

Foothills Stream Crossing Program



May 2011



Objectives

- **Develop an industry-driven approach**
- **Establish a standardized stream crossing inspection process and protocol**
- **Establish a system to identify priorities for maintenance and replacement**
- **Coordinate watershed level remediation planning**
- **Monitor results**



West Fraser

devon



ConocoPhillips

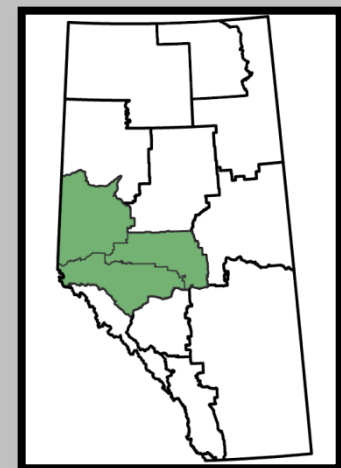
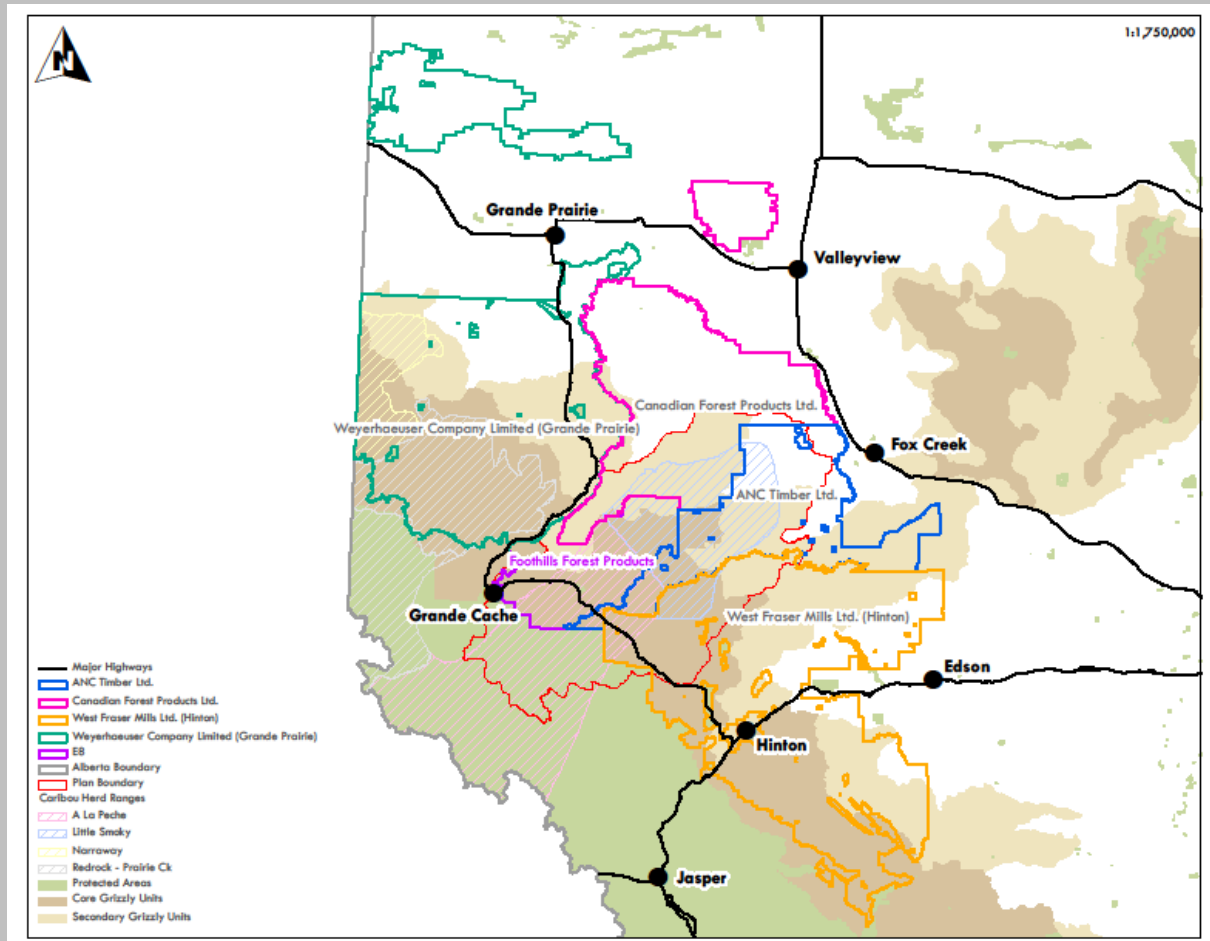


Current membership

- ❑ Apache
- ❑ Canfor
- ❑ CN (inactive)
- ❑ CNRL
- ❑ ConocoPhillips
- ❑ Devon
- ❑ Hinton Wood Products, West Fraser Mills
- ❑ Talisman Energy
- ❑ Tourmaline
- ❑ Shell Canada (including Duvernay)
- ❑ Fisheries and Ocean Canada
- ❑ ASRD Public Land and Forests
- ❑ ASRD Fish and Wildlife
- ❑ Alberta Environment



Study Area



Inspection Progress

- 2006 to 2010 – Inspected 700 crossings
- 2010 – Re inspected 185 high priority crossings

| | Initial Inspections 2006 to 2009 | Re-Inspections 2010 |
|-------------------------|-------------------------------------|------------------------|
| High Fish Risks | 56 | 39 |
| High Sedimentation Risk | 89 | 48 |
| High Safety Risk | 3 | 0 |

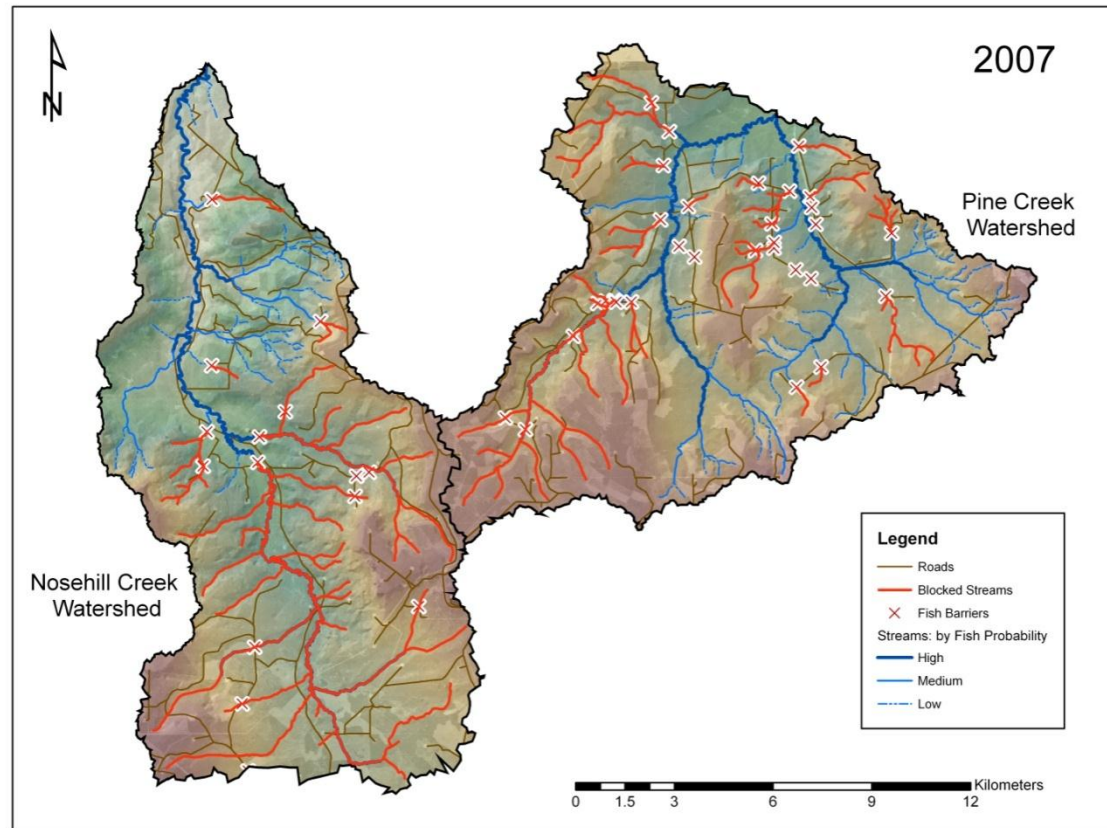
Remediation and Prioritization

- Stream crossings present a large scale problem due to various factors
 - Changing construction standards
 - Older crossings which have changed owners many times
 - Lack of crossing inventories and data.
- Designed to coordinate collaboration between companies and regulators



Remediation Watersheds

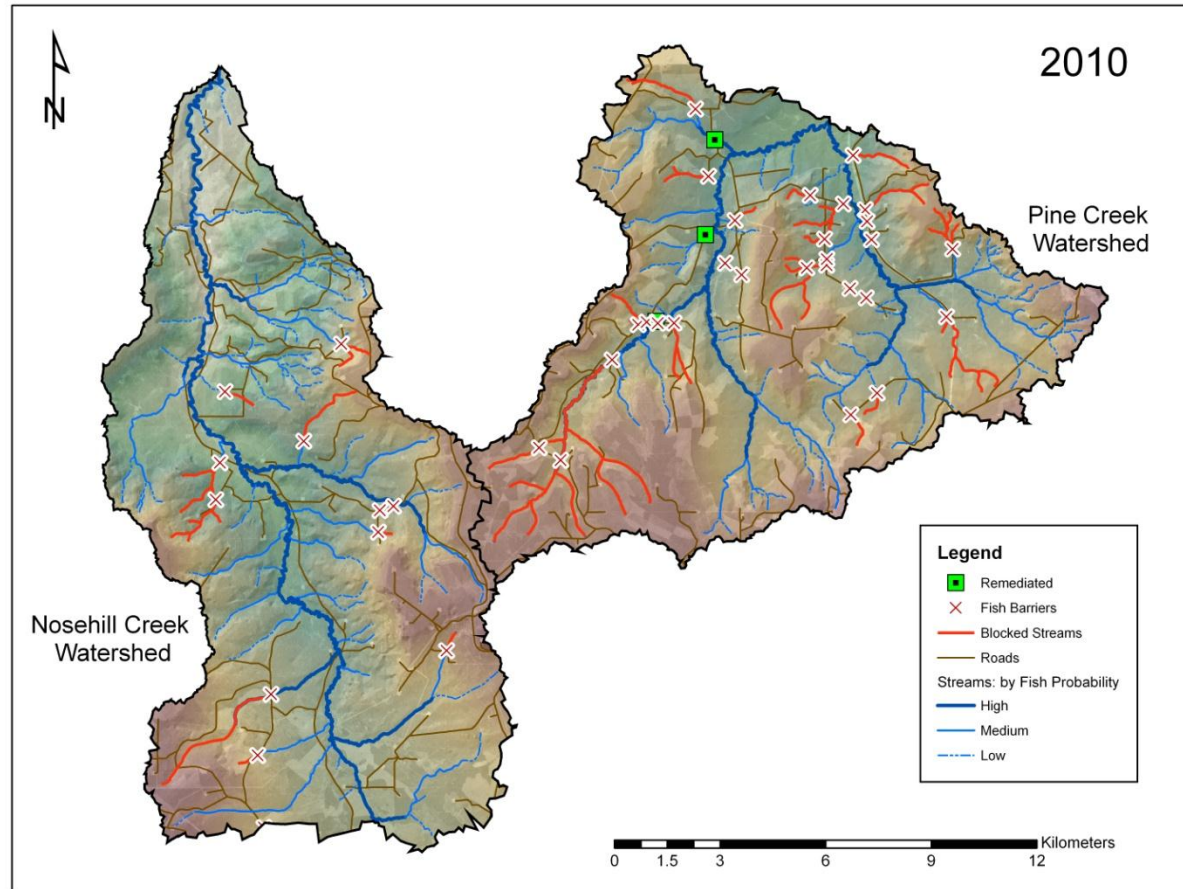
Pine Creek and Nosehill Creek Watersheds



In 2007 Pine Creek and Nosehill Creek had significant portions of fish habitat blocked due to faulty crossings indicated by the red lines.

Remediation Watersheds

Pine Creek and Nosehill Creek Watersheds



By the 2010 construction season 40km of previously blocked fish habitat was opened through remediation.



Thank you