

**BENEFIT  
STATEMENT****Costing Analysis**

## MARKET SECTOR

**Multiple  
Industries**

## APPLICATION

**Deep In-situ  
and Thick Lift  
Compaction**

## PROJECT PHASE

**Design and  
Construction  
Phases**

## costing review following deep in-situ and thick lift impact compaction

## STATEMENT REVIEW

This statement is not applicable to a single project but the costing analysis could easily be linked to most projects and applications.

**Example 1**ORIGINAL CONSTRUCTION  
METHOD DESIGN

The design request is as follows:

- Clear and Grub.
- Excavate to 1m below surface to stockpile.
- Level and compact in-situ surface.
- Reintroduce stockpiled material in 200mm layers.

ALTERNATIVE CONSTRUCTION  
METHODOLOGY

The alternative construction method is as follows:

- Clear and Grub.
- Compact directly on the surface without any excavation with a 25kJ Impact Compactor with a minimum of 30 roller passes.
- Compact with a smooth drum vibratory roller, minimum of 4 roller passes.

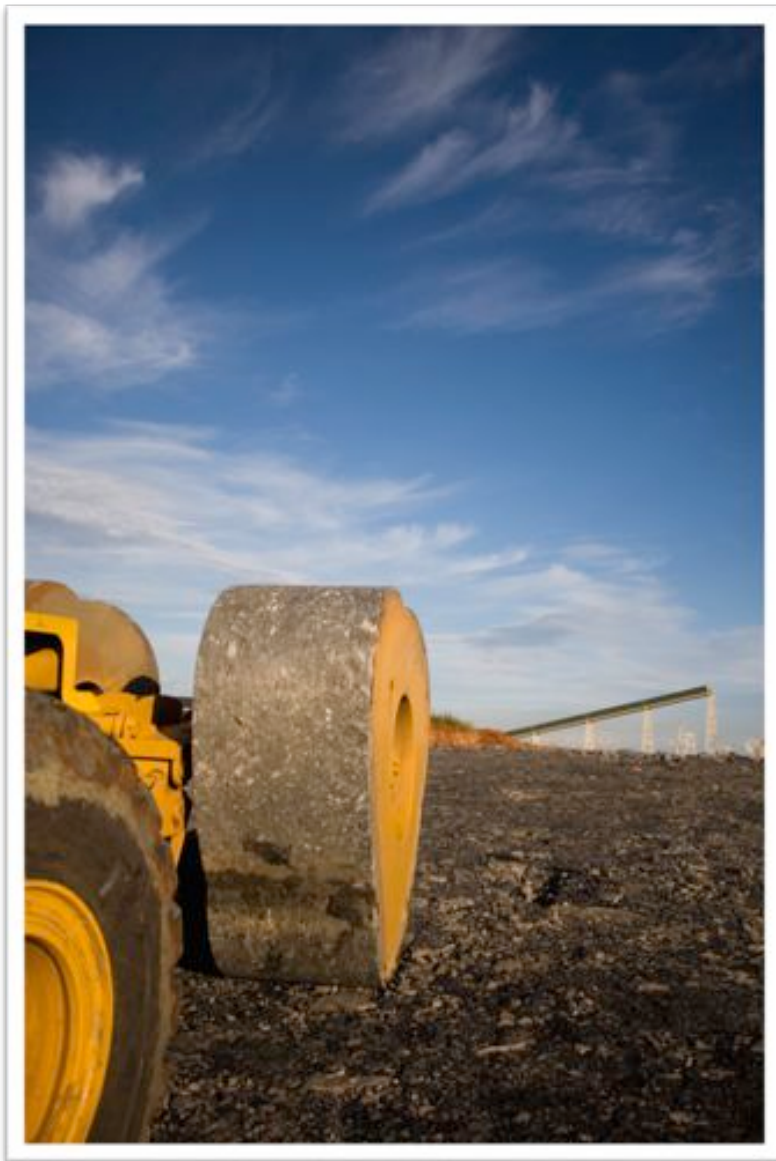
**UP TO 70% COST  
SAVINGS.**

## Example 2

### ORIGINAL CONSTRUCTION METHOD DESIGN

The design request is as follows:

- Clear and Grub.
- Excavate to 2m below surface to stockpile.
- Level and compact in-situ surface.
- Reintroduce stockpiled material in 200mm layers.



### ALTERNATIVE CONSTRUCTION METHODOLOGY

The alternative construction method is as follows:

- Clear and Grub.
- Excavate to 1m below surface.
- Compact the in-situ with a 25kJ Impact Compactor with a minimum of 30 roller passes.
- Re-introduce the stockpiled material in a single 1000mm layer and treat with a 25kJ Impact Compactor with a minimum of 20 roller passes.
- Compact with a smooth drum vibratory roller, minimum of 4 roller passes.

**UP TO 52% COST SAVINGS.**

### SUMMARY

- Reduction in excavation costs and time.
- Reduction in material to be stockpiled.
- Reduction in compacting layers.
- Reduction in water requirements.
- Time and Cost Savings.