# Harnett County Department of Public Health

PERMIT # 55-50 2165-00522	Operation Permit	
	New Installation 🖎 Septic Tank 🖂 Nitrification Line 🗆 Repair 🗆 Expansion	
	PROPERTY LOCATION: 115 VILLAGE GENDER. CRANG CHURCHED, )	5
Name: (owner) DAW AYAW GUILDERS		
System Installer: Com Promores		
Basement with plumbing: Garage Number of Bedro	oms 4	
Type of Water Supply:   Community   Public   V		
System Type: 25% NEWCTON STSTEM		
(In accordance with Table V a)	Owner must contact Health Department 6 months prior to expiration for permit renewal.	
1.1		
This system has been installed in compliance with applicable North Carolina Gene	ral Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the Improvement Fermit and Construction Authorization.	
	6/1/1/94/1	
* Priessure M	ANITOLD 1970	
SPECS EN		
* DUE TO LOT	ACCIESS TOWAL	
AND REPAIR	ENSTALLED HALLE	
3 w/ spie 1	25'-1 201'C2	
	70-1	
* Instant:		١,
* EACH STSTE	WAS UNSUITABLE	/
3' VALUE TO	TUBE STOTEM	
- R-+	DOGE	
GI P X DOM	8 + menti.	
10		
	108/2027	3
* 513	PROPOSED BY NOMES SOIL CONSULTING	
8 11411	150 PONSIBLE TO OGIANN	
* ARD	CANT SHALL HAD GEEN MESPONSIBLE TO OGNAMIN	
D/w   ALL	A MANNE AND GUIDRE FROM HI GOTYCH	
35' STM	E ON FEDERAL AUTHORITIES TO GOODS	
PERMIT CONDITIONS:	HAD SOPPULIE OUT	
l. Performance: System shall perform in accordance with	Rute 1961. ALTERS PLACED PICT	
. ,	PERMITING	
III. Maintenance: As required by Rule .1961. Other: Subsurface system operator required? Yes		
	operation conditions, maintenance and reporting	
IV. Operation:	(	
V. Other:		
□D-Box □	Pump 🗆 Alarm 🗆 H20Line 🗆 PWR Line	е
Following are the specifications for the sewage disposal system of		
**	CHANGER TIPS Septic Tank: 1000 gallons Pump Tank: 1000 gallons	
73	t length 440 [Tistrac] width of depth of ach ditch 406 feet ditches 3 feet ditches 20 inches	
Drainage Field ditches 6 of e	ach ditch 406 feet ditches 3 feet ditches 10 inches	
Trendi Diani nequiredLillear leet		1
Authorized Cross Asset	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Authorized State Agent	1 11111 Date 03/08/2022	

#### PRESSURE MANIFOLD DESIGN

Name: Dan Ryan Builders

P.I.N. #:

D#:

Address: Lot 55

Subdiv: Olde Mill Village

Lot#: 1

# of BDR:

4 Daily Flow: 450 gal/day L.T.A.R.:

gal/day/sq.ft 0.30

Septic Tank: 1000 gals

**Pump Tank:** 

1000

Sq. Foot:

1230

Stone Depth:

Number of Taps:

5

Length of Trenches:

410

Depth of Trenches:

ft(See Tap Chart for Details)

in

18" in Manifold Length:

48

side(s) of manifold

Supply Line: length:

Manifold Diameter: 4in sch 80pvc

Tap Configuration: 6 in spacing

gals

350 ft Diameter:

2

in sch 40pvc

Friction Loss + Fitting Loss:

15.81

ft(supply line length + 70' for fittings in pump tank)

Design Head:

2 ft **Elevation Head:** 

20.80

ft

Total Head: 38.61 ft

Pump to Deliver:

41.26

gals/min at

38.61 ft head

**Dosing Volume:** 

187

gals,

awdown: 187 gals divided by

19.65 gals/in =

9.5

inches

## TAP CHART

Bench Mark	0	is = 100.00	set at EIP at co	rner Cabin Hill	and Redgrass		Design Head:	2	
Pump tank elev.		16	84.00	Pump elev.	79.00	1	Manifold elev.	99.80	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Blue	1.2	98.80	55	1/2in SCH 80	5.48	63.75	165	0.386
2	Orange	2.3	97.70	55	1/2in SCH 80	5.48	63.75	165	0.386
3	Yellow	3.5	96.50	100	3/4in SCH 80	10.1	117.50	300	0.392
4	Red	4.6	95.40	100	3/4in SCH 80	10.1	117.50	300	0.392
5	Pink	5.9	94.10	100	3/4in SCH 80	10.1	117.50	300	0.392
		total	feet =	410	gal/min =	41.26		LTAR =	0.30
% of Dose Vol.		70		Des. Flow	480			(Itar + 5%)	0.32
<b>Dose Volume</b>		187		Pump Run=	11.63			(Itar W/ INOV)	0.40
Dose Pump Time	е	4.52		Tank Gal/IN	19.65			(Itar + 5%)	0.42
Drawdown in Inc	ches	9.5		Elev. Head	20.80				
Supply Line Len	gth	350							
Comments:									

## **Hydraulic Profile**

inifold Elevation	99.80	350	
mp tank elev.	84.00	2	
Pump elev.	79.00	0	

## PRESSURE MANIFOLD DESIGN - REPAIR SYSTEM

Name: Dan Ryan Homes

P.I.N. #: 0

D#:

0

Address: Lot 55

Septic Tank: 1000 gals

Subdiv:

Olde Mill Village

Lot#:

1

# of BDR:

4 Daily Flow: 480 gal/day L.T.A.R.:

0.30

Number of Taps:

Pump Tank:

1000 gals Sq. Foot:

909

gal/day/sq.ft

Stone Depth:

5

Length of Trenches:

400

ft(See Tap Chart for Details)

Depth of Trenches:

25

Manifold Length:

48 in

Manifold Diameter:

4in sch 80pvc

360

Tap Configuration: 6 in spacing

side(s) of manifold

Supply Line: length:

Diameter:

2

Friction Loss + Fitting Loss:

20.68

ft(supply line length + 70' for fittings in pump tank)

in sch 40pvc

1

ft

ft

in

**Elevation Head:** 

12.50

**Design Head: Total Head:** 

35.18 ft

gals/min at

Pump to Deliver:

47.10

35.18

ft head

**Dosing Volume:** 

195 gals,

2

Drawdown: 195 gals divided by

19.65 gals/in =

9.9

inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter, or equal is required.

Possible pumps:

Hydromatic:

Goulds:

Myers:

Zoeller:

Other:

#### TAP CHART

Bench Mark	0	is = 100.00	set at				Design Head:	2	
Pump tank elev.		<u>16</u>	84.00	Pump elev.	79.00		Manifold elev.	91.50	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
6	Blue	9.5	90.50	160	1in SCH 40	20.2	205.86	480	0.429
7	Orange	10.9	89.10	145	1in SCH 80	16.8	171.21	435	0.394
8	Yellow	12.6	87.40	95	3/4in SCH 80	10.1	102.93	285	0.361
		total	feet =	400	gal/min =	47.1		LTAR =	0.30
% of Dose Vol.		75		Des. Flow	480			(Itar + 5%)	0.32
<b>Dose Volume</b>		195		Pump Run=	10.19			(Itar W/ INOV)	0.40
Dose Pump Time	)	4.14		Tank Gal/IN	<u>19.65</u>			(Itar + 5%)	0.42
Drawdown in Inc	hes	9.9		Elev. Head	12.50				
Supply Line Leng	gth	360							
Comments:									