

Agenda
Village of Glen Ellyn
Village Board Workshop
Monday, April 23, 2012
7:00 P.M. – Galligan Board Room
Glen Ellyn Civic Center

1. Call to Order

2. Hydrological and Hydraulic Study for Lake Ellyn Presentation - Public Works Director Hansen

3. Other items?

4. Adjournment

MEMORANDUM

TO: Julius Hansen, Public Works Director

FROM: Bob Minix, Professional Engineer 

DATE: April 18, 2012

SUBJECT: Hydrologic and Hydraulic Study for Lake Ellyn
Transmittal of Project Report and Consultant Presentation to
Village Board on April 23, 2012



Lake Ellyn is a key component of the stormwater management system on the north side of the Village. The lake (formed by an earthen dam on the north side of the facility) is designed to receive and store runoff from about a one square mile section of the Village, normally discharging at a controlled rate into underground pipes that convey the water to Perry's Pond and ultimately to the East Branch of the DuPage River. The dam and lake outlet structure are designed to accommodate runoff from the 100-year design storm.

In September 2008 and July 2010, heavy rainfalls in the Glen Ellyn area resulted in overflows from Lake Ellyn and flooding problems at downstream locations on the east side of Riford between Oak and Chidester. In August 2011, the Village Board authorized RHMG Engineers of Mundelein to conduct a series of hydrologic and hydraulic studies to assess current conditions and make recommendations to minimize the frequency and impacts of Lake Ellyn overflows. The project is a cooperative venture with the Glen Ellyn Park District, the owner of Lake Ellyn and the surrounding park land.

Enclosed is a copy of the project report. The report has gone through two drafts, with reviews provided by both the Village and Park District staffs, and is now in final form.

The report addresses a number of items and issues and provides detailed information on Lake Ellyn inflows, operations and overflows in the attempt to answer questions such as:

- What is the Lake Ellyn stormwater management system? What are the system components and capacities? How does the system operate? What can change in the future, either physically or operationally? Who can make these changes?
- What has changed over the years to cause Lake Ellyn to overflow twice since 2008? How much have things changed?
- What can (or can't) be done to improve the performance of the Lake Ellyn drainage system? What are the downsides to implementing changes, if any, on upstream, lake or downstream areas? Can the lake be manipulated in advance of a storm to improve performance?
- What can be done in downstream areas to protect them if Lake Ellyn overflows again?

On April 23, 2012 at the Village Board workshop, the project principal (Bill Rickert) and project engineer (Ben Metzler) from RHMG will present a summary of the report to the Village Board and be available to answer questions pertaining to the study.

The report is also being transmitted today to nine residents living downstream of Lake Ellyn that potentially may be impacted by lake overflows. These residents are also being invited to the April 23, 2012 Village Board workshop and, in addition, to a pre-workshop meeting with the project team to provide an additional opportunity to discuss the report and ask questions. Please note the attached letter to the residents.

The Park District will be receiving 10 copies of the report as well on April 19.

We look forward to presenting the report and discussing the report recommendations with the Village Board.

cc: Mark Franz, Village Manager
Kristen Schrader, Assistant to the Village Manager, Administration
Dave Harris, Executive Director, Glen Ellyn Park District (w/ report)
Bill Rickert, RHMG Engineers

April 17, 2012



**LAKE ELLYN DRAINAGE STUDY
PROJECT REPORT TRANSMITTAL AND
INVITATION TO APRIL 23, 2012 VILLAGE BOARD WORKSHOP**

Dear Resident:

Your residence has been identified as a property that potentially may be impacted by overflows from Lake Ellyn. In conjunction with the Glen Ellyn Park District, the Village authorized the consulting firm of RHMG Engineers of Mundelein to perform a study to assess current conditions and make recommendations regarding lake operations and potentially other measures to mitigate the impacts of lake overflows.

Lake Ellyn is a key component of the stormwater management system on the north side of the Village. The lake (formed by an earthen dam on the north side of the facility) is designed to receive and store runoff from about a one square mile section of the Village, normally discharging at a controlled rate into underground pipes that convey the water to Perry's Pond and ultimately to the East Branch of the DuPage River. The dam and lake outlet control structure (OCS) are designed to accommodate runoff from the 100-year design storm.

The scope of **Lake Ellyn Hydrologic and Hydraulic Study** includes analysis and assessments of the Lake Ellyn drainage area, Lake Ellyn itself, and downstream overflow routes. The project is now reaching its final stages and a report (copy enclosed) has been prepared to summarize the study activities and recommendations.

In addition to preparation of the report, the consultant will be making presentations to both the Village and Park District Boards. You are invited to attend the Village Board workshop on Monday, April 23, 2012 to hear the consultant's presentation. The workshop will take place in the third floor Galligan Board Room beginning at 7:00 PM. In addition, a pre-workshop meeting with you, Village staff and the consultant will be conducted that same evening – Monday, April 23 – in Room 301 of the Civic Center (east end of the third floor) starting at 6:00 PM. The purpose of the pre-workshop meeting is to provide a more informal opportunity to discuss the report and ask questions in advance of the Board workshop.

While technical in nature, the report is a readable document that provides important background and information that are reflected in the project summary section. Please take the time to look over the report and to attend both the pre-workshop and Village Board workshop sessions on April 23.

If you have any questions in advance of April 23, please contact me at 630-547-5514 or bobm@glenellyn.org.

Very truly yours,

A handwritten signature in cursive script that reads "Bob Minix".

Bob Minix
Professional Engineer
Glen Ellyn Public Works Department