

Rock Engineering & Testing Lab. Inc 6817 Leopard Street Corpus Christi, Texas 78409 Telephone: 361-883-4555

Qc - STATIC CONE PENETROMETER TEST INDEX

P - POCKET PENETROMETER RESISTANCE

Tv - TORVANE SHEAR STRENGTH TEST

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CLIENT: Mott MacDonald, LLC

PROJECT: Children's Beach Shoreline Protection

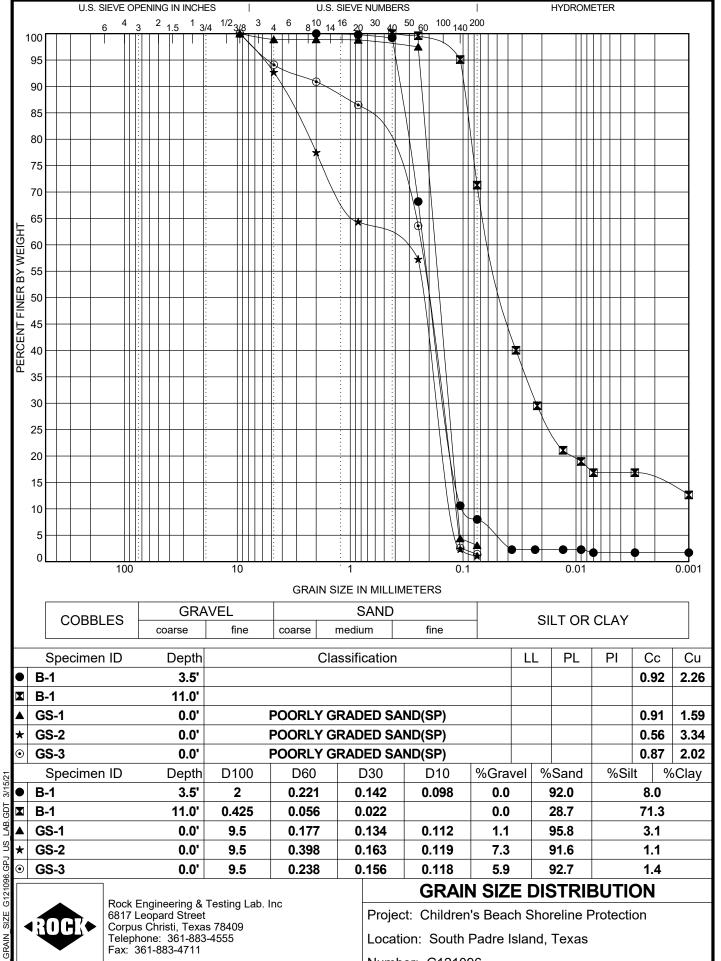
LOCATION: South Padre Island, Texas

Drilling operations were performed by RETL at GPS Coordinates N° 26.06782 W° 97.16252

Location: Approximately 20 feet inland of water's edge.

NUMBER: G121096

FIEL										DATE(0) DDULED 0/00/0004	
FIEL			Fax: 361-883-4711							DATE(S) DRILLED: 2/23/2021	
''	LABORATORY DATA							DRILLING METHOD(S):			
				ATTERBERG LIMITS						Grab Sample	
SOIL SYMBOL DEPTH (FT)	SAMPLE NUMBER SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT Qc: TONS/SQ FT	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ FT)	MINUS NO. 200 SIEVE (%)	GROUNDWATER INFORMATION:	
PTH	SAMPLE N	3LOV ONS ONS TON	JIST	LIQI	PLA	PLA	Y DE	MPR RENG NS/8	SO	SURFACE ELEVATION: N/A	
	1	X G F Q	M	LL	PL	PI	DR	ST TC	Σ	DESCRIPTION OF STRATUM	
	GRAB S-1		9	NP	NP	NP			1	POORLY GRADED SAND, brown, moist. (SP)	
										Grab Sample was terminated at a depth of 1 foot.	





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GRAIN SIZE DISTRIBUTION

Project: Children's Beach Shoreline Protection

Location: South Padre Island, Texas

Number: G121096



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Field Classification for "Consistency" is determined with a 0.25" diameter penetrometer

			KEY TO S	SOIL CLASSIFICATION AND S	YMBOLS		
	UNIFIE	SOIL CLASS	TERMS CHARACTERIZING SOIL				
MAJOR D	IVISIONS	SYMBOL		NAME	STRUCTURE		
		GW	Well Graded Gra little or no fines	avels or Gravel-Sand mixtures,	SLICKENSIDED - having inclined planes of weakness that are slick and glossy in appearance FISSURED - containing shrinkage cracks, frequently filled with fine sand or silt; usually more or less vertical LAMINATED (VARVED) - composed of thin layers		
	GRAVEL AND	GP	Poorly Graded 0 little or no fines	Gravels or Gravel-Sand mixture			
	GRAVELLY SOILS	GM 0	Silty Gravels, G	ravel-Sand-Silt mixtures			
COARSE GRAINED		GC	Clayey Gravels,	Gravel-Sand-Clay Mixtures	of varying color and texture, usually grading from sand or silt at the bottom to clay at the top CRUMBLY - cohesive soils which break into small blocks or crumbs on drying		
SOILS	SAND AND SANDY SOILS	sw	Well Graded Sa fines	nds or Gravelly Sands, little or			
		SP	Poorly Graded S no fines	Sands or Gravelly Sands, little o	CALCAREOUS - containing appreciable quantities of calcium carbonate, generally nodular		
		SM	Silty Sands, Sar	nd-Silt Mixtures	WELL GRADED - having wide range in grain sizes and substantial amounts of all intermediate particle sizes POORLY GRADED - predominantly of one grain size uniformly graded) or having a range of sizes with some intermediate size missing (gap or skip graded)		
		sc ///	Clayey Sands, S	Sand-Clay mixtures			
		ML	Inorganic Silts a Silty or Clayey fi	nd very fine Sands, Rock Flou ne Sands or Clayey Silts			
	SILTS AND CLAYS LL < 50	CL	Inorganic Clays Gravelly Clays, Clays	of low to medium plasticity, Sandy Clays, Silty Clays, Lean	SYMBOLS FOR TEST DATA		
FINE GRAINED		OL	Organic Silts an plasticity	d Organic Silt-Clays of low	— Groundwater Level (Initial Reading) — Groundwater Level		
SOILS	SILTS AND CLAYS LL > 50	мн	Inorganic Silts, I Sandy or Silty so	Micaceous or Diatomaceous fir oils, Elastic Silts			
		СН	Inorganic Clays	of high plasticity, Fat Clays	SPT Samples		
		он 💥	Organic Clays o Organic Silts	f medium to high plasticity,	— Auger Sample		
HIGHLY (PT 4 4 4 1	Peat and other I	Highly Organic soils	Rock Core		
			TERMS [DESCRIBING CONSISTENCY	OF SOIL		
	COARSE	BRAINED SOIL	FINE GRAINED SOILS				
	RIPTIVE ERM		BLOWS/FT. DARD PEN. TEST	DESCRIPTIVE TERM	NO. BLOWS/FT. STANDARD PEN. TEST UNCONFINED COMPRESSION TONS PER SQ. FT.		
Very Loose Loose Medium Dense Very Dense		- ;	0 - 4 4 - 10 10 - 30 30 - 50 over 50	Very Soft Soft Firm Stiff Very Stiff Hard	< 2		