

SEDIMENTOLOGY LAB

PARAMETER/TEST	METHOD/EQUIPMENT	TECNHICAL STANDARD	ACCREDITED?
PHYSICAL TESTS			
Grain-size analysis	Sieving	NT.LB.22 v01.02 (based on NP EN 933-1:2014)	Yes
	Laser diffraction	NT.LB.23 v02.03 (based on ISO 13320-1:2021	Yes
	Dynamic image analysis	ISO 13322-2:2021	Yes
Water content	Gravimetry	ISO 17892-1:2014	Yes
Particle density	Pycnometer in liquid	ISO 17892-3:2015	Yes
Bulk and dry density	Gravimetry	ISO 17892-2:2014	No
Atterberg limits	Casagrande shell	ISO 17892-12:2018	No
	Penetrometer		
Electrical resistivity in corer	Soil Resistivity Meter – 400A	ASTM G57-20	No
P waves	Pundit Lab	Technical Note 26 - Blum, P., 1997. Physical properties handbook.	No
Magnetic susceptiblity in corer	Bartington MS2C	Technical Note 26 - Blum, P., 1997. Physical properties handbook.	No
In-situ test	Ligth dynamic penetrometer	penetration test up 3m deep on beaches	No
TRIAXIAL TEST			
Triaxial compression test (UU, CU, CD)	Triaxial cell	ISO 17892-8:2018 ISO 17892-9:2018	No
VANE TEST			
Automatic Vane test	Automatic Vane	ISO 22476-9:2020	No
Hand Vane test	Hand Vane	-	No
PERMEABILITY TEST			
Permeability	Triaxial cell	ISO 17892-11:2019	No
CONSOLIDATION TEST			
Consolidation	CRS vell	ISO 17892-5:2017	No
		ASTM D4186/D4186M-20e1	
COMPOSICIONAL ANALYSIS			
Mineralogy	XR diffraction	NT.LB.96 v.00	No
	Optical methods (coarse fractions)		No
Elemental geochemical analysis	X-ray Fluorescence		No
Total Organic Carbon Content	Infrared absorption spectrometry	NT.LB.26 v.03.02	Yes
Total Inorganic Carbon Content (CaCO ₃ content)	Infrared absorption spectrometry	NT.LB.29 v.03.02	Yes
Total Nitrogen Content	Thermoconductivity	ISO 13878:1998 ver. 2020	No