

GABION WALLS and other WEED CONTROL DEVICES

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Lateral G Big Bend Settling Pond

SW 1-11-16 W4

- Pond size: Bed 6.7 m wide x 31.7 m long
 - S:S 1:2.5 and water depth 2.0 m
- Surface area of Gabion wall – 23.4 s.m.
- Velocity through gabion wall using gross area:
 - $Q/A = 0.849 \text{ cms (30 cfs)}/23.4 \text{ sm} = 0.036 \text{ m/s (0.12 fps)}$
- Velocity though the voids of the gabion wall based on 30% void area
 - $V = 0.036/0.3 = 0.12 \text{ m/s (0.40 fps)}$























Lateral 6A Taber Settling Pond

NE 22-9-17 W4

- Pond size: Bed 5.94 m wide x 31.7 m long
 - S:S 1:2.5 and water depth 2.0 m
- Surface area of Gabion wall – 49.6 s.m.
 - $Q=1.27$ cms (45 cfs)
- Velocity through gabion wall using gross area:
 - $Q/A = 1.27 \text{ cms (45 cfs)}/49.6 \text{ sm} = 0.026 \text{ m/s (0.084 fps)}$
- Velocity though the voids of the gabion wall based on 30% void area
 - $V = 0.026/0.3 = 0.087 \text{ m/s (0.28 fps)}$



























Thank You

Questions?