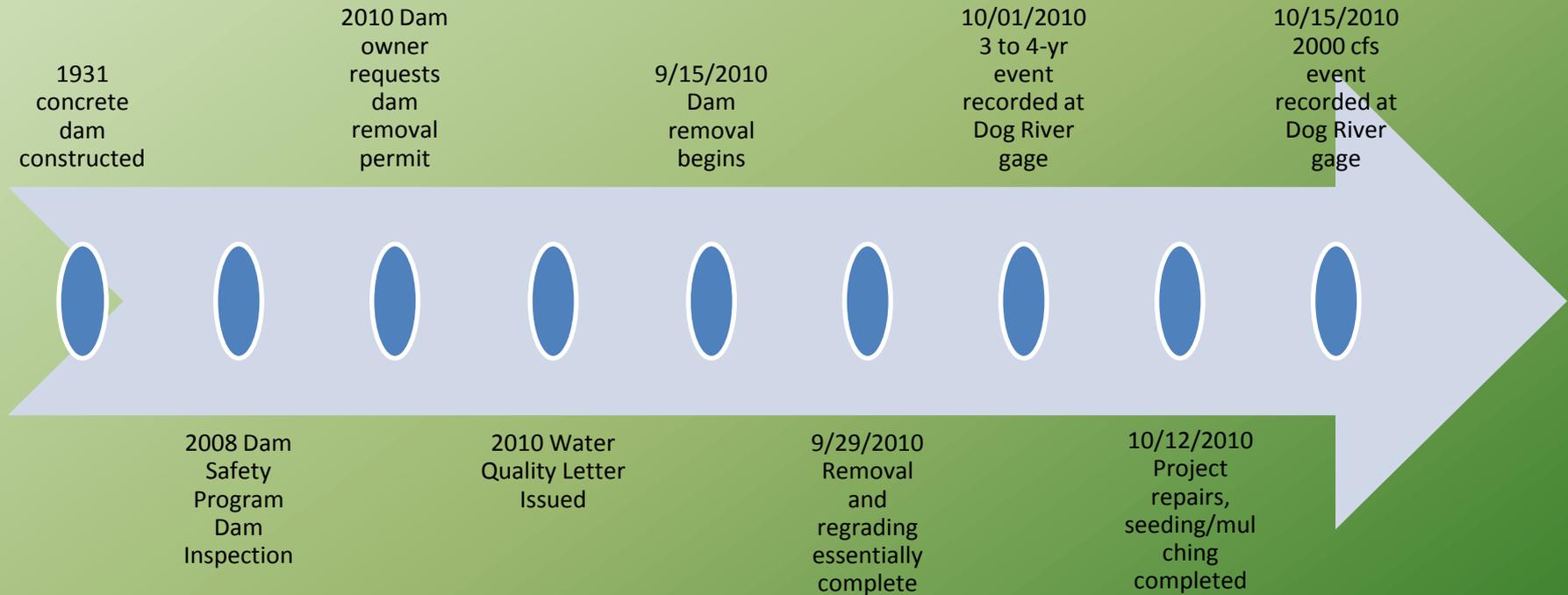


Union Brook Timeline



Regulatory Jurisdictions

- **Chapter 43 Dam Order:** <500,000 cubic feet of storage
- **Stream Alterations:** < 10 square mile D.A.
- **Water Quality Standards:** Water Quality Letter Issued
- **USACOE:** GP non-reporting

10/27/2008



Length: 145 ft.

Height: 18 ft.

Overall condition: Poor

- Severe concrete deterioration and loss of concrete.
- No operational valves or gates, making it difficult to impossible to lower the pond.





- **Drainage area:** 4.79 square miles.
- **Surface Area:** 1 acre.
- **Pond storage at crest:** 7 acre-feet.



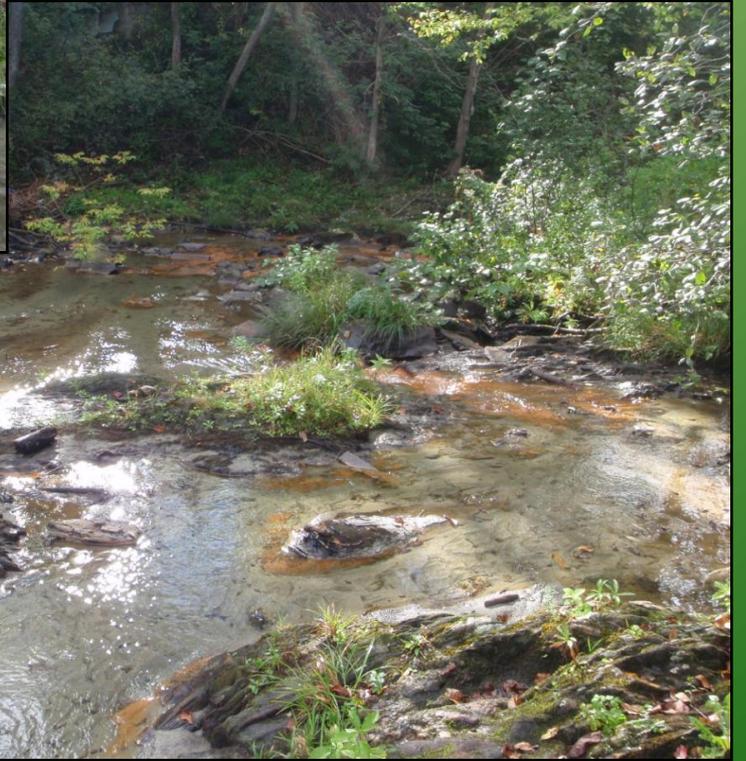


9/16/2010









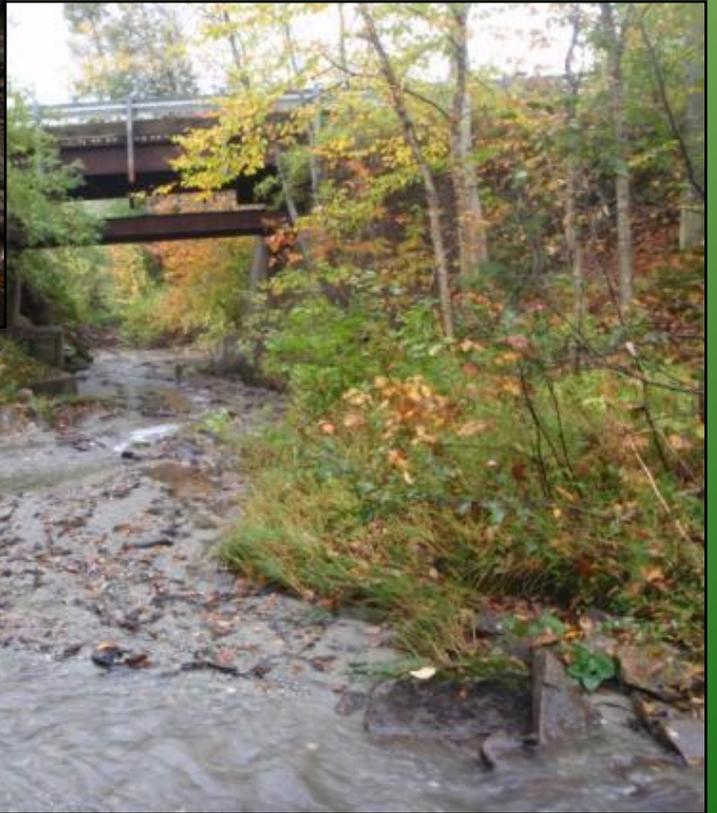
9/21/2010









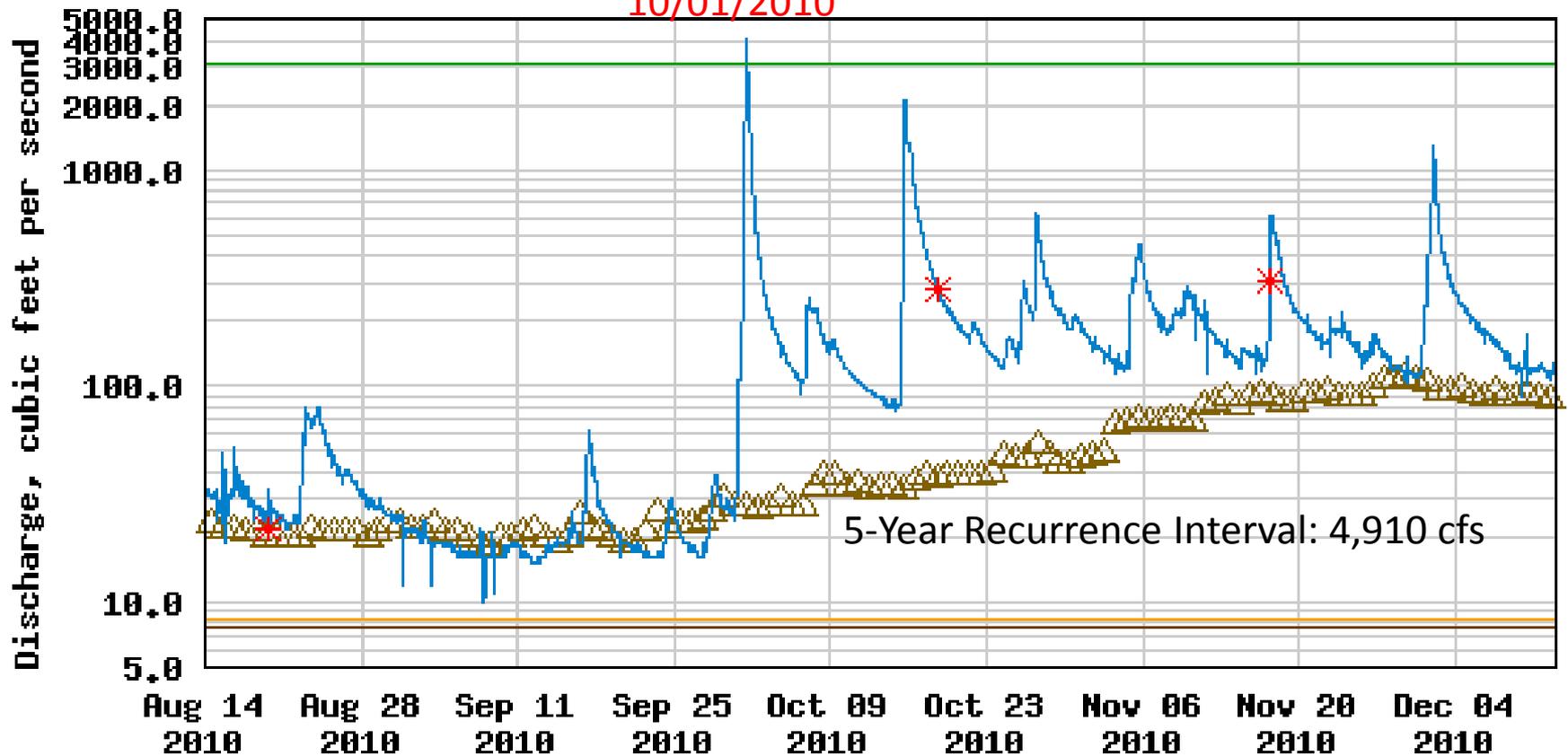


9/29/2010



USGS 04287000 DOG RIVER AT NORTHFIELD FALLS, VT

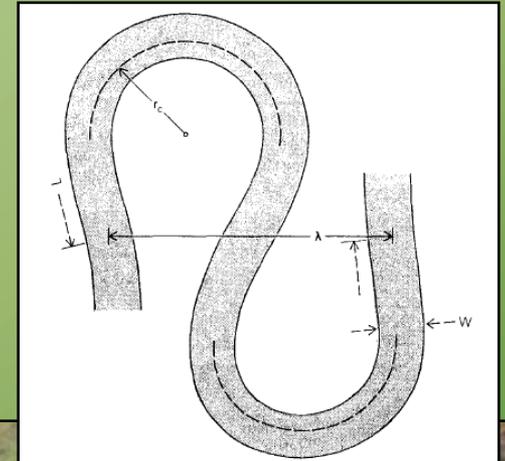
10/01/2010



---- Provisional Data Subject to Revision ----

- △ Median daily statistic (74 years)
- Discharge
- * Measured discharge
- 2-Year Recurrence Interval
- 99% Flow duration
- 7-day, 10-year low flow

10/05/2010



Sine generated curve has the least variation of curvature of all regular geometric curves, therefore requires least work in turning and is the most probable form of river meanders.



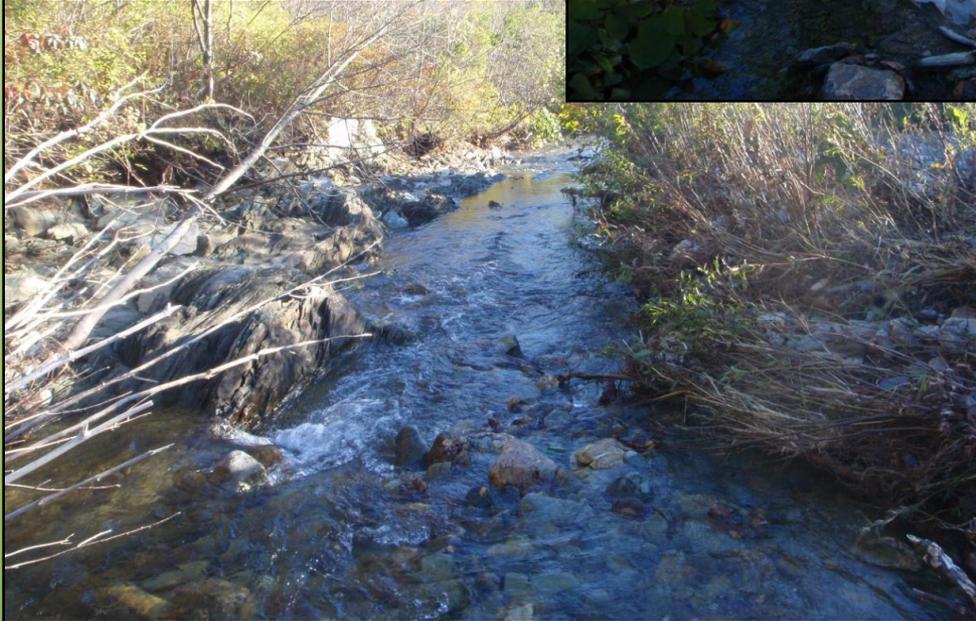




10/12/2010

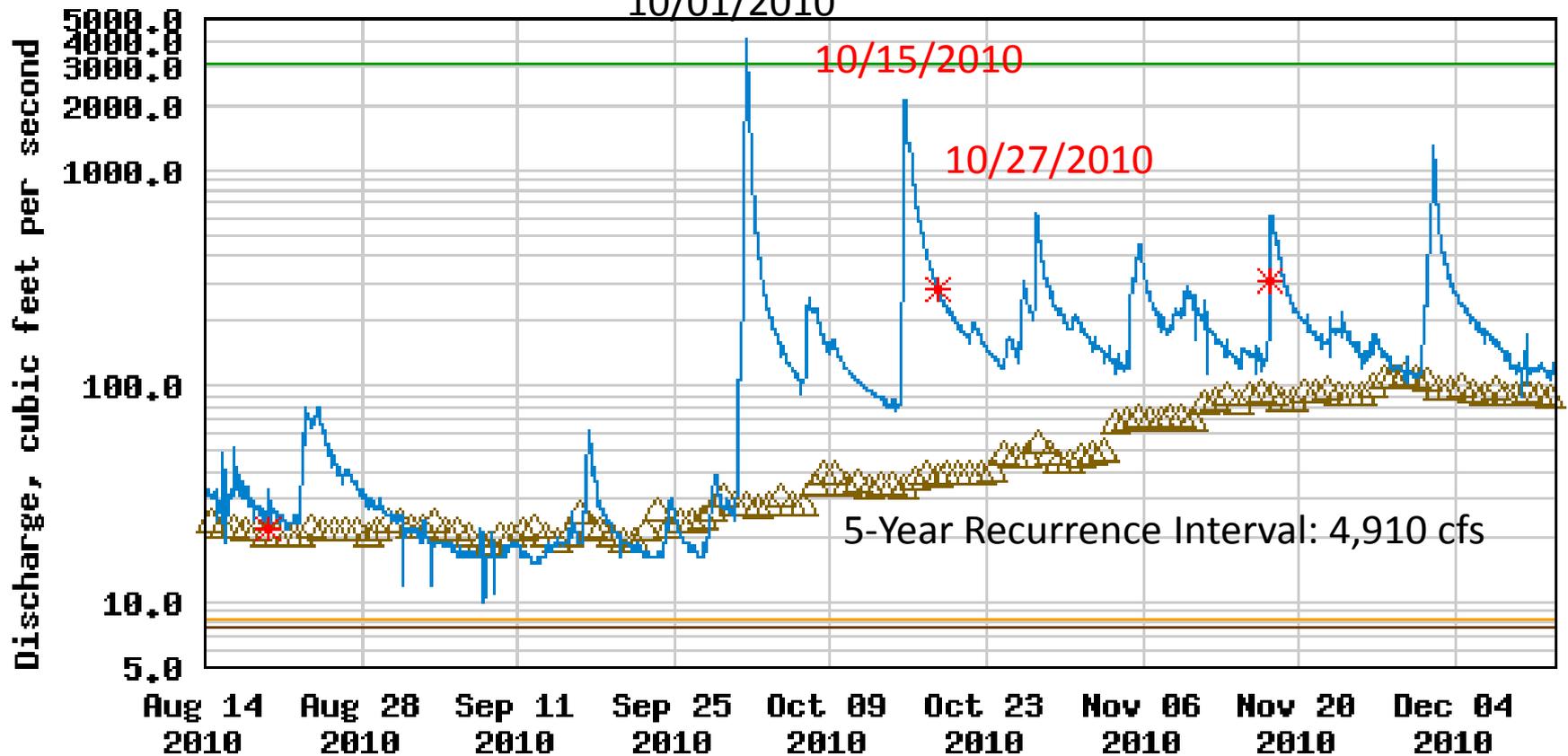








USGS 04287000 DOG RIVER AT NORTHFIELD FALLS, VT
10/01/2010



---- Provisional Data Subject to Revision ----

- △ Median daily statistic (74 years)
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- * Measured discharge
- 2-Year Recurrence Interval
- 99% Flow duration
- 7-day, 10-year low flow

11/04/2010













