



EarthGuard: A Rain Event Action BMP Irvine, CA



Treated Area



Untreated Area



Results:

- Treated
- Untreated



Challenge:

On Dec. 2, 2010, one of the largest residential builders in Southern California used EarthGuard as a Rain Event Action Plan (REAP) to treat a few pads on an active construction site in Irvine, CA. At the site, there were other pads that had yet to be treated due to time constraints.

The new California General Construction Permit requires a developer stabilize the site during inactivity and to maintain effluent stormwater turbidity below a numeric action limit of 250 NTUs and pH 6.5-8.5.

The developer chose an application rate of 4 gallons of EarthGuard per acre.

Results:

On Dec. 20-21, the site experienced over 7" rain within the 2 day period. During the rain event, stormwater was observed flowing at a 2" depth across the EarthGuard treated pads. Effluent stormwater samples were taken to measure turbidity and pH as well.

Sampling demonstrated the following:

- EarthGuard Treated Area: Turbidity 13 NTUs >>> pH 6.8
- Untreated Areas: Turbidity 660 NTUs >>> pH 8.0



Highly **Effective.** Cost **Efficient.**

Terra Novo Manufactures

Erosion Control:

- EarthGuard®
- EarthGuard Fiber Matrix
- EarthGuard **EDGE™**

Reclamation:

- EarthGuard **FUSION™**
- EarthGuard **ORGANIX™**
- EarthGuard **ELIXIR™**

Agricultural Soil Stabilization and Conditioning

- SoilMAX
- Agriflo

Dust Suppression

- DustCap
- DustControl DG

Water Clarification

- AquaGuard

How EarthGuard Works:

EarthGuard Fiber Matrix is a patented technology, which combines EarthGuard and fiber to form a matrix that provides extended erosion control protection in severe situations. This effective and cost-efficient hydraulically applied formulation has set a new standard for sprayed-on erosion control BMP's.



EarthGuard utilizes an extremely high molecular weight blend of chemistry, which results in its superior charge density and soil stabilizing ability. It is designed to work directly with soil to maintain its stability by both preserving existing soil structure and flocculating fine sediment being dislodged by stormwater or wind. EarthGuard is ideal for site-winterization (seed not required), where bare soil, slopes and stockpiles must be protected during the raining season. In re-



vegetation and dormant applications, the superior soil stabilizing ability of EarthGuard holds, seeds, soil, fiber and amendments in place until sufficient long-term growth/erosion control protection has occurred.

EarthGuard is available in two forms. In a bale form, EarthGuard is packaged in combination with 100% wood fiber or, in liquid form, EarthGuard is packaged in a 5 gallon container whereby it can be applied by itself with water or added to standard hydromulch prior to installation.

Terra Novo is dedicated to helping the storm water and erosion control industries comply with strict Federal Clean Water Regulations. Our engineers and chemists maintain a hands-on approach to solving site-specific problems by providing cost-effective best management practice solutions. All of our products are easy to use, highly effective, extremely affordable and environmentally friendly.



For technical services or to locate your nearest EarthGuard® dealer:

call 1-888-843-1029.

Visit Terra Novo online at:

earthguard.com

Terra Novo is located at:
2930 Patton Way, Bakersfield, CA 93308



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