

BAT (Best Available Technology)

It was very interesting to be given a BAT Analysis from a UK contractor for a recent RoadCem soil stabilisation project.

The sustainable advantages of RoadCem technology is well researched and documented and we have many reports to substantiate this. The Summary however for an 8,000 m2 working platform to be used for a two-year construction project, explains them so much better. We have left out the contractor's details and individual cost calculations.

	Traditional Stone	With RoadCem
Options:	Excavate and remove existing top soils and	RoadCem In-Situ stabilisation of existing
-	import Type 1 Capping layer	soils
Environment:	Volume of waste 3750 m3 + 15% additional	Increase surface water run-off in to
	import of replacement stone until 2019	swale/trap with weekly monitoring and
	Total 4312 m3	capture if necessary.
H & S:	Increased vehicle movements to and from	Specialist contractor needed for
	site	installation.
Resource & Carbon:	Import of quarried stone for capping,	Cement and specialist plant for
	deliveries to and from site and Excavator/	stabilisation.
	Vibrating Roller	
Nuisance:	215 vehicle movements of stone to site and	Limited nuisance after few trucks with
	239 movements off site with contaminated	specialist plant and binder.
	stone waste through local village. (end of	
	project) Dust and road damage/cleaning due	
	to nature of compacted stone, disruption to	
	neighbours.	
Maintenance:	Ongoing during the life of the working	None anticipated.
	compound especially after rain.	
Programme:	1 week to strip site	2 weeks total to install
	2 weeks to import stone	1 week to remediate on contract
	1 week to lay and compact stone	completion
	3 weeks to remediate at contract completion	
Total Costs:	5274 000 00	5150 000 00
Total Costs:	£274,000.00	£160,000.00
Scoring for BAT compar	ison exercise is based on 1 being the most benef	ficial and 5 being the least
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	Traditional Stone	With RoadCem
Environment:	4	2
H & S:	3	3
Resource & Carbon:	5	1
Nuisance:	5	1
Maintenance:	4	1
Programme:	4	2
Costs:	4	3
Tatal Canas	22	45
Total Scores:	32	15