

Skagit River General Investigation Preliminary Alternatives

May 7, 2012. Preliminary Alternatives Public Workshop.






US Army Corps of Engineers
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Skagit River General Investigation





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Problem

- **Problem:** The Skagit River Basin is subject to rain floods and related snowmelt runoff flooding that typically occur from October – March. This flooding results in damages to infrastructure; residential, commercial and industrial structures; agricultural areas; and is a threat to life safety. Existing flood control systems, including locally owned levees and flood control storage in non-Federal hydropower projects, provides a limited level of flood risk management to developed areas that is not acceptable to the local communities in the Basin.



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Opportunity and Objectives

- **Opportunity:** Reduce flood risk and life/safety risk in the Skagit River Basin from overland flow resulting from October – March rain floods and related snowmelt floods.
 - **Objective:** Reduce flood damages in the Skagit River Basin over the 50 year project life.
 - **Objective:** Reduce threat to life safety in the Skagit River Basin over the 50 year project life.



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Study Schedule

- **Upcoming milestones**
 - Public Outreach on Preliminary Alternatives, April-May 2012
 - Public Outreach on Final Alternatives and Tentatively Selected Plan, March 2013
- **Future Milestones**
 - Public Outreach on Recommended Plan, March 2014
 - Formal Public Comment Period on draft Integrated Feasibility Report and Environmental Impact Statement per NEPA requirements, January 2015



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Measures and Alternatives

- **Measures are strategies that decrease flood risk for a specific location. Alone, they cannot address basin-wide flooding problems.**
 - ▶ Levees/floodwalls
 - ▶ Operational modifications Upper and Lower Baker Dams
 - ▶ Bypasses
 - ▶ Non-structural
 - ▶ Bridge modification
- **Alternatives are groupings of measures that can address basin wide flooding problems.**



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Alternatives Formulation Process

- Preliminary alternatives are conceptual designs.
- The Alternatives Formulation Process is an dynamic process.
 - ▶ Over the next year, the study team will refine the alternatives based on considerations of:
 - Hydraulic analysis
 - Economic analysis
 - Environmental analysis
 - Federal, state, and local laws
 - Public input
 - Local, state and federal agency input
- The preliminary alternatives presented today are likely to change as they are refined through the alternative formulation process.

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Alternatives Formulation Process: Evaluation Criteria

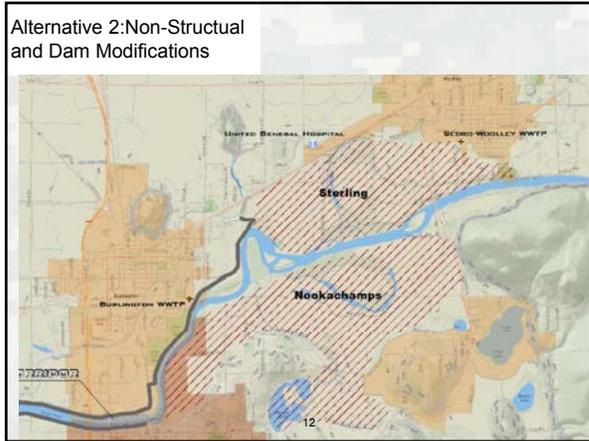
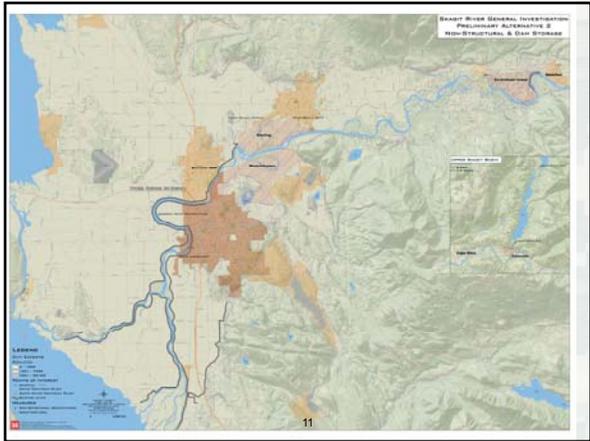
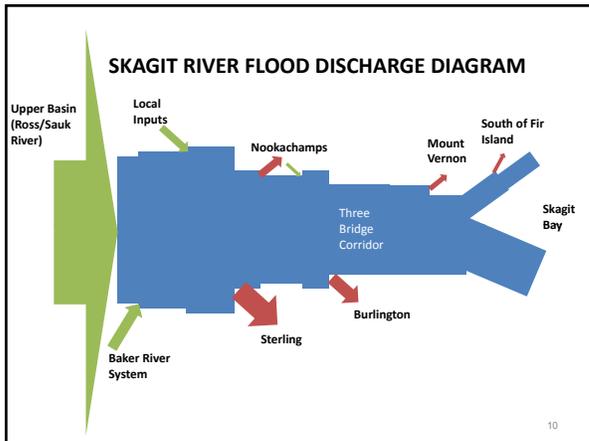
- Completeness
- Effectiveness
- Efficiency
- Acceptability

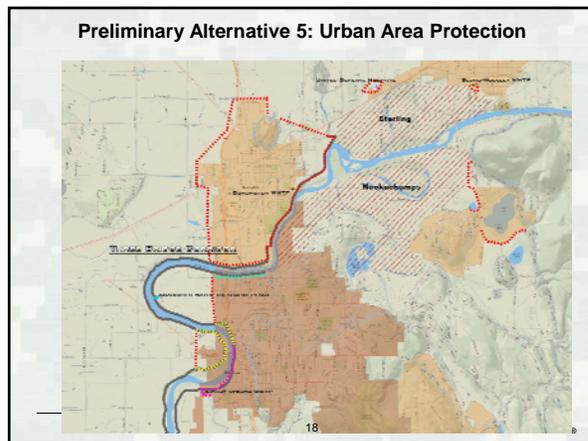
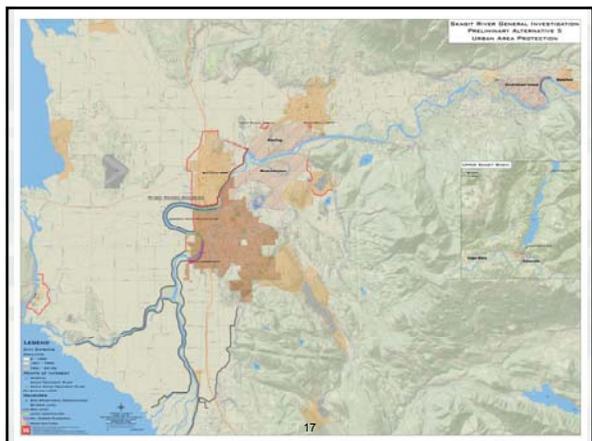
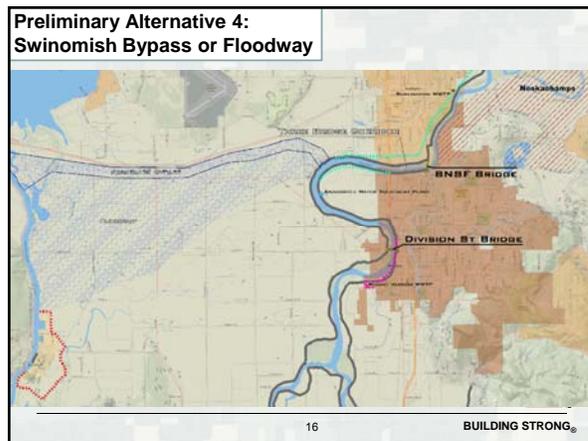
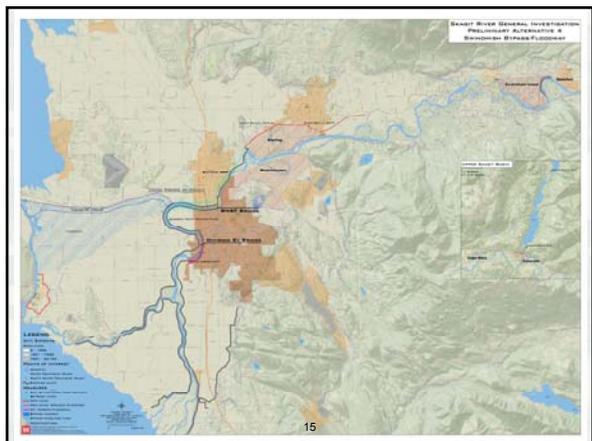
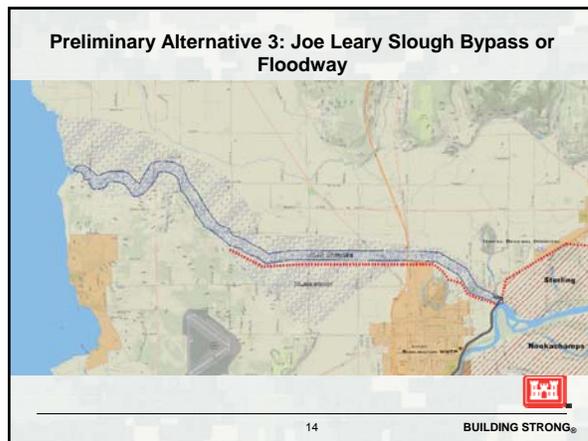
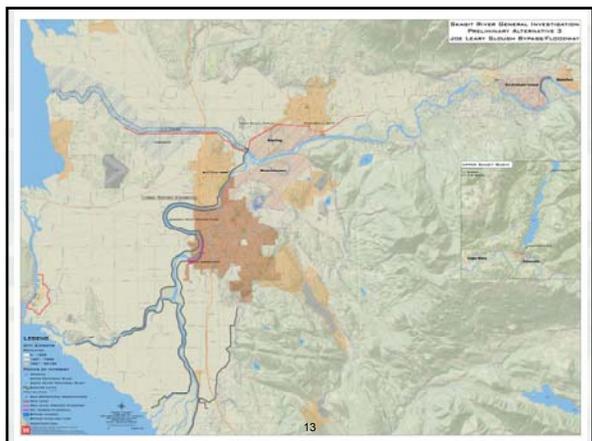
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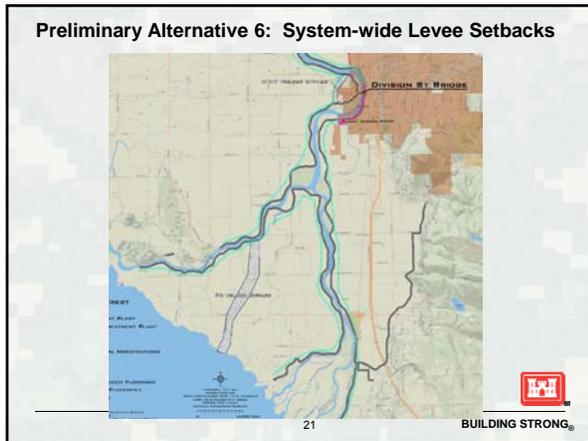
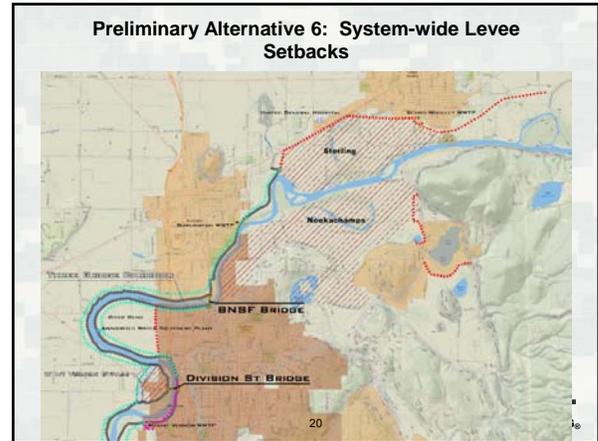
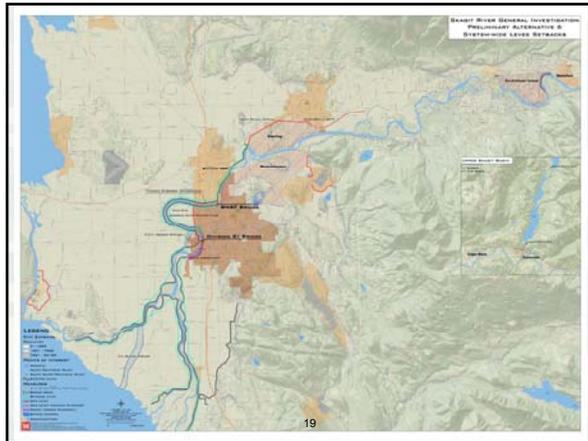
Preliminary Alternative 1: No Action

- Per USACE planning guidance, the No Action Alternative was evaluated.
- The No Action Alternative will not achieve the study objectives and will not be brought forward for further consideration as the recommended plan.

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Comments?

- Please fill out a comment card.

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This slide is a call for public input. It features the heading 'Comments?' and a single bullet point: 'Please fill out a comment card.' The 'BUILDING STRONG' logo is in the bottom right corner. The number '22' is at the bottom center.