

# LBWID Operations Director Report

(Jan '09 – Feb '09)

## Engineering/Projects

### ***Six year recertification Inspection (dam) (update)***

- Due to Tropical Storm Hanna, the inspection was delayed from the week of September 8<sup>th</sup> to the week of September 15<sup>th</sup>.
- A team of engineers from WR&A inspected the three primary aspects of the dam.
  - Structural
  - Mechanical
  - Operations
- Overall the inspection went well.
  - The LBWID will have to realign the time frame of some of the projects projected in the dam renovation plan to address some of the concerns that WR&A has brought to our attention.
- WR&A has since assembled a Six Year Recertification Inspection Report that will be submitted to Virginia's Division of Dam Safety as a part of the 6 Year Recertification Application for the dam.
  - The recertification application will be submitted in late December 2008.
- There has been a delay in submitting the recertification application because the LBWID is still in the process of working with Fairfax County and the City of Alexandria to develop an Emergency Action Plan that is mutually acceptable by all parties.
  - The LBWID is now anticipating submitting the recertification application by February 9, 2009, with the expectation of receiving the 6 Year Recertification certificate in March of 2009.
  - Please see "Operations" section below for more information on the Emergency Action Plan.

### ***New davits for the scaffolding system (dam) (update)***

- LBWID has contracted Sky-Rider Equipment Company to manufacture 4 new davits for the LBWID's scaffolding unit.
- The cost of the davits will be \$15,500.00 and they should be delivered by early January 2009.
- The new davits have been fabricated and delivered to LBWID.
  - These davits will be used this upcoming spring for some light maintenance that is needed on the dry side of the dam.
  - The LBWID Staff is very happy to have these new davits, they are expected to make the set up and deployment for the LBWID's suspended scaffolding unit safer and more efficient.

## **Concrete restoration for the dam (dam) (new)**

- As a part of the 10 Year Dam Renovation Plan the LBWID will soon be starting the project of resurfacing the concrete abutments at each end of the dam (specifically the dry side of the dam). There is approximately a six inch thick layer of delaminating concrete that will have to be removed and replaced.
  - This project is expected to take place over two fiscal years, FY-2010 and FY-2011
- In May of 2006 WR&A , with assistance from Mactec Inc., completed and in-depth inspection on the existing condition of the concrete layer and presented the following repair options:
  - Remove existing layer and replace with shotcrete
  - Remove existing layer and pour cast-in-place concrete
  - Remove only the worst of the existing layer and encapsulate with new concrete layer with the cast-in-place method
- Now that the LBWID has raised sufficient funds for this project we are going to approach the project in the following manor:
  - Reevaluate the 2006 repair options presented by WR&A
  - Determine if there are alternative repair options that have not been considered
  - Make a decision on what repair method has the most long term value
  - Have WR&A develop the design drawings and specifications for the project
  - Develop the bid documents
  - Advertise the project for bid
  - Evaluate submitted bids
- The anticipated start time for this project is May of 2009
  - This is when we will start reevaluating the repair options presented by WR&A in 2006
- In an effort to minimize the out sourced consulting cost for this project, the LBWID would like to invite any LBWID Associated that has skills and or knowledge that can be applied to the various tasks listed above to help with the development and management of this project.
- If you are interested in assisting the LBWID with this project please contact Davis Grant (LBWID Operations Director) or one of the LBWID Trustees.

## **Operations**

### **Emergency Action Plan for the Dam**

- The LBWID staff and trustees have been working to update and improve the Emergency Action Plan (EAP) for the Dam.
  - The updated EAP is required by Virginia's Division of Dam Safety and will have to be submitted to Virginia's Division of Dam Safety as a part of the 6 Year Recertification Application for the dam.
- LBWID is working with Fairfax County and City of Alexandria officials to develop the EAP.

### ***LBWID In-house Dredging Program and Equipment (new)***

- As presented at the December 2008 LBWID Quarterly Meeting, the LBWID has decided to expand its in-house dredging capability with the intent of no longer hiring contract dredgers and thus the LBWID has purchased some used intermediate sized dredging equipment.
  - The equipment that was purchased will be refurbished to like-new condition over this winter and early spring.
  - The refurbishing process is going well and, at this point, is on schedule and on budget.
    - All of the replacement parts have been ordered and most of them have been delivered.
- In addition to refurbishing the dredging equipment, the LBWID also proposed to make modifications to the Beach 3 seawall area to allow for more efficient off-loading of the hopper barge that will be used to transport the sediment to shore.
  - The LBWID presented the proposed modifications to the LBA Board in January and received their approval to proceed with the modifications.
    - The LBA did however want clarification on how the LBWID was going to address the safety on the lake, specifically in the area of Beach 3 and Beach 5 when it is being used for off-loading the hopper barge. The LBWID submitted the following statement in writing to the LBA:
      - “While WID has the flexibility to dredge any time the need arises, operations will normally only be conducted in a two to four week period in the early Spring (March and April) and a six to eight week period in the late Fall (October and November). That way there will be minimal disruption to community recreational activity both on the water and at the beaches. Additionally, WID will develop procedures that will ensure operations are conducted in a safe manner. These procedures may include erecting temporary fencing at Beaches 3 and 5, as well as placing marker buoys to prohibit boats from entering areas where dredging is taking place.”
- The LBWID will also be hiring one additional full time staff member to assist with the expanded in-house dredging program.
  - This position/person will fill the place of the 2 summer interns that that LBWID has been employing for the last 5 years.
  - The LBWID will start interviewing potential candidates for this position in early March.

### ***Smoke detectors to be installed in LBWID buildings (new)***

- The LBWID has asked Stanley Security (the LBWID’s security system contractor) to submit a proposal for installing smoke detectors in all LBWID buildings.
  - The smoke detectors will be monitored by Stanley Security’s 24 hour monitoring service.
- Currently only the dam house building has a smoke detector.

- All together, the LBWID needs to have 16 smoke detectors installed to give proper coverage of the buildings and the various rooms inside of them.
- The LBWID is expecting the total cost of this project to be between \$2,000.00 and \$3,000.00
  - In addition, there will most likely be a small increase in the monthly monitoring cost.

### ***LBWID Annual Calendar of Events (update)***

- The LBWID staff has been working to develop an Annual Calendar of Events that will list out what the LBWID needs to do on an annual basis. The following list is an example of the type of things on the calendar.
  - Meetings
    - LBWID
    - LBA
    - NVS&WCD
  - Equipment maintenance
  - Budget dead lines
  - Special events
  - Lake maintenance
  - Beach openings and closing
  - Staff training sessions
  - ETC.
- Once the calendar has been completed it will be bound and submitted to the following:
  - LBWID Staff
  - LBWID Trustees
  - LBA Manager
- **The 2009 LBWID Annual Calendar of Events has been completed and distributed.**

Respectfully,  
Davis Grant  
LBWID Operations Director