

STATE OF OREGON
WATER SUPPLY WELL REPORT

MORR 52817

WELL I.D. LABEL# L

149372
START CARD # 1056580
ORIGINAL LOG #

(as required by ORS 537.545 & 537.765 and OAR 690-205-0210)

(1) LAND OWNER
Owner Well I.D. Well 6 Observation Well
First Name _____ Last Name _____
Company Port of Morrow
Address 2 Marine Drive
City Boardman State OR Zip 97818

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (complete 2a & 10) Abandonment (complete 5a)

(2a) PRE-ALTERATION
Casing: Dia 10 From 0 To 645 Gauge .237 Stl Plstc Wld Thrd
Material Cement From 0 To 244 Amt 112 Sacks/lbs
Seal: Material Cement From 0 To 244 Amt 112 Sacks/lbs

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other Observation

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
Depth of Completed Well 697.3 ft.

BORE HOLE			SEAL			Amt	Sacks/lbs
Dia	From	To	Material	From	To		
10	0	645	Cement	0	244	112	S
					Calculated	97	
8	645	702	Cement	355	402	48	
					Calculated	18.7	

How was seal placed: Method A B C D E
 Other
Backfill placed from 244 ft. to 355 ft. Material Gravel/Sand
Filter pack from 402 ft. to 702 ft. Material Gravel Size pea gravel
Explosives used: Yes Type _____ Amount _____

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
Proposed Amount _____ Pounds Actual Amount _____ Pounds

(6) CASING/LINER
Casing Liner Dia 4 From 2 To 697.3 Gauge .237 Stl Plstc Wld Thrd
Shoe Inside Outside Other Location of shoe(s) 645
Temp casing Yes Dia 10 From +2 To 48

(7) PERFORATIONS/SCREENS
Perforations Method Factory Slotted
Screens Type _____ Material _____
Perf/S casing/ Screen Dia From To Scrn/slot width Slot length # of slots Tel/ pipe size
Perf Liner 4 507.3 517.3 .08 2.5 40
Perf Liner 4 537.3 552.3 .08 2.5 60
Perf Liner 4 682.3 692.3 .08 2.5 40

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min 400 Drawdown 15 Drill stem/Pump depth 455 Duration (hr) 72

Temperature 62 °F Lab analysis Yes By Client
Water quality concerns? Yes (describe below) TDS amount 261 ppm
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County MORROW Twp 4 N N/S Range 25 E E/W WM
Sec 2 SW 1/4 of the SW 1/4 Tax Lot 100
Tax Map Number _____ Lot _____
Lat _____ " or 45.85262 DMS or DD
Long _____ " or -119.66437 DMS or DD
 Street address of well Nearest address
71449 RAIL LOOP DRIVE Boardman OR 97818

(10) STATIC WATER LEVEL

Existing Well / Pre-Alteration	Date	SWL(psi)	+	SWL(ft)
Completed Well	03-28-2023			158.1
	Flowing Artesian?	<input type="checkbox"/>		Dry Hole? <input type="checkbox"/>

WATER BEARING ZONES Depth water was first found 30

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
06-02-2022	22.2	48.6	40			22.2
06-06-2022	137	160	60			22.6
6/9/2022	230	257	50			DNM
09-06-2022	534	701	400			308.2

(11) WELL LOG Ground Elevation 290
Material From To
See Attached Formation Log

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Date Started 05-24-2022 Completed 03-24-2023

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, 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.
License Number 2040 Date 03-28-2023
Signed _____

(bonded) Water Well Constructor Certification
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.
License Number 1523 Date 03-28-2023
Signed _____
Contact Info (optional) _____

ORIGINAL - WATER RESOURCES DEPARTMENT

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**10621 Todd Road East
Edgewood, WA 98372
253 604-4878**

Well Name: Port of Morrow Well #6 Test/Observation Well

Start Card/Permit #: 1056580

Label #: 149372

Material Description	From:	To:
Sand and Gravel Med	0	15
Course Gravel up to 3"	15	17.5
Course Cobbles	17.5	20.5
Course gravels up to 1" and sand (Water)	20.5	48.6
Basalt Black	48.6	94.5
Basalt Weathered W/Brown Claystone some Quartz and Sand	94.5	115
Brown Clay W/Some Pumice	115	116.5
Blue Clay	116.5	137
Weathered Basalt and Pumice (Water)	137	147
Cinders Red and Blue (Water)	147	150
Weathered Basalt (Water)	150	160
Basalt Black	160	172
Basalt Fractured/Loose	172	180
Basalt Black Fractured	180	212
Basalt Black Hard (Water)	212	257
Basalt Black Med	257	297
Claystone Green with Sands and Clay	297	372
Heavily Fractured Basalt	372	417
Fractured Basalt with Soft Clay	417	517
Fractured Basalt Highly Fractured and Water at 540	517	597
Basalt Black Medium Hard	597	672
Basalt Med Black Course and Grainy	672	687
Basalt Black Heavily Fractured	687	689
Basalt Black Hard	689	701
Brown Clay Soft	701	702

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Oregon

Tina Kotek, Governor

Oregon Water Resources Dept
725 Summer St NE, Ste A Salem, OR 97301
Ph (503) 986-0900, Fax (503) 986-0904
www.oregon.gov/owrd

March 27, 2023

ROBERT STADELI WWC/MWC #1523
HOLT SERVICES
12305 NW 56TH STREET
VANCOUVER, WA 98682

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FINAL ORDER

Dear Mr. Stadel:

The Special Standards Request Form you submitted for owner: Port of Morrow, Start Card number 1056580, is hereby approved for the following: You may construct this well, using sand and crushed rock to fill the void space, as described on your Special Standards Request Form dated March 24, 2023, with a couple of stipulations as described below:

-If no clay interval is found, the upper seal shall be placed according Oregon Administrative Rule (OAR) 690-210-0130. If a clay interval is found the upper seal shall be placed according to OAR 690-210-0150 (1)(c) Method 3 (Under-Reaming).

-The lower split seal shall be placed according to OAR 690-210-0150 (1)(c) Method 3 (Under-Reaming).

All other well construction standards must be adhered to. A copy of your Special Standards Request Form is enclosed.

Verbal approval of this Special Standards Request was provided on March 14, 2023.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions regarding this letter, I may be contacted at (503) 302-8618, or by e-mail at tommy.k.laird@water.oregon.gov.

Sincerely,

Tommy Laird
Well Construction Program Coordinator
Oregon Water Resources Department

enclosure

cc: Shaun Finn, Well Inspector, North Central Region

This is a FINAL ORDER other than contested case. This final order is subject to judicial review under ORS 183.484. Any petition for judicial review of the final order must be filed within the time specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

Special Standards
Request Form

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before the request can be considered, this form must be completed. Requests shall be submitted to the Well Construction Program Coordinator, Water Resources Department, 725 Summer Street NE, Suite A, Salem OR 97301-1266. Requests may also be considered by the appropriate Regional Manager.

Date of request: 3/24/2023 Oral approval date (if applicable): 3/14/2023

Bonded Well Constructor (name, license #, and mailing address): Robert Stadel

1523 12305 NE 56th St Vancouver, WA 98682

(1) Location of Well: SW 1/4 SW 1/4 Tax lot 100 Section 2, Township 4 N, Range 25 E, Morrow County
Address at well site: 71449 Rail Loop Ave

(2) Start Card Number(s)(for work to be done): 1056580

(3) Name and Address of Land Owner: Port of Morrow 2 Marine Drive Boardman, OR 97818

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)
N/A Observation Well

(5) The unusual site conditions which necessitate this request: Void zone in the Selah inner bed interval requiring split seal, utilizing granular fill in the void zone

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)
See attached as built for diagram of construction

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- (7) Diagram showing the pertinent features of the proposed well design and construction: (attach additional pages if needed)

See Attached Diagram

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PLEASE NOTE:

- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing ground water contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.



Bonded Constructor Signature: _____

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Port of Morrow Test Well/OWRD Observation Well Special Standard Seal Construction Diagram. SC 1056580

