Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

A

Permit Number
H S001174

Onsite Wastewater Treatment System Permit Application

Include Form B and C. Submit correct fee with this Application

☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

PLEASE PRINT OR TYPE

A. Onsite System Location

Address* 16531 S. 38th St. City Roca, NE Zip 68430
(no rural route)

Legal Description SW 19 08 07E LAT 40.6481 N LONG 96.6757 W
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 15-19-200-004-000 *Approx. Address (If to be determined)

B. Owner Roca Berry Farm

Name Jeff & Bev Schaefer Signature

Address 16531 S. 38th St City/State/Zip Roca, NE 68430

Home Phone 402-421-2933 Work Phone

C. Certified Installer

Name: Jeffery N Schoeneck, P.E. E-8989 Signature Jeffery N Schoeneck

Address 26720 Elkhorn Oaks Cir City/State/Zip Arlington, NE 68002

Work Phone 402-720-9209

D. Engineer ☐ **Check and complete if engineer designed system** P.E. License Number: E 8989

Designer Name Jeff Schoeneck, P.E. Firm Horizon Envirotech LLC Work Phone 402-720-9209

E. This system will serve a

☐ Residential Dwelling Number of Bedrooms Whirlpool Bathtub? ☐ Yes ☐ No Total Acres
Garbage Grinder? ☐ Yes ☐ No

☒ Commercial Establishment/Other Facility Specify Assembly Hall Design flow in gallons per day 855

Type of Wastewater ☒ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process

1. Health Department
Site visits
Date rec'd
Date frwd
Comments
ACTION ☐ Approved ☐ Disapproved
Signature

2. Supt. Bldg. Insp. or Village Clerk
Comments
Date rec'd
Date frwd
ACTION ☐ Approved ☐ Disapproved
Signature

3. City or County Engineer
Comments
Date rec'd
Date frwd
ACTION ☐ Approved ☐ Disapproved
Signature

Installation Final Written Approval
By
Date

Business Office Use Only
Date Received 12-7-15 Amount Paid $385.00
Received By SB Cash/Check No. VLSLB 2852

White - Health Department Yellow - Engineer Pink - Building & Safety

Form A Updated: 4/15

Soil Absorption Test Data Sheet

Owner Information:

Owner: Jeff Schaefer Phone: 402-421-2933

Address: 16531 S 38th St, Roca, NE 68430

Location: SW Barn Location

Latitude 40.6481 Longitude 96.6757

Township _____ Range _____ Sec. _____ 1/4 sec. _____

County: Lancaster Area: _____ Acres

Soil type: Sand/Loamy Sand _____ Loam _____

Sand _____ Silt _____ Clay _____ Sandy Si Loam _____

Silty Clay Loam _____ Silt Loam X Sandy Loam _____

Presaturation period:

Test Day Weather

Weather Sunny Temp. 60

Start Date	Start Time	Finish Date	Finish Time
11/12/15	11:30 AM	11/12/15	3:30 PM

Percolation test data:

Hole No.	Hole Depth (in.)	Final Percolation Readings: Start Date Mo./Day	Start Time (Hr./Min.)	Start Water Level (in.)	End (Hr./Min.)	End Water Level (in.)	Final Results: Elapsed Time (Min.)	Water Level Drop (in.)	Percolation Rate (Min./Inch)
1	30	11/13/15	1:44 PM	7.45	2:14 PM	5.75	30	1.70	17.6
2	30	11/13/15	1:45 PM	7.65	2:15 PM	6.25	30	1.40	21.4
3	30	11/13/15	1:46 PM	7.60	2:16 PM	6.30	30	1.30	23.1
4	30	11/13/15	1:47 PM	7.25	2:17 PM	5.35	30	1.90	15.8
5	30	11/13/15	1:48 PM	7.75	2:18 PM	7.05	30	0.7	42.9

Jeffery N. Schoeneck

Jeffery N. Schoenbeck, P.E.
26720 Elkhorn Oaks Cir
Arlington, NE 68002
(402) 720-9209
Phone

Sum of Percolation rates = 120.8

Number of test holes = 5.0

Average of rates in Minutes/inch = 24.2

*If rates vary more than 20 minutes/inch, do not average but use the slowest rate for design purposes.

10 Ft Boring 0-1.75' VDGB SiL
1.75-6.5' Br SiL
6.5-9.6' Lt Br Loamy Sand & Sandy Loam
9.6-10' Lt Br Clayey Sand
*Heavy Mottling Indicates Seasonal Water Table @ 9.2 Ft Below Surface

Nate C. Hartman

From: jeffhet@1791.com
Sent: Saturday, December 05, 2015 3:03 PM
To: Nate C. Hartman
Subject: Septic Permit
Attachments: Roca Berry Farm Septic Permit.pdf

Nate,

Attached is the septic permit application for Roca Berry Farm - West Barn. I will call Monday with a Credit Card payment. I intend to have the system ready for inspection by Wednesday, late morning or early afternoon. I will call in later Monday or Tuesday to schedule a definite inspection time.

Let me know if I need to get you any further information.

Regards,
Jeff Schoeneck, P.E.
Horizon Envirotech, LLC
402-720-9209



Google earth

feet 200
meters 60

Roca Berry / Scary Farm - Soil Percolation Test & BFE
(West Barn Location)
16531 S. 38th St. - Roca, NE

Base Flood Elevation Determination
Section 19-08-07E, Lancaster County, Nebraska

Valid: December 8, 2014 to December 8, 2019
(Effective FIRM dated: 4/16/2013)



Use and Limitations

The Base Flood Elevation (BFE) is defined as the calculated water surface elevation during a flood with a 1% annual probability of being equaled or exceeded in any given year.

If a structure is located on one of the BFE contour lines, use the elevation associated with the line. For structures between two contour lines, use the higher value. Please note that contours are referenced to NAVD 1988. Elevations of unlabeled contours continue in a consistent pattern, and may be estimated from labeled contours nearby. Elevations in areas with an effective detailed study are for reference only; the official elevation should be determined from the published profile.

This determination may be used for floodplain management or permitting. For design of developments within the floodplain, the Nebraska Department of Natural Resources (NDNR) recommends that a professional engineer perform a site-specific analysis. NDNR provides floodplain information from best available data to other units of government based on authority from Nebraska state statutes.

The BFEs shown on this map are valid only for the dates listed above and may be superseded at any time if better data becomes available.

Legend
- BFE--NAVD 1988
- Sections
- Effective Flood Zone

N
W E
S

Nebraska
Department of Natural Resources

1,000 500 0 1,000 2,000 Feet

This BFE was determined by:

Katie Ringland

Digitally signed by Katie Ringland, PE, CFM
DN: cn=Katie Ringland, PE, CFM, o=Nebraska Department of Natural Resources, ou=Floodplain Management, email=Katie.Ringland@nebraska.gov, c=US
Date: 2014.12.16 09:41:36 -06'00'

Katie Ringland, P.E., CFM
(402) 471-2094, Katie.Ringland@nebraska.gov
Nebraska Dept. Natural Res., P.O. Box 94676, Lincoln, NE 68509

HS001174 - T8, R7, S.19

Date: 11/19/15

Roca Berry/Scary Farm - West Barn Restroom Addition, Septic System
16531 S 38th St, Roca, NE

Proposed Maximum Occupancy/Event Load - 285 persons

Typical Flow Rates for Assembly Hall Use - 3 gal/seat
Per Crites & Tchobanogleous 1998 " Small & Decentralized Wastewater Management Systems" (Table 4-3)

Maximum Daily Design Flow - 855 gal/day

Design Soil Percolation Rate - 42.9 min/in

Minimum Sq Ft of Laterals based on formula - Sec 019.02, Chapter 4, Title 124
sq ft = design flow(gpd)/(5/(Perk Rate^0.5))
= 1120 sq ft

Minimum Lateral Length - Using ARC 36 Graveless Chambers (29" wide avg base width)
1120 sq ft / ((29/12) X 1.5) = 308.9 Ln Ft
320 Ln Ft Proposed

Septic Tank Sizing - 1125 + (0.75 X 855 gpd) = 1,766.25 gallons
2,000 gallons Proposed

PROFESSIONAL AGRICULTURAL ENGINEER
JEFFERY N. SCHOENECK
E-8989
11/19/2015

Prepared By:
Jeffery N. Schoeneck, P.E. E-8989
Horizon Envirotech, LLC
26720 Elkhorn Oaks Cir
Arlington, NE 68002
402-720-9209

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS001174

System Type: Standard

Situs: 16531 S 38 ST, RURAL, NE

Issued: 12/10/2015

Expires: 12/10/2016

Description: S19, T8, R7, 6th Principal Meridian, LOTS 20 & 21 NE

Owner: ROCA BERRY FARMS INC
ATTN: JEFFERY E SCHAEFER 16531
S 38 ST
ROCA, NE 68430-9805

Judith A Halstead
Judith A. Halstead, MS, Health Director

Dear Applicant:

The above document is your permit to construct a new On-site Waste Water System at the location listed. Please contact this office once the sytem is complete in order to schedule a final inspection before use.

Judith A Halstead
Judith A. Halstead, MS
Health Director