



What we have
learnt about
tackling wind
erosion

Sand Stabilisation, Machinery and Clay



- The **Coorong Tatiara Local Action Plan** has a long history of working on wind erosion and stabilisation projects
- Is wind erosion an issue on your place?
- Have you had any successes or failures tackling it?



What we have learnt working on challenging sites

- Clays aren't always clays
- What are the options when there is no clay
- Machinery
- The end land use after stabilisation will vary
- Clay finding

.....some case studies

CLAY FINDING OPTIONS

- EM38
- Clay at depth
- Reading the landscape – with the assistance of local clay spreading contractors
- Apply a broad definition of 'clay'. For stabilisation works - depending on the available machine - it can be wet, saline or contain some rubble



CASE STUDY SITE: TINTINARA

- Did not think we would find clay
- Did not intend to return stabilised areas to agricultural use
- Site stabilisation and retirement



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36°00'55.11" S 140°00'01.86" E elev 104 ft

Eye alt 14626 ft

BEFORE **APRIL—MAY 2011**

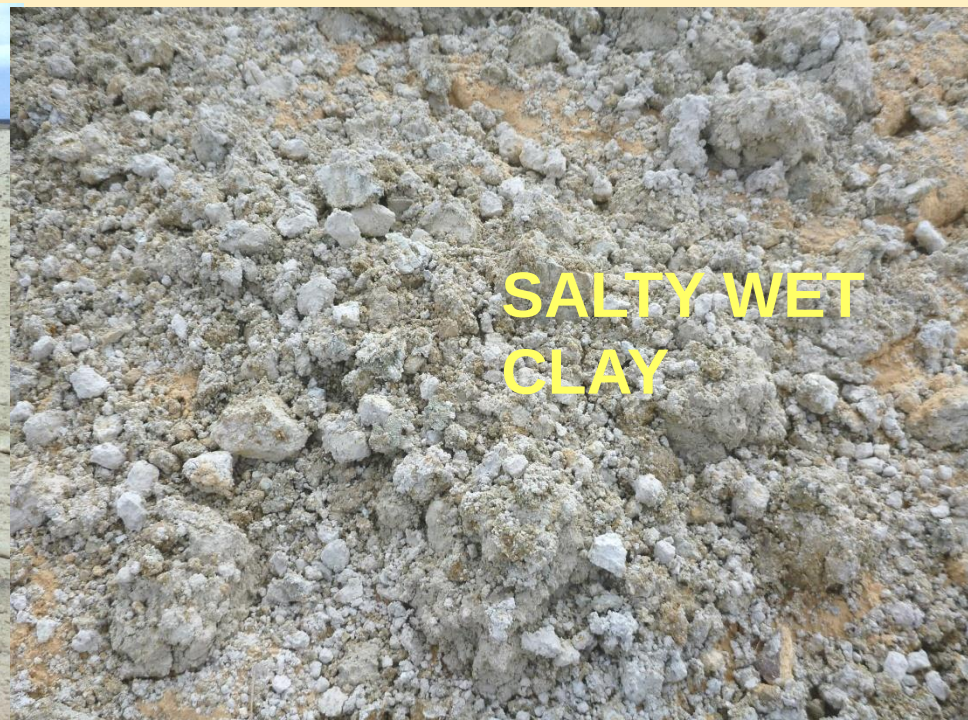
AFTER **SEPTEMBER 2012**





'CLAY' RUBBLE

Did not need to be high quality clay to stabilise fragile sandy soils



SALTY WET CLAY

Where there is no 'clay'.....

What else can be used to break up the wind energy?

How does the freight cost compare to freighting clay in?

Will there be any weed seed issues that need to be managed long term?

KILN DUST





MANURE SPREADING





OLIVE POMACE



SPRAY ON MULCH



MULCH



What else?

- branches
- waste hay and straw
- wool dags





BEFORE: Sandhill Stabilisation - Coombe

Sandhill Stabilisation, Coombe



Sandhill Stabilisation - Coombe

Using Waste Grain





Sandhill Stabilisation - Coombe

sown to a mixture of Rye Corn and Barley



AFTER: Sandhill Stabilisation - Coombe

THE MACHINES

Where clay is below the surface....**Delver** > **Bednar** v



< **Bednar** or Spader – to incorporate clay brought to the surface



Plozza and Mouldboard Ploughs > Have been used on some non wetting sands demo sites. Can increase wind erosion risk as it brings fragile sands to the surface.



THE MACHINES



Specialised Clay Spreader
capable of handling rubble
and wet clay



BEFORE: Wind erosion at Jabuk



Wind erosion at Jabuk

Smudge Bar or Land Plane

Double Ended Scraper





Wind erosion at Jabuk



BEFORE: Jabuk



DURING: Jabuk



AFTER: Jabuk after 18 months



FARM WORKSHOP INNOVATIONS





BEFORE: Blowout at Wirrega



Levelling at Wirrega



AFTER: Clay spread at Wirrega



Revegetation through direct seeding





Fodder Shrubs



END LAND USES?

Cropping

Grazing

Retirement

Revegetation

Fodder Shrubs

On fragile sites the best option may be to retire the site from production and in the longer term revegetate with hardy local native plants



Primary producers may be able to claim a deduction for capital expenditure on landcare related operations such as fencing and revegetation

[Click here to access further information on the Australian Taxation Office web site](#)

Seek advice from your accountant or financial adviser

