Public meeting
Hollow Glen Dam

May 15 2013





Agenda

- Welcome
- Brief overwiew
- Where we are?
  - MRC's involvment
  - What does it mean?
  - Awarding of contract for studies
- Next steps
- Questions
- Conclusion

Welcome

Caryl Green, Mayor of Chelsea

Edmond Hétu, Ward Councillor

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Brief overwiew





Brief overwiew

Hollow Glen dam

- Built in 1960
- Dam made of compacted granular material
- Crest elevation 104.2 m
- Slopes varying from 30 to 45
- The ranking high (A) has been reviewed to medium (C)
- Safety factor varying from 1.79 (upstream) to 1.00-1.35 (downstream)
- Exfiltration on 1/3 of the length of the bottom
- No seismic risk
- Undetermined risk of soil liquefaction



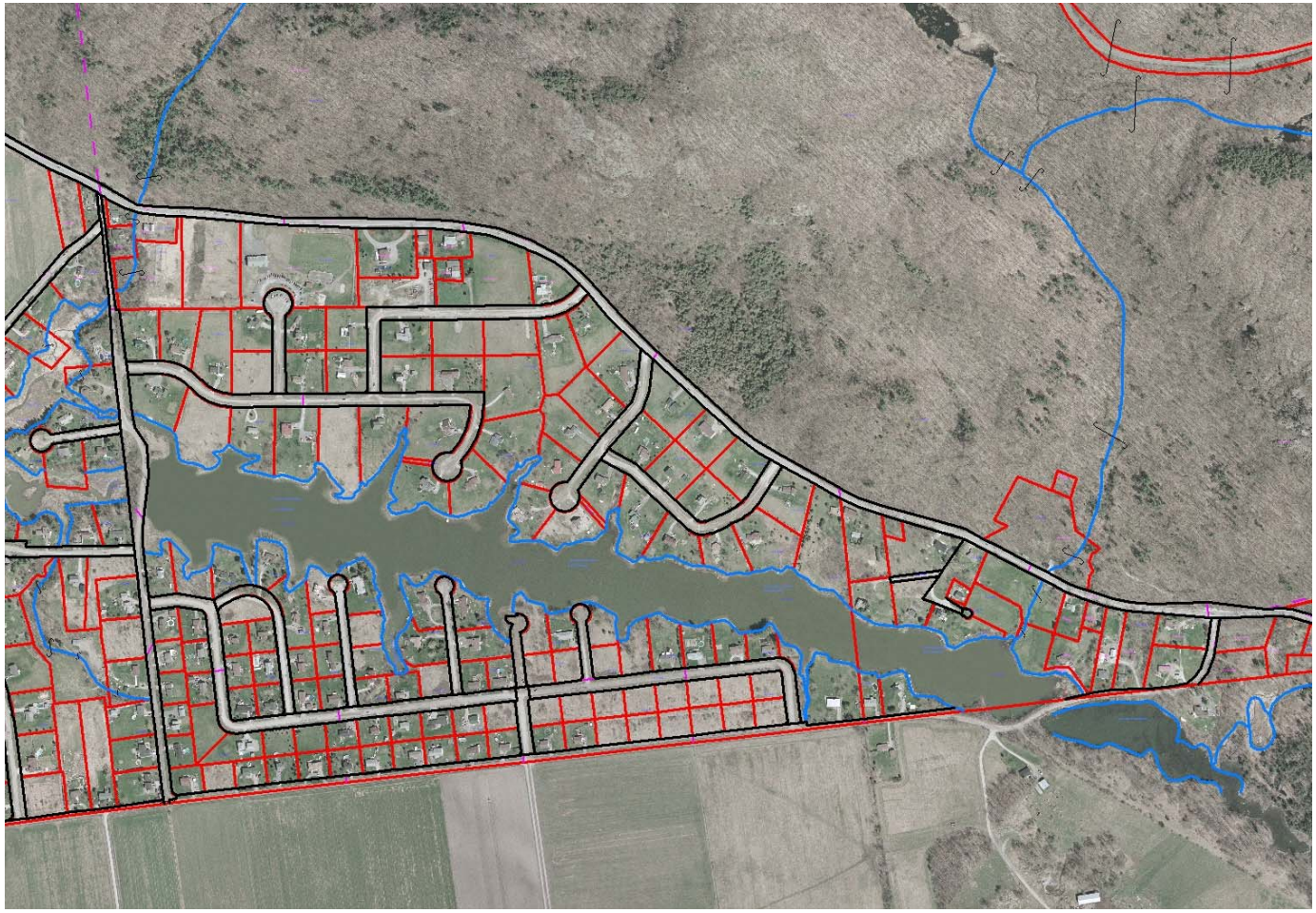


Brief overwiew

Beamish Dam

- Shutter dam built in 1949
- 2 massive concrete shoulders on either side
- One guide rail on each shoulder to receive the shutters
- Guide rails blocked to prevent enhancement
- Regulated by two galvanized corrugated steel pipes (GCIP) 1350mm
- Under Beamish road
- Separated by a concrete and granular block of approx. 1m
- Rutted and cracked in some areas
- No trash boom or grid

Map



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Where are we?





Where are we?

MRC's involvment

- Loi sur les compétences municipales; management of waterways
- February 2013: The Ministry of Municipal Affairs and of Territory Occupation (MAMROT) informed the Municipality that this is the MRC's responsability
- A first in Québec: Val-des-Monts and Chelsea
- Delegation of the management of the dam by the MRC to the Municipality: possible





Where are we?

What does it mean?

- Every official act (awarding of contracts, borrowing by-laws, etc.) must be performed by the MRC
- Inter-municipal agreement delegating the management of the dam has been signed
- The Municipality has some discretion in the management but the decisions are the responsability of the MRC
- The MRC borrows the funds for repairs and management of the dam
- The MRC will recover the costs through the assessment at the end of each year
- Municipal Council decides on the repartition of thoses costs at this particular moment
- Since the MRC will adopt the borrowing By-laws, the procedure of registration of qualified voters (register and referendum) cannot be applied





Where are we?

Preliminary engineering mandate

4 scenarios

- Return to the inital level (103.2m)
- Maintain the current level (102.1m)
- Lower by one meter (101.1m)
- Remove the dam

The Hollow Glen Road is at 104.2m





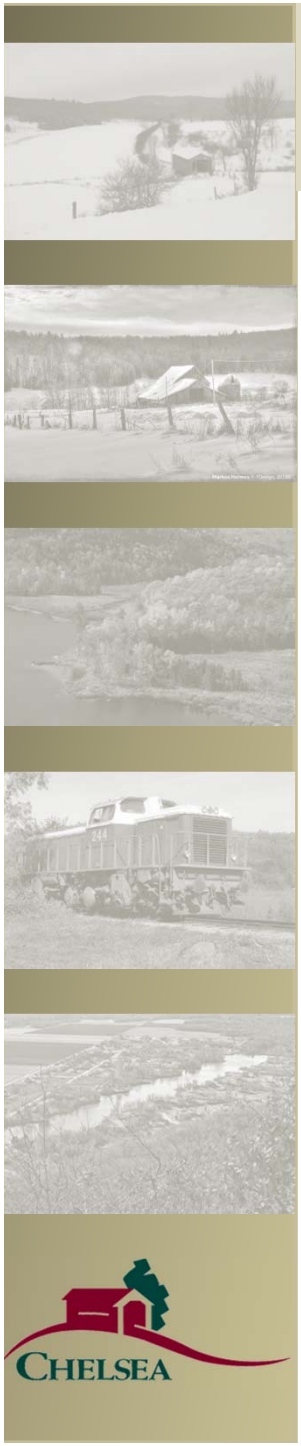
Where are we?

5 compagnies

• AECOM	2.406	573 617.17$
• BPR	5.415	267 759.53$
• GENIVAR	7.180	171 312.75$
• SM	8.060	172 463.00$
• CIMA	9.221	152 917.00$

- CIMA has been chosen

Next steps



Next steps

- Preliminary design and estimate of the four scenarios
- Study report to the Director General
- Final design of the chosen scenario
- Call for tenders
- Construction

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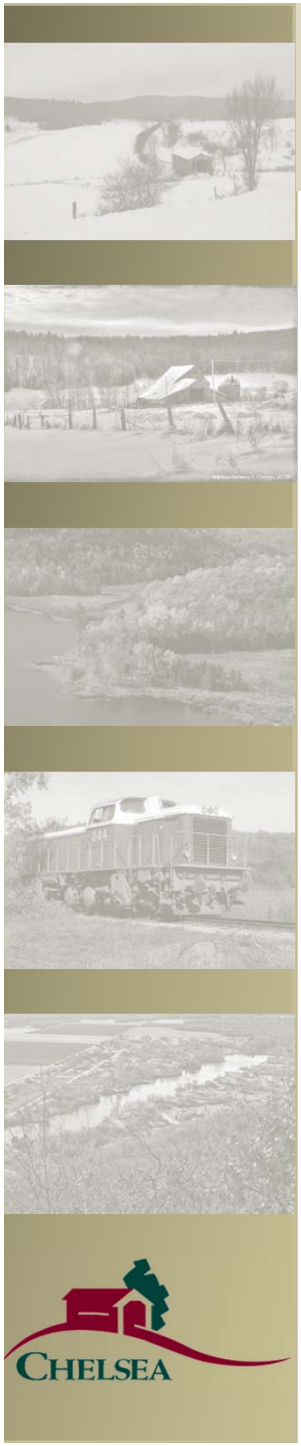

Schedule

Schedule according to CIMA

Awarding of the contract	April 24, 2013
Startup meeting	May 1, 2013
Elaboration of the 4 scenarios	May 2 – June 21, 2013
Presentation to Council	July 3, 2013
Tabling of engineering specifications	August 2, 2013
Preliminary drawing and specifications	Ocotber 25, 2013
Authorization requests	November 8, 2013
Drawing and specifications for RFP	March 3, 2014
Construction	2014





Participation of the Municipality

- Weekly site inspection
- Reading piezometers
- Water level monitoring
- Inspection of the culvert entrance
- Preventive deforestation of the crest
- Collaborate with CIMA if necessary

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Questions?

Conclusion