

Sand Lake Inlet/Outlet
MDNR DAM # 2269

June 2, 2018 9:30 am

Sand Lake HOA Meeting
Cambridge Township Hall

Introduction

- **Lenawee County Drain Commissioners Office**
 - The duties of the Drain Commissioner are established by statutory law (Michigan Drain Code of 1956, as amended) as well as delegated by the County Board of Commissioners.
 - The Lenawee County Drain Commissioner is responsible for the maintenance of 711 separate drainage districts encompassing over 1,500 miles of drains within the boundaries of the county.
 - Administration and maintenance of 9 separate sewer systems and 4 water systems.
 - Administration and maintenance of the court-ordered lake levels on 8 lakes in Lenawee County, and 1 Lake Improvement Board.
 - This office also issues and enforces soil erosion permits, reviews subdivision plats, and performs storm water reviews for developments.

Sand Lake Level History

- The legal level was set at 969.46 feet above sea level by the Honorable G. Arthur Rathbun in the Lenawee County Courthouse on March 4, 1940.
- In 1999 McNamee Porter, & Seeley, Inc., (MPS) conducted a study of Sand Lake and the lake level control structure. The study identified that the existing weir in place was not at the legal court ordered level, and MPS recommended amending the legal level of Sand Lake to the existing weir elevation of 968.51. The change in the lake level would not change the physical level of lake but would provide the Lenawee County Drain Commission the ability to maintain it at a level to prevent the flooding of property.
- On April 2, 2002 Circuit Court by order amended the legal lake level to 968.51 from 969.46. On June 4, 2002 Circuit Court confirmed the special assessment district for Sand Lake.

Sand Lake Level History (Cont.)

- A cleaning and inspection was performed in September 2002. The inspection consisted of televising the culvert for its internal condition. Several areas of concern were found with the condition of the culvert. The culvert was slip lined in December 2002. The project involved adding an additional manhole structure for future maintenance cleaning and inspection.
- In 2007 an Agri-Drain water control structure was installed to replace the existing weir and wing walls on the north side of US-12. The wing walls and weir were in deteriorating condition from age and were in need of replacement.

P.A. 451 of 1994 - Part 307

Inland Lake Levels

- Petition
- Retain Engineer
- Surveys & data
- Circuit Court Hearing
- Assessment Roll
- Hold Hearing on Roll
- Final Engineering Plans
- Acquire Permits
- Day of Review
- Finance & Construct Project
- Maintain Court Ordered Lake Level
- Inspection Report Every 3 Years – P.E.
- May spend up to \$10,000.00 per year for maintenance

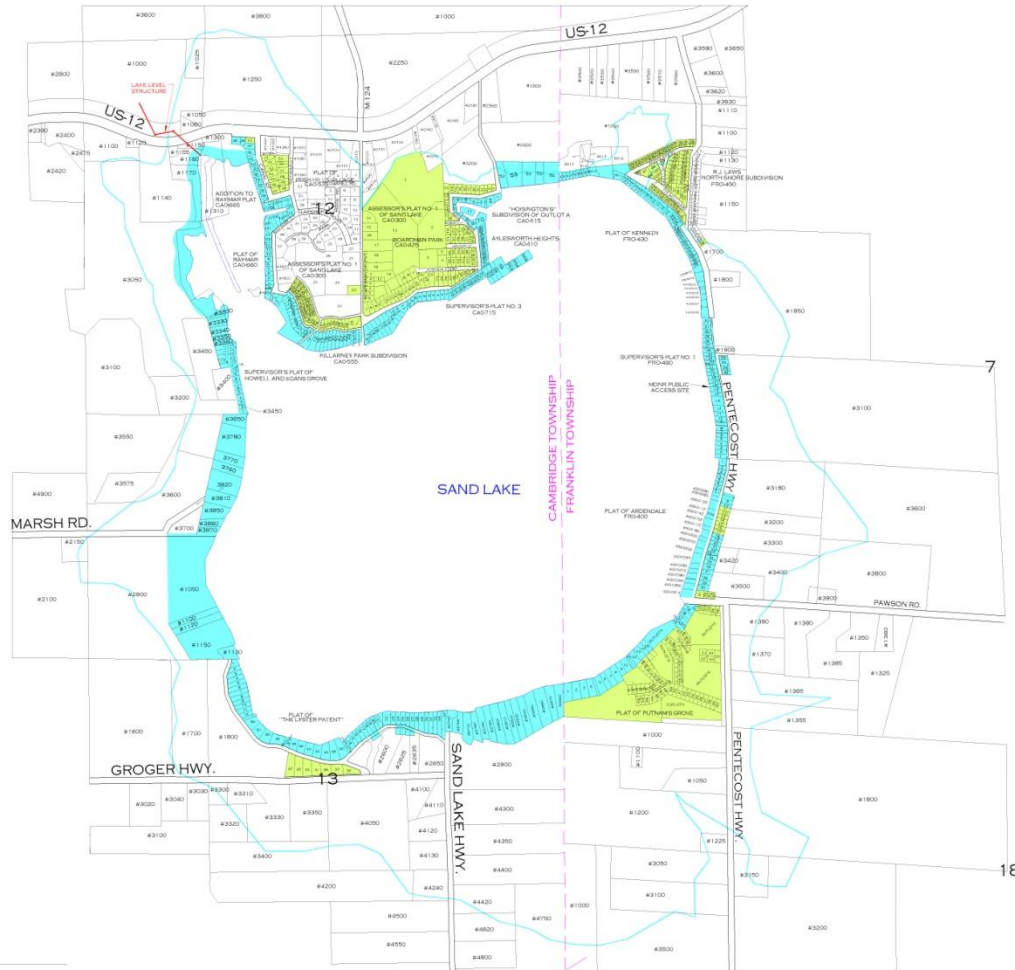
Sand Lake Level **Operations**

- Minimum once a month inspection.
- Observation of conditions and measurement of level taken.
- Record keeping of measurements, pictures, level log, post on web site.
- Perform maintenance as required.
- Tri-annual inspection report to the MDEQ by a professional engineer.
- Preparation of assessment for costs incurred.
- Answer inquiries received on the lake level.

Sand Lake Level **Assessment District**

- On June 4, 2002 Circuit Court established the special assessment district for maintaining the Sand Lake lake level.
- Last Assessment in 2015 for \$10,000.00.
- Assessment District contains 391 parcels and the Michigan Department of Transportation (MDOT).
- Assessment of parcels is based on the parcel frontage on the lake or if a parcel has access. MDOT assessment based on benefits to US-12.

Assessment District Map



LEGEND

- LAKE FRONT ACCESS
- LAKE ACCESS
- DRAINAGE DISTRICT



Lenawee County
 Drain Commissioners Office
 Drain Commissioner: *Deborah L. Escott*
 200 Springfield Drive, Milan, Michigan 48851
 Tel: (517) 264-6098 Fax: (517) 264-4788



0 600
 1 inch = 600 feet

DRAFTING BY: EGS
 REVIEWED BY:
 DATE: 8 / 3 / 2001

REVISIONS
 DATE: BY:
 1 / 24 / 2002 EGS

SAND LAKE
 LAKE LEVEL
 CAMBRIDGE & FRANKLIN
 TOWNSHIPS

DRAINAGE
 DISTRICT MAP

Sand Lake Control Structure

Agri Drain CORPORATION **Inline Water Level Control Structure™**

- Rugged 1/2" PVC structure.
- Heavy Steel lockable top.
- Stainless steel screws and custom anodized aluminum corner extrusions are used for strength and durability.
- 5" & 7" stoplogs for adjustability.
- Flexible couplers allow PVC, plastic pipe, or other materials to be easily attached. *(Please specify type of pipe when ordering)*
- 5-Year Warranty on all parts
- Please allow up to 2 weeks for shipment.

Flexible rubber connectors with heavy duty stainless steel clamps.



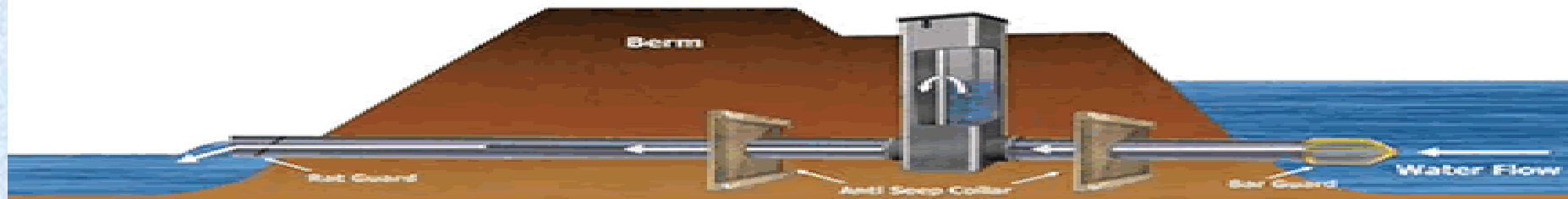
Rubber seal assures a tight fit to prevent leakage.



5" x 7" stoplogs for adjustability. Durable stainless steel lifting hooks.



TYPICAL INSTALLATION Inline Water Level Control Structure



**Call for a FREE informational packet or a
*FREE "How to Build a Wetland Video".
* While supplies last!**

Comments/Questions?

- <http://www.lenawee.mi.us/447/Drain-Commissioners-Office>
- <http://www.lenawee.mi.us/485/Lake-Levels>