



# Coventry Lake



## Lake Dam and Weir

- Weir spillway at 93.0, summer level



# Sluiceway



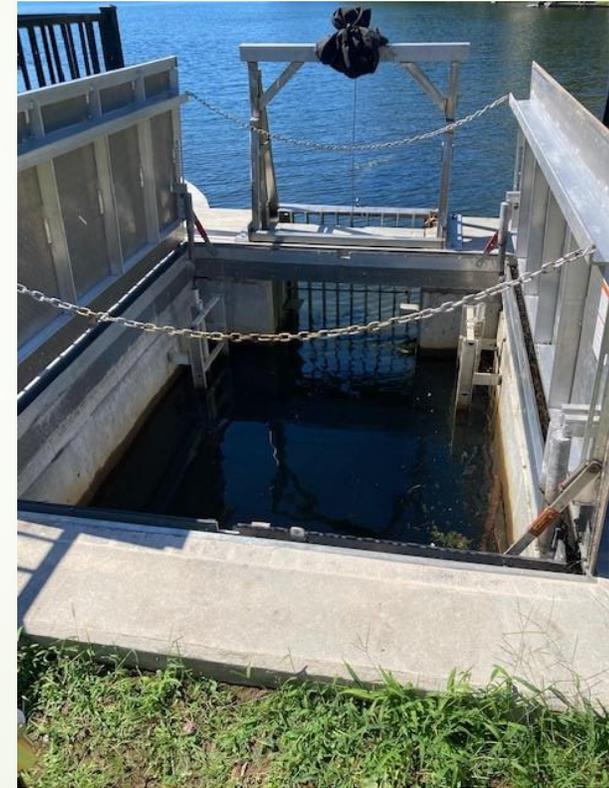
# Front Trash Rack



# Rear Trash Rack



# Sluice Gate Access Hatch



# Sluice Gate Adjustment



# Lake Level's

- Summer Level
  - 93.0 + or - .5
  - 92.5-93.5
- Winter Level
  - 91.5 + or - .5
  - 91.0-92.0



# Lake Level Monitoring

- Spring
  - Start raising level end of March
  - Target summer level by middle to end of April 93.0
  - Check level at least 2 times per week
- Summer
  - Check level weekly
  - Increase frequency based on amount of rain
  - Monitor weather forecast for large rain events when level reaches 93.3
  - Open Sluice Gate when level goes above 93.35 and when large rain event's are predicted

|           |            |   |
|-----------|------------|---|
| 6/5/2023  | 93.35      |   |
| 6/8/2023  | 93.3       |   |
| 6/13/2023 | 93.25      |   |
| 6/16/2023 | 93.2       | 3 inch rain event predicted gate opened 1/2 |
| 6/23/2023 | 93         | Gate closed                                 |
| 6/27/2023 | 93.1       |   |
| 6/30/2023 | 93.15      |   |
| 7/2/2023  | heavy rain |   |
| 7/3/2023  | 93.50      | gate opened 2/3                             |
| 7/14/2023 | 92.9       |   |
| 7/16/2023 | 92.9       | heavy rain 3+ inches                        |
| 7/17/2023 | 92.9       |   |
| 7/19/2023 | 92.8       |   |
| 7/20/2023 | 92.7       |   |
| 7/21/2023 | 92.6       | gate closed                                 |
| 7/24/2023 | 92.7       |   |
| 7/31/2023 | 93.1       |   |
| 8/8/2023  | 93.25      |   |
| 8/10/2023 | 93.2       |   |
| 8/14/2023 | 93.25      |   |
| 8/16/2023 | 93.3       |   |
| 8/21/2023 | 93.4       |   |
| 8/22/2023 | 93.35      |   |
| 8/24/2023 | 93.25      |   |
| 8/29/2023 | 93.05      |   |
| 8/31/2023 | 93         | Gate closed                                 |
| 9/11/2023 | 93.05      |   |
| 9/13/2023 | 93.2       | heavy rain                                  |
| 9/14/2023 | 93.4       | gate opened 12.5 inches                     |

## Lake Level Monitoring

- Fall
  - Start lowering level mid October
  - Open Sluice gate 2/3
  - Target winter level mid November 91.5
  - Check level and gates daily Monday thru Friday
  - Clean trash rack as needed

Drill used for raising and lowering trash rack for cleaning



## Challenges

- Flash Rain events
- Debris and leaves clog trash rack
- Trash rack requires cleaning everyday in the fall during leaf season

Debris on  
trash rack



## Teleflex Fire Pond

- Located at 1295 Main St
- Pond feed from lake
- Town required to maintain water level in pond year round
- Pond used for Fire Suppression system
- Pond was dredged and dam repaired summer 2023 to increase capacity and fix leaks





# Questions

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