

Project	Dorado Development Project						
Package Title	Geophysical and Geotechnical Works						
Reference Number	SAN-DOR-001						
Package Description	The Dorado Project is a greenfield oil development located offshore WA approximately 150km northwest of Port Hedland comprising of a Floating Production Storage and Offloading vessel (FPSO), Wellhead platform (WHP) and various subsea (SURF) equipment.						
	Geophysical and Geotechnical Study work is required to provide seabed characteristics input into the piling design and installation philosophy for the WHP, FPSO piles and Subsea Flowlines and Umbilicals.						
	<b>Scope of Work:</b> A detailed site investigation is to be performed, to gather the information required for the engineering design work to support the geotechnical interfaces of the development infrastructure. The geotechnical testing and sampling requirements envisaged are Cone Penetration Tests (CPTs) and boreholes to assist with the design for Wellhead Platform (WHP) foundations and FPSO mooring anchor piles.						
	In addition to the geotechnical scope, limited optional geophysical survey work may be required at the FPSO mooring anchor pile locations and along the flowline and umbilical route in areas which have not been covered by the existing surveys.						
	Site Information:						
	At the proposed Dorado facilities location, the bathymetric su indicates the water depth across the area ranges from 85 to 9 LAT, gently increasing towards north. The seafloor is generall (<1° gradient) and the only noticeable features are sand rible and ripples.						
	In terms of stratigraphy, three soil layers are identified across the survey areas. The table below provides a summary of the soil units.						
	Soil Unit	TOP Depth (m)	BOTTOM Depth (m)	Description			
	A	0	1 – 4.5	Uncemented surficial carbonate SAND			
	В	1 – 4.5	5 – 19	Partly cemented carbonate SAND			
	С	5 – 19	-	Variably cemented carbonate SAND / CALCARENITE			



	Geotechnical Testing and Sampling Requirements						
	The testing and sampling geotechnical requirements envisaged are Cone Penetration Tests (CPTs) and boreholes summarised below.						
	Facility	Target Depth (m)	Testing (CPT)	Sampling (Borehole)			
	WHP	100	4 x CPT	1 x BH			
	FPSO	50	6 x CPT	4 x BH			
	Flowlines & Umbilical	3	4 x CPT	4 x BH			
	Intact and undisturbed (as far as is practicable) core samples from boreholes will be transported to laboratory for testing and interpretation to develop design input parameters.						
Specifications and Standards	Compliance with National, International and Industry Standards, Australian and WA Regulatory requirements.						
Delivery Place (if applicable)	Supplier is required to undertake the works at and around the WHP proposed location.						
Full Scope Expression of Interest Closing Date	2 March 2020						
Supplier Instructions	Supplier(s) are to express interest via <u>ICN Gateway</u> where competency and previous positive experiences for similar projects can be demonstrated for equipment of a similar size and service.						
	Supplier(s) will only be considered for receipt of the Tender if deemed suitably qualified by the Company's Procurement Entity.						
Contact	All initial enquiries should be made through the Industry Capability Network Western Australia.						
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URL	For more information about Santos please refer to their website www.santos.com						