

From: [Crystal Shoji](#)
To: [Chris MacWhorter](#)
Cc: [Jill Rolfe](#)
Subject: Soils-Septics-Well logs 1-17-23
Date: Tuesday, January 17, 2023 5:01:00 PM

This Message originated outside your organization.

Subject: Randol Application for Comprehensive Plan Amendment – Rezone
Subject Property: T27S, R14W, Section 28B, Tax Lot 100

Good Afternoon,

In a follow-up communication regarding Completeness Check items for this application last week, you advised us (the applicants) to present additional information that could contribute to knowledge about septic systems and wells in the vicinity of the proposed Randol Comprehensive Plan Amendment and Rezone. Information for Soils, Septic Systems and Well Logs is now in Dropbox for your access. The information provides a sampling by utilizing adjacent properties and Subject property. This information is in Dropbox as it was too large to go through by email.

<https://www.dropbox.com/s/5znmw31ea2z9w7q/Soils-Septics-WellLogs-01-17-23.pdf?dl=0>

In addition, I want to clarify previous statements that I have made concerning development of Subject Property in the report and in the response to Section 7.1.250. I am sorry for any confusion that my misunderstanding has caused. The owners/applicants have informed me that there were no services when they purchased Subject Property. There is now an existing approved driveway access, Coos Curry Power, an approved well and an approved standard subsurface septic system. I will clarify with the Roadmaster that we do have one approved access and electricity on Subject Property. The applicants have one approved building permit on Subject property, but no structure has been built; this could be re-submitted for approval in the event of an upcoming expiration.

Thank you for your communications.

Crystal Shoji, AICP
Shoji Planning, LLC
P.O. Box 462
Coos Bay, OR 97420
(541) 267-2491

www.shojiplanning.com

Subject: **Information for Richard and Kathleen Randol Application
Comprehensive Plan Amendment – Rezone**

Subject Property: **Assessor's Map T27S, R14W, Section 28B, Tax Lot 100**

Date: **Application submitted December 8, 2022
This document submitted January 17, 2023**

Documents Included within this packet were requested by the Coos County Planning Department as part of their Completeness Check:

- Subject Property Soils Survey map and descriptions provided by the USDA Web Soil Survey
- Septic Systems on Adjacent and Subject Property with references to Soils and Septic Systems
- Well Logs on Subject Property and Adjacent Properties with reference to soils and testing

The soils for the majority of the Subject Property are 1C Bandon sandy loam and 8B Bullards Sandy Loam.

According to the USDA Web Soil Survey the Subject Property is made up of the following soil classifications:

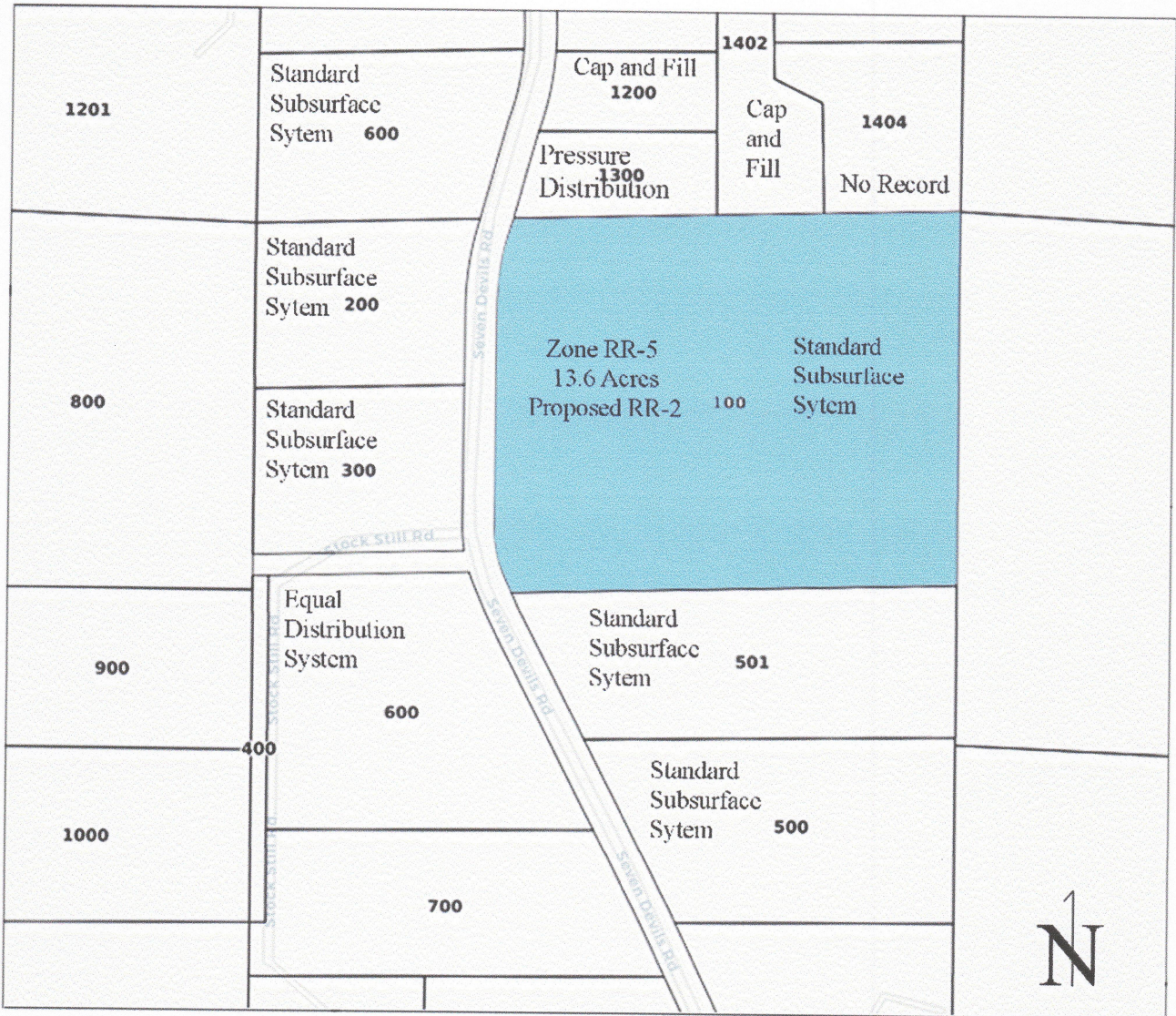
1. *Bandon Sandy Loam (1C)* - This soil is described as having 7 to 12 percent slopes and is well drained. This unit is used mainly for timber production, wildlife habitat, and homesite development. It is also used for pasture and recreation. This unit is suited to the production of Douglas fir. Among the other species that grow on this unit are Sitka spruce, western hemlock, red alder, and western redcedar. The understory vegetation is mainly salal, evergreen huckleberry, western brackenfern, and Pacific waxmyrtle. On the basis of a 100-year site curve, the mean site index for Douglas fir is 137. At the culmination of the mean annual increment (CMAI), the production of 60-year-old Douglas fir trees 1.5 inches in diameter or more at breast height is 140 cubic feet per acre per year. On the basis of a 50-year site curve, the mean site index for Douglas fir is 105. High winds from the Pacific Ocean may seriously limit the growth of trees unless they are in a protected area. The main limitations for the management of timber on this unit are the hazard of windthrow and plant competition. Windthrow is a hazard when the soil is wet and winds are strong. When openings are made in the canopy, invading brushy plants can delay natural reforestation. Undesirable plants reduce natural or artificial reforestation unless intensive site preparation and maintenance are provided. Reforestation can be accomplished by planting Douglas fir, western hemlock, and Sitka spruce seedlings.
2. *Bullards Sandy Loam (8B)* - This soil is described as having 0 to 7 percent slopes and well drained. This unit is used mainly for timber production, wildlife habitat, and homesite development. It is also used for pasture and recreation. This unit is suited to the production of Douglas fir. Among the other species that grow on this unit are Sitka spruce, western hemlock, western redcedar, shore pine, and red alder. The understory vegetation is mainly evergreen huckleberry, creambush oceanspray, salal, Pacific rhododendron, cascara, and western swordfern. On the basis of a 100-year site curve, the mean site index for Douglas fir is 132. At the culmination of the mean annual increment (CMAI), the production of 60-year-old Douglas fir trees 1.5 inches in diameter or more at breast height is 133 cubic feet per acre per year. On the basis of a 50-year site curve, the mean site index for Douglas fir

is 105. The main limitations for the management of timber on this unit are the hazard of windthrow and plant competition. Careful use of wheeled and tracked equipment reduces the disturbance of the protective layer of duff. Maintaining the understory is essential in controlling erosion. Logging roads require suitable surfacing for year-round use. Rock for road construction is not readily available in this unit. Windthrow is a hazard when the soil is wet and winds are strong. When openings are made in the canopy, invading brushy plants can delay natural reforestation. Undesirable plants reduce natural or artificial reforestation unless intensive site preparation and maintenance are provided. Reforestation can be accomplished by planting Douglas fir, Sitka spruce, and western hemlock seedlings.

3. *Blacklock Fine Sandy loam (5B)* - This soil is described as having 3 to 7 percent slopes and is poorly drained. This unit is used mainly for timber production and wildlife habitat. It is also used for cranberry production and recreation. This unit is suited to the production of shore pine. Among the other species that grow on this unit are Sitka spruce, western hemlock, and Port Orford cedar. The understory vegetation is mainly salal, evergreen huckleberry, Pacific rhododendron, manzanita, and slough sedge. On the basis of a 100-year site curve, the mean site index for shore pine is 90. At the culmination of the mean annual increment (CMAI), the production of 60-year-old shore pine trees 1.5 inches in diameter or more at breast height is 79 cubic feet per acre per year. High winds from the Pacific Ocean may seriously limit the growth of trees unless they are in a protected area. The main limitations for the management of timber on this unit are seasonal wetness and the hazard of windthrow. The seasonal high water table limits the use of equipment to dry periods. Because roots are restricted by the cemented layer, trees commonly are subject to windthrow. Reforestation can be accomplished by planting shore pine, Sitka spruce, and western hemlock seedlings. Tree seedlings have only a moderate rate of survival because of the seasonal high water table.
4. *Bandon Sandy Loam (1B)* - - This soil is described as having 7 to 12 percent slopes and is well drained. This unit is used mainly for timber production, wildlife habitat, and homesite development. It is also used for pasture and recreation. This unit is suited to the production of Douglas fir. Among the other species that grow on this unit are Sitka spruce, western hemlock, red alder, and western redcedar. The understory vegetation is mainly salal, evergreen huckleberry, western brackenfern, and Pacific waxmyrtle. On the basis of a 100-

year site curve, the mean site index for Douglas fir is 137. At the culmination of the mean annual increment (CMAI), the production of 60-year-old Douglas fir trees 1.5 inches in diameter or more at breast height is 140 cubic feet per acre per year. On the basis of a 50-year site curve, the mean site index for Douglas fir is 105. High winds from the Pacific Ocean may seriously limit the growth of trees unless they are in a protected area. The main limitations for the management of timber on this unit are the hazard of windthrow and plant competition. Windthrow is a hazard when the soil is wet and winds are strong. When openings are made in the canopy, invading brushy plants can delay natural reforestation. Undesirable plants reduce natural or artificial reforestation unless intensive site preparation and maintenance are provided. Reforestation can be accomplished by planting Douglas fir, western hemlock, and Sitka spruce seedlings.

Septic Systems on Adjacent and Subject Property



“Information Source: USDA Web Soil Survey; Oregon Department of Environmental Quality”
 Resources gathered 2020 by Jarett Lower 541-981-3520 lowerjar@gmail.com

Soils 8B, 1B, 1C, are the dominant soils on the subject parcel indicating suitable conditions for building development. These soils carry a limited 80-75 rating for septic tank absorption fields. The Department of Environmental Quality has approved the installation of a Standard subsurface system on site.

Soil 5B is less represented on site and can be limited by percolation and depth of soil to a cemented sandstone layer. These soils can have a limited suitability for subsurface systems due to lack of depth of the sandstone layer.

Standard system approval by DEQ on the subject parcel and adjacent parcels to the south and west indicate these soils will likely be suitable for Advanced Treatment Technology septic systems in the case of subsurface system is not approved. Parcels to the north show alternatives like sand filters and pressure distribution systems that can be used in areas where soil percolation is limited.

Environmentally ATT systems are advantageous as they often treat waste in a contained system, require little or no subsurface drain fields and treated wastewater contains minimal bacterium to be introduced into the soil or used as irrigation.

Standard subsurface system approval by DEQ on site, use of standard systems in the area and site conditions such as suitable soils, good drainage and gentle topographic support the proposed Zone change on the subject parcel from RR-5 to RR-2, providing for increased rural residential living opportunities in the area.

“Information Source: USDA Web Soil Survey; Oregon Department of Environmental Quality”
Resources gathered 2020 by Jarett Lower 541-981-3520 lowerjar@gmail.com



501

Installation Permit - Residential - New

Certificate of Satisfactory Completion
246-18-000326-PRMT-01

DEQ Coos Bay Office
381 North 2nd Street
Coos Bay, OR 97420
541-269-2721
Fax: 541-269-7984
OnsiteCoosBay@deq.state.or.us
Website: oregon.gov/deq

Borders on south

Date Certificate Issued: 10/16/2018
Work Description: Brown Construction Permit Seven Devils Road

Applicant: Brown, James
Address: P.O. Box 2004
Bandon OR 97411
Phone: 971-645-7218

Primary Contractor: Bob Butler Construction, LLC
Installer License: 37719
Address: P.O. Box 1941
Bandon OR 97411
Phone: 971-645-7218
Email: butlerconstruction@live.com

Owner: James M. Brown
Address: P.O. Box 2004
Bandon OR 97411

Parcel: 27S14W28B501 - Primary **Township:** 27S **Range:** 14W **Section:** 28

Lot Size: 4.82 **Water Supply:** Well
Zoning: N/A **City/County/UGB:** County
Land Use Approval: N/A

Category of Construction: Single Family Dwelling

	Existing	Proposed
Use of Structure:	N/A	Single Family Dwelling
Number of Bedrooms:	N/A	4

System Specifications

Type: Standard
Max Peak Design Flow: 450 gpd. **Proposed Flow:** 450 gpd.
Min Septic Tank Volume: 1500 gal. **Min Dosing Tank Volume:** N/A
Special Tank Requirements: Anti-buoyancy required.

Drain Field Specifications

Drain Field Type: Standard **System Distribution Type:** Equal
Drainfield Sizing: N/A **Distribution Method:** Loop
Media Type: EZ1201P **Media Depth:** N/A
Trench Length: 390 linear ft. **Rock Above Pipe:** N/A
Max Depth: 19 in. **Undisturbed Soil Between Trenches:** 8 ft.
Min Depth: 18 in. **Capping Fills-Min Depth of Fill Material:** N/A

Special Requirements

Groundwater Type: Temporary **Groundwater Depth:** N/A
Other Special Requirements: Dry soil install only.

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500



Residential Septic Site Evaluation Approval

246-19-000199-EVAL

DEQ Coos Bay Office
381 North 2nd Street
Coos Bay, OR 97420
541-269-2721
Fax: 541-269-7984
OnsiteCoosBay@deq.state.or.us
Website: oregon.gov/deq

Date issued: ~~07/11/2019~~
Application status: Site Evaluation Approved
Work description: Site Evaluation at 58603 Seven Devils, Bandon; Sephanie & Bill Morris

Applicant: ✓ Stephanie & Bill Morris
Address: 58603 Seven Devils Rd
Bandon OR 97411
Phone: 541-551-0960
Email: billstephnmorris@aol.com

Owner: Stephanie & Bill Morris
Address: PO Box 2092
Bandon OR 97411

Parcel: 27S14W28B500 **Township:** 27S **Range:** 14W **Section:** 28

Lot size: 4.90 acres **Water supply:** Well
Zoning: N/A **City/County/UGB:** County
County: Coos

Directions to Property: Coming from HWY 101 from Coos Bay. Turn right onto Seven Devils. 1/4 mile before Whiskey Run Rd on the right. Look for address sign (58603) at the road. Two driveways right next to each other.

Proposed use of structure: Single family dwelling
Category of construction: Single Family Dwelling

General Specifications

Max peak design flow: 450 gpd. **Proposed gallons per day:** 375 gpd.
Min septic tank volume: 1000 gal. **Min dosing tank volume:** N/A

System Specifications

System type: Standard **Replacement Area:** Standard
System distribution type: Serial Serial
Distribution method: Serial Serial

Trench Specifications

Trench linear feet: 225 linear ft. **Replacement Area:** 225 linear ft.
Max depth: 30 in. 30 in.
Min depth: 24 in. 24 in.

Special Requirements

Groundwater type: Temporary **Replacement Area:** Temporary
Drainfield type: Standard Standard
Other special requirement: See field worksheet and site plan for more details of approval. See field worksheet and site plan for more details of approval.

CALL BEFORE YOU DIG...IT'S THE LAW

ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth by Oregon Administration Rules. You may obtain copies of the rules by calling the center. (Note: The telephone number for the Oregon Utility Notification Center is 1-800-332-2344.)

7/11/19:10:48:36AM

Page 1 of 2

ONS_OnsiteEvaluation_pr

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51436
Control No.
\$ 490.00
Fee

STATE OF OREGON
DEPARTMENT OF ENVIRONMENTAL QUALITY

600
PERMIT NO. 697-239

New Construction Repair Other

Permit Issued To Brian Castleman 27 14 28B 600/7672.06 Coos
(Property Owner's Name) (Township) (Range) (Section) (Tax Lot / Acct. No.) (County)

Seven Devils/Stocks Hill Bandon Del Cline, R.S. 10/20/97
(Road Location) (City) (Issued by - Signature) (Date Issued)

ON-SITE SEWAGE DISPOSAL SYSTEM

PERMITS ARE NOT TRANSFERABLE

ALL WORK TO CONFORM TO OREGON ADMINISTRATIVE RULES, CHAPTER 340. WORK SHALL BE DONE BY PROPERTY OWNER OR BY LICENSED SEWAGE DISPOSAL SERVICE. (MAKE NO CHANGES IN LOCATION OR SPECIFICATIONS WITHOUT WRITTEN APPROVAL)

SPECIFICATIONS

EXPIRATION DATE 10/20/98 TYPE OF SYSTEM EQUAL DISTRIBUTION

Tank Volume 1,000 Gallons Disposal Trenches Design Sewage Flow 450 Gallons/Day

Maximum Depth 30 inches. Minimum Depth 18 inches. Seepage Bed(s) Square Feet

Equal Loop Serial Pressurized Minimum Distance Between Trenches 10 Foot Centers Linear Feet 225

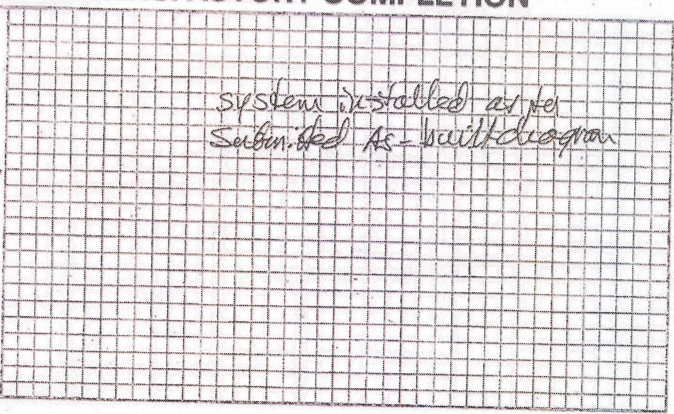
Total Rock Depth 12 inches. Below Pipe 6 inches. Above Pipe 2 inches. Rake Sidewall

Special Conditions (Follow Attached Plot Plan) Install tank as per OAR 340-71-220(3)(b) and 73-025(3) with 8 inch fall from tank outlet to distribution box outlets. Setback at least 5 ft. from any structure. Install distribution box 4 ft. from and level with drainfield piping. Install trenches level.

PRE-COVER INSPECTION REQUIRED — CONTACT DEQ 269-2721

CERTIFICATE OF SATISFACTORY COMPLETION

- As-Built Drawing with Reference Locations
- Installer Brian Castleman
- Final Insp. Date 10-23-97
- Inspected By Del Cline, R.S.
- Issued by Operation of Law
- Pre-cover inspection waived pursuant to OAR 340, Division 71



In accordance with Oregon Revised Statute 454.665, this Certificate is issued as evidence of satisfactory completion of an on-site sewage disposal system at the location identified above. As per OAR 340-71-175(8) this Certificate is valid for five (5) years from date of issuance for connection to the septic system. Issuance of this Certificate does not constitute a warranty or guarantee that this on-site disposal system will function indefinitely without failure.

Walt Clum Nicholas R. Smith 10-29-97 CBWP
(Authorized Signature) (Title) (Date) (Office)

DEQ/WQ-127 (R 1/94)

OFFICE COPY

48

49570
Control No.
\$ 720.00
Fee

STATE OF OREGON
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMIT NO. 696-271

New Construction Repair Other

Permit Issued To Dan & Yvonne Pflumm 27 14 21CD 1300/75132.00 Coos
(Property Owner's Name) (Township) (Range) (Section) (Tax Lot / Acct. No.) (County)
Seven Devils Rd Bandon Del Cline, R/S 04/25/97
(Road Location) (City) (Issued by - Signature) (Date Issued)

ON-SITE SEWAGE DISPOSAL SYSTEM

PERMITS ARE NOT TRANSFERABLE

ALL WORK TO CONFORM TO OREGON ADMINISTRATIVE RULES, CHAPTER 340. WORK SHALL BE DONE BY PROPERTY OWNER OR BY LICENSED SEWAGE DISPOSAL SERVICE. (MAKE NO CHANGES IN LOCATION OR SPECIFICATIONS WITHOUT WRITTEN APPROVAL)

SPECIFICATIONS

EXPIRATION DATE 04/25/98 TYPE OF SYSTEM PRESSURE DISTRIBUTION
Design Sewage Flow 450 Gallons/Day
Tank Volume 1,500 Gallons Disposal Trenches Seepage Bed(s) _____ Square Feet
Maximum Depth 24 inches. Minimum Depth 18 inches. 225 Linear Feet
Equal Loop Serial Pressurized Minimum Distance Between Trenches 10 Foot Centers
Total Rock Depth 12 inches. Below Pipe 8 inches. Above Pipe 2 inches. Rake Sidewall
Special Conditions (Follow Attached Plot Plan) SEE REVERSE FOR INSTRUCTIONS.

PRE-COVER INSPECTION REQUIRED — CONTACT DEQ 269-2721

CERTIFICATE OF SATISFACTORY COMPLETION

As-Built Drawing with Reference Locations
Installer Brown & Son
Final Insp. Date 5-22-97
 Inspected By Del Cline R/S
 Issued by Operation of Law
 Pre-cover inspection waived pursuant to OAR 340, Division 71

System installed after submitted as-built diagram and location notes. Submit Blue Report of Effluent Pump & Block 6-19-97 received

In accordance with Oregon Revised Statute 454.665, this Certificate is issued as evidence of satisfactory completion of an on-site sewage disposal system at the location identified above. As per OAR 340-71-175(8) this Certificate is valid for five (5) years from date of issuance for connection to the septic system. Issuance of this Certificate does not constitute a warranty or guarantee that this on-site disposal system will function indefinitely without failure.

[Signature]
(Authorized Signature)

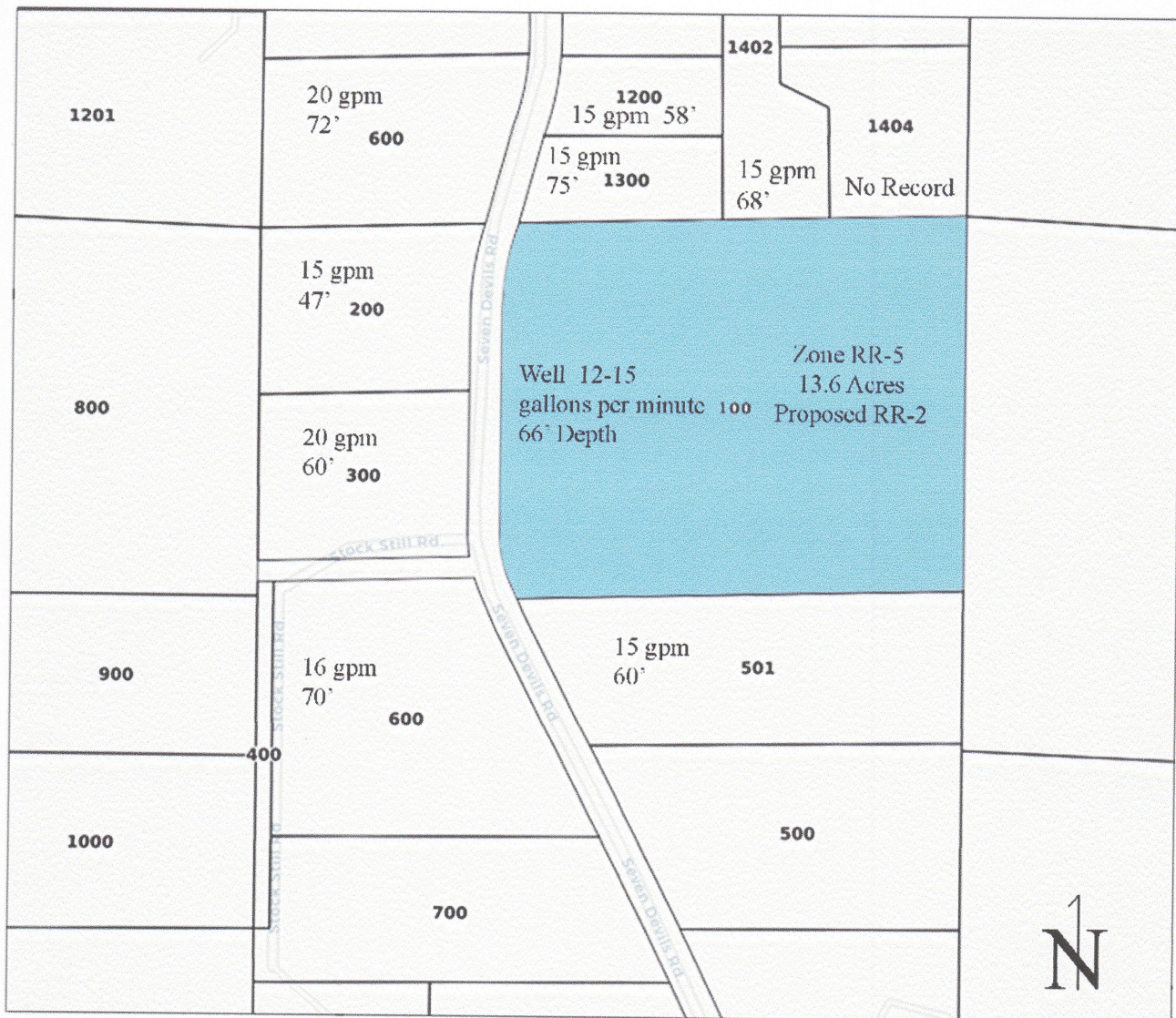
[Signature]
(Title)

5-23-97 CB-WR
(Date) (Office)

DEQ/WQ-121-(R 1/94)

OFFICE COPY

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Well Logs on Subject Property and Adjacent

“Information Source: State of Oregon Water Resources Department”
 Resources gathered 2020 by Jarett Lower 541-981-3520 lowerjar@gmail.com

Well data in the vicinity of the subject parcel is 12 - 20 gallons per minute. The subject parcel has a pH of 6.6 with 7 being neutral, a hardness of 1 with between 1-3 as optimal. Iron and Sediment levels are low and will require minimal filtration or alteration. It is typical in this area to use a UV process for bacteria treatment, fabric or micron filters for sediment and natural filtration and mineral treatment systems to alter iron levels.

The wells are commonly less than 100' deep and the compacted sandstone layer in the soil structure prevents surface contamination from seeping into the natural aquifer. Brown sandy clay 2' - 20' in depth is found to the Tax lot 300 to the West of the subject parcel. The sandy clay prevents most surface water from percolating into drinking water. Tax lot 600 has clay mixed with sand 30'-36' to the northwest. To the north tax lot 1300 has brown sand and clay 1'-30' and tax lot 501 to the south has compressed sandy clay from 2'-20' down.

These conditions indicate abundant water that will require minimal alteration and filtration to provide for the proposed increase in rural residential living.

The applicants had the water on Subject Property tested at Perry Electric/Plumbing in Coos Bay using the standard test for residential water use with no concerns raised. Information can be made available.

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COOS 50708

MAR 23 1998

STATE OF OREGON WATER SUPPLY WELL REMEDIATION WATER RESOURCES DEPT. (as required by ORS 537.763) SALEM, OREGON

WELL I.D. # L 17405 START CARD # 22958

(1) OWNER: Well Number Name Norman G. & Jacqueline J. Watson Address Rt 2, Box 2322 City Bendon State OR Zip 97111

(2) TYPE OF WORK [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [] Rotary Air [] Rotary Mud [] Cable [] Auger [] Other

(4) PROPOSED USE: [X] Domestic [] Community [] Industrial [] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 60 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: Diameter, From, To, Material, From, To, Seals or pounds. Row 1: 9, 0, 20, Bent, 20, 0, 12 3/4. Row 2: 7, 20, 60.

How was seal placed: Method [] A [] B [] C [] D [] E [X] Other Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge Steel, Plastic, Welded, Threaded. Casing: 4, 12, 50, 5000, [X], [], []. Liner: 6, 12, 5, 4250, [X], [], [].

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Row 1: 50, 60, 1008, 4, 4, 4, [], [].

(8) WELL TESTS: Minimum testing time is 1 hour [X] Pump [] Bailor [] Air [] Flowing Artesian Yield gal/min 20 Drawdown 14 Drill stem at Time 1 hr.

Temperature of water 52 Depth Artesian Flow Found Was a water analysis done? [] Yes By whom Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other Depth of strata:

(9) LOCATION OF WELL by legal description: County COOS Latitude Longitude Township 27 N or S Range 14 E or W W.M. Section 28 NE 1/4 NW 1/4 Tax Lot 300 Lot Block Subdivision Street Address of Well (or nearest address) SAME AS ABOVE

(10) STATIC WATER LEVEL: 20 ft. below land surface. Date 3-19-98 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 20'

Table with columns: From, To, Estimated Flow Rate, SWL. Row 1: 20, 60, 20' gpm, 30.

(12) WELL LOG: Ground Elevation

Table with columns: Material, From, To, SWL. Rows: Top soil (0-2), Brown sandy clay mix (2-20), Fine brown sand (20-50), Fine blue brown sand mix gravel (50-60), 60-20.

Date started 3-17-98 Completed 3-18-98

(unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, 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.

Signed WWC Number Date

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, 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.

Signed WWC Number 1581 Date 3-19-98

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

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0005
50579

27-14-28

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 307.700)
WATER RESOURCES DEPT.
SALEM, OREGON

WELL I.D.# L10858

(START CARD) # 93118

Instructions for completing this report are on the last page of this form.

(1) OWNER:
Name Brian Castleman Well Number 523
Address PO BOX 413
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

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

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 70' 6"
Explosives used Yes No Type _____ Amount 76c

Diameter		From		Material		From		To		Sacks or pounds	
HOLE		SEAL									
10"	0	70'	0	Bentonite	0	35	2	15x			

How was seal placed: Method A B C D E
 Other Poured from surface

Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 35 ft. to 70 ft. Size of gravel 10/20

Casing:	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded	Final location of shoe(s)	
									From	To
5"	+1	65'	160'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6"	+1.6	4'	250'		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<u>(Protective Casing)</u>										

(7) PERFORATIONS/SCREENS:

Perforations Method Attached to Casing
 Screens Type Houston V-wire Material Stainless Steel

From	To	Slot size	Number	Diameter	Development	Casing	Liner
65'	70' 6"	10/12		5"	15 ft	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Time
16.6	7' 4"	70'	1 hr.
16.6	7' 4"	70'	2 hr.
16.6	7' 4"	70'	4 hr.

Temperature of water 53° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom BWTS + Co + me
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County 0005 Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W W.M.
Section 28 NE 1/4 NW 1/4
Tax Lot 100 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Steelsteel Lane
Bandon

(10) STATIC WATER LEVEL:
19' 8" ft. below land surface. Date 9/22/97
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 19' 8"

From	To	Estimated Flow Rate	SWL
19' 8"	69	71-75 GPM	19' 8"

(12) WELL LOG:
Ground Elevation +1-300'

Material	From	To	SWL
Gravel Fill	0	1	
Topsoil	1	3	
Sand Fine-med Orange	3	6	
Sand Fine-med Brown	6	21	19' 8"
Sandy Clay Tan	21	22	
Sand Fine-med Brown	22	24	
Sand Fine-CRS w/ Fine	24	30	
Gravel Gray Brown			
Sand Fine-CRS w/ sandy Clay Brn	30	36	
Sand Fine-CRS Gray Brown	36	54	
Sand Fine-CRS w/ sandy Clay Brn	54	56	
Sand Fine-CRS w/ Gravel	56	63	
Fine-med + Sandy Clay Brown			
Gravel Fine-CRS w/ Sand	63	65	
Fine-CRS + Sandy Clay Brown			
Gravel Fine-CRS w/ Sand	65	69	
Fine-CRS Gray Brown			
Clay Gray Brown	69	70	

Date started 9/22/97 Completed 9/23/97
(b) Water Well Constructor Certification:
I certify that the work I performed on the construction, 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.
WVC Number _____
Signed Bandon Well & Septic Co inc Date _____

(b) Water Well Constructor Certification:
I accept responsibility for the construction, 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.
WVC Number 1493
Signed Jim Mack of MGC Date 9/23/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

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RECEIVED

STATE OF OREGON JUN - 5 1997 WELL I.D.# 1 08283
WATER SUPPLY WELL REPORT (as required by ORS 537.765) WATER RESOURCES DEPT. COOS 50475 (START CARD) # 93910
Instructions for completing this report are on the back of this form.

(1) OWNER: Well Number _____
Name Dan Pflumm
Address P.O. Box 66
City Aquila State AZ Zip 85320

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

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

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 75 ft.
Explosives used Yes No Type _____ Amount _____

HOLE SEAL

Diameter	From	To	Material	From	To	Sealant pounds
9	0	20	Bent	20	0	13
7 1/2	20	75				

How was seal placed: Method A B C D E

Other _____
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 75 ft. to 20 ft. Size of gravel Pea

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 4 1/2	12	55	5023	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe	Casing	Liner
55	75	10/10		4 1/2	4 1/2	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Air Drill stem at	Flowing Artesian Time
15		75	i hr.

Temperature of water 52° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County COOS Latitude _____ Longitude _____
Township 29 N or S Range 14 E or W W.M.
Section 21/0 SE 1/4 SW 1/4
Tax Lot 1300 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) SEVEN DEVILS RD.
S. next to Whisky Run Rd.

(10) STATIC WATER LEVEL:
30 ft. below land surface. Date 5-15-97
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 31

From	To	Estimated Flow Rate	SWL
31	75	15 gpm	30

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
Top soil	0	1	
Brown sand w/ Clay mixed	1	31	
Brown Sand	31	75	30

Date started 5-14-97 Completed 5-15-97

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, 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.
Signed _____ WWC Number _____ Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, 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.
Signed [Signature] WWC Number 1361 Date 5-30-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

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STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

501

COOS 57274
10/25/2018

WELL LD. LABEL # 131281
START CARD # 1040980
ORIGINAL LOG #

Page 1 of 1

(1) LAND OWNER
First Name JAMES Owner Well I.D.
Last Name BROWN
Company
Address PO BOX 2004
City BANDON State OR Zip 97411

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

(2a) PRE-ALTERATION
Dia + From To Gauge Stl Plstc Wld Thr
Casing: Material From To Amt sacks/lbs
Seal: Material From To Amt 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

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
Depth of Completed Well 60.60 ft.

BORE HOLE			SEAL			Amt	sacks/lbs
Dia	From	To	Material	From	To		
10	0	60.6	Bentonite Chips	0	25	13.6	S
					Calculated	13.2	
					Calculated		

How was seal placed: Method A B C D E
 Other POURED
Backfill placed from ft. to ft. Material
Filter pack from 25 ft. to 60.6 ft. Material SAND Size 10/20
Explosives used: Yes Type Amount

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

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thr
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6		1.6	4.6	.250				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5		1	55	SDR26				<input checked="" type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s)
Temp casing Yes Dia From + To

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type JOHNSON Material SS

Perf/Screen	Casing/Liner	Dia	From	To	Scm/slot width	Slot length	# of slots	Tele/pipe size
Screen	Casing	5	55	60	.012			

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
15.5	22.6	60	2

Temperature 52 °F Lab analysis Yes By
Water quality concerns? Yes (describe below) TDS amount 112 ppm
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County coos Twp 27.00 S N/S Range 14.00 W E/W WM
Sec 28 NE 1/4 of the NW 1/4 Tax Lot 501
Tax Map Number Lot
Lat or DMS or DD
Long or DMS or DD
 Street address of well Nearest address
58625 SEVEN DEVILS
BANDON, OR 97411

(10) STATIC WATER LEVEL

Existing Well / Pre-Alteration	Date	SWL (psi)	+	SWL (ft)
Completed Well	10/18/2018			20

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 20.00

SWL Date	From	To	Est Flow	SWL (psi)	+	SWL (ft)
10/18/2018	20	60	15.5			20

(11) WELL LOG

Material	Ground Elevation	
	From	To
BROWN GRAY TOP SOIL SANDY	0	1
LT BROWN SAND	1	2
LT BROWN COMPREST SANDY CLAY	2	12
BROWN SANDY CLAY	12	20
BROWN SAND	20	43
BLUE GRAY F SAND	43	60
BLUE CLAY	60	60.6

Date Started 10/17/2018 Completed 10/18/2018

(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 Date
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 1381 Date 10/25/2018
Signed RONALD BARRINGTON (E-filed)
Contact Info (optional) BARRINGTON WELL DRILLING LLC. 541-269-7221

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version:

27S14W28B501 30