



Mitchell E. Daniels, Jr.
Governor

Gregory N. Larkin, M.D., F.A.A.F.P.
State Health Commissioner

June 15, 2011

Mr. Thomas R. Hohman, P.E.
Department of Natural Resources
402 W. Washington Street, W299
Indianapolis, IN 46204-2739

Dear Mr. Hohman:

Re: Revised Plans and Specifications
Project No. 6409191
Indiana Dunes State Park
New Septic System
1600 North 25 East
Section 13, T37N, R6W
Chesterton, Porter County

The plans and specifications for sanitary features of the proposed project have been reviewed and are hereby approved on this date.

This project includes the installation of approximately 10 lineal feet of new 4-inch force main to a new manhole for discharge; approximately 15 lineal feet of 12-inch PVC sanitary sewer to new bar screen; approximately 80 lineal feet of 8-inch sewer pipe to new Algaewheel System, which includes the following: an Anox Tank with recycle line, Primary Clarifier #1 with decant line to digester, flush force main from drip fields, and flow diversion to an equalization tank, Primary Algaewheel Bay #1 with 45 Algaewheels, Secondary Clarifier #2 with decant line to digester, Secondary Algaewheel Bay #2 with 45 Algaewheels, Tertiary Clarifier #3 with decant line to digester and force main to dosing tank, and a Digester for reducing and wasting sludge; approximately 170 lineal feet of effluent sanitary sewer to the dosing tank; a 10-foot by 20 foot dosing tank with a possible four 37.54 GPM submersible high head pumps with a total dynamic head of 69.3 feet for dosing (initially only two pumps and **Zones #1 and #2** (drip fields) will be installed and utilized with a future addition of the other two pumps in the dosing tank and **Zones #3 and #4** as needed), a timed dose volume of 1,214 gallons (a dosing time of 32.3 minutes on and 2 hours and 53 minutes off between doses for 7 doses per day per zone) and 62.7 GPM and a total dynamic head of 88 feet for flushing; and

approximately 175 lineal feet of 3-inch force main through a flow meter to **Zone #1 (initially installed)** with approximately 8,500 lineal feet of ½-inch drip line with 0.53 GPH drippers on 2 foot by 2 foot spacing and a flush return 3-inch line to the Valve Box of approximately 490 lineal feet, approximately 120 lineal feet of 3-inch force main through a flow meter to **Zone #2 (initially installed)** with approximately 8,500 lineal feet of ½-inch drip line with 0.53 GPH drippers on 2 foot by 2 foot spacing and a flush return 3-inch line to the Valve Box of approximately 360 lineal feet, approximately 160 lineal feet of 3-inch force main through a flow meter to **Zone #3 (to be installed in future as needed)** with approximately 8,500 lineal feet of ½-inch drip line with 0.53 GPH drippers on 2 foot by 2 foot spacing and a flush return 3-inch line to the Valve Box of approximately 460 lineal feet, and approximately 150 lineal feet of 3-inch force main through a flow meter to **Zone #4 (to be installed in future as needed)** with approximately 8,500 lineal feet of ½-inch drip line with 0.53 GPH drippers on 2 foot by 2 foot spacing and a flush return 3-inch line to the Valve Box of approximately 365 lineal feet, and approximately 40 lineal feet of 4-inch force main to Primary Clarifier #1 for a design wastewater flow of **34,000 GPD**.

This approval letter shall act as your construction permit and shall supersede Construction Permit No. G1064028, issued on June 8, 2010. This permit shall be void if construction is not begun before **July 1, 2012** and completed by **July 1, 2013**.

Approval of this project is conditional and subject to the following requirements:

1. That grab samples be obtained from the dosing tank for **pH, Temperature, BOD, and TSS** at least once on one normal weekend per month and one day after holiday weekends in June, July, August, and September. The water usage at magnetic flow meters after the dosing tank must be monitored during this period. The chemical analyses must be done by a certified laboratory. The reports of the analysis and any field observations must be submitted to the Indiana State Department of Health, **no later than 30 days after each sampling event.**
2. That if pollution, health hazards, or nuisance conditions develop or are created, immediate corrective action be taken by the owner.
3. That no change in occupancy or use of the facility served be effected if it would result in wastewater flow on the peak day in excess of **34,000 gallons Per Day**, or if it would result in wastewater being generated of a type incompatible with absorption field disposal. Any such change in occupancy or use may be made only after the department has issued a construction permit for modifications to the subject wastewater disposal facility that will allow it to accommodate increased wastewater flows.
4. That the permittee notify the local health department at least 7 days before construction of the approved commercial wastewater disposal facilities is to commence.

5. That all necessary local permits and approvals be obtained before construction is begun on this project. You are hereby notified that most county and local health departments, and several conservancy districts as well, require that a sewage disposal permit be obtained before construction may begin. The sanitary features of this project must also comply with any additional local health department requirements.
6. That plans and specifications for any changes, alterations or additions to this herewith approved be submitted and approved prior to such construction.
7. That sanitary features comply with any additional requirements of the Porter County Health Department.
8. **That Mr. Edward Miller, Sanitary Engineering, AC 317/233-7186, State Department of Health, 2 North Meridian, Indianapolis, Indiana 46204, be notified at least 15 days prior to the date construction is to be undertaken so that a pre-construction conference with the contractor can be arranged. It is of vital importance to the success of your drip disposal system that the contractor has a complete understanding of drip construction techniques.**

These plans and specifications were prepared and certified by Mr. Thomas A. Tiefert, P.E., and Mr. Albert C. Stong, P.E., Commonwealth Engineers, Inc., Indianapolis, Indiana, and submitted on August 27 and October 29, 2009; and March 19, May 18, and June 8, 2010; May 25 and June 13 and 15, 2011.

If you wish to request review of this Approval, you must petition for review in writing, demonstrating that:

1. You are a person to whom the Approval is specifically directed;
2. You are aggrieved or adversely affected by the Approval; or
3. You are entitled to review under any law.

Any petition for review and petition for stay of effectiveness should be submitted in writing within fifteen days of the receipt of this approval letter to:

Court Administrator
Office of Legal Affairs, #3H
Indiana State Department of Health
2 North Meridian Street
Indianapolis, IN 46204-3006

If you do not object to this Approval, you do not need to take any further action.

Sincerely,



Michael Mettler, Director
Environmental Public Health Division

ERMiller

Approval No. **G1064028R**

cc: Mr. Thomas A. Tiefert, P.E., Commonwealth Engineers, Inc.

Mr. Albert C. Stong, P.E., Commonwealth Engineers, Inc. ✓

Porter County Health Department