Hide-A-Way Hills Club LOFS Dam Remediation Briefing

August 9, 2014

Cake of Four Seasons -- Autumn 2011

Lake of Four Seasons -- Hills, Ohio

Hide-A-Way Hills,

Management Committee

- Jim Krygier (Chair)
- Rich Rudawsky
- Todd Kaho
- Kevin McLain
- Paul Heimberger

- Each member serves a 3 year term
- Public Meetings 2nd & 4th Tuesdays @ 7PM

HIDE-A-WAY HILLS RESORT RR#1 BREMEN, OHIO

Volume II

Issue 18

July 1, 1965

Fabulous "Lake of Four Seasons" Dam, Underway.





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Watch the "Echa" for-progress reports ./









CONCEPTUAL

Lake of Four Seasons CONCEPTUAL PLAN, July 2, 2014









LOFS DAM FACTS

- Earthen Dam
- 1,100 Linear Feet Long
- 48.5 Feet in Height
- Principal Spillway Gate Valve
- Normal Pool is 815.5 feet above Sea Level
- Dam Crest is 823 feet above Sea Level
- Upstream (Lake) Slope is 3:1
- Downstream (Security) Slope is 5:1

LOFS Dam History

- 1965 Construction
- 1966 Dam Erosion Remediation
- 1993 Dam Maintenance Projects: Install Rip Rap, Repair Outlet Basin, Re-seal Emergency Spillway
- 2013 Observe Dam Slippage
- 2014 Repair LOFS Dam

2013-14 LOFS Timeline

- October 2013 Observe Horizontal Crack (Slip) on LOFS, Notify ODNR
- October 24 Inspection with 2LMN, ODNR, HAH Staff
- November 2013 Inject Calcium Bentonite into Slips, Maintain LOFS 5 feet below Normal Pool per ODNR Directive
- December 2013 2LMN Diagnostic Trench

<u> 2014 LOFS Timeline – 2</u>

- January 2014 Approve Contract Proposal from 2LMN to Analyze Diagnostic Trench
- February 2014 Approve Contract with 2LMN w/ DLZ as Subcontractor for Amount of \$43,562 for 5 Test Borings and Remediation Analysis
- Maintain LOFS at 5 feet below Normal Pool (Elevation 815 feet above Sea Level)

<u> 2014 LOFS Timeline - 3</u>

- March 1-4 5 Borings performed by DLZ Depth 30-40 feet
- March 18 Trenches (2LMN) Excavated and Analyzed
- April 11 Received Preliminary Report from DLZ indicating Concern with Global Stability
- April 29 Receive 2LMN Proposal for Hydraulic & Hydrologic report \$9,600; Inundation Analysis \$4,200 – Both Required by ODNR
- May 23 Authorize Sonar Survey LOFS Dam Canter Surveying \$2,500

2014 LOFS Timeline - 4

- May 8 Receive Request Letter from ODNR requiring Dam Monitoring
- May 13 DLZ Proposal for Barge Boring \$113,008
- May 27 Receive DLZ Draft Analysis; Conclusion More Diagnostic Activity REQUIRED
- June 6 Meeting with HAH, 2LMN, DLZ to confer on Alternative Conceptual Approach
- June 27 DLZ Proposal Phase 2 Step 1 \$71,709

<u> 2014 LOFS Timeline – 5</u>

- July 1 Dam Inspection by Terracon (new geotech consultant)
- July 3 ODNR Project Deadlines letter
- July 8 Receive 1st Terracon Proposal \$51,791
- August 1 Receive Joint 2LMN and Terracon (as subcontractor) Proposal - \$106,700
- August 5 Board Approves Contract
- August 12 Test Borings Resume; Install Inclinometers

NEXT STEPS

- Await Boring Results
- Analyze Funding Alternatives
- Report to Members