District Health Department No. 4
On Site Sewage System Permit

Alpena County
100 Woods Circle
Suite 200
Alpena, MI 49707
989-356-4507

Cheboygan County
825 S. Huron Street
Suite 1
Cheboygan, MI 49721
231-627-8850

Montmorency County
12519 State Street
P.O. Box 183
Atlanta, MI 49709
989-785-4428

Prasque Isle County
106 E. Huron Street
Suite A
Rogers City, MI 49779
989-734-4723

Owner Information
Land Owner Name: County Of Alpena
Address:

Site Information
Township: ALPENA
Town: 32N
Range: 8E
Section: 3
Road Street Address: 10002 Hinks Park Rd
Alpena MI 49707
United States

Directions to Site: US23 NORTH TO LONG LAKE PARK RD. TAKE A LEFT. TRAVEL JUST OVER 1/4 MILE AND TAKE A LEFT ON HINKS PARK RD.

General
Property Size: 101.5 ACRES
Seasonal Water Table: 30"
Date: 10-12-2017
Soil Boring 1: Yes
Type of Boring: Backhoe
Depth in Inches: 60
Soil Texture:
0-8" LTS
8-18" LS and Gravel
19-30" L
31-60" LM mix
Mottling: 30"
Sanitarian Initials: KP

Permit Requirements
Elevated System: Yes
Variance Granted: Yes
Tank in gal.: 4000
Dosing Tank in gal.: 1000
Gallons/Dose: 750
Distribution Box: yes-center of field
Absorption Field: Drain Bed
Square feet: 5200
Fill Depth: 36"
Fill Type: clean sand

Permit Comments
Must meet all required isolation distances.
Distribution box required center of field.
Protect discharge line from frost.
Risers to grade required on all tanks.
Visual alarm required on dosing system.
Install field in area not previously used as a drainfield.
Check outlet baffle; replace if necessary.
Existing tank must be pumped, crushed, and filled with sand or removed.
Contact DHD#4 sanitarian prior to starting field construction.
Additional Requirements: Wastewater flows and loading design based upon requirements of the Michigan Criteria for Subsurface Sewage Disposal.

Permit Approved By: Kevin Prevost
Environmental Sanitarian

PERMIT EXPIRES TWO YEARS FROM DATE 10/19/17
OF ISSUE:
IT IS AGREED THAT THE WORK SHALL BE DONE IN ACCORDANCE WITH DHD #4 REGULATIONS GOVERNING THE CONSTRUCTION AND INSTALLATION OF SEPTIC TANKS AND SEWAGE DISPOSAL SYSTEMS. IT IS AGREED TO NOTIFY DHD #4 BEFORE BACKFILLING THE SEPTIC TANK AND/OR SEPTIC TANK SYSTEM IN ORDER THAT AN INSPECTION CAN BE MADE.

THE SYSTEM IS REQUIRED TO BE LOCATED IN THE AREA OF THE SOIL BORING AS INDICATED ON THE APPROVED SITE PLAN. SHOULD CHANGES TO THIS LOCATION BE NEEDED CONTACT DHD #4. IT IS UNDERSTOOD THAT THIS SYSTEM IS ONLY A TEMPORARY MEANS OF SEWAGE DISPOSAL. A PERMIT IS NOT A GUARANTEE OF PERFORMANCE. LIFE EXPECTANCY OF THIS SYSTEM WILL BE DIRECTLY AFFECTED BY THE HOMEOWNER PUMPING AND MAINTAINING THIS SYSTEM. FOOTING DRAINAGE, DOWNSPOUTS, WATER SOFTENERS AND ANY OTHER WASTE NOT DEFINED AS SEWAGE SHALL NOT BE CONNECTED OR DISCHARGED INTO THE SEPTIC TANK OR SEWAGE DISPOSAL AREA. A CERTIFICATE OF INSPECTION ACKNOWLEDGING PROPER SYSTEM INSTALLATION MUST BE ISSUED BY THE HEALTH DEPARTMENT PRIOR TO ASSUMING OCCUPANCY OF THIS STRUCTURE. A PERMIT FOR A SEWAGE DISPOSAL SYSTEM SHALL BE VALID FOR A PERIOD OF TWO YEARS (24 MONTHS) AFTER THE DATE OF ISSUANCE UNLESS DECLARED VOID AS PROVIDED IN THESE REGULATIONS. PERMITS ARE NOT TRANSFERABLE TO OTHER PERSONS OR LOCATIONS. I CERTIFY THIS INFORMATION TO BE TRUE AND CORRECT AND THAT I HAVE READ AND UNDERSTAND THE ABOVE STATEMENTS.
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<th>FROM</th>
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<th>Absorption Beds and Tranches</th>
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a. All distances are in feet and measured horizontally.
b. Other types of pipe may be approved by the Health Officer.

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**DISTRICT HEALTH DEPARTMENT NO. 4**

CONSTRUCTION DETAILS FOR AN ELEVATED ABSORPTION BED REQUIRED FOR PERMIT #

**Aerial View**

Absorption Area

**Square Foot**

Buffer Zone

**Feet Wide**

Taper Zone (4:1) Slope

**Feet Wide**

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**Cross-Section**

Cover Material (6" - 12")

Drainfield (Typical)

Buffer Zone

**Feet Wide**

Taper Zone (4:1)

**Feet Wide**

Seeded Top Soil

Original Gravel

Original Parent Soil

*Sod removal should be accomplished with a backhoe to avoid the smearing, sealing or compacting that can occur when excavation takes place using a dozer or front-end loader.*

Sanitarian: ____________________ Date: ________
District Health Department No. 4

10/18/2017

Specification Sheet for Wastewater Flow Calculations for new North Service Building

Peak flow demand calculation based upon requirements of Rule 11 paragraph 2, subrule 1 of Administrative rules for Campgrounds in Michigan.

Campground has 105 licensed modern sites, served by two (2) service buildings therefore calculation based upon flow from ⅔ of the total licensed sites.

The following is required for the onsite sewage disposal system:

1. 52 sites x 75 gallons/day/site = 3900 gpd peak demand
2. 4000 gallons total storage
3. 1000 gallon dosing tank (dose 750 gallons/dose)
4. 5200 square feet of drainfield
5. Laterals on 4 foot centers (unless low pressure installed)
6. Distribution box required in center of field
7. Risers to grade on all tanks
8. Visual/audible alarm required on dosing system
9. Protect discharge line from frost
10. Minimum 100 feet isolation distance to all onsite wells
11. Minimum 100 feet isolation distance to all surface water.

In the proposed drainfield area, plus 5 feet, surrounding, remove topsoil, level and place 36 inches of clean sand fill on grade. Construct drainfield on top of sand fill.

4:1 taper required on field.