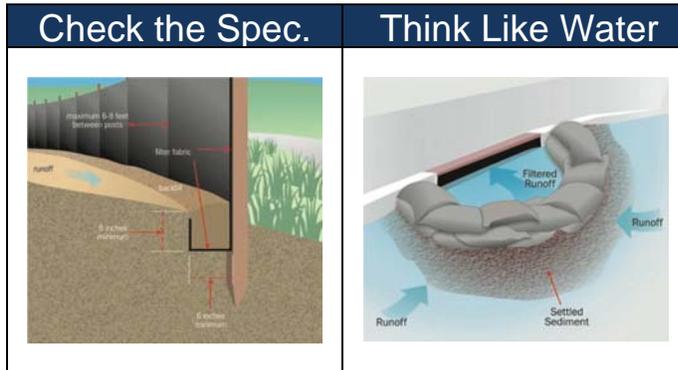


BMP IQ Checklist

Best Management Practices - Installation Quality (IQ)

Summit Services Group is pleased to offer this BMP-IQ checklist to the construction community. This is NOT a substitute for a quality stormwater compliance inspection, but rather focuses solely on eliminating the waste & costs associated with poor quality BMP installations. To further address cost we recommend our ½ day “Cost Effective BMPs” training course, details at: (www.summitservicesgroup.com). We would also like to thank to our friends at Down To Earth Compliance, LLC (www.trustedtec.com), an award winning BMP contractor in the Rocky Mountain region, for help compiling this installation quality checklist.

Guidelines for evaluating BMPs: We suggest two methods that apply in a broad range of situations.



First, compare the construction details in your SWMP (Stormwater Management Plan) to the BMPs installed on your site. Does the actual installation reflect all the factors called out in the BMP detail and/or manufacturer’s specification?

Second, think like water (especially for sediment control BMPs). Will water be able to flow around it? Under it? Through it or over it? Armed with this approach you will also want to observe the BMPs functioning during a rain event. Check for water or sediment squeezing through gaps, under BMPs or around BMPs. All of these are signs of poor installation quality.

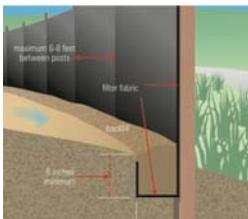
BMP IQ Quick-Tips: There are dozens of BMPs designed to control erosion & sediment on your construction site. However, when it comes to controlling cost we find the following to be the most commonly used & abused BMPs: **Seeding, Silt Fence, Wattle, Erosion Control Blankets & Stabilized Construction Entrances**. We offer these Quick-Tips for you to check Installation Quality.

Seeding



BMP IQ Symptoms	Check for
Compacted seedbed, unable to easily insert shovel to at least 4"	Inadequate equipment used for ripping or diking
Delayed or spotty germination	Improper seed mix or quantity; not enough straw or mulch
Bare spots larger than 2 to 4 s.f.	Not enough seed or mulch; or poor distribution over the project
Straw or hay mulch blown off project	Inadequate crimping

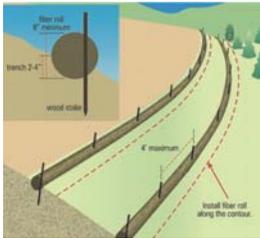
Silt Fence



BMP IQ Symptoms	Check for
Bottom of fabric flapping or water washes underneath	Failure to trench and backfill properly
No tension on fabric or water flattens fence	Not enough stakes and/or fabric installed without proper tension
Fabric ripping/tearing at staples	Poor quality material, installed backwards, or too few staples

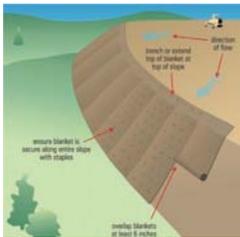
You can learn more about evaluating BMP installation quality by taking our ½ day class. Details on our website at www.summitservicesgroup.com

Wattle



BMP IQ Symptoms	Check for
Wattle does not conform to ground; light shows or water flows under	Failure to trench and backfill properly
Wattle displaced by surface flow	Not enough stakes, wrong stake or pin
Water or sediment flows between the wattles	Gaps or seams between wattles; overlapped against flow direction

Erosion Control Blankets



BMP IQ Symptoms	Check for
Edges peeled back by wind or water flows under blanket creating rills	No top trench and/or not enough pins or staples
Revegetation not taking root	Improper soil preparation; soil compaction, wrong seeding per spec.
Water flows along width vs. length or directly along seams	Orientation of erosion control blanket and seams

Stabilized Construction Entrance



BMP IQ Symptoms	Check for
Off site tracking of mud or dirt	Dimensions to ensure length and width conform to specification. Maintenance
Rock is compressed into soil	No liner or area not over excavated
Rock layer quickly fills with soil or mud; rock not lose or deep	Wrong size rock or not enough rock

The Bottom Line

1. Poor installation quality is preventable through education, communication, and accountability.
2. Poorly installed BMPs increase maintenance and repair costs. These cost will become magnified in the event of a major storm event.
3. Poorly installed BMPs will not stand up to the rigors of construction activity, leading to sediment discharge and increased risk of regulatory enforcement action and costly project delays.
4. Clean construction sites raise curb appeal and are easier to build on.
5. Don't be penny wise and pound foolish. An inexpensive BMP installation does not create any real savings if maintenance costs and BMP repair cost increase in the following weeks and months.

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