



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

October 4, 2013

Mr. Donald King, President
Indian Lake Improvement Association
162 Lakeview Drive
Oxford, Michigan 48370

Dear Mr. King:

SUBJECT: Michigan Department of Environmental Quality (MDEQ)
Permit Number 13-63-0190-P
T5N, R11E, Section 31, Addison Township, Oakland County

We received a request from your agent dated September 5, 2013, requesting a minor revision for work authorized by MDEQ Permit No. 13-63-0190-P.

This letter authorizes revision of MDEQ Permit No. 13-63-0190-P to drawdown the impoundment formed by the Indian Lake Dam, Dam ID No. 687, on an unnamed tributary to the West Branch of the Stony Creek in Oakland County, a maximum of 1.9 vertical feet from its normal pool elevation. Work to be done under authority of this revision letter is further subject to the following special instructions and specifications:

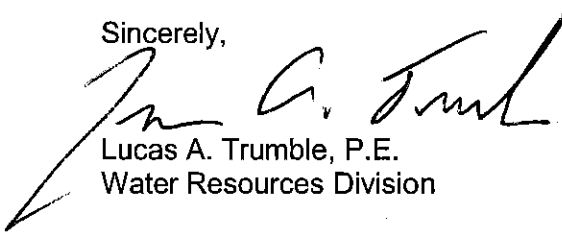
1. Drawdown of the impoundment shall not exceed 0.5 vertical feet of elevation in a 24-hour period.
2. Refilling of the impoundment shall not exceed 0.5 vertical feet of elevation in a 24-hour period. The stream flow shall not be completely shut off to allow flooding of the impoundment. A minimum amount of stream flow shall be provided to the stream downstream from the dam. Flooding of the impoundment shall not occur during periods of below normal stream flow.
3. Refill must begin when inspection or repair is complete. The total time period from initiation of drawdown to completion of refilling of the impoundment shall not exceed 90 days.
4. The permittee shall provide passage of flow during and after construction. During periods of low stream flow, the permittee shall provide a minimum flow release approximately equivalent to the stream flow into the impoundment.
5. The drawdown and refill shall not negatively impact the downstream receiving water, habitat, or structures.

You are reminded that all conditions set forth in the original permit remain in full force. This letter must be attached to your permit, kept at the work site, and be available for inspection at all times during the duration of the project or until the date of expiration. This revision does not obviate the need for other federal, state, and/or local permits as may be required by law.

Permit No. 13-63-0190-P
Indian Lake Dam
October 4, 2013, Revision

If you have any questions regarding this letter, please contact me at 517-284-5581; trumblel@michigan.gov; or MDEQ, Water Resources Division, Hydrologic Studies and Dam Safety Unit, 525 West Allegan Street, Lansing, Michigan 48933. Please include your Permit No. 13-63-0190-P in your response.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas A. Trumble". The signature is written in a cursive style with a large, sweeping initial "L".

Lucas A. Trumble, P.E.
Water Resources Division

lat/sea

cc: Mr. Russell Beaubien, Spicer Group (electronic)
Addison Township Clerk (electronic)
Oakland County Drain Commissioner (electronic)
Oakland CEA (electronic)

**15 Stream, River, or Drain Construction, Relocation and Enclosure Activities**

- Complete Section 10C for riprap activities.
- If side casting or other proposed activities will impact wetlands or floodplains, complete Sections 12 and 13, respectively.
 - Provide a scaled overall site plan showing existing lakes, streams, wetlands, and other water features; existing structures; and the location of all proposed structures and land change activities.
 - Provide scaled cross-section (elevation) drawings necessary to clearly show existing and proposed conditions.
 - For activities on legally established county drains, provide original design and proposed dimensions and elevations.

Stream Information	Water elevation (ft) datum <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> IGLD 85 (Great Lakes coastal areas) <input type="checkbox"/> other ➤ Show elevation on plans with description.		
	Dimensions (ft) of existing stream/drain channel (ft)	length	width depth
	Existing channel average water depth in a normal year (ft)		
Proposed Activity <input type="checkbox"/> enclosure <input type="checkbox"/> improvement <input type="checkbox"/> maintenance <input type="checkbox"/> new drain <input type="checkbox"/> relocation <input type="checkbox"/> wetlands <input type="checkbox"/> other			
If an enclosed structure is proposed, check material type <input type="checkbox"/> concrete <input type="checkbox"/> corrugated metal <input type="checkbox"/> plastic <input type="checkbox"/> other			
Dimensions (ft) of the structure: diameter length		Volume of fill (cu yds)	
Will old/enclosed stream channel be backfilled to top of bank grade? <input type="checkbox"/> No <input type="checkbox"/> Yes			
Length of channel to be abandoned (ft)		Volume of fill (cu yds)	
Dimensions (ft) of improved, maintained, new, relocated or wetland stream/drain channel. length width depth		Volume of dredges/excavation (cu yds)	
How will slopes and bottom be stabilized?		Proposed side slopes (vertical / horizontal)	
Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site For disposal, provide a ➤ Detailed spoils disposal area location map and site plan with property lines. ➤ Letter of authorization from property owner of spoils disposal site, if disposed off-site.		

16 Drawdown of an Impoundment

- If wetlands will be impacted, complete Section 12.

Type of drawdown <input type="checkbox"/> over winter <input checked="" type="checkbox"/> temporary <input checked="" type="checkbox"/> one-time event <input type="checkbox"/> annual event <input type="checkbox"/> permanent (dam removal) <input type="checkbox"/> other		
Reason for drawdown <i>View structural concrete components that are under water to assess structural condition better</i>		
Has there been a previous drawdown? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, provide date (M/D/Y)		Previous DEQ permit number, if known
Does waterbody have established legal lake level? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Not Sure		Dam ID Number, if known 687
Extent of vertical drawdown (ft) 1.9 ft	Impoundment design head (ft) 16	Number of adjoining or impacted property owners ~65
Date drawdown would start (M/D/Y) 10/19/2013	Date drawdown would stop (M/D/Y) 11/12/2013	Rate of drawdown (ft/day) 0.0833
Date refilling would start (M/D/Y) 12/02/2013	Date refill would end (M/D/Y) 1/15/2014	Rate of refill (ft/day) ~0.0625
Type of outlet discharge structure to be used <input checked="" type="checkbox"/> surface <input type="checkbox"/> bottom <input type="checkbox"/> mid-depth	Impoundment area at normal water level (acres) 58	Sediment depth behind impoundment discharge structure (ft) ~4 ft