

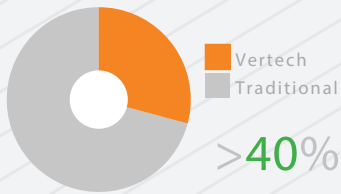
Vertech Case Study Alternative Access (DSL Jetty)

ENGINEERED SUSPENSION DECK

VERTECH ACCESS VS TRADITIONAL

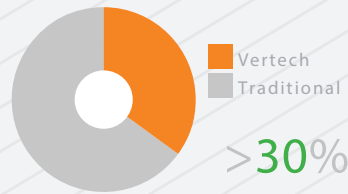
FASTER ACCESS

MAN DAY COMPARISONS



COST EFFECTIVE

COST COMPARISONS



1 Access Solution

The engineered suspension deck provided a complete encapsulated working area for blasting and paint works to be carried out. System is being used on a rolling work front basis.

Design of the system allowed weight loading to be spread across the pylons rather than hanging from the under structure of the jetty which had been de-rated in recent years due to the extensive corrosion.

2 Coating Remediation

Sponge jet technology was utilized for safe removal of the existing coating which contained high levels of lead.

This was done with a reusable blast media which is continuously recycled via a self-contained vacuum recovery system which filters out the fines and lead contaminated waste into sealed 204Ltr drums which are then sealed ready for collection by licenced removalists.

3 Conclusion

The engineered suspension deck provided an articulate access system to the unique requirements of the structure and encompassed a fully encapsulated habitat which contained any airborne contaminants from personnel operating on the jetty and the immediate environment.

Environmental monitoring throughout the entire process showed airborne contaminant levels well below the recommended national exposure standard. Zero disruption to working functions of jetty thus resulting in No loss of production to the client.

Comparison Table: Engineered Deck vs. Traditional Scaffold

TYPICAL SPECIFICATION	30m x 10m SCAFFOLD 1.5 kN/m ²	30m x 10m ENGINEERED DECK 1.5 kN/m ²	ENGINEERED DECK PRODUCT BENEFITS	CLIENT RESULT BY USING ENGINEERED DECK
Total time man days (rig & de-rig)	120	50	<ul style="list-style-type: none"> • 40% time savings min. • 30% cost savings min. 	<ul style="list-style-type: none"> • Faster access • Cost-effective access • Reduced requirement for safety boat cover
Hung Weight	42t	5.1t	<ul style="list-style-type: none"> • 8 x Lighter 	<ul style="list-style-type: none"> • Reduces the stress on the structure • Lowers risk of weight restriction excess • Provides full access to pipe bridges and other weaker structures. • Reduces manual handling risk
Storage volume	125m ³	32m ³	<ul style="list-style-type: none"> • 75% less volume 	<ul style="list-style-type: none"> • Minimises transportation logistics • Minimises storage of product on site
Contact Points & Droppers	590	72	<ul style="list-style-type: none"> • 87% less contact points 	<ul style="list-style-type: none"> • Improves quality of paintwork • Extends life of assets • Reduces time spent returning for touch up for contact points
UDL Range kN/m ²	0.75-2.5	0.5-5.0	<ul style="list-style-type: none"> • Stronger 	<ul style="list-style-type: none"> • Withstands high winds • Withstands waves
Total time man days (rig & de-rig)	120	50	<ul style="list-style-type: none"> • 55% reduction in exposure to Work at Height 	<ul style="list-style-type: none"> • Increased Safety
Factor of Safety (FoS)	Typically 1.6:1	4:1 structural 3:1 Deck	<ul style="list-style-type: none"> • 2 x FoS 	

