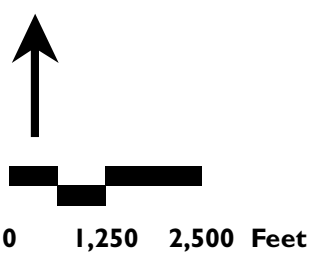


Source: J:\6182_00\GIS\Project\Update\USGS_SLM.mxd

Vanasse Hangen Brustlin, Inc. **VHB**

Figure 1
December 2007
Project Update

Suncook River Restoration
 Epsom, New Hampshire



Source: USGS

Geomorphology Findings

Headcut extends up to confluence with Little Suncook. Comparison of our survey with FEMA data suggests 3 feet of degradation here.

Slope above the avulsion is 0.95%.

Old Channel is 12 feet higher than new channel at the avulsion site.

Slope below the avulsion is 0.17%.

Channel bed is elevated 3 to 4 feet relative to pre-avulsion conditions downstream of confluence.

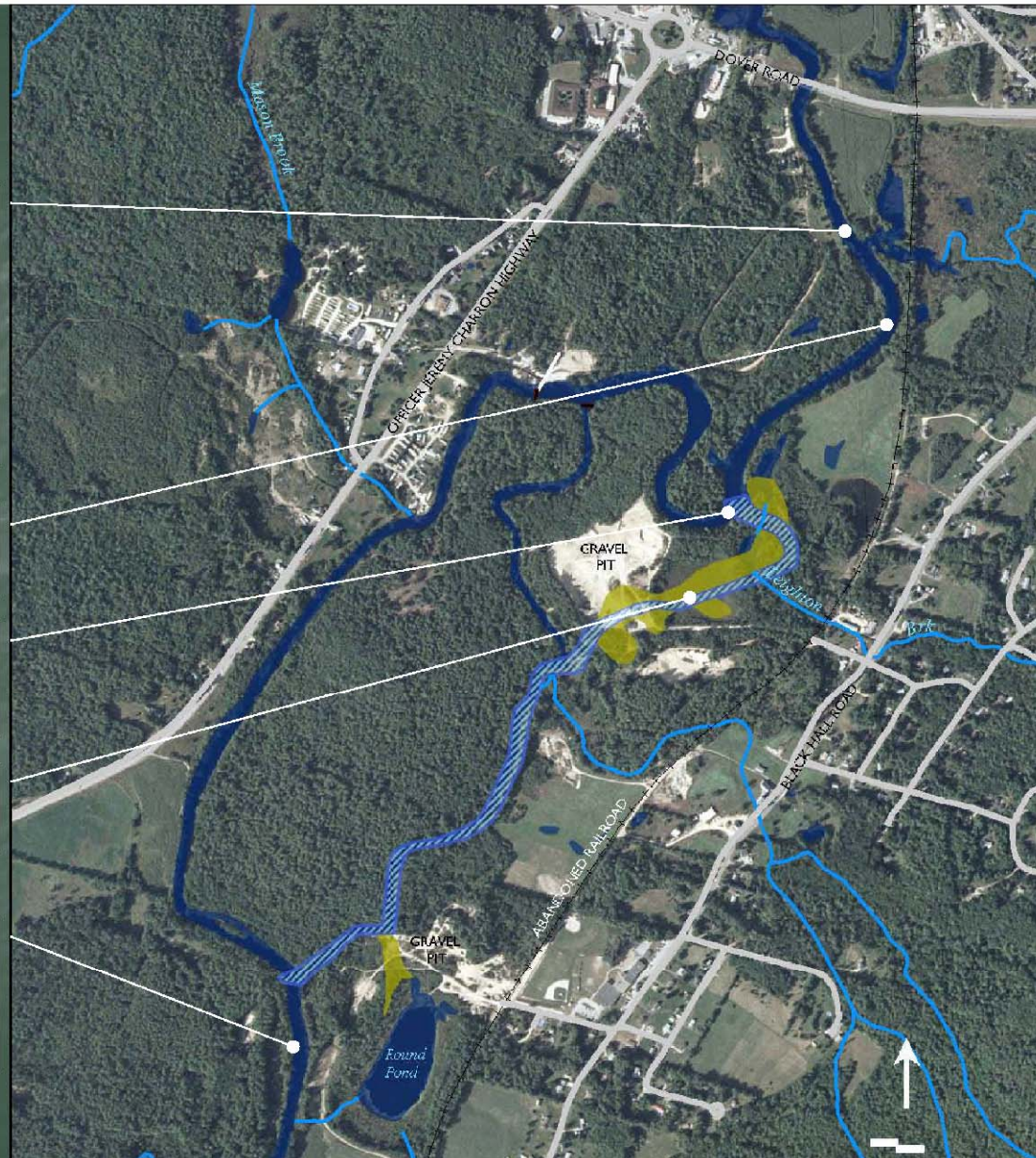


Figure 2
December 2007
Project Update
Suncook River Restoration
Epsom, New Hampshire

Source: NH GRANIT & VHIB, Inc.

Alternative 3 Alt 2 + New Channel

1. Place grade control structures to control headcutting

2. Restore appropriate form to river to establish equilibrium

3. Excavate as necessary to ensure bankfull channel capacity

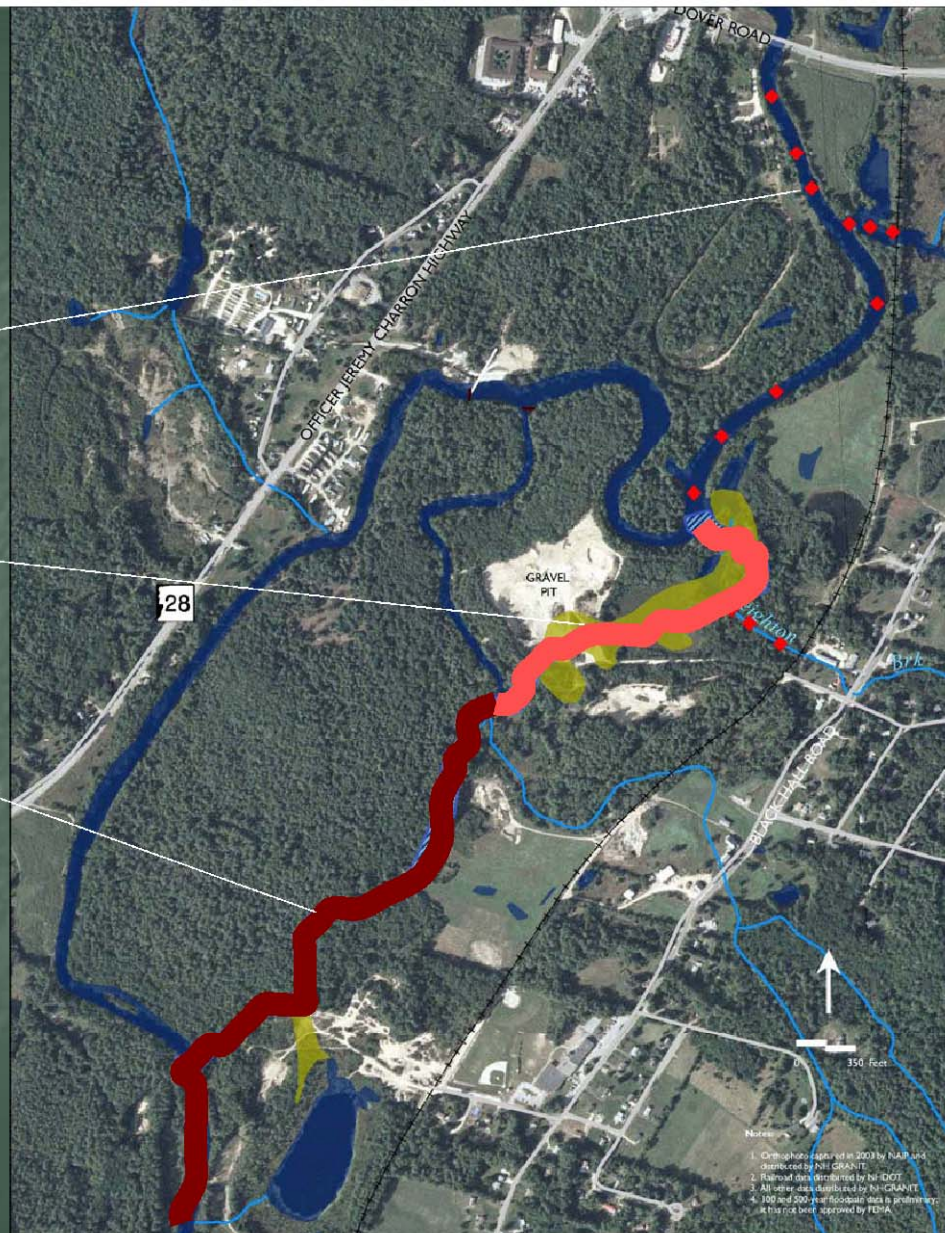


Figure 5
December 2007
Project Update
Suncook River Restoration
Epsom, New Hampshire

Source: NH GRANIT & VHIB, Inc.

Alternative 4 Restore Flow to Old Channel

Alt 4A – Cut new channel to divert river to Old Primary Channel.

Alt 4B – Reconstruct Avulsion Site.

Repair or remove dams.

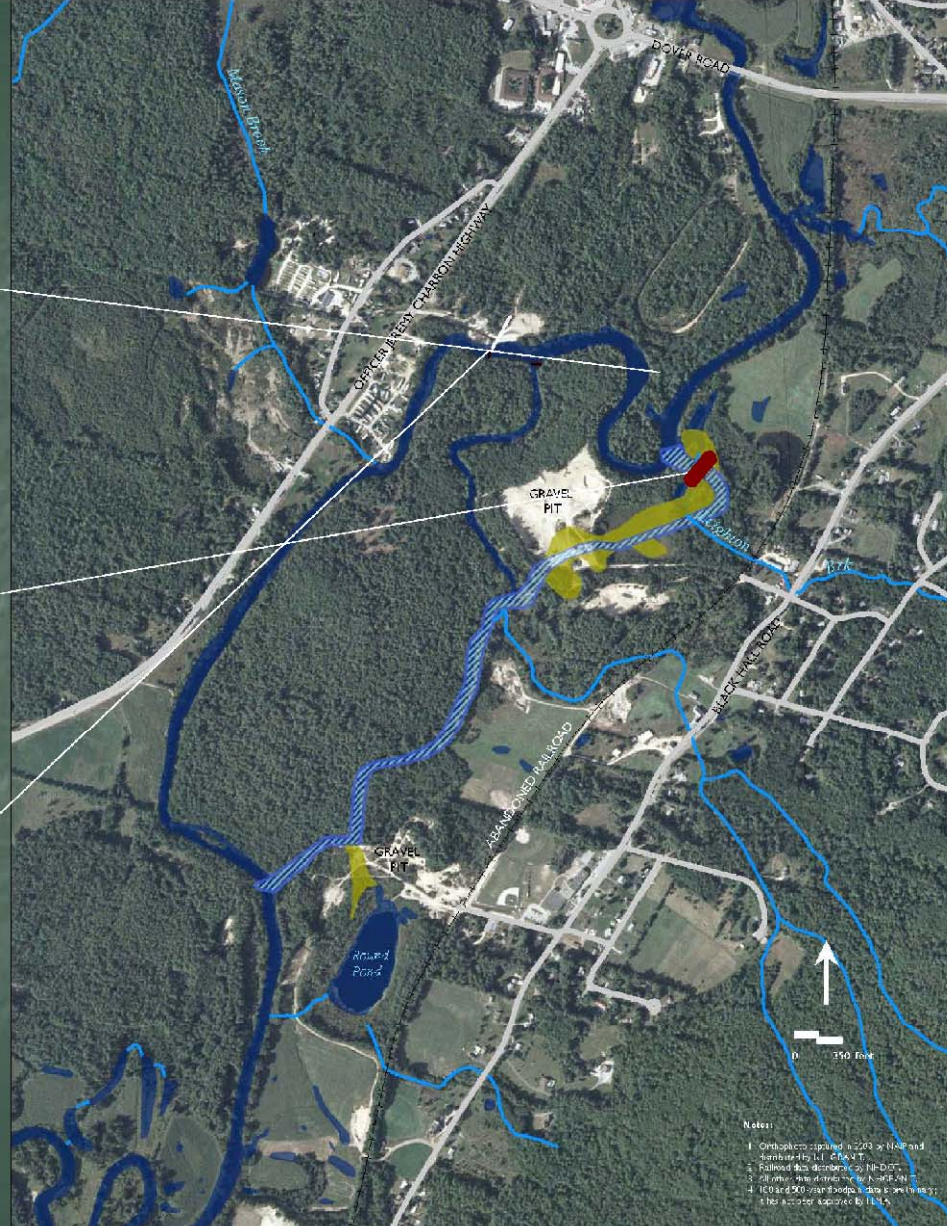


Figure 6
December 2007
Project Update
Suncook River Restoration
Epsom, New Hampshire

Source: NH GRANIT & VH&B, Inc.