



AGENDA

- Welcome/Purpose – Mayor Brent Frazier
- Dam Repair Option - Studies - Don Solga, City Administrator
- Environmental Issues and River Restoration Options – Luther Aadland, DNR
- Q & A

PURPOSE/CONTENT

- Informational only – to aid in determining communities future for the Dam
- Discussion on Pelican Rapids Dam only
- Other meetings to follow

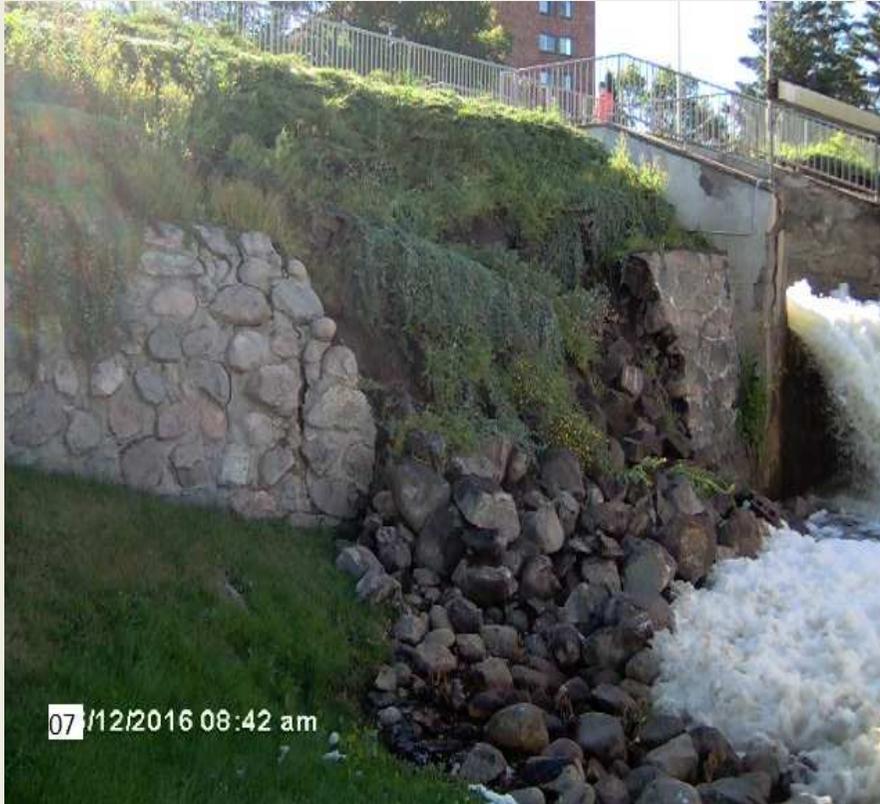
3 studies done on Dam

1st – Wall Study

2nd - Spillway Study

3rd - Powerhouse Study

DAM MASONRY WALL COLLAPSE



Cause – no systems to provide resistance to tension forces, nor provide drainage for water accumulation behind the wall. Appears wall was for aesthetic purposes only.

Repairs – 2 Alternatives

Alt #1-Gravity Block Wall

Alt #2 – Riprap Extension

Gravity Block Wall



Est Cost \$638,000

Rip Rap Extension



Est Cost \$429,500

Spillway



Normal wear and tear.
Concrete deterioration,
pitting & holes in structure

Est. Cost

Repair - \$214,240

Replace - \$364,867

Gates - \$20,000 - \$138,000



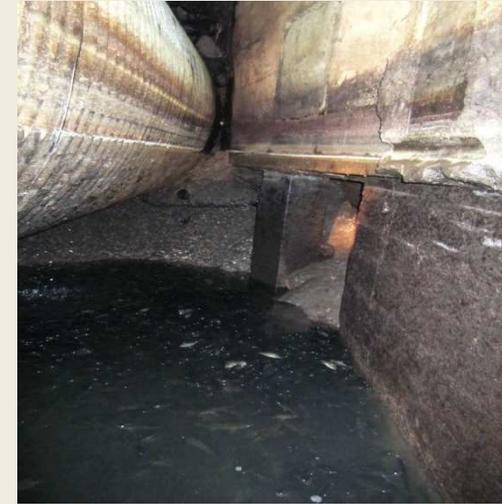
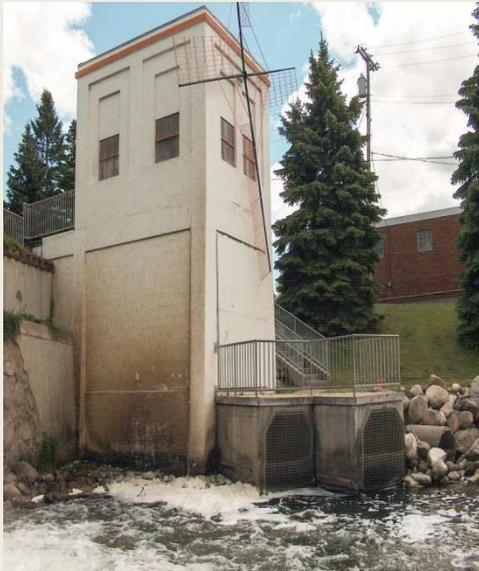
Options – Repair or Replace

Repair option– remove and replace N&S wingwalls, & 19 ft section, remainder of concrete repaired. Service life 20 years

Replace option – spillway structure completely removed and replaced. Service life 75 years.

Replace Gates – replace gate system.

Power House



Wash out of gravel and base beneath the culverts pipes. Undermining through side walls created sinkholes.

Repairs – fill voids at base and sidewalls with concrete. Fill sinkholes with gravel, etc

Est Cost - \$10,000 - \$15,000

SUMMARY

Engineers estimated costs based on recommended repairs

- Wall - \$429,500 - \$638,000
- Spillway - \$214,240 - \$364,876
- Gates - \$20,000 - \$138,000
- Power House - \$10,000 - \$15,000

EST TOTAL = \$673,240 – \$1,155,876

State Match Grant Funds - \$500,000 for **engineering activities for needed repairs.

Property Tax Impact – annual if \$1.2M, 20 bond

Taxable Market Value

		Increase in City Tax for Debt Service on Bonds
Payable by Residential Property		
Taxable Market Value of Property		
\$100,000		\$52
\$150,000		\$92
\$200,000		\$131
\$250,000		\$171
\$300,000		\$211
\$350,000		\$250
\$400,000		\$290
Payable by Commercial Property		
Taxable Market Value of Property		
\$200,000		\$236
\$500,000		\$672
\$1,000,000		\$1,399

City of Pelican Rapids

CELEBRATING 130 YEARS 1883-2013

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Emergency Notification Self-Registration - CODE RED

DAM STUDIES & INFO

Animal Control

City Water Utility Reports

City Parks ▶

Economic & Business Development

Swimming Pool Study and Information

City Projects Planned or Being Considered

DAM STUDIES & INFO

-  [Pelican Rapids Dam - Rock Masonry Wall Assessment Report 3-9-2017](#)
-  [Appendix D Rock Masonry Wall Plans](#)
-  [Spillway Report 10-31-17](#)
-  [Powerhouse Report Final 12-19-17](#)
-  [PelicanRapidsTalkJan2018DNR.pdf](#)
-  [Nov 27 2018 DNR Presentation to City Council](#)
-  [Nov 27 2018 Pelican Rapids Before/After Concept](#)
-  [2-20-2019 PR Dam Presentation @ LREC](#)

To see & read DAM Info.
Please let your elected officials know
your opinion.