Boulder County
Parks & Open Space

St. Vrain Creek Breaches Restoration Project Goals and Scoping

June 1, 2016

Clint Brown & Rich Tocher

Engineering Analytics, Inc.

Lidstone and Associates, Inc.

WENCK ASSOCIATES

ecos ecosystem services LLC

Trihydro

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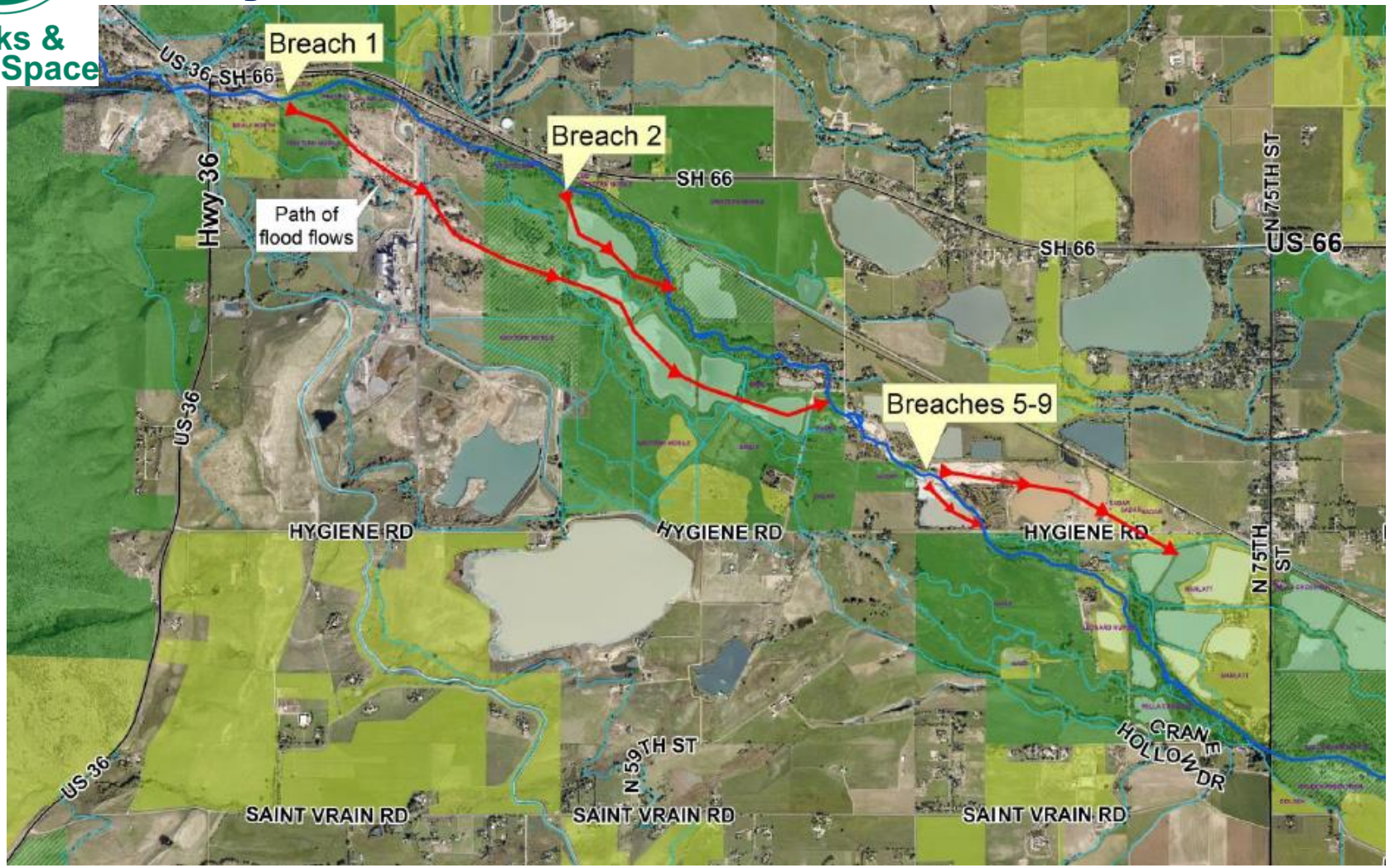
Project Overview



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Breach 1 – Post-Flood 2013

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Breach 2 – Post-Flood 2013

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Breaches 5-9 – Post-Flood 2013

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Project Goals

- Provide 30% designs for resilient restoration of the 9 breaches to the St. Vrain Creek
- Develop 2-3 restoration alternatives using natural channel design to:
  - Promote restored connectivity of vital wildlife and aquatic habitat
  - Encourage dynamic ecological processes
  - Maintain habitat and ecosystem health long term
- Encourage Stakeholder involvement

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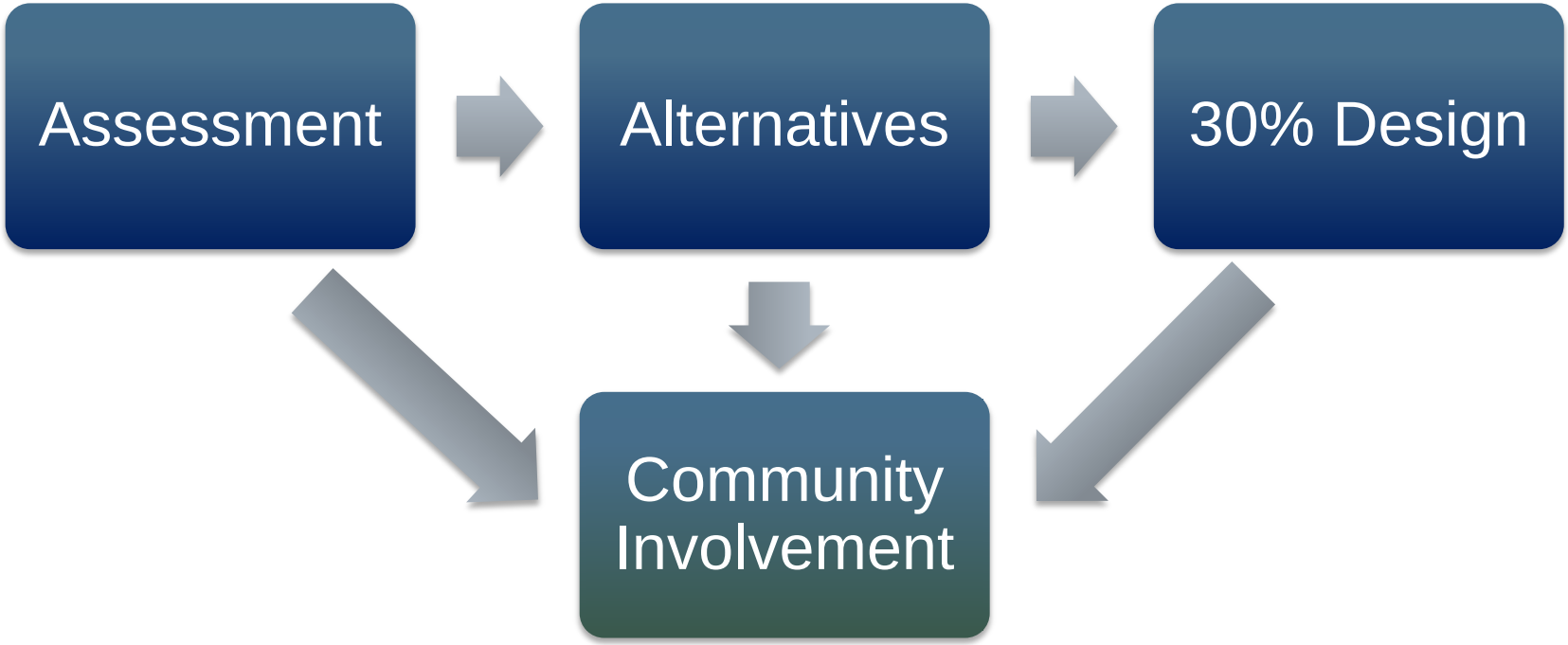
Project Approach



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Project Approach

- Task 1: Assessment
  - Watershed and site
  - Survey and geotechnical
  - Hydraulics
  - Geomorphology and sediment transport
  - Aquatic and terrestrial species
- Ongoing

- Public meeting today (June 1, 2016)

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Project Approach

- Task 2: Alternatives Definitions and Analysis
  - Re-establishing flow along the creek alignment
  - Widening the floodplain
  - Creating a permanent creek alignment
  - Create split flood flow through the reach
- June-July 2016

- Website: Best way to let your voice be heard

  http://www.bouldercounty.org/os/openspace/pages/ssv-36-to-airport.aspx
- Public meeting (June, date/location TBD)

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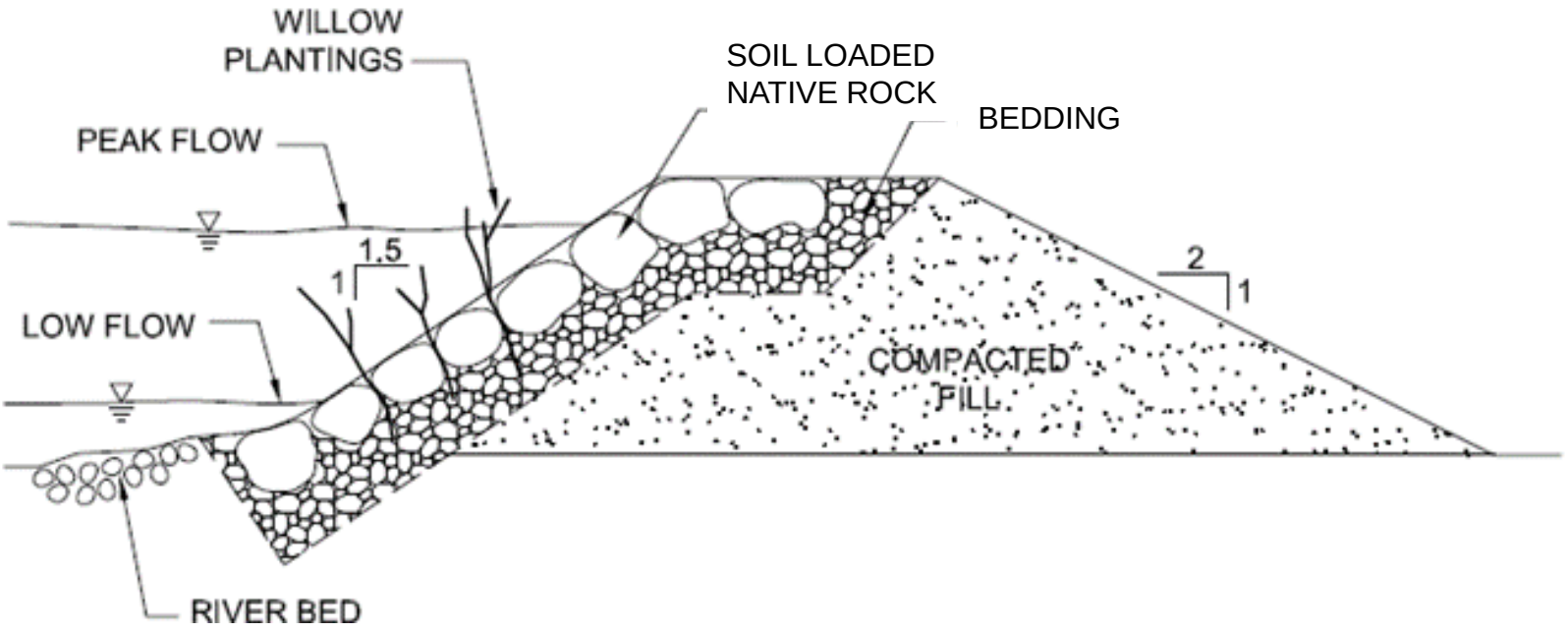
Breach Repair Option



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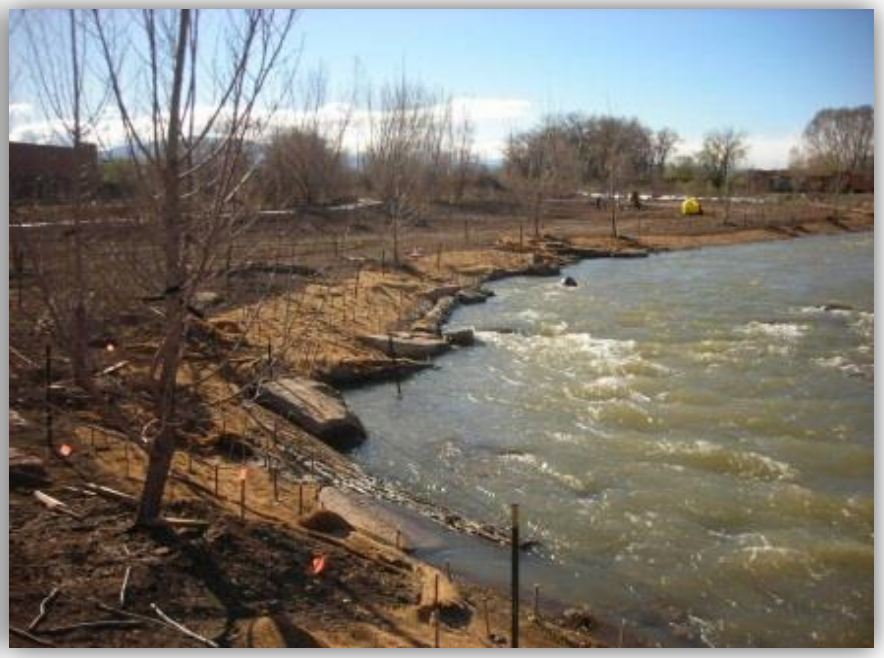
Stream Restoration and Habitat Creation



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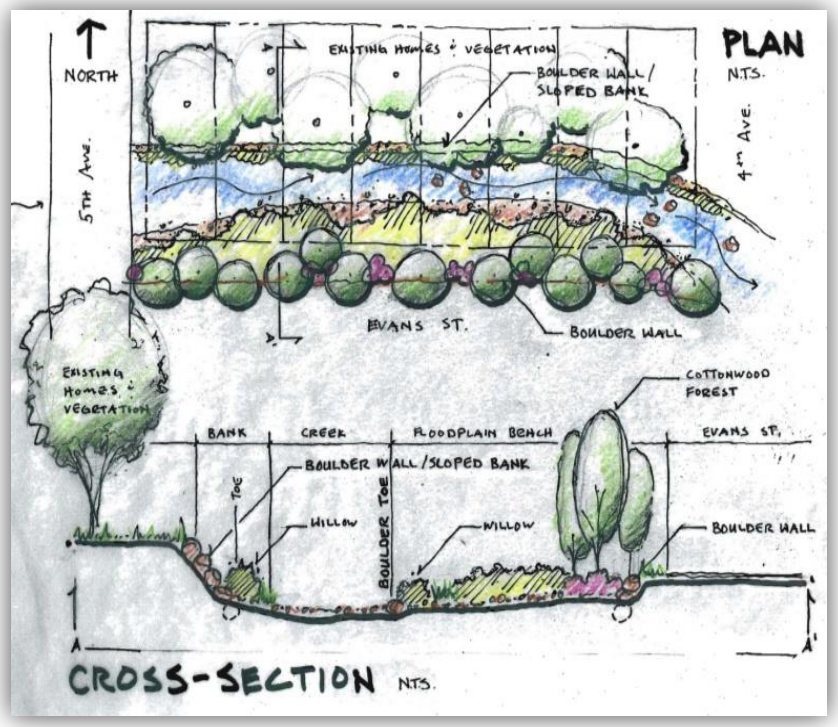
Stream Restoration and Habitat Creation



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Project Approach

- Task 3: 30% Design
  - Resilient restoration of breaches
  - Promotion of wildlife and aquatic habitats
  - Encourage dynamic ecological processes
- July-August 2016

- Public meeting (August, date/location TBD)

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Community Involvement

- Public progress meetings
  - Project Goals and Scoping – June 1, 2016
  - Alternatives – June, date/location TBD
  - Final Presentation – August, date/location TBD
- St. Vrain Creek Coalition meetings
  - May 25, 2016
  - June 22, 2016
  - July 27, 2016
- Community Field Trip
  - Date/time TBD

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Community Involvement

- Website – Submit your questions or comments

  http://www.bouldercounty.org/os/openspace/pages/ssv-36-to-airport.aspx

- Contact Jesse Rounds, BCPOS

  jrounds@bouldercounty.org

  303-678-6271

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Project Schedule

- Task 1 – Assessment · Ongoing
  - SVCC Meeting · May 25, 4pm
  - Public Meeting · June 1, 6pm
- Task 2 – Alternatives · June-July 2016
  - SVCC Meeting · June 22, 4pm
  - Public Meeting · June, date/location TBD
- Draft 30% Design · July-August 2016
  - SVCC Meeting · July 27, 4pm
  - Public Meeting · July, date/location TBD
- Final 30% Design Report · September 1, 2016
  - Public Meeting · August date/location TBD

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Thank you!

For more information, visit the project website

http://www.bouldercounty.org/os/openspace/pages/ssv-36-to-airport.aspx

or contact

Jesse Rounds at BCPOS

jrounds@bouldercounty.org

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