

Clyde Terminal Western Area Remediation Project

The Western Area

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The Western Area is approximately 40 hectres (ha) in land size and was previously used for refining operations including hydrocarbon processing, fuel storage and transfer.

Long-term and historical use has resulted in contamination impacts to the soils and groundwater.

Following completion of the remaining demolition activities, Viva Energy intends to commence environmental remediation of the Western Area to ensure the site meets the current standards for Commercial/Industrial land use.

Works Plan

The project is expected to take approximately three years to complete involving a number of stages that will run concurrently. In general, five main stages are involved:

STAGE 1 STAGE 2 STAGE 3 STAGE 4 STAGE 5 **Preparation works** to set up the works area including the installation of temporary erosion and sediment controls **Duration:** three months

Removal of redundant infrastructure and wastes such as underground redundant pipework and concrete to clear and prepare the area for remediation **Duration:** up to 36 months

Remediation including setting up the areas and trialing specific remediation methods **Duration:** up to 28 months

Landforming of the area to return to current levels **Duration:** 22 months

Completion works and demobilisation including the progressive removal of plant and equipment

About the Remediation Works

The remediation will be focussed at shallow depths of the site. It is estimated that approximately 105,000m3 of soils require remediation.

The type of remediation involved will depend on the nature and extent of the contaminants found and will be across targeted areas of the Western Area.

Environmental Impact Statement

The Environmental Impact Statement (EIS) has found that the Project can proceed with minimal and manageable risk to the community and the environment.

The EIS is a comprehensive document requiredas part of the development approvals process, to address potential impacts of the Project. It includes extensive studies with modelling and data on potential impacts including soil and groundwater, environmental, noise, air quality and traffic.

Key findings of the EIS

Potential Impacts	;	Measures to mitigate or manage potential impacts
Soil and Ground	water	
 Movement and contaminated s excavation Erosion to soils impact the env 	disturbance of soils including could potentially ironment	 Implementation of the measures detailed in the NSW Government's 'Blue book' Management Plans Erosion controls on the final landform, including swales and grassing
Air Quality and Q	Ddour	
 Impacts were b NSW EPA crite exception of pa PM2.5 and PM' odour The largest PM from the direct (DTD) unit plan mobile crushing 	elow the relevant ria with the articulate matter 10 and at times, 2.5 contributors are thermal desorption t screen and the g plant	 To reduce these predicted impacts: An enclosure on the DTD plant screen with water sprays placed on the outlet Use of a particulate filter on the mobile crushing plant Air quality may be monitored during the project
Noise and Traffic		
 Noise levels get throughout all project were pr well below the Management L Traffic modelin the Project will on the level of intersections 	nerated stages of the edicted to be applicable Noise evels for all hours g predicted that have no impact service for key	• A Traffic Management Plan will be in place and include routes for heavy and private vehicles to access the Western Area
Ecology and Her	itage	
 Fauna habitat t within the Proje little value and currently prese high quality ha threatened fau The Lower Duc and key popula and Golden Be 	hat is present ect Area is of any vegetation nt does not support bitats for locally na k River Wetlands ition of Green II Frog centered tland present in	• Direct impacts from the former Conversion Project to the heritage value of the former Clyde Refinery have already been mitigated by previous archival recordings as part of the Conversion Project

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