OPERATION & MAINTENANCE SERVICE CONTRACT FER

Date:	1/4/22	POL V3163 BOP GO, PUBLIG HEALTH
Service-Provider:	Complete Septic Service 41092 Ziak-Gnat Creek Lane Astoria, OR. 97103 Oregon DEQ Maintenance Provider Licens	#186-22-000053
Owner:	GEARHART MEADOWS LCC	· ·
Filling Address:	Box 2772	
System Location:	GENEHART, OR 97138 COSI MEADOWLANE GENEHART, OR 97138 GN-10W-3KC-5600 LOTA	

DESCRIPTION OF WORK TO BE PROVIDED BY THE SERVICE PROVIDER

- 1. Systems Inspections. We will provide a minimum of one inspection/service visit (per year) over the two-year period of this contract. This includes inspecting, adjusting and servicing the septic tank/dosing tank, effluent filters, pumps, controls; and inspecting the bottomless sandfilter, seepage bed or seepage trenches which are part of the system. Also included is measuring the sludge and scum depth in the tank, cleaning screens, testing float functions and calibrating the effluent pump. We will visually assess color, turbidity and scum overflow and smell for odors. Performance assessment and operation may include sampling for proper operation of the facility. Any samples collected for testing will not be done without advising you first of their need and cost.
- 2. DEQ Annual Report. We will submit the annual required report to the DEQ office in Astoria along with the required fee.
- 3. Record Keeping. We will maintain accurate records of performance data and inspections. These records will be available for inspection upon request by the DEQ.
- 4. Emergency Service. We will provide emergency service of the septic system components within 48 hours of your service request.
- 5. Notification of Tank Pumping. We will advise you of the need to pump a tank(s).
- Rate Increases. We will advise within 30 days of the current contract expiration of any proposed increase in the rates for the coming two-year period.
- 7. Service Invoices. We will invoice you after each scheduled service. If the system is improperly functioning and cannot be remedied during the time of inspection, we shall notify you of when the correction shall be made.
- 8. DEQ Notification of Termination. We will notify the DEQ office in Astoria within 30 days if the service contract is not renewed or terminated.

RECEIVED

#186-22-000053

OWNER RESPONSIBLILTIES:

ACCEPTANCE OF PROPOSAL

Two Year Service contract expires on

- 1. Vegetation Control. The owner shall control vegetation around the tank and sandfilter.
- 3. Notification of System Failure. The owner shall report evidence of any system failures to the DEQ office and to the Service Provider.

COST/BILLING:

1. Annual Fee. The contract service work shall be charged at \$200 per year.

- 2. Billing. Billing shall be sent to the Owner prior to the 1st of the month with payment due by the 10th of each month.
- 3. Annual Report Fee. The annual report fee (currently at \$62) shall be billed to the owner at the time as well.
- 4. Tank Pumping. Pumping the tank(s) shall be an additional charge and are usually required every 3-5 years at a cost of \$600 (subject to change).

CONTRACT TERM: The commencement date of this contract shall be the date the Service Provider receives the fully signed contract from the Owner. The service contract shall run for two years from the commencement date. We require contract renewal for the next two year period within 30 days of this contract expiration.

DISPUTES: All disputes arising out of or related to this contract shall be settled by arbitration administered by the American Arbitration Association, and judgment on the arbitration award may be entered in any court having jurisdiction. The prevailing party in the arbitration shall be entitled to reasonable attorney fees.

I agree to these terms of the contract, including payment immediately upon being invoiced. You are authorized to proceed with the work. Jerry or Jeffery Lebo Service Provider Signature GEARHART MEADOWS, System Owner (print) System Owner phone number Next payment due



Certificate of Satisfactory Completion

Installation Permit - Residential - New

186-22-000053-PRMT

Clatsop County Onsite 820 Exchange Street Astoria, Oregon 97103 503-325-9302 Fax: 503-325-9303

health@co.clatsop.or.us

Website:

https://www.co.clatsop.or.us/publichealth/page/onsite-septic-system-pro

Date Certificate Issued: 08/31/2022

Work Description: Construction/Installation; SFD

Applicant:

Septic System Design

Address:

89647 Manion Drive Warrenton OR 97145

Phone:

503-739-3221

Email:

owensepticdesign@yahoo.com

Primary Contractor: Osburn-Olson, L.L.C.

Installer License: 38583

Address:

Property Address:

33485 SW Old Pine Rd

Warrenton OR 97146

Phone:

(503) 717-3907

Email:

grosburn@hotmail.com

97138

Owner:

GEARHART MEADOWS / Max

Ritchie

Address:

P.O. Box 2772

GEARHART OR 97138

Township:

Range: 10

Section:

OLot On Meadow Ln, Gearhart, OR

3BC

Lot Size:

0.23 acre

Water Supply:

Community Water Supply

Zoning:

Type:

N/A

City/County/UGB:

City

Land Use Approval:

yes

Category of Construction:

Parcel: 61003BC05600 - Primary

Single Family Dwelling

	Existing	Proposed
Use of Structure:	N/A	3 bedroom
Number of Bedrooms:	N/A	3
System Specifications		

Bottomless Sand Filter

Max Peak Design Flow: Min Septic Tank Volume:

450 gpd. 1000 gal. Proposed Flow: Min Dosing Tank Volume: 375 gpd. 500 gal.

Sand filter sqft:

360

Drain Field Specifications

Bottomless Sand Filter Equal **Drain Field Type:** System Distribution Type: Pressurized N/A **Drainfield Sizing: Distribution Method:** N/A 360 Bottomless sand filter sqft: Seepage Bed Specs: 24 in. **DEQ Spec Sand** Media Depth: Media Type: 12 in. N/A Max Depth: Undisturbed Soil BetweenTrenches: 12 in. N/A Min Depth: Capping Fills-Min Depth of Fill Material:

Special Requirements

Permanent N/A **Groundwater Type: Groundwater Depth:** Yes Yes Filter Fabric on Top of Drain Media: Pump to Drainfield Required:

ONS OnsiteCSC_pr 8/31/22: 9:23:19AM

Date Certificate Issued: 08/31/2022

Work Description: Construction/Installation; SFD

Conditions of Approval

In accordance with Oregon Revised Statute 454.66 and Oregon Administrative Rules 340-71, this Certificate is issued as evidence of satisfactory completion and installation of components as described in the permit at the location identified.

Issuance of this Certificate does not constitute a warranty or guarantee that this onsite wastewater treatment system will function indefinitely without failure. Conditions imposed as permit requirements continue for the life of the system.

The area of the initial and the identified replacement area must not be subjected to activity that is likely to adversely affect the soil or the functioning of the system. Such activities may include, but are not limited to, vehicular traffic, livestock, covering of the area with asphalt or concrete, filling, cutting or other soil modification activities.

This system must operate in compliance with OAR Chapter 340, Division 071 and must not create a public health hazard or pollute public waters.

Unless otherwise required by the agent, the system installer must backfill (cover) this system within 10 days after issuance of this Certification of Satisfactory Completion.

Clatsop County Public Health recommends that the owner inspect the septic tank every 3 years and pump it when necessary.

Certificate of Satisfactory Completion

System Inspection:

No

Operation of Law - 7 Days Notice:

No

Pre-Cover Inspection Waived Per 340-071:

No

Comments: N/A

Lucas Marshall

Environmental Health Specialist I

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

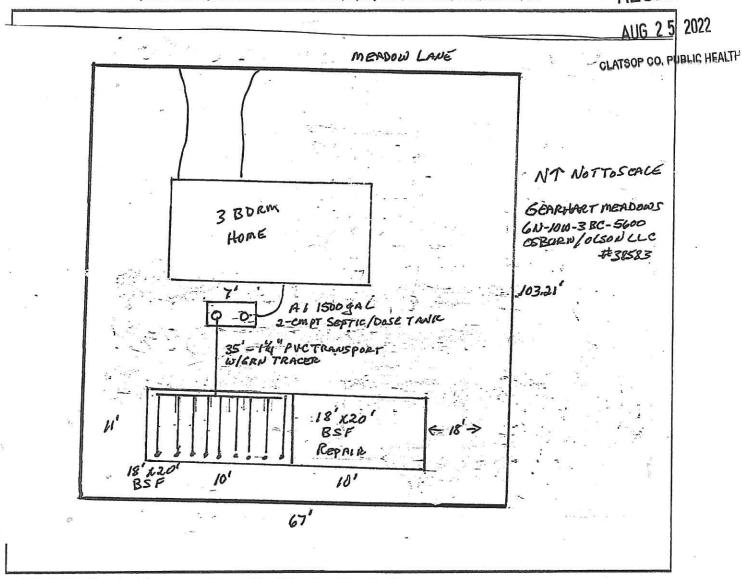
ATTENTION:Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth by Oregon Administration Rules. You may obtain copies of the rules by calling the center. (Note: The telephone number for the Oregon Utility Notification Center is 1-800-332-2344.)

Pursuant to the required permittee must notify the following of a system for which a Agent) has 7 days to permitten for Agent (or Agent) completed form by the Faxed copies are accept Completion is issued. Fare determined to be in	ments within Come Department apermit was issurform an inspected to waive Department (obtable for inspected complete will)	of Env sued is ection of the instruction re- testion re- testion re- testion re- testion re- testion re- testion re-	4.665, O ironment complet f the conspection it established purest punts 1 through the content of	AR 340- atal Qual ed and properties and autishes the arposes cough 4 o	ity (or orior to constr horize offici only. C	on on the original of the original ori	40-071-0175, the gent) when the overing the instead on following the e backfilled. Regular request for received before to the office the	te system installer and/o construction, alteration allation. The Department official notice date, un exceipt and acceptance of the pre-cover inspective a Certificate of Satisfant issued the permit. For	or the a control or the faths on.	SEIVED JG 25 2022 JG 20, PUBLIC HEAL
SECTION 1: Owner	/Permittee I	nform	ation:				Twnshp: 6	Range: 10	S	ect: 3BC
Name: GEARHA	RT MEADOW	S / Ma	x Ritch	ie			Lot: 05600			
Property 0 lot on Address:	Meadow Ln,	Gearha	art, OR	97138						
SECTION 2: Syste	m Compon	ent S	pecific	cations	<u>s:</u>					
A. Tanks/Pumps				Sy	ster	n Type:				Water tight verification*
Tanks(1) Volume:	1500	Com	partmei	nts: 2		Manufacturer:	ALREDIV	ux	D	ate:8/23/32
Tanks(2) Volume:	NIA		partmei			Manufacturer:				ate:
Pump(s) HP: 1/2	Model/Manuf.	PP50	05 6	PREVO	20	Float(s)Type(1 Float(s)Type(2		Manuf. MF ORE	vco	,
B. Piping				-						
Effluent Sewer	tank to drain	ield) Y	'es	Now	Diam	neter:	ASTM#/Other		Length	:
Pressu	ire Transport	Pipe Y	'es 🗸	No	Diam	neter: 1/4"	ASTM#/Other	D1785	Length	35 FT
C. Secondary Treatment	Unit:									
Sand Filter**			Туре:	Bon	DWI	Less		Container Dimensions	:18'X	20'
- Underdrain pipe	Diameter:	4 n	ASTM#			785			Length	136 FT
Manifold piping	Diameter: //	y"	ASTM#	Other:	D	1785			Length	17FT
Internal Pump	HP:			Manufac						
Floats(1)	Type:		Model/N	Manufac	turer					
Floats(2)	Type:		Model/N	Manufac	lurer					
ATT	Yes No	1	Model:				- Ville Land			
Certified Maint.	Provider Nam	e:	Ch	m.P/A		E SOPTIC	SERVICE	<u> </u>		
Operation and Maint.	Contract Rec	eived?	Yes	No		-41	00,00,0			
D. Drainfield Media									,	
Туре	(Gravel, Pipe	or alter	native?)	284	do D	EQSAND;	Tyds EA.	DEG PEAGRAVE	2 DA	ROCK
Distribution Box	Yes No⁴			-1			7	,		
Drop Box	Yes No,									
Distribution Pipe	Yes No 4	D	iameter:		AS	STM#/Other:			_ength:	
Comment	2-24	Ris	ERS	W/CIE	s;	FILTER		Clatsop County De of Public He	ullii	
Provided to S.A. No. 1982	2750 8 KG W		.	22772W1				On-Site Waste Wate	er Prog	ram
*All Tanks(s) were tested **Attach sieve analysis fo	i tor water-ligh or Underdrain l	iness ai Viedia a	tter insta nd Filtei	allation a r Sand	nd pa	issed in accorda	nce with OAR/3 P	ermit No. <u>/86-2</u>	2-000	1053

Final Inspection Request and Notice - Septic ID: 186-22-000053-PRMT

SECTION 3 - As Built Plan

AS-BUILT PLAN OF THE CONSTRUCTED SYSTEM. Indicate the direction of NORTH. Show locations of all wells within 200 feet of the RECEIVED



SECTION 4 - Construction was performed by (Signature Required)

I certify that the information provided on both pages of this document is correct and that the construction of this system was in accordance with the permit and the rules regulating the construction of onsite wastewater treatment systems (OAR Chapter 340, Divisions 71 and 73).

Owner/Permittee or Co	ertified Installe	er w/Certification	n#: Print Name: C	SBURN/			
icensed Installer: Ye	No No	License#: 3	38583		Cerification#:	RIT	826
Owner/ Certifled Signstaller:	gnature: #	tomb	503-4	40-lauBate:	25/22	Phone SO.	# 3-717-3907
SECTION 5 - Offic	e Use Only:			Installer/Owner		chical bioministration	
Notice Accepted Yes	No No	Date:		(Permittee) Notified		No	Date:
If No, Reason for Non Acceptance							
Commen	4.				Clo	itsop Co of Pi	ounty Department ublic Health
Commen			W	1			ste Water Program
						it No.	186-22-000053



Septic Permit Installation Permit - Residential - New

Clatsop County Onsite 820 Exchange Street Astoria, Oregon 97103 503-325-9302 Fax: 503-325-9303

health@co.clatsop.or.us

Expiration date: 2/25/23

Website:

https://www.co.clatsop.or.us/publichealth/pa

186-22-000053-PRMT

33485 SW Old Pine Rd

grosburn@hotmail.com

Warrenton OR 97146

ge/onsite-septic-system-program

Date issued: 2/25/22

Work description: Construction/Installation; SFD

Applicant:

Septic System Design

Address:

89647 Manion Drive

Warrenton OR 97145

Phone:

503-739-3221

Email:

owensepticdesign@yahoo.com

Business License: N/A

Owner:

GEARHART MEADOWS / Max

Ritchie

Address:

P.O. Box 2772

Parcel: 61003BC05600 - Primary

Property address:

Address:

Phone:

Email:

Installer License: 38583

0 Lot On Meadow Ln, Gearhart, OR

(503) 717-3907

GEARHART OR 97138

Township:

Range: 10

Primary contractor: Osburn-Olson, L.L.C.

Section:

3BC

N/A

Lot size:

0.23 acre

Water supply:

Community Water Supply

Zoning:

N/A yes City/County/UGB: County:

City N/A

Action:

New

Type of application:

Septic tank last pumped:

Construction Permit - Residential

System failing: Comments: N/A

Use of structure:

Land use approval:

N/A

Category of construction:

Single Family Dwelling

Existing N/A

3 bedroom

N/A

Proposed

Number of bedrooms: System Specifications

Type: Max peak design flow: **Bottomless Sand Filter** 450 gpd. ATT description: Proposed flow:

N/A 375 gpd.

Min septic tank volume:

1000 gal.

Min dosing tank volume: Sand filter sqft:

500 gal. 360

Drain Field Specifications

Drain field type:

Bottomless Sand Filter

System distribution Ttpe:

Equal

Drainfield sizing: Seepage bed specs:

N/A

Distribution method: Bottomless sand filter sqft: Pressurized 360

Media type: Media type description: Other - Indicate Product/Manufacturer **DEQ Spec Sand**

Media depth:

24 in.

12 in. 12 in.

N/A

Undisturbed soil between trenches:

N/A

Max depth:

Capping fills-min depth of fill material:

N/A

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.)

ONS_OnsitePermit_pr

Min depth:

Onsite Permit 186-22-000053-PRMT

Date issued: 2/25/22 Expiration date: 2/25/23 Work description: Construction/Installation; SFD

Special Requirements

Stake out required: No

Groundwater type: Permanent Groundwater depth: N/A Yes

Pump to drainfield reqd: Yes Filter fabric on top of drain media:

Conditions of approval

Have a copy of the approved plot plan and permit on site during construction and for all inspections. Submit a complete As-Built and Materials list form prior to final inspection on all construction-installation permits.

Modifications to the approved plan or proposed use need to be approved prior to installation. A construction-installation permit is valid for one year from the date of issuance.

All work is to conform to Oregon Administrative Rules, Chapter 340, Divisions 071 and 073, Make no changes in system location or specifications without written approval from the permit issuing agent.

Install with dry soil conditions.

Vehicular traffic and livestock must be restricted from the system area.

All roof drains must be directed away from the system area.

Meet all required setbacks.

A pre-cover inspection of the installed absorption facility (prior to backfill) is required.

A final inspection request and notice form including a detailed and accurate as-built plan of the constructed system and a list of all materials used in the construction of the system must be completed and submitted prior to requesting a final inspection.

Lucas Marshall

Environmental Health Specialist I

2/25/22



#186-22-000053

Clatsop County

Onsite Septic System Program 820 Exchange Street, Suite 100 Astoria, Oregon 97103 Phone 503 325-9502 www.co.clatsop.or.us RECEIVED

FEB 18 2022

CLATSOF GO, PHREIG HEALTH

M 0 1750 -

Application for Onsite Sewage Treatment System

Max Richie Po Box 2772 Gearhart UIZ 97138 Name GEAR HART MEADOWS LLe Mailing Address (Street, PO Box, City, State, Zip) B. Legal Property Description B. Legal Property Description B. Legal Property Description Township Range Section Tax Lot Tax Account Number Acreage or Lot Size Clatsop County Subdivision Name Lot Block Property Address: Lot 22 on Meadows LN Gear Nart OR 97138 (Street, City, State, Zip)
Name GEAR HART MEADOWS LLC Mailing Address (Street, PO Box, City, State, Zip) B. Legal Property Description B. Legal Property Description B. Legal Property Description Township Range Section Tax Lot Tax Account Number Q2 County Subdivision Name Lot Block
B. Legal Property Description
Township Range Section Tax Lot Tax Account Number 22 Classop Subdivision Name Lot Block
Township Range Section Tax Lot Tax Account Number Acreage of Lot Size Classop County Subdivision Name Lot Block
Clatsop Subdivision Name Lot Block
County Subdivision Name
Property Address: Lot 22 on Meadows LN Gearhart OR 97138
Property Address:
(Street, City, State, Zip)
101 south turn right at bearnast Lin Then lett at
Co tage turn left on Meadows head right 5th property on right
Co trage FORM (E) FORM / Calabody Facility / Water Information
C. Existing Facility / Proposed Facility / Water Information Water Supply Water Supply
Existing Facility Problem Committee Problem Committee C
☐ Single Family Residence
Number of Bedrooms Private
☐ Other
D. Type of Application
☐ Renewal Permit ☐ Authorization Notice for:
☐ Site Evaluation ☐ Connecting to an Existing System Not in Use
Permit Renair Permit Transfer
Permit Reinstatement
☐ Minor ☐ Compliance Record Review ☐ The Addition of One or More Bedrooms ☐ Personal Hardship
☐ Alteration Permit ☐ Temporary Housing
☐ Major ☐ Other-Please Specify
☐ Minor If the required fee and attachments are not included with this application, it will be returned to you as incomplete. Post a flag or sign with
If the required fee and attachments are not included with this application, it was a construction of the required fee and attachments are not included with this application, it was a construction of the required fee and address at the entrance to the property. Flag and number the test holes. Your name and address at the entrance to the property. Flag and number the test holes.
Date
Ma Ithau Ourse 503 739 3221 Owensertic design & yal
Signature Mathew Owev 503 739 3221 Owensentic designer year Applicant's Name (Please Print Legibly) Applicant's Phone Applicant's E-Mail Address (CO
Mathew Owen 503 739 3221 Owensentic design & Yell Applicant's Name (Please Print Legibly) Applicant's Name (Please Print Legibly)
Mathew Owen 503 739 3221 Owenseptic design & Yell Applicant's Name (Please Print Legibly) Applicant's Name (Please Print Legibly) Applicant's Mailing Address Applicant's Mailing Address
Mathew Owen 503 739 3221 Owensentic design & Yell Applicant's Name (Please Print Legibly) Applicant's Name (Please Print Legibly)



Signature: _

Clatsop County

Environmental Health 820 Exchange Street, Suite 100 Astoria, Oregon 97103 Phone 503 325-8500 RECEIVED FEB 1 8 2022

ALATSOP BO. PUBLIS HEALTH

#186.22-000053

mmcnickle@co.clatsop.or.us www.co.clatsop.or.us

Notice Authorizing	Ponrocontativo
Notice Authorizing	Representative
Max Richie	, have authorized
(Property Owner-	- Please Print)
Mathew Owen	To act as my agent in performing
(Authorized Representative – Please Print)	
the activities. necessary to obtain site evaluations, permi	
services provided by Clatsop County on the property des	
division 071. I agree that any costs not satisfied by the A	uthorized Representative are my responsibility.
PROPERTY IDENTIFICATION	
	1 a Ga about AR 07138
	Ln Gearhart OR 97138
Property Situs or	Road Address
	100 -
And described in the records of Clatsop County as: $C \setminus C$	1
Township 6N Range 10W Section 3BC	Tax Lot 5600 Map ID
TownshipRangeSection	2
	\sim
PROPERTY OWNER:) lom
Name: Gearhart Meadows LLC	Email: CORStal homes NWO
Mail Address: PO Box 2772	City/State/Zip Gearhart OR 97138
Phone: 503-200-0077	FAX:
	- 0.10.00
Signature:	Date: 2-12-22
ALITHODIZED DEDDECENTATIVE.	
AUTHORIZED REPRESENTATIVE:	
Name: Mathew Owen	Email: Owenseptic design @yahoo.com
COCIT Mania	
Mail Address: 896-17 Manion Dr	City/State/Zip Warrenton OR 97146
Phone: 603-739-3221	FAX: 603-717-8681

Date: 2-12-22

	#106-22-000053 RECEIVED
	FEB 18 200
	Applicant Name/Property Owner: Max Richie Gemenhart Meadows Lice Of PHALID HEALTH
1.	Applicant Name/Property Owner: 7 Too RIENTE VISION WILLIAM WIL
	Mailing Address: PO Box 2772
	City/State/Zip: Gear hart OR 97138
	Telephone: 503-200-0077
2.	Property Information:
	County: Clatsop Tax Lot No: 5600
	Township: 6N Range: (0W Section: 3BC
	Physical Address: 10+ 22 on Meadows LN Gear hart OR 97138 (451 Meadow by
	22
	DIOUR.
	Subdivision Name (if applicable):
3.	This proposed facility is for:
	An individual, single family dwelling Describe the type of development, business or facility and the provided services or products:
4.	Permit or approval being requested:
,	Construction-Installation permit for: New Construction Repair Alteration Non-water-carried facility requests (for example, pit, privy/vault toilet for campgrounds)
	Authorization Notice for:
	Other changes in land use involving potential sewage flow increases
	SECTION 2 – TO BE COMPLETED BY CITY OR COUNTY PLANNING OFFICIAL
5.	Property Zoning: Zoning Minimum Parcel Size 10,000 Sq. Fl.
6.	The facility is located: ☑ inside city limits ☐ inside UGB ☐ outside UGB
7.	Does the proposed facility comply with all applicable local land use requirements: ☐ Yes ☐ No
	If you answered "Yes" above, was this compliance based on:
	☑ Compliance with local comprehensive plans and land use requirements (provide a citation to the applicable provisions)
	☐ Conditional approval (provide findings and citation or attach a copy of the applicable land use decision)
	Measure 49 waiver (provide Department of Land Conservation and Development approval number)
	Either provide reasons for affirmative compliance decision or attach findings of fact:
	AN A W EV
	COMPAGE AND COMPAG
	09 6 0000 CHK#3170
8.	Planning Official Signature:
	Print Name: Chad Sweet Date: 00/14/2022

Telephone: (503)738-5501

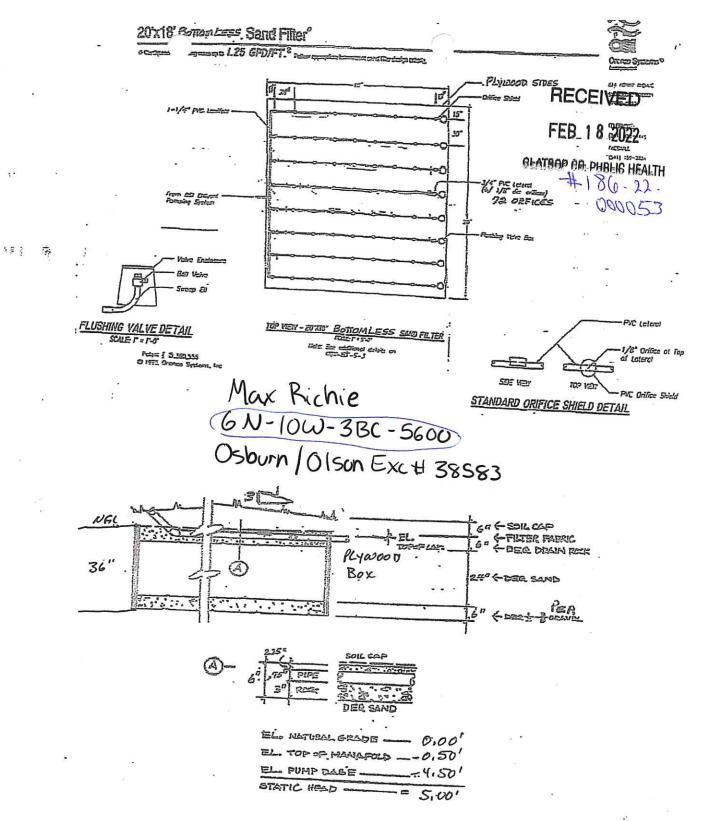
Title: City of Gearhart Administrator

Max Richie
6N-10W-3BC-560CRECEIVED
OSburn Oson Exc# FEB 18 2022
GLATEGOP GOL PHOLIG HEALTH
38583
\$186-22-000053

Not to Scale

Proposed
3 BRM
House

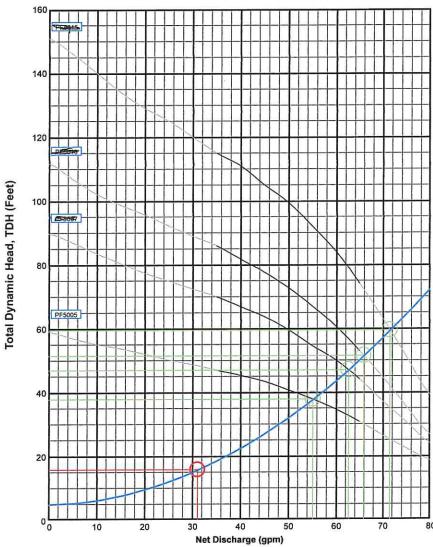
27' 1'4" PVC Trans w/grn tracer
1500 gal A1 septic/close tank
18' x 20' BSF
Repair 18' \$\frac{1}{20'} \text{BSF} \frac{1}{20'} \text{BSF} \frac{1}{20



BOTTOMLESS SAND FILTER & MANAGED SECTION Gearhart Meadows LLC 6N-10W-3BC-5600, Osburn/Olson LLC #38583

#186-22-000053 GLATSOP GO. PUBLIC HEALTH

Parameters		
Discharge Assembly Size	2.00	inches
Transport Length	27	feet
Transport Pipe Class	40	
Transport Line Size	1.25	inches
Distributing Valve Model	None	
Max Elevation Lift	5	feet
Manifold Length	17.5	feet
Manifold Pipe Class	40	
Manifold Pipe Size	1.25	inches
Number of Laterals per Cell	8	
Lateral Length	17	feet
Lateral Pipe Class	40	
Lateral Pipe Size	1.25	inches
Orifice Size	1/8	inches
Orifice Spacing	2	feet
Residual Head	5	feet
Flow Meter	None	inches
'Add-on' Friction Losses	0	feet
Calculations		
Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	72	
Total Flow Rate per Zone	31.2	gpm
Number of Laterals per Zone	8	
% Flow Differential 1st/Last Orifice	0.1	%
Transport Velocity	6.7	fps
Frictional Head Losses		
Loss through Discharge	1.9	feet
Loss in Transport	3.2	feet
Loss through Valve	0.0	feet
Loss in Manifold	0.6	feet
Loss in Laterals	0.0	feet
Loss through Flowmeter	0.0	feet
'Add-on' Friction Losses	0.0	feet
Pipe Volumes		
Vol of Transport Line	2.1	gals
Vol of Manifold	1.4	gals
Vol of Laterals per Zone	10.6	gals
Total Volume	14.0	gals
Minimum Pump Requirements		
Design Flow Rate	31.2	gpm
	15.7	feet



PumpData

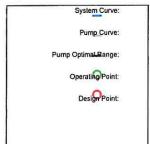
PF5005 High Head Effluent Pump 50 GPM, 1/2HP 115/230V 1Ø 60Hz, 200/230V 3Ø 60Hz

PF5007 High Head Effluent Pump 50 GPM, 3/4HP 230V 1Ø 60Hz, 200/230/460V 3Ø 60Hz

PF5010 High Head Effluent Pump 50 GPM, 1HP 230V 1Ø 60Hz, 200/460V 3Ø 60Hz

PF5015 High Head Effluent Pump 50 GPM, 1-1/2HP 230V 1Ø 60Hz, 200V 3Ø 60Hz







RECEIVED FEB 1 8 2022

GLATAAP BA: PHALIB HEALTH

186.22-000053

PARTS LIST

18' x 20' Bottomless Sandfilter Gearhart Meadows LLC 6N-10W-3BC-5600 Osburn/Olson LLC \$38583

- 1 A-I Concrete 1500 gal 2-cmpt septic/dose tank
- 2 24" x 24" poly risers
- 2 24" poly lids w/screws
- 2 ADH200 adhesive
- 1 PF500511 pump, 115v.
- 1 PVU57-1819 pump vault
- 1MVP-SI/DM control panel, 115v. (Timed dose) 1

SBEX4 splice box (external)

- 1 HV200BCX hose & valve assy.
- 1 MF3P floats and stem 27" Stem for vault
- 72 OS125 (1%") orifice shields
- 1 GL2 grommet
- 180ft PVC D1785 pipe
- 7 1%" PVC "T"
- 2 IW PVC 90° ells
- 18 45°PVC ells
- 8 7" round valve covers
- 8 shut-off valves
- 1 2" x 1%" reducer

7yds DEQ Peagravel

7yds DEQ Drain Rock

28yds DEQ Sand

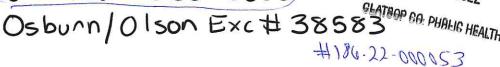
Filter fabric

Plywood and boards for sand filter box

Max Richie

6N-10W-3BC-5600

FEB 1 8 2022





CALPONTIANO*
Quality Test Report

Plant 544A-Santosh
Product AQR8364-CC Filter Sand

Specification CalPortland

Moist Mass

820.00

Unit

g

Pan



Procedure

Sample Information

Sample No. 1628349630

Date Sampled 10/01/2021 15:23

Sampled By Eric Egge Type Control

Method Stockpile

Spilt Sample Resample

Wash Loss %

1,3

Gradation Results

Moisture %

8.7

Wash Mass

744.10

1.9

Date Completed 10/01/2021 15:23

3.80

743.90

Dry Mass

754.20

Tested By Eric Egge

Sleve	Mass Retained	Cum Mass	Ind %	% Retained	%.Passing	Target	Specification	Comment
1/2° (12.5mm)	0.00	0.00	0	0	100	·····		***************************************
3/8° (9.5mm)	1.70	1.70	0	0	100		100-100	
1/4° (6.3mm)	7.20	8.90	1	1	99		157 157	
#4 (4.75mm)	8.20	17.10	1	2	98		95-100	
#8 (2.36mm)	46.90	64.00	6	8	92		80-100	
#16 (1.18mm)	121.30	185.30	16	25	75		45-85	
#30 (.6mm)	246.90	432.20	33	57	43		15-60	
#50 (.3mm)	233.20	665.40	31	88	12		3-15	
#100 (.15mm)	60.80	726.20	8	96	4		0-4	
#200 (75µm)	13.90	740.10	1.8	98.1	1.9		13 M	

100.0

0.0

Test Name	Date	Result	Unit	Target	Specification	Comment
···	Procedure	Lab			Tested By	
-#200 (75um)	10/01/2021 15:23	1.84	%		***************************************	***************************************
FM	10/01/2021 15:23	Santosh 2.77			Eric Egge	
Grad Loss	10/01/2021 15:23	Santosh 0.027	%		Eric Egge	
Total Molsture	10/01/2021 15:23	Sentesh 8.72	%		Eric Egge	
<u></u>	222/2010/00/00	Santosh			Eric Egge	

Max Richie GN-10W-3BC-5600 FEB 18 2022 Osburn/Olson Exc # 38583 BLATERED BR. PHBLIC HEALTH

#186.22-000053



Plant 544A-Santosh Product AOR8036D-3/8" - #8 PEA GRAVEL Specification AOR8036 3/8" - #8 PEA GRAVEL



Sample Information

Sample No 1628348713

Date Sampled 10/05/2021 15:46

Sampled By Eric Egge

Type Shipping

Method Belt-Cut

Date Completed 10/05/2021 15:46

Split Sample Resample

Test Note Front Ave.

Gradation Results

Tested By Eric Egge

Unit Moist Mass 1655.00 g

Dry Mass 1602.80

Wash Mass 1600,20

Moisture % 3.3

Wash Loss % 0.2

Procedure

. Slava	Mass Retained	Cum Mass Retained	ind % Retained	% Retained	% Passing	Target Specification	Comment
1/2" (12.5mm)	2.90	2.90	0	D	100	100-100	
3/8" (9.5mm)	110.40	113.30	7	7	93	80-100	
1/4" (6.3mm)	741.90	855.20	46	53	47		
#4 (4.75mm)	512.90	1368.10	32	85	15	0-20	
#8 (2.36mm)	228.70	1596.80	14	100	0	0-10	
#16 (1.18mm)	1.10	1597.90	0	100	0	0-5	
#30 (.6mm)	0.50	1598.40	0	100	D		
#50 (.3mm)	0.50	1598.90	0	100	D		
#100 (.15mm)	0.30	1599.20	0	100	0		
#200 (75µm)	0.10	1599.30	0.0	99.8	0.2	0-1	
Pan	0.80	1600.10	0.2	100.0	0.0		

Test Name	Date	Result	Unit	Target	Specification	Comment
	Procedure	Lab			Tested By	
	10/05/2021 15:46	5.91	**************			
		Santosh			Eric Egge	
Brad Loss	10/05/2021 15:48	800.0	%			
		Santosh			Eric Egge	
otal Moisture	10/05/2021 15:46	3.26	%			
		Santosh			Eric Egge	



Transaction Receipt

Record ID: 186-22-000053-PRMT

IVR Number: 186076135645

Clatsop County Onsite

820 Exchange Street Astoria, Oregon 97103 503-325-9302 Fax: 503-325-9303

health@co.clatsop.or.us

Receipt Number: 458691

Receipt Date: 2/23/22

https://www.co.clatsop.or.us/publichealth/page/onsite-septic-system-progran Worksite address: 0 lot on Meadow Ln, Gearhart, OR 97138

Parcel: 61003BC05600

			Fe	ees Paid		
Transaction date	Units	Descrip	tion	Account code	Fee amount	Paid amoun
2/23/22	1.00 Ea	Install - Sand filter - by gallons day		81-7203	\$1,641.00	\$1,641.00
2/23/22	1.00	GIS fee	Onsite	81-7045	\$9.00	\$9.00
2/23/22 1.00 DEQ Su		charge	78-9934	\$100.00	\$100.00	
Payment Method	d: Check numb	er: 3173	Payer: GEARHART MEADOWS / Max Ritchie	1.0 × 1.0 ×	Payment Amount:	\$1,750.00
PC	ansaction Comme Box 2772 arhart, OR 97138					

Cashier: Annette Brodigan Receipt Total: \$1,750.00

CAT. OF ENVIRONMENTAL CUALITY

MAY 1 6 1996

Uregon

May 13, 1996 NORTH COAST BRANCH OFFICE WARRENTON

RITCHIE DEVELOPMENT CORP PO BOX 19267 PORTLAND OR 97280

DEPARTMENT OF

ENVIRONMENTAL

QUALITY

RE: OSS:NWR: CLATSOP COUNTY: SITE EVALUATION REPORT FOR GEARHART MEADOWS # 3 SUBDIVISION: LOTS 48

NORTHWEST REGION

THROUGH 60: TWN 6N, RNG 10W, SEC 3B, TAX LOT

2501.

Dear Sir:

In response to your recent application for site evaluations of the proposed Gearhart Meadows No. 3 subdivision, the above-described property was examined on April 9 and 10, 1996, to determine the methods of on-site sewage disposal for which it is suited. This evaluation report consists of four (4) pages and a map of the approved area(s) for each lot. This subdivision is being re-evaluated due to proposed lot line adjustments. The initial evaluation report was issued in 1994.

The following lots have been found suitable for a conventional sand filter system that discharges effluent through the bottom.

Lots 48, 49, 50: Lots 52, 53, 54, 55, 56, 57: Lots 59, 60.

The system for each lot would have the capacity to serve a single family dwelling, with no more than 4 bedrooms. Peak daily sewage flow into the system is limited to 450 gallons, with an average daily sewage flow of not more than approximately 225 gallons per day. Premature system failure may occur if either flow limit is exceeded.

The initial systems will each consist of an 1100 gallon dosing septic tank, associated controls and alarm, and a 360 sq. ft. pressurized sand filter, discharging the effluent through the bottom. The replacement system when needed will consist of the same type system as the initial.

The system shall not exceed the following depths, in inches, at the lowest elevation point for the filter:

	11101.	
Lot	Maximum Depth	Lot Maximum Depth
	11	55 15
49	27	56 6
50	30	57 12
52	10	59 21
53	12	60 29
54	7	

The bottom of any sand filter cannot be above ground surface, (after all vegetation and sod is removed).

John A. Kitzhaber Governor



2020 SW Fourth Avenue Suite 400 Portland, OR 97201-4987 (503) 229-5263 Voice TTY (503) 229-5471 DEQ-1 The following lot has been found suitable for a pressurized seepage bed installed with a capping fill.

Lot 58.

The system for this lot would have the capacity to serve a single family dwelling, with no more than 4 bedrooms. Peak daily sewage flow into the system is limited to 450 gallons, with an average daily sewage flow of not more than approximately 225 gallons per day. Premature system failure may occur if either flow limit is exceeded.

The initial system will consist of an 1100 gallon dosing septic tank, associated controls and alarm, and a 600 sq. ft. pressurized seepage bed. The bed shall be installed a minimum of 12 inches and no deeper than 14 inches into the native ground surface. The system shall be installed beginning 10 feet from the west property line. This will allow the system to be as high as possible above the groundwater. A capping fill will be placed over the entire system. If a system is proposed to be installed elsewhere on the lot, a sand filter will be required. The replacement system when needed will consist of the same type system as the initial.

Please refer to the enclosed map for information about the location of the disposal systems (including the future repair/replacement disposal systems).

The following lot is denied for on-site sewage disposal.

Lot 51.

This lot is denied due to indications in the soil that groundwater will rise to within 20 inches of the ground surface in the vicinity of pit #1. The groundwater at the time of the evaluation was noted at 35 inches below ground surface. OAR Chapter 340-71-290(3)(b) requires that the bottom of a disposal area following treatment through a sand filter must be at least 24 inches above the highest point of groundwater, when installed in sands. With a bottomless sand filter placed on the surface of the ground this would require a minimum of 24 inches from ground surface to groundwater (after the area is removed of sod and vegetation) during any part of the year. As indicated above, the groundwater can be expected at 20 inches below ground surface.

The area of pit #2 does not meet the setback of 50 feet from surface public waters as required by OAR Chapter 340-71-290 (3)(g).

This site is therefore denied for on-site sewage disposal.

In accordance with Oregon Administrative Rules, (OAR Chap. 340-71), you have three possible alternatives in regards to lot 51:

- 1. You may provide test pits in another area of the property for evaluation. There will not be additional fees, if the Department is notified that these pits are available for evaluation within 90 days from the date of this letter. However, this site does not appear to have adequate area for another evaluation. The property has limited area available for on-site sewage disposal. After 90 days, any request for review will require a new evaluation application and necessary fees. The property will be evaluated using DEQ rules in effect at the time of this new application.
- 2. You may request a variance from these Rules. The variance request is through the Department of Environmental Quality. This is not an automatic variance. You must provide technical justification that demonstrates your proposed system will operate over an extended period of time, that it will not degrade the environment and will provide public health protection. An application; justification; and exhibits, including this report, a land use compatibility statement, and detailed plans of your proposed system will be necessary. Technical advice from a knowledgeable consultant is recommended. A variance application fee of \$255 is required. A Variance Officer from DEQ will review your application and the property. A determination will be made, in writing, following an informational hearing. All information from your file will be provided at your request. This property however, has severe limitations for on-site sewage disposal, as noted in the above report. Unless public health and environmental protection is assured, a variance request cannot be supported and will not likely be approved by DEQ.
- 3. If you conclude this report to be in error of these Rules, you may request a review pursuant to OAR Chap. 340. The report review is through the Department of Environmental Quality. The application is a written request that includes all information you have received from this evaluation, the reason the report is in error, citing the specific OAR's that conflict with the report, and a \$320 application fee. Other DEQ personnel will review this and visit the site to determine compliance with the appropriate rules.

For further information regarding a report review or a variance request, please contact the Oregon Department of Environmental Quality, NW Region, On-Site Sewage Disposal, 2020 SW 4th Ave, Portland OR 97201.

A construction-installation permit is required to install each sewage system on any approved site. Please contact the North Coast Branch Office of the Department of Environmental Quality for information regarding permit procedures and necessary fees. The phone number is 503-861-3280.

Any approvals referenced above are given on the basis that each lot or parcel described above will not be further partitioned or subdivided, and that conditions on the subject or adjacent properties have not been altered in any manner which would prohibit issuance of a permit in accordance with O.R.S. 454.605 through 454.745 and Administrative Rules of the Environmental Quality Commission (EQC). Any such subdivision, partitioning or alteration may void this report.

WARNING: This is a technical report for on-site sewage disposal only. It may be converted to a permit only if, at the time of permit application, the property has been found to be compatible with applicable LCDC-acknowledged local comprehensive land use plans and implementing measures or the Statewide Planning Goals. The report will remain valid until an on-site sewage system is installed pursuant to a construction-installation permit obtained from the Department of Environmental Quality, or until earlier cancellation, pursuant to EQC rules, with written notice thereof by the Department to the owners according to DEQ records or the County tax records. Subject to the foregoing, this report runs with the land and will automatically benefit subsequent owners.

If you have any questions regarding this report, please contact me at this office. The phone number is 503-229-6345.

Sincerely,

Dennis C. Illingworth, R.S.

Environmental Specialist

DCI:dci/

Cc: \NCBO: DEQ

Karl F. Foeste, 361 SW Main Warrenton OR 97146

City of Gearhart Planning Office PO Box 2510 Gearhart OR 97138

Clatsop County Dept. of Planning and Development 800 Exchange Suite 100 Astoria OR 97103

Enclosure

App	Licant <u>Gear hav</u>	+ Meadows	Stage III Da	ite <u>3-/-</u>	94 Pa	raluator Dewry roel Size COT	# 59	
		SW .	So	nil Matrix Color	and Mottling (N	otation), % Coars		nta
	Depth	Texture				g Effective Soil		
C	64-53"	FSC/MS	10 YRZ/1 +	z.5 Y 5/3	<u> </u>			
54 T Plt 1	53'-68'	٠ گ	Z.5Y5/2					
	. 68′′	S	H20.					
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ca+	0'-45" 45"-62"	FSL/MS	104R2/1 & Z Z 5 Y 5/2	5 Y 5/3				
SAT Plt 2		٤						
	62"		H20	***************************************			• • • • • • • • • • • • • • • • • • • 	70.009
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64+	0-99"	FSC/ms	Augereel					···
SA+	99"-117"	5	Z5 Y 5/2					
	117"		H20					70
	B 7114	===/	4 - 0	- F				
SAT	0-74" 74"-86"	FSC/ms S	Augered 2.545/z					
Pit Z			2.31-12			*		
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			ystem Sizing					
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Speci	al Conditions			***				

