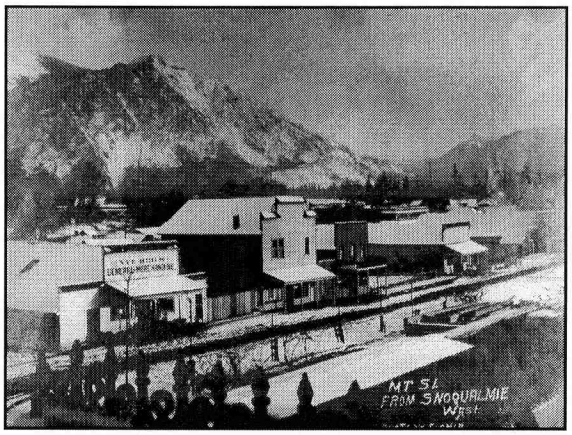
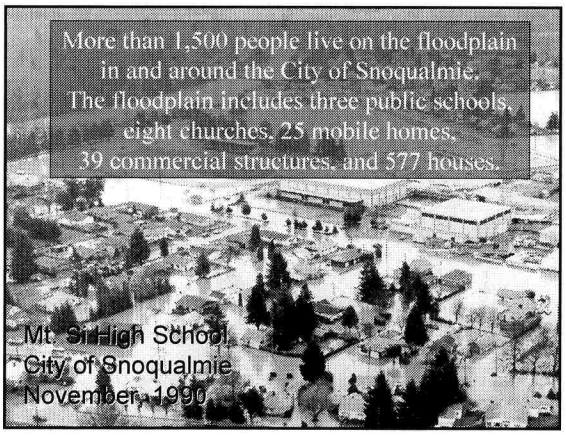
Snoqualmie River
Flood Reduction Project
(Snoqualmie 205)

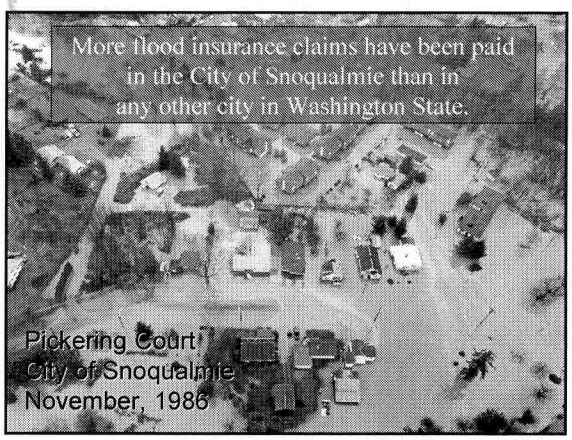
US Army Corps of Engineers®

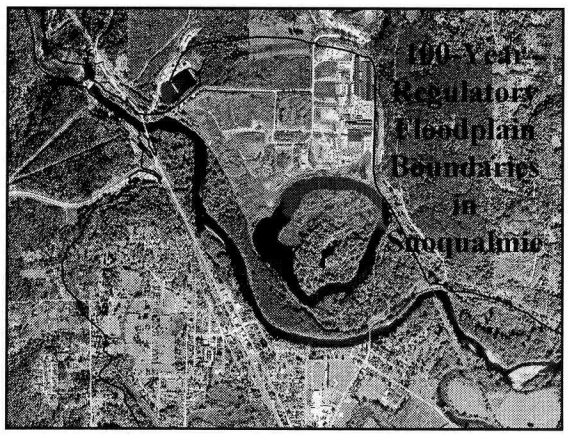
King County

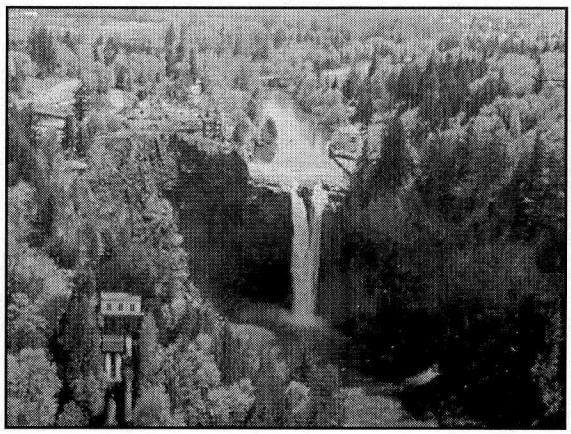
CITY OF SNOQUALMIE

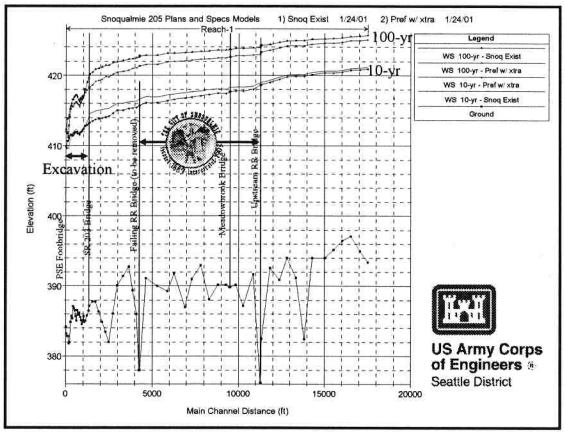


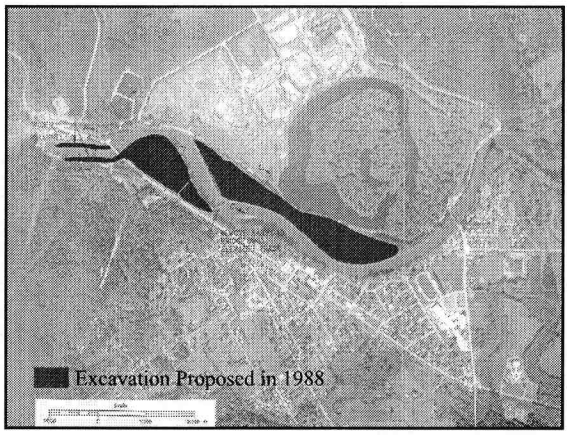


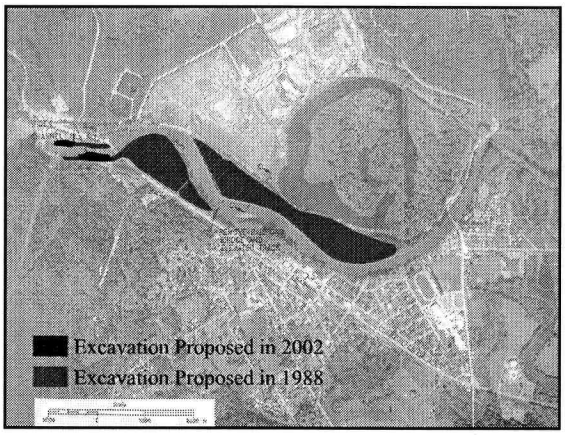




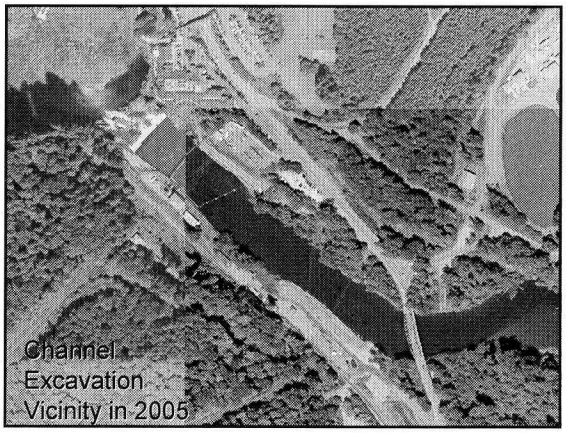



Snoqualmie 205 Plans and Specs Models 1) Snoq Exist 1/24/01 2) Pref w/ xtra 1/24/01
Reach-1
100-yr
10-yr
Legend
WS 100-yr - Snoq Exist
WS 100-yr - Pref w/ xtra
WS 10-yr - Pref w/ xtra
WS 10-yr - Snoq Exist
Ground
Excavation
Elevation (ft)
420
410
400
390
380
0
5000
10000
15000
20000
Main Channel Distance (ft)
US Army Corps of Engineers
Seattle District


Excavation Proposed in 1988


Excavation Proposed in 2002
Excavation Proposed in 1988

Channel
Excavation
Vicinity in 2002


Channel
Excavation
Vicinity in 2005

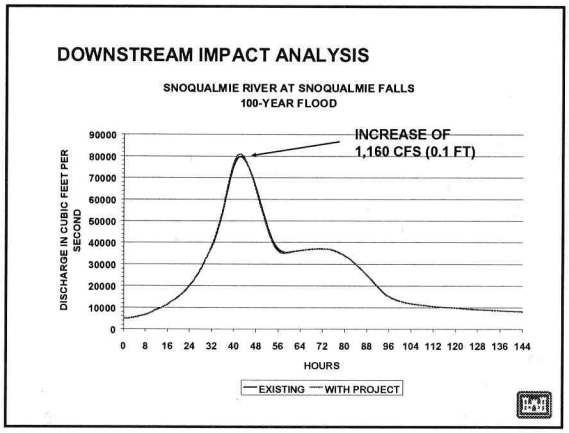
Railroad Bridge
Vicinity in 2002

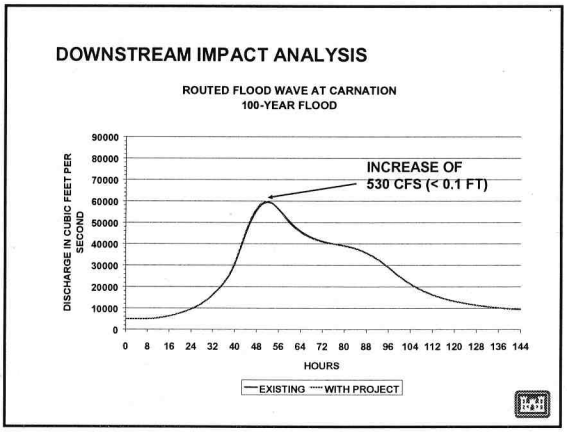
Railroad Bridge
Vicinity in 2005

Snoqualmie 205
November 6, 2006

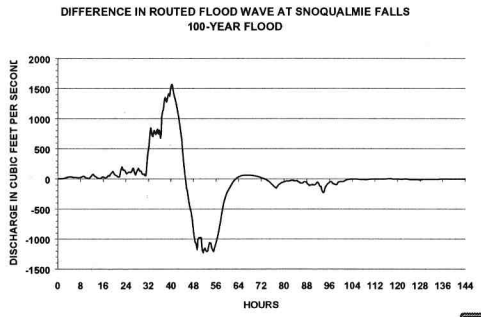
City of Snoqualmie
November 7, 2006

City of Snoqualmie
November 7, 2006

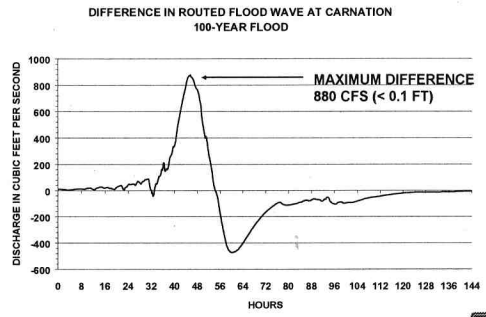

DOWNSTREAM IMPACT ANALYSIS
SNOQUALMIE RIVER AT SNOQUALMIE FALLS
100-YEAR FLOOD
INCREASE OF
1,160 CFS (0.1 FT)
DISCHARGE IN CUBIC FEET PER SECOND
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0 8 16 24 32 40 48 56 64 72 80 88 96 104 112 120 128 136 144
HOURS
EXISTING
WITH PROJECT


DOWNSTREAM IMPACT ANALYSIS
ROUTED FLOOD WAVE AT CARNATION
100-YEAR FLOOD
INCREASE OF
530 CFS (< 0.1 FT)
DISCHARGE IN CUBIC FEET PER SECOND
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0 8 16 24 32 40 48 56 64 72 80 88 96 104 112 120 128 136 144
HOURS
EXISTING
WITH PROJECT

DOWNSTREAM IMPACT ANALYSIS



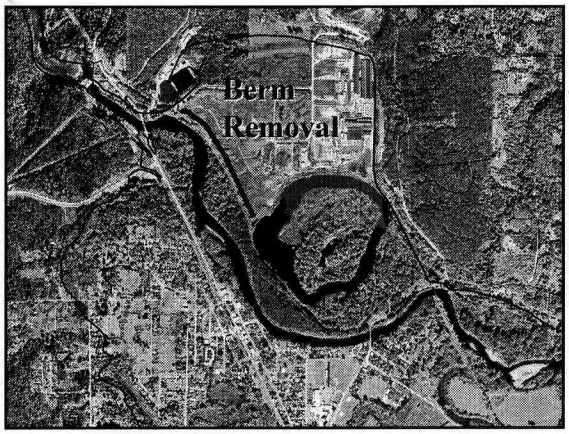
DOWNSTREAM IMPACT ANALYSIS



Mitigation Measures for Downstream Impacts

Cost Shares for Structure Elevation

- Agreements in place to raise 12 structures (7 houses, 3 barns, 1 office, 1 shop)
- Total project contribution is $328,500

Flood Storage Restoration

- Weyerhaeuser Snoqualmie mill site
- Berm removal at former log sort yard
- 90,000 cubic yards removed
- Much larger floodplain area involved