

District Health Department No. 4

September 30, 1998



Alpena County

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Fax (517) 356-9080

Cheboygan County

Doris E. Reid Center
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Cheboygan, MI 49721
(616) 627-8850
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Montmorency County

P.O. Box 183
Elkland Center
Lower Level
Atlanta, MI 49709
(517) 785-4428
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Presque Isle County

151 E. Huron St.
Rogers City, MI 49779
(517) 734-4723
Fax (517) 734-3866

Mr. Steve Perkins
4040 Powers Circle
Salt Lake City, Utah 84124

RE: Proposed Retreat Center, Brown Island
Presque Isle Twp, T33N, R8E, Sec 4
Presque Isle County, Michigan

Dear Mr. Perkins:

Regarding your permit application to construct a retreat center on Brown Island in Grand Lake, Presque Isle County, Michigan, I have the following comments:

1. Soils at the site are marginally acceptable as the grey/stony clay material found on site is slowly permeable. Drainfields in this type of soils are typically installed at or above existing grade.
2. The flow rate anticipated from this facility should average about 50 gallon/person per day. We will require the following when constructing the lodge/dining facility and shower/lavatory building:
 - a. Laundry facilities will not be allowed.
 - b. Low flow water fixtures will be required for all water use fixtures servicing toilets, urinals, lavatories and showers.
 - c. Commercial or residential dishwashers will not be permitted. Utensil and dishwashing must be done in a three compartment sink.
3. The septic tank system will require installation of 2 1000 gallon septic tanks. Approval can be granted to install ABS or PVC septic tanks.
4. Drainfield loading will be 1/2 gallon/square foot. A drain field area 3500 square feet in size will be required. The elevation of this system will be that the lowest elevation of the drain field bed will be 12 inches below existing grade. Because this site slopes towards the water, the edge of the field closest to the lake will be built up to above grade.
5. It will be necessary to transport aggregate via barge to the island. Some backfill material may also need to be transported unless suitable soils can be found on the island.

6. An approved on site water supply is also necessary for this facility. This may require transportation of a well drilling rig via barge or over the ice to nearby the island. A permit to construct a type II public water supply is required and is available from our office. This well must be located a minimum of 75 feet from all sources of contamination including surface waters.

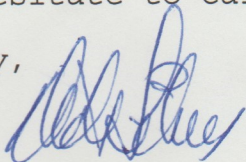
Other items I have thought about regarding this project are:

1. Zoning issues - Presque Isle Twp.
2. Possible Family Idenpendence Aging licensing as a children's camp.
3. Fire/Loss insurance available.

In summary, we are approving this proposed project in concept. Specific details regarding the location and layout of the structures and sanitary facilities are yet to be determined.

Do not hesitate to call me if you have questions or comments.

Sincerely,



Richard Silver, RS

RS/mas

cc: Frank Krist, RS
Presque Isle County Office