Erosion Control on Construction Sites

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Erosion Control On Construction Sites

• How to minimize soil loss
• Best Management Practices
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How to Minimize Soil Loss

• #1
  – Don’t disturb the soil!

• #2
  – Keep it on the slope!

• #3
  – Keep it on the site!

• Why is this important?
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Best Management Practices (BMP)

• What Are BMP?

“BMPs are scheduling of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.”
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Two fundamental BMP

- Source Control or Site Stabilization
  - Preserving Natural Vegetation
  - Plastic Fencing
  - Mulching
  - Nets and Blankets
  - Straw Wattle
  - Plastic Sheeting
  - Construction Exit/Entrance
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Examples

Tracking
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Examples – Straw Wattle
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Treatment or Sediment Control

- De-silting Basin
- Check Dam
- Drain Inlet Protection
- Fiber Roll in Swale
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Examples

**STRAW WATTLE STRUCTURE**

Flow

Area behind structure where small branches, woody debris and fines are placed in the channel.

Notice the structure is built without an energy dissipator.

Straw wattle, anchored into place with 4 foot long rebar that is bent to conform to the wattle. Wooden stakes can also be used.

Plan view
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• Sediment Basin
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References (a few):

• CASQA Manual –
  http://www.cabmphandbooks.com/

• CALTRANS – Construction Site BMP Field Manual and Trouble Shooting Guide.
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Questions