LINER:	Fine brown muddy sand 15 Soft gray silty clay 38	
Diameter From To Gauge Steel Plastic Welded Threaded	Fine gray muddy sand 49	
Casing: 6" +1 19 250 🖾 🗆 🛣	Sticky dark gray clay 88	
	Fine to med. black sand/some 96	
	wood & clay	
	Med. to coarse black sand 110	136
Liner:	Sticky gray clay 136	
Final location of shoe(s)	Soft brown sandy clay 141	148
	Coarse brown & black sand 148	151
(7) PERFORATIONS/SCREENS:	Sticky light gray clay 151	156
Perforations Method	Soft light brown clay 156	
Screens Type Material	Coarse brown & black sand 158	
Slot Tele/pipe From To size Number Diameter size Casing Liner	Sticky gray-brown clay 164 Soft gray clay 178	
	Sticky light gray clay 183 Soft brown clay 196	
	Sticky gray clay 207	228
	201	1220
	Date started 5/17/89 Completed 5	/19/89
	(unbonded) Water Well Constructor Certification:	
(8) WELL TESTS: Minimum testing time is 1 hour	I certify that the work I performed on the construct	tion alteration or
☐ Pump ☐ Bailer ☐ Air ☐ Artesian	abandonment of this well is in compliance with Oregon	well construction
Yield gal/min Drawdown Drill stem at Time	standards. Materials used and information reported above a knowledge and belief.	are true to my best
1 hr.		umber
1 111.	Signed Date	
	(bonded) Water Well Constructor Certification:	
Temperature of water Depth Artesian Flow Found	I accept responsibility for the construction, alteration	, or abandonment
Was a water analysis done? Yes By whom	work performed on this well during the construction dates	reported above all
Did any strata contain water not suitable for intended use? Too little	work performed during this time is in compliance veconstruction standards. This report is true to the best of the construction standards.	vith Oregon well
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other	belief.	han 1266
Depth of strata:	Signed Date 5	/25/80

STATE OF OREGON

WATER WELL REPORT

Mash

G-12343

ISLAUS CD

CART CARD) # 2290

(as required by ORS 537.765)	(START CARD) #
(1) OWNER: Well Number: NW 6	(9) LOCATION OF WELL by legal description: Washington, winds
Address 3150 SE Minter Bridge Rd.	County Latitude ZW Longitude
City Hillsboro State OR Zip 97123	Washington Latitude Longitude Eor W, WM. Section 8 Nor S, Range Eor W, WM.
(2) TYPE OF WORK:	
□ New Well □ Deepen □ Recondition □ Abandon	Tax Lot Lot Block Subdivision Street Address of Wall (or pearest address) 3150 SE Minter Bridg
(3) DRILL METHOD	Street Address of Well (or nearest address) Hillsboro, OR 97123
Rotary Air X Rotary Mud Cable	
Other	(10) STATIC WATER LEVEL:
(4) PROPOSED USE:	
Domestic ☐ Community ☐ Industrial ☐ Irrigation	Artesian pressure lb. per square inch. Date
☐ Thermal ☐ Injection ☐ Other	(11) WATER BEARING ZONES:
(F) DODE HOLE CONCEDITORION.	Depth at which water was first found111
(5) BORE HOLE CONSTRUCTION: 170	From To Estimated Flow Rate SWL
Special Construction approval Yes No Depth of Completed Well 170 ft.	
Explosives used	111 164 75 gpm 33
HOLE SEAL Amount	
Diameter From To Material From To sacks or pounds	
$12\frac{1}{4}$ 0 170 Gran. bent 0 22 20 sacks	(12) WELL LOG: Commission
drill gel 22 75	Ground elevation
cement 75 90 7 sacks	Material From To SWL
sand pack 170	Existing surface casing
How was seal placed: Method	withdrawn, bore enlarged to
X Otherpoured into dry annulas	12½", screened and packed
Gravel placed from 90 ft. to 170 ft. Size of gravel #8 & #2	T-debine 11 # my #7 /avy
	Existing well # TW#7/NW6
(6) CASING/LINER:	
Diameter From To Gauge Steel Plastic Welded Threaded Casing: 8 +1 111 250	
8 136 148 250 X	19Pagan
8 164 170 250 X	TECFILIED .
Liner:	AUG 21:40 =
	AUG 31 1990
Final location of shoe(s)	TO LEH PEOC
(7) PERFORATIONS/SCREENS:	WATER RESOURCES DEPT.
Perforations Method	
X Screens Type Woundwire Material L.C. Steel	
Slot Tele/pipe	
From To size Number Diameter size Casing Liner 111 136 .030 1 8 Pipe X	
148 164 .030	
	Date started 08/16/90 Completed 08/21/90
	Date started 08/10/90 Completed 08/21/90
(8) WELL TESTS: Minimum testing time is 1 hour	(unbonded) Water Well Constructor Certification:
Flowing	I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction
☐ Pump ☐ Bailer ☐ Artesian	standards. Materials used and information reported above are true to my best
Yield gal/min Drawdown Drill stem at Time	knowledge and belief.
60 60 1 hr.	WWC Number
75 80 2 hr.	Signed Date
	(bonded) Water Well Constructor Certification:
Temperature of water Depth Artesian Flow Found	I accept responsibility for the construction, alteration, or abandonment
Was a water analysis done?	work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well
Did any strata contain water not suitable for intended use? Too little	construction standards. This report is true to the best of my knowledge and
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other	belief. WWC Number 1266