

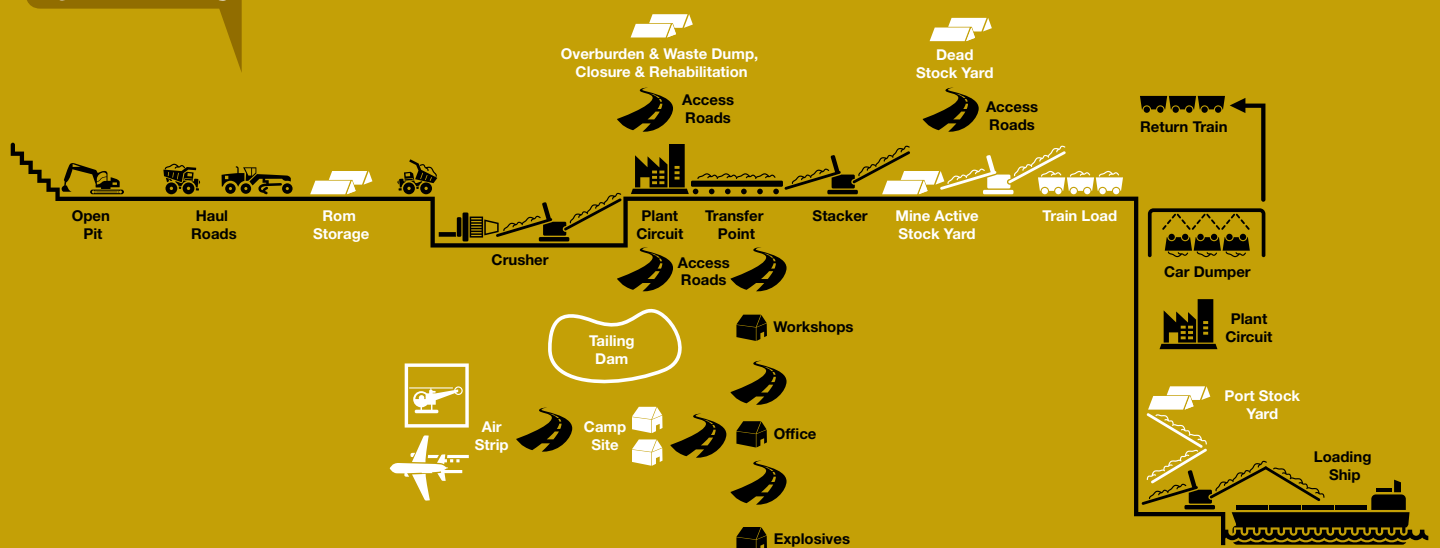


Mining Industry Solutions



Sand and Soil
Stabilisation
by
Hydromulching

Hydromulching



Sand and Soil Stabilisation by Hydromulching

Suppression of wind blown dust • Reduced soil erosion • Avoidance of EPA complaints
Containing stockpiles, embankments and tailings dams • Improved safety of site workers
Reduces watering costs, reallocation of water carts • Increased property prices

Rainstorm has the immediate solution to every dust problem.

Hydromulching is an extremely effective and economical method of binding sand and soil surfaces to prevent erosion and dust emissions, at the same time providing an ideal environment for seed germination and growth.

Benefits of Hydromulching

Depending on the situation, benefits include:

- Suppression of windblown dust
- Reduced soil erosion
- Containing stockpiles, embankments and tailings dams
- Accelerated germination / re-vegetation
- Avoidance of EPA complaints
- Compliance with development specifications
- Reduced watering costs, reallocation of water carts
- Minimisation of operational disruptions

- Improved safety of site workers
- Increased property prices
- Happier surrounding community
- Preserve surrounding flora and fauna
- Conserve valuable water supplies
- Mine site rehabilitation

Use of Hydromulching

Principally applied to large, sandy tracks of land such as those opened up by property and land developers, government departments, civil contractors and mining companies, Hydromulch is applied to suppress windblown dust, prevent wind erosion, improve appearances, and accelerate re-vegetation and/or environmental rehabilitation.

What is Hydromulch?

Typically, a mix of water 'hydro' with newsprint paper 'mulch', and other additives suited for the particular purpose. Additives might include selected seeds and fertilizers for re-vegetation, dyes for colouring the surface, and/or a variety of chemicals/emulsions such as Rainstorm's

Gluon240® (see separate documentation) for broadacre and stockpile stabilization.

How is Hydromulch Applied?

Using Rainstorm's specialized fleet of hydromulching vehicles, application is an economical 'one-step' process.

With so many vehicles Rainstorm can quickly and efficiently hydromulch large areas at short notice.

Rainstorm's hydromulching vehicles (mobile units) are all 4WD or 6WD to handle almost any terrain. (e.g. for particularly soft soil areas such as tailings dams we have a 4WD Mercedes 'dinosaur')

Each vehicle has a high capacity agitator tank in which all additives are thoroughly mixed with water.

Special binders and other additives may be incorporated to ensure success in otherwise difficult terrain.

The resulting slurry is usually sprayed on using specialized, high capacity water cannon; sometimes using fan or boom sprays; or by hand-held hose where necessary.

Using Rainstorm's specialized equipment and trained workforce you can be assured of a job



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well done first time.

Rainstorm vehicles can hydromulch many hectares per day, so when the notorious "Easterlies" blow in and your job site has turned into a sandstorm, Rainstorm can move quickly to solve the problem.

When to use Hydromulch?

Rainstorm has applied hydromulch to a wide variety of situations.

Often we are engaged by civil contractors who have opened up large, sandy areas to construct subdivisions. Rainstorm usually contains the raw sand with either paper mulch or Gluon® to enable development work to commence and to keep the surrounding neighbourhood 'dust free'.

As development nears completion and the blocks are about to go on the market, we are called in to re-apply mulch with green dye, seed and fertilizer added. This provides an attractive outlook for prospective land buyers.

How long will it last?

This depends on many factors such as the characteristics of the soil surface to be treated, climate patterns, chosen mix, and intention of the application.

Saving our precious resource

Without using Hydromulch construction sites and mine sites would be forced to use many thousands of litres of valuable water every single day to suppress dust. Just one application of Hydromulch can last many months.

Working with the environment

Application of Hydromulch is a specialised process requiring highly specialised equipment and proven techniques. As the WA leaders in construction site, broadacre, building, and stockpile dust control, Rainstorm understands that our natural habitat is a precious commodity and we strive to lead the way in 'Green technologies' with the use of natural and bio-degradable products to help protect the environment. Our solutions for large construction site dust control and site rehabilitation schemes are designed to have the least adverse impact on the environment.



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