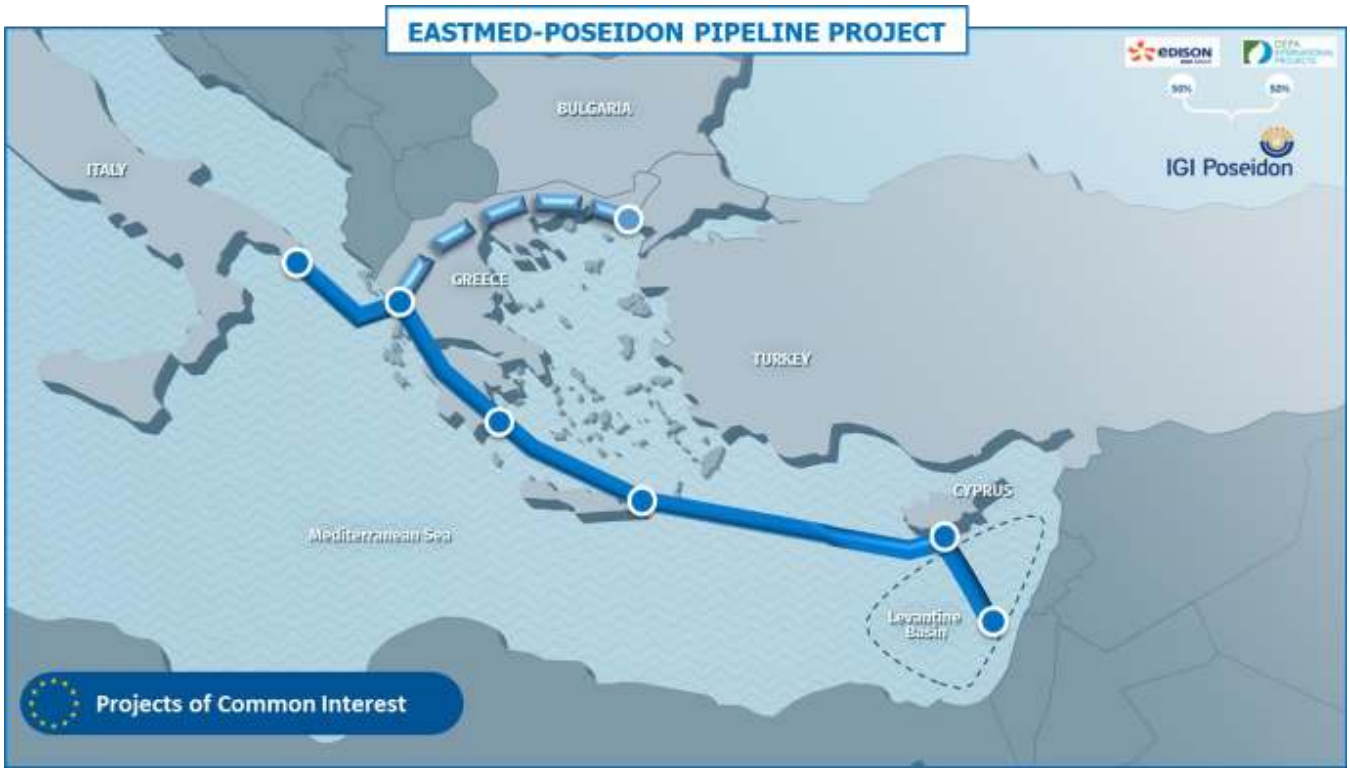
PROJECT:

EastMed Pipeline Project



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Abbreviations

Abbreviation	Description
ESIA	Environmental and Social Impact Assessment
KP	Kilometric Point
LF	Landfall
SPT	Standard Penetration Test

ANNEX 8 M ADDITIONAL DATA FOR GEOLOGICAL, GEOTECHNICAL AND GEOHAZARD CHARACTERISTICS

8 M.1. INTRODUCTION

At the following tables the geological formations along the onshore route is presented. Specifically at Table M-1 and Table M-2 the geological formations along CCS1 and CCS2 respectively are presented.

8 M.1.1. Geological data alongside the onshore route

Table M-1 Geological data, and in scale 1:10,000, of the geological formations along the CCS1 of the EastMed Pipeline route

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
1	0.0	222.2	222.20	Pleistocene marine and lacustrine deposits.
2	222.2	667.6	445.40	Alluvial unconsolidated deposits
3	667.6	1736.2	1068.60	Al-bearing clastic rocks of conglomerates, sandstones and shales.
4	1736.2	1944.8	208.60	Medium to thick bedded limestones, dolomitic limestones and dolomites.
5	1944.8	2277.6	332.80	Al-bearing clastic rocks of conglomerates, sandstones and shales.
6	2277.6	2581.9	304.30	Medium to thick bedded limestones, dolomitic limestones and dolomites.
7	2581.9	2703.8	121.90	Al-bearing clastic rocks of conglomerates, sandstones and shales.
8	2703.8	7781.6	5077.80	Thin to thick bedded limestones & dolomitic limestones
9	7781.6	8862.5	1080.90	Phyllites, schists and quartzites with small occurrences of marbles.
10	8862.5	8957.4	94.90	Thin to thick bedded limestones & dolomitic limestones
11	8957.4	12631.7	3674.30	Phyllites, schists and quartzites with small occurrences of marbles.
12	12631.7	13302.2	670.50	Al-bearing clastic rocks of conglomerates, sandstones and shales.
13	13302.2	14631.0	1328.80	Phyllites, schists and quartzites with small occurrences of marbles.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
14	14631.0	15525.1	894.10	Medium to thick bedded limestones, dolomitic limestones and dolomites.
15	15525.1	15842.4	317.30	Al-bearing clastic rocks of conglomerates, sandstones and shales.
16	15842.4	15979.5	137.10	Alluvial unconsolidated deposits
17	15979.5	16058.3	78.80	Al-bearing clastic rocks of conglomerates, sandstones and shales.
18	16058.3	16253.6	195.30	Medium to thick bedded limestones, dolomitic limestones and dolomites.
19	16253.6	16361.3	107.70	Phyllites, schists and quartzites with small occurrences of marbles.
20	16361.3	19138.9	2777.60	Medium to thick bedded limestones, dolomitic limestones and dolomites.
21	19138.9	19840.8	701.90	Scree and talus cones
22	19840.8	20066.1	225.30	Al-bearing clastic rocks of conglomerates, sandstones and shales.
23	20066.1	20322.0	255.90	Medium to thick bedded limestones, dolomitic limestones and dolomites.
24	20322.0	21207.7	885.70	Scree and talus cones
25	21207.7	21348.5	140.80	Pleistocene fluvial terrestrial and lacustrine deposits.
26	21348.5	21558.4	209.90	Medium to thick bedded limestones, dolomitic limestones and dolomites.
27	21558.4	21845.5	287.10	Al-bearing clastic rocks of conglomerates, sandstones and shales.
28	21845.5	23071.2	1225.70	Pleistocene fluvial terrestrial and lacustrine deposits.
29	23071.2	23270.7	199.50	Scree and talus cones
30	23270.7	23367.8	97.10	Medium to thick bedded limestones, dolomitic limestones and dolomites.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
31	23367.8	23780.3	412.50	Volcanites of altered porphyritic lavas, tuffs, tuffites and volcanic breccias
32	23780.3	24157.8	377.50	Scree and talus cones
33	24157.8	24811.7	653.90	Volcanites of altered porphyritic lavas, tuffs, tuffites and volcanic breccias
34	24811.7	25048.7	237.00	Scree and talus cones
35	25048.7	25968.0	919.30	Volcanites of altered porphyritic lavas, tuffs, tuffites and volcanic breccias
36	25968.0	26218.1	250.10	Thin to thick bedded limestones with dolomitized limestones -dolomites.
37	26218.1	27173.0	954.90	Pleistocene fluvial terrestrial and lacustrine deposits.
38	27173.0	27941.9	768.90	Ps-Tm.k: Thin to thick bedded limestones with oolitic horizons
39	27941.9	28181.7	239.80	Volcanites of altered porphyritic lavas, tuffs, tuffites and volcanic breccias
40	28181.7	28298.2	116.50	Ophiolites of ultrabasic plutonic and basic volcanic rocks
41	28298.2	29432.5	1134.30	Volcanites of altered porphyritic lavas, tuffs, tuffites and volcanic breccias
42	29432.5	38887.8	9455.30	Alluvial unconsolidated deposits
43	38887.8	41444.0	2556.20	Scree and talus cones
44	41444.0	47693.6	6249.60	Medium to thick bedded limestones, dolomitic limestones and dolomites.
45	47693.6	48436.3	742.70	Volcanites of altered porphyritic lavas, tuffs, tuffites and volcanic breccias
46	48436.3	49119.1	682.80	Medium to thick bedded limestones, dolomitic limestones and dolomites.
47	49119.1	50643.9	1524.80	Volcanites of altered porphyritic lavas, tuffs, tuffites and volcanic breccias

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
48	50643.9	55914.9	5271.00	Medium to thick bedded limestones, dolomitic limestones and dolomites.
49	55914.9	56169.7	254.80	Thin to thick bedded limestones & dolomitic limestones
50	56169.7	56744.8	575.10	Medium to thick bedded limestones, dolomitic limestones and dolomites.
51	56744.8	61702.1	4957.30	Continental cohesive breccio-conglomerates
52	61702.1	61997.4	295.30	Lacustrine formations of marls, clays, loams and lignite
53	61997.4	62108.0	110.60	Continental cohesive breccio-conglomerates
54	62108.0	62248.3	140.30	Lacustrine formations of marls, clays, loams and lignite
55	62248.3	63693.0	1444.70	Continental cohesive breccio-conglomerates
56	63693.0	64092.4	399.40	Lacustrine formations of marls, clays, loams and lignite
57	64092.4	64350.7	258.30	Continental cohesive breccio-conglomerates
58	64350.7	77781.6	13430.90	Lacustrine formations of marls, clays, loams and lignite
59	77781.6	78668.8	887.20	Phyllites, schists and quartzites with small occurrences of marbles.
60	78668.8	79802.3	1133.50	Thin to thick bedded limestones & dolomitic limestones
61	79802.3	80611.9	809.60	Phyllites, schists and quartzites with small occurrences of marbles.
62	80611.9	81452.0	840.10	Thin to thick bedded limestones & dolomitic limestones
63	81452.0	81749.8	297.80	Phyllites, schists and quartzites with small occurrences of marbles.
64	81749.8	82853.0	1103.20	Crystalline platy limestones to marbles.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
65	82853.0	85066.0	2213.00	Limestone to marls with chert inrtercalations.
66	85066.0	86187.2	1121.20	Crystalline platy limestones to marbles.
67	86187.2	86977.0	789.80	Limestone to marls with chert inrtercalations.
68	86977.0	87256.0	279.00	Scree and talus cones
69	87256.0	88529.7	1273.70	Limestone to marls with chert inrtercalations.
70	88529.7	89904.8	1375.10	Crystalline platy limestones to marbles.
71	89904.8	90235.6	330.80	Crystalline platy limestones to marbles.
72	90235.6	90586.7	351.10	Crystalline platy limestones to marbles.
73	90586.7	93999.8	3413.10	Crystalline platy limestones to marbles.
74	93999.8	94455.0	455.20	Phyllites, schists and quartzites with small occurrences of marbles.
75	94455.0	95074.8	619.80	Crystalline platy limestones to marbles.
76	95074.8	96687.0	1612.20	Phyllites, schists and quartzites with small occurrences of marbles.
77	96687.0	97552.6	865.60	Alluvial unconsolidated deposits
78	97552.6	100532.6	2980.00	Phyllites, schists and quartzites with small occurrences of marbles.
79	100532.6	100806.8	274.20	Medium to thick bedded limestones, dolomitic limestones and dolomites.
80	100806.8	101030.2	223.40	Phyllites, schists and quartzites with small occurrences of marbles.
81	101030.2	101246.9	216.70	Pleistocene fluvial terrestrial and lacustrine deposits.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
82	101246.9	101451.4	204.50	Alluvial unconsolidated deposits
83	101451.4	101644.0	192.60	Pleistocene fluvial terrestrial and lacustrine deposits.
84	101644.0	102203.4	559.40	Medium to thick bedded limestones, dolomitic limestones and dolomites.
85	102203.4	102428.1	224.70	Phyllites, schists and quartzites with small occurrences of marbles.
86	102428.1	102498.4	70.30	Alluvial unconsolidated deposits
87	102498.4	103142.1	643.70	Pleistocene fluvial terrestrial and lacustrine deposits.
88	103142.1	103400.0	257.90	Phyllites, schists and quartzites with small occurrences of marbles.
89	103400.0	103512.0	112.00	Limestones, schists and marbles
90	103512.0	103635.2	123.20	Medium to thick bedded limestones, dolomitic limestones and dolomites.
91	103635.2	103745.0	109.80	Limestones, schists and marbles
92	103745.0	104369.9	624.90	Medium to thick bedded limestones, dolomitic limestones and dolomites.
93	104369.9	104458.0	88.10	Limestones, schists and marbles
94	104458.0	104495.5	37.50	Phyllites, schists and quartzites with small occurrences of marbles.
95	104495.5	104561.0	65.50	Alluvial unconsolidated deposits
96	104561.0	104703.3	142.30	Phyllites, schists and quartzites with small occurrences of marbles.
97	104703.3	105279.3	576.00	Limestones, schists and marbles
98	105279.3	105707.4	428.10	Medium to thick bedded limestones, dolomitic limestones and dolomites.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
99	105707.4	106794.7	1087.30	Limestones, schists and marbles
100	106794.7	107055.6	260.90	Medium to thick bedded limestones, dolomitic limestones and dolomites.
101	107055.6	107309.6	254.00	Limestones, schists and marbles
102	107309.6	107329.3	19.70	Medium to thick bedded limestones, dolomitic limestones and dolomites.
103	107329.3	107391.3	62.00	Alluvial unconsolidated deposits
104	107391.3	107560.9	169.60	Medium to thick bedded limestones, dolomitic limestones and dolomites.
105	107560.9	109592.4	2031.50	Pleistocene fluvial terrestrial and lacustrine deposits.
106	109592.4	109792.8	200.40	Scree and talus cones
107	109792.8	110063.8	271.00	Pleistocene fluvial terrestrial and lacustrine deposits.
108	110063.8	110548.2	484.40	Alluvial unconsolidated deposits
109	110548.2	111608.8	1060.60	Pleistocene fluvial terrestrial and lacustrine deposits.
110	111608.8	111826.3	217.50	Alluvial unconsolidated deposits
111	111826.3	112733.8	907.50	Pleistocene fluvial terrestrial and lacustrine deposits.
112	112733.8	112932.9	199.10	Alluvial unconsolidated deposits
113	112932.9	113236.7	303.80	Pleistocene fluvial terrestrial and lacustrine deposits.
114	113236.7	113342.5	105.80	Alluvial unconsolidated deposits
115	113342.5	115254.8	1912.30	Pleistocene fluvial terrestrial and lacustrine deposits.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
116	115254.8	116667.2	1412.40	Scree and talus cones
117	116667.2	116784.4	117.20	Alluvial unconsolidated deposits
118	116784.4	117629.4	845.00	Scree and talus cones
119	117629.4	118462.4	833.00	Platy limestones with layers or nodules of red-black silex
120	118462.4	118598.8	136.40	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
121	118598.8	119963.7	1364.90	Tripolis Flysch of grey marls, sandstones, limestone lenses and conglomerates
122	119963.7	120432.1	468.40	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
123	120432.1	122526.3	2094.20	Platy limestones with layers or nodules of red-black silex
124	122526.3	122790.8	264.50	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
125	122790.8	127562.9	4772.10	Tripolis Flysch of grey marls, sandstones, limestone lenses and conglomerates
126	127562.9	128544.7	981.80	Alluvial unconsolidated deposits
127	128544.7	129362.3	817.60	Tripolis Flysch of grey marls, sandstones, limestone lenses and conglomerates
128	129362.3	133848.4	4486.10	Platy limestones with layers or nodules of red-black silex
129	133848.4	134636.5	788.10	Alluvial unconsolidated deposits
130	134636.5	136962.3	2325.80	Platy limestones with layers or nodules of red-black silex
131	136962.3	137176.5	214.20	Tripolis Flysch of grey marls, sandstones, limestone lenses and conglomerates
132	137176.5	137652.0	475.50	Lacustrine formations of marls, clays, loams and lignite layers.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
133	137652.0	137784.0	132.00	Platy limestones with layers or nodules of red-black silex
134	137784.0	138142.6	358.60	Lacustrine formations of marls, clays, loams and lignite layers.
135	138142.6	138690.9	548.30	Tripolis Flysch of grey marls, sandstones, limestone lenses and conglomerates
136	138690.9	139707.7	1016.80	Lacustrine formations of marls, clays, loams and lignite layers.
137	139707.7	140642.4	934.70	Alluvial unconsolidated deposits
138	140642.4	140710.1	67.70	Pleistocene fluvial terrestrial and lacustrine deposits.
139	140710.1	140792.6	82.50	Alluvial unconsolidated deposits
140	140792.6	141180.4	387.80	Pleistocene fluvial terrestrial and lacustrine deposits.
141	141180.4	141542.4	362.00	Tripolis Flysch of grey marls, sandstones, limestone lenses and conglomerates
142	141542.4	142352.6	810.20	Platy limestones with layers or nodules of red-black silex
143	142352.6	142722.8	370.20	Tripolis Flysch of grey marls, sandstones, limestone lenses and conglomerates
144	142722.8	143641.2	918.40	Pleistocene fluvial terrestrial and lacustrine deposits.
145	143641.2	146278.2	2637.00	Alluvial unconsolidated deposits
146	146278.2	146610.9	332.70	Fluvial terraces
147	146610.9	146631.5	20.60	Pleistocene fluvial terrestrial and lacustrine deposits.
148	146631.5	146719.3	87.80	Fluvial terraces
149	146719.3	146768.0	48.70	Pleistocene fluvial terrestrial and lacustrine deposits.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
150	146768.0	146839.9	71.90	Fluvial terraces
151	146839.9	146844.5	4.60	Pleistocene fluvial terrestrial and lacustrine deposits.
152	146844.5	146909.9	65.40	Fluvial terraces
153	146909.9	147578.5	668.60	Pleistocene fluvial terrestrial and lacustrine deposits.
154	147578.5	147667.4	88.90	Alluvial unconsolidated deposits
155	147667.4	148186.1	518.70	Pleistocene fluvial terrestrial and lacustrine deposits.
156	148186.1	148316.6	130.50	Alluvial unconsolidated deposits
157	148316.6	149662.9	1346.30	Pleistocene fluvial terrestrial and lacustrine deposits.
158	149662.9	149764.8	101.90	Fluvial terraces
159	149764.8	149892.1	127.30	Alluvial unconsolidated deposits
160	149892.1	150021.2	129.10	Fluvial terraces
161	150021.2	150198.7	177.50	Alluvial unconsolidated deposits
162	150198.7	150906.1	707.40	Pleistocene fluvial terrestrial and lacustrine deposits.
163	150906.1	151100.0	193.90	Scree and talus cones
164	151100.0	151165.5	65.50	Alluvial unconsolidated deposits
165	151165.5	151374.2	208.70	Scree and talus cones
166	151374.2	151472.5	98.30	Alluvial unconsolidated deposits

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
167	151472.5	151830.5	358.00	Scree and talus cones
168	151830.5	151862.5	32.00	Alluvial unconsolidated deposits
169	151862.5	151923.2	60.70	Scree and talus cones
170	151923.2	151971.2	48.00	Platy limestones with layers or nodules of red-black silex
171	151971.2	152073.8	102.60	Scree and talus cones
172	152073.8	152142.1	68.30	Platy limestones with layers or nodules of red-black silex
173	152142.1	154465.8	2323.70	Scree and talus cones
174	154465.8	154516.3	50.50	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
175	154516.3	154631.8	115.50	Platy limestones with layers or nodules of red-black silex
176	154631.8	154889.3	257.50	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
177	154889.3	155388.7	499.40	Platy limestones with layers or nodules of red-black silex
178	155388.7	155720.7	332.00	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
179	155720.7	156166.7	446.00	Platy limestones with layers or nodules of red-black silex
180	156166.7	156454.0	287.30	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
181	156454.0	157405.6	951.60	Scree and talus cones
182	157405.6	157503.2	97.60	Alluvial unconsolidated deposits
183	157503.2	158602.9	1099.70	Scree and talus cones

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
184	158602.9	159670.4	1067.50	Alluvial unconsolidated deposits
185	159670.4	161527.4	1857.00	Pleistocene fluvial terrestrial and lacustrine deposits.
186	161527.4	161643.8	116.40	Alluvial unconsolidated deposits
187	161643.8	162169.5	525.70	Pleistocene fluvial terrestrial and lacustrine deposits.
188	162169.5	163739.2	1569.70	Scree and talus cones
189	163739.2	163831.8	92.60	Pleistocene fluvial terrestrial and lacustrine deposits.
190	163831.8	164068.3	236.50	Scree and talus cones
191	164068.3	164507.3	439.00	Pleistocene fluvial terrestrial and lacustrine deposits.
192	164507.3	164738.3	231.00	Alluvial unconsolidated deposits
193	164738.3	165554.8	816.50	Pleistocene fluvial terrestrial and lacustrine deposits.
194	165554.8	165923.6	368.80	Platy limestones with layers or nodules of red-black silex
195	165923.6	165977.5	53.90	Fluvial terraces
196	165977.5	166044.8	67.30	Pleistocene fluvial terrestrial and lacustrine deposits.
197	166044.8	166237.0	192.20	Platy limestones with layers or nodules of red-black silex
198	166237.0	166288.9	51.90	Pleistocene fluvial terrestrial and lacustrine deposits.
199	166288.9	166627.8	338.90	Platy limestones with layers or nodules of red-black silex
200	166627.8	166844.1	216.30	Pleistocene fluvial terrestrial and lacustrine deposits.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
201	166844.1	167381.9	537.80	Platy limestones with layers or nodules of red-black silex
202	167381.9	168231.4	849.50	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
203	168231.4	169069.3	837.90	Platy limestones with layers or nodules of red-black silex
204	169069.3	169240.4	171.10	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
205	169240.4	170089.8	849.40	Platy limestones with layers or nodules of red-black silex
206	170089.8	170129.2	39.40	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
207	170129.2	171066.8	937.60	Platy limestones with layers or nodules of red-black silex
208	171066.8	171199.3	132.50	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
209	171199.3	171274.0	74.70	Platy limestones with layers or nodules of red-black silex
210	171274.0	171508.5	234.50	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
211	171508.5	171711.6	203.10	Platy limestones with layers or nodules of red-black silex
212	171711.6	172230.4	518.80	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
213	172230.4	172609.5	379.10	Platy limestones with layers or nodules of red-black silex
214	172609.5	173113.0	503.50	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
215	173113.0	173872.0	759.00	Platy limestones with layers or nodules of red-black silex
216	173872.0	174242.4	370.40	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
217	174242.4	176438.3	2195.90	Platy limestones with layers or nodules of red-black silex

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
218	176438.3	176477.7	39.40	Pindos Flysch of marly limestones, marls, pelites and chert
219	176477.7	176554.5	76.80	Pindos Flysch of red marls, sandstones and platy limestones.
220	176554.5	176574.7	20.20	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
221	176574.7	177172.1	597.40	Pindos Flysch of red marls, sandstones and platy limestones.
222	177172.1	177174.0	1.90	Platy limestones with layers or nodules of red-black silex
223	177174.0	178477.1	1303.10	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
224	178477.1	179580.3	1103.20	Platy limestones with layers or nodules of red-black silex
225	179580.3	180037.3	457.00	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
226	180037.3	180143.7	106.40	Platy limestones with layers or nodules of red-black silex
227	180143.7	180971.0	827.30	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
228	180971.0	181108.1	137.10	Pindos Flysch of red marls, sandstones and platy limestones.
229	181108.1	181486.2	378.10	Pindos Flysch of marly limestones, marls, pelites and chert.
230	181486.2	182151.2	665.00	Platy limestones with layers or nodules of red-black silex
231	182151.2	182555.9	404.70	Pindos Flysch of marly limestones, marls, pelites and chert.
232	182555.9	182679.0	123.10	Platy limestones with layers or nodules of red-black silex
233	182679.0	182823.1	144.10	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
234	182823.1	182959.1	136.00	Platy limestones with layers or nodules of red-black silex

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
235	182959.1	183207.0	247.90	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
236	183207.0	184637.2	1430.20	Platy limestones with layers or nodules of red-black silex
237	184637.2	185189.9	552.70	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
238	185189.9	185297.0	107.10	Thin bedded limestones
239	185297.0	185325.6	28.60	Alterations of limestones, chert, marls and shales.
240	185325.6	185403.9	78.30	Sandstones, pelites, breccio-conglomerates, clastic limestones, marls and chert.
241	185403.9	185533.6	129.70	Alterations of limestones, chert, marls and shales.
242	185533.6	185696.5	162.90	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
243	185696.5	185895.2	198.70	Alterations of limestones, chert, marls and shales.
244	185895.2	186658.4	763.20	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
245	186658.4	187321.0	662.60	Platy limestones with layers or nodules of red-black silex
246	187321.0	187588.8	267.80	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
247	187588.8	187634.5	45.70	Platy limestones with layers or nodules of red-black silex
248	187634.5	187745.8	111.30	Pindos Flysch of marly limestones, marls, pelites and chert.
249	187745.8	187750.0	4.20	Platy limestones with layers or nodules of red-black silex
250	187750.0	187813.8	63.80	Sandstones, pelites, breccio-conglomerates, clastic limestones, marls and chert.
251	187813.8	188137.6	323.80	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
252	188137.6	188270.6	133.00	Thin bedded limestones
253	188270.6	188403.7	133.10	Sandstones, pelites, breccio-conglomerates, clastic limestones, marls and chert.
254	188403.7	188475.9	72.20	Alterations of limestones, chert, marls and shales.
255	188475.9	188597.8	121.90	Thin bedded limestones
256	188597.8	188987.8	390.00	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
257	188987.8	189152.9	165.10	Thin bedded limestones
258	189152.9	189254.5	101.60	First Flysch of sandstones, red marls, limestones, radiolarites, diavases, pillow lavas, tuffs and tuffites.
259	189254.5	189325.5	71.00	Thin bedded limestones
260	189325.5	189374.8	49.30	Alterations of limestones, chert, marls and shales.
261	189374.8	189664.3	289.50	Sandstones, pelites, breccio-conglomerates, clastic limestones, marls and chert.
262	189664.3	190092.5	428.20	Pindos Flysch of marly limestones, marls, pelites and chert.
263	190092.5	190237.7	145.20	Platy limestones with layers or nodules of red-black silex
264	190237.7	194016.4	3778.70	Continental cohesive breccio-conglomerates
265	194016.4	194273.0	256.60	Lacustrine formations of marls, clays, loams and lignite layers.
266	194273.0	198551.6	4278.60	Alluvial unconsolidated deposits
267	198551.6	202061.5	3509.90	Lacustrine formations of marls, clays, loams and lignite layers.
268	202061.5	202279.6	218.10	Fluvial terraces

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
269	202279.6	202995.3	715.70	Alluvial unconsolidated deposits
270	202995.3	204068.7	1073.40	Fluvial terraces
271	204068.7	204605.5	536.80	Alluvial unconsolidated deposits
272	204605.5	205110.5	505.00	Fluvial terraces
273	205110.5	207468.5	2358.00	Lacustrine formations of marls, clays, loams and lignite layers.
274	207468.5	207534.6	66.10	Continental cohesive breccio-conglomerates
275	207534.6	209970.1	2435.50	Alluvial unconsolidated deposits
276	209970.1	210267.1	297.00	Continental cohesive breccio-conglomerates
277	210267.1	210312.8	45.70	Alluvial unconsolidated deposits
278	210312.8	210465.8	153.00	Lacustrine formations of marls, clays, loams and lignite layers.
279	210465.8	210537.3	71.50	Alluvial unconsolidated deposits
280	210537.3	211514.0	976.70	Lacustrine formations of marls, clays, loams and lignite layers.
281	211514.0	212063.3	549.30	Alluvial unconsolidated deposits
282	212063.3	212755.6	692.30	Lacustrine formations of marls, clays, loams and lignite layers.
283	212755.6	215742.5	2986.90	Alluvial unconsolidated deposits
284	215742.5	216918.6	1176.10	Lacustrine formations of marls, clays, loams and lignite layers.
285	216918.6	217067.6	149.00	Alluvial unconsolidated deposits

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
286	217067.6	217214.4	146.80	Lacustrine formations of marls, clays, loams and lignite layers.
287	217214.4	217353.9	139.50	Alluvial unconsolidated deposits
288	217353.9	217824.1	470.20	Lacustrine formations of marls, clays, loams and lignite layers.
289	217824.1	218183.2	359.10	Alluvial unconsolidated deposits
290	218183.2	218212.6	29.40	Lacustrine formations of marls, clays, loams and lignite layers.
291	218212.6	220622.5	2409.90	Alluvial unconsolidated deposits
292	220622.5	220719.5	97.00	Lacustrine formations of marls, clays, loams and lignite layers.
293	220719.5	220742.0	22.50	Alluvial unconsolidated deposits
294	220742.0	220757.2	15.20	Lacustrine formations of marls, clays, loams and lignite layers.
295	220757.2	223503.6	2746.40	Alluvial unconsolidated deposits
296	223503.6	227723.5	4219.90	Fluvial terraces
297	227723.5	242963.4	15239.90	Pleistocene fluvial terrestrial and lacustrine deposits.
298	242963.4	243027.7	64.30	Alluvial unconsolidated deposits
299	243027.7	243166.5	138.80	Pleistocene fluvial terrestrial and lacustrine deposits.
300	243166.5	243211.6	45.10	Alluvial unconsolidated deposits
301	243211.6	243345.2	133.60	Pleistocene fluvial terrestrial and lacustrine deposits.
302	243345.2	243366.1	20.90	Alluvial unconsolidated deposits

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
303	243366.1	243571.5	205.40	Pleistocene fluvial terrestrial and lacustrine deposits.
304	243571.5	246453.8	2882.30	Alluvial unconsolidated deposits
305	246453.8	247099.6	645.80	Marine, brackish and lacustrine sequences of fine sands, sandy, silty, clayey deposits and sandstones
306	247099.6	249277.8	2178.20	Alluvial unconsolidated deposits
307	249277.8	249463.4	185.60	Pleistocene fluvial terrestrial and lacustrine deposits.
308	249463.4	250839.6	1376.20	Alluvial unconsolidated deposits
309	250839.6	263089.7	12250.10	Pleistocene fluvial terrestrial and lacustrine deposits.
310	263089.7	263561.8	472.10	Alluvial unconsolidated deposits
311	263561.8	286338.0	22776.20	Gavrovo Flysch of shales, siltstones, sandy marls, sandstones conglomerates
312	286338.0	286416.8	78.80	Scree and talus cones
313	286416.8	286430.0	13.20	Alluvial unconsolidated deposits
314	286430.0	286694.9	264.90	Scree and talus cones
315	286694.9	286721.6	26.70	Alluvial unconsolidated deposits
316	286721.6	288102.0	1380.40	Scree and talus cones
317	288102.0	288117.3	15.30	Alluvial unconsolidated deposits
318	288117.3	288806.3	689.00	Scree and talus cones
319	288806.3	292271.8	3465.50	Eluvial mantle materials

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
320	292271.8	292417.5	145.70	Alluvial unconsolidated deposits
321	292417.5	292471.4	53.90	Eluvial mantle materials
322	292471.4	298071.4	5600.00	Alluvial unconsolidated deposits
323	298071.4	298343.0	271.60	Alternations of shales, siltstones, sandy marls and sandstones with conglomerate intercalation
324	298343.0	300058.3	1715.27	Coastal sand deposits and dunes.

Data from: "P616-100-RP-GEO-01,Rev2, Geological/Geotechnical Reconnaissance Report along the pipeline route basecase" Document No P616-100-RP-GEO-01,Rev2, C&M and SAIPEM 2021

Data from:" Geological/Geotechnical Reconnaissance Report along the pipeline route basecase, Document No P616-100-RP-GEO-01,Rev2"C&M and SAIPEM,2021

Figure M-1 Geological formations along the CCS1 corridor, including the Megalopolis Branch, in scales 1:50,000 (left) and 1:10,000 (right)

Table M-2 Geological data, after the homogenization and in scale 1:10,000, of the geological formations along the Megalopolis Branch

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
1	0.00	121.69	121.69	Tripolis Flysch of grey marls, sandstones, limestone lenses and conglomerates
2	121.69	659.89	538.20	Lacustrine formations of marls, clays, loams and lignite layers.
3	659.89	851.93	192.04	Alluvial unconsolidated deposits
4	851.93	1021.31	169.38	Lacustrine formations of marls, clays, loams and lignite layers.
5	1021.31	1229.27	207.96	Pleistocene fluvial terrestrial and lacustrine deposits.
6	1229.27	1455.38	226.11	Lacustrine formations of marls, clays, loams and lignite layers.
7	1455.38	4226.09	2770.71	Pleistocene fluvial terrestrial and lacustrine deposits.
8	4226.09	4772.64	546.55	Alluvial unconsolidated deposits
9	4772.64	6644.78	1872.14	Pleistocene fluvial terrestrial and lacustrine deposits.
10	6644.78	6785.96	141.18	Alluvial unconsolidated deposits
11	6785.96	7445.02	659.06	Pleistocene fluvial terrestrial and lacustrine deposits.
12	7445.02	7529.12	84.10	Alluvial unconsolidated deposits
13	7529.12	9019.47	1490.35	Pleistocene fluvial terrestrial and lacustrine deposits.
14	9019.47	9274.30	254.83	Alluvial unconsolidated deposits
15	9274.30	9892.87	618.57	Pleistocene fluvial terrestrial and lacustrine deposits.

Data from: "P616-100-RP-GEO-01,Rev2, Geological/Geotechnical Reconnaissance Report along the pipeline route basecase" Document No P616-100-RP-GEO-01,Rev2, C&M and SAIPEM 2021

Table M-3 Geological data, after the homogenization and in scale 1:10,000, of the geological formations along the CCS2 of the EastMed Pipeline route (route as of 22-03-2021)

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
1	0.0	8515.9	8515.87	Alluvial unconsolidated deposits
2	8515.9	8567.9	51.99	Shales alternating with pelite layers, marly silts and sandstones.
3	8567.9	9246.6	678.77	Fluvial deposits. Unconsolidated sandy-clayey materials, sands and pebbles in the torrent and river beds.
4	9246.6	9583.2	336.52	Shales alternating with pelite layers, marly silts and sandstones.
5	9583.2	17259.5	7676.31	Sandstones alternating with thin layers of shales and conglomerates.
6	17259.5	17390.6	131.09	Shales alternating with pelite layers, marly silts and sandstones.
7	17390.6	17793.1	402.55	Sandstones alternating with thin layers of shales and conglomerates.
8	17793.1	17974.4	181.25	Shales alternating with pelite layers, marly silts and sandstones.
9	17974.4	18441.6	467.24	Sandstones alternating with thin layers of shales and conglomerates.
10	18441.6	18678.0	236.44	Shales alternating with pelite layers, marly silts and sandstones.
11	18678.0	20067.0	1388.97	Sandstones alternating with thin layers of shales and conglomerates.
12	20067.0	20338.5	271.54	Shales alternating with pelite layers, marly silts and sandstones.
13	20338.5	23977.3	3638.75	Sandstones alternating with thin layers of shales and conglomerates.
14	23977.3	24282.2	304.86	Shales alternating with pelite layers, marly silts and sandstones.
15	24282.2	27914.9	3632.79	Shales, siltstones, sandy marls and sandstones with conglomerate intercalation
16	27914.9	27981.4	66.49	Lacustrine marly limestones, marls, clays, sandstones and conglomerates.

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
17	27981.4	30305.4	2323.93	Alluvial unconsolidated deposits
18	30305.4	32656.0	2350.67	Scree and talus cones.
19	32656.0	33266.2	610.18	Alluvial unconsolidated deposits
20	33266.2	34069.1	802.90	Scree and talus cones.
21	34069.1	34351.9	282.74	Alluvial unconsolidated deposits
22	34351.9	35014.4	662.53	Scree and talus cones.
23	35014.4	37239.6	2225.25	Alluvial unconsolidated deposits
24	37239.6	37995.0	755.40	Lagoonal, coastal, lacustrine and marsh deposits of mud and fine clayey-sandy material.
25	37995.0	56580.2	18585.12	Alluvial unconsolidated deposits
26	56580.2	57887.1	1306.92	Fluvial deposits. Unconsolidated sandy-clayey materials, sands and pebbles in the torrent and river beds.
27	57887.1	60917.7	3030.66	Alluvial unconsolidated deposits
28	60917.7	62555.9	1638.12	Scree and talus cones.
29	62555.9	64185.1	1629.21	Alluvial unconsolidated deposits
30	64185.1	64302.8	117.77	Scree and talus cones.
31	64302.8	64406.9	104.02	Microbreccious platy limestones
32	64406.9	64674.6	267.73	Scree and talus cones.
33	64674.6	64803.2	128.57	Microbreccious platy limestones

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
34	64803.2	64829.0	25.80	Scree and talus cones.
35	64829.0	64843.8	14.88	Microbreccious platy limestones
36	64843.8	65124.3	280.47	Scree and talus cones.
37	65124.3	72155.4	7031.10	Microbreccious platy limestones
38	72155.4	73200.3	1044.88	Platy fine to medium coarse grained limestones
39	73200.3	73925.1	724.85	Shales alternating with pelite layers, marly silts and sandstones.
40	73925.1	83667.6	9742.45	Sandstones alternating with thin layers of shales and conglomerates.
41	83667.6	85055.8	1388.25	Shales alternating with pelite layers, marly silts and sandstones.
42	85055.8	87497.7	2441.85	Sandstones alternating with thin layers of shales and conglomerates.
43	87497.7	87942.9	445.21	Shales alternating with pelite layers, marly silts and sandstones.
44	87942.9	88283.8	340.87	Sandstones alternating with thin layers of shales and conglomerates.
45	88284.0	88432.6	148.55	Shales alternating with pelite layers, marly silts and sandstones.
46	88432.6	88559.5	126.91	Sandstones alternating with thin layers of shales and conglomerates.
47	88559.9	88679.7	119.83	Shales alternating with pelite layers, marly silts and sandstones.
48	88679.6	88754.9	75.32	Sandstones alternating with thin layers of shales and conglomerates.
49	88755.3	89393.9	638.66	Shales alternating with pelite layers, marly silts and sandstones.
50	89393.7	89745.5	351.89	Alluvial unconsolidated deposits

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
51	89745.3	91635.0	1889.74	Shales alternating with pelite layers, marly silts and sandstones.
52	91635.3	93700.7	2065.46	Sandstones alternating with thin layers of shales and conglomerates.
53	93700.7	94033.6	332.93	Shales alternating with pelite layers, marly silts and sandstones.
54	94033.6	94159.4	125.73	Sandstones alternating with thin layers of shales and conglomerates.
55	94159.4	95073.0	913.60	Shales alternating with pelite layers, marly silts and sandstones.
56	95073.0	95327.0	254.01	Sandstones alternating with thin layers of shales and conglomerates.
57	95327.0	96357.7	1030.68	Shales alternating with pelite layers, marly silts and sandstones.
58	96357.7	96592.1	234.45	Sandstones alternating with thin layers of shales and conglomerates.
59	96592.1	98304.6	1712.50	Shales alternating with pelite layers, marly silts and sandstones.
60	98304.6	98819.2	514.61	Sandstones alternating with thin layers of shales and conglomerates.
61	98819.2	99503.5	684.29	Shales alternating with pelite layers, marly silts and sandstones.
62	99503.5	99609.4	105.84	Sandstones alternating with thin layers of shales and conglomerates.
63	99609.4	99749.5	140.15	Shales alternating with pelite layers, marly silts and sandstones.
64	99749.5	100254.0	504.46	Sandstones alternating with thin layers of shales and conglomerates.
65	100254.0	102848.0	2594.02	Shales alternating with pelite layers, marly silts and sandstones.
66	102848.0	102993.9	145.93	Sandstones alternating with thin layers of shales and conglomerates.
67	102993.9	104105.0	1111.12	Shales alternating with pelite layers, marly silts and sandstones.

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
68	104105.0	104317.4	212.35	Sandstones alternating with thin layers of shales and conglomerates.
69	104317.4	104642.3	324.89	Shales alternating with pelite layers, marly silts and sandstones.
70	104642.3	104788.5	146.26	Sandstones alternating with thin layers of shales and conglomerates.
71	104788.5	106383.6	1595.11	Shales alternating with pelite layers, marly silts and sandstones.
72	106383.6	106575.6	191.95	Sandstones alternating with thin layers of shales and conglomerates.
73	106575.6	106850.4	274.76	Shales alternating with pelite layers, marly silts and sandstones.
74	106850.4	107328.2	477.85	Sandstones alternating with thin layers of shales and conglomerates.
75	107328.2	108934.7	1606.49	Shales alternating with pelite layers, marly silts and sandstones.
76	108934.7	109331.6	396.92	Sandstones alternating with thin layers of shales and conglomerates.
77	109331.6	109667.8	336.14	Shales alternating with pelite layers, marly silts and sandstones.
78	109667.8	109762.7	94.92	Sandstones alternating with thin layers of shales and conglomerates.
79	109762.7	109829.4	66.74	Shales alternating with pelite layers, marly silts and sandstones.
80	109829.4	110367.2	537.75	Sandstones alternating with thin layers of shales and conglomerates.
81	110367.2	110470.5	103.30	Shales alternating with pelite layers, marly silts and sandstones.
82	110470.5	111678.1	1207.60	Sandstones alternating with thin layers of shales and conglomerates.
83	111678.1	112062.7	384.60	Marls alternating with organogenic limestones and sandstones
84	112062.7	112774.9	712.20	Sandstones alternating with thin layers of shales and conglomerates.

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
85	112774.9	112971.8	196.90	Marls alternating with organogenic limestones and sandstones
86	112971.8	113133.5	161.77	Sandstones alternating with thin layers of shales and conglomerates.
87	113133.5	113808.4	674.89	Marls alternating with organogenic limestones and sandstones
88	113808.4	125113.6	11305.19	Sandstones alternating with thin layers of shales and conglomerates.
89	125113.6	126259.8	1146.19	Alluvial unconsolidated deposits
90	126259.8	126452.9	193.08	Sandstones alternating with thin layers of shales and conglomerates.
91	126452.9	169793.5	43340.62	Alluvial unconsolidated deposits
92	169793.5	170950.2	1156.73	Continental cohesive breccio-conglomerates.
93	170950.2	171119.8	169.57	Alluvial unconsolidated deposits
94	171119.8	171340.3	220.45	Continental cohesive breccio-conglomerates.
95	171340.3	174381.6	3041.36	Alluvial unconsolidated deposits
96	174381.6	176449.8	2068.21	Continental cohesive breccio-conglomerates.
97	176449.8	176515.1	65.26	Alluvial unconsolidated deposits
98	176515.1	177228.0	712.92	Continental cohesive breccio-conglomerates.
99	177228.0	178743.6	1515.58	Alluvial unconsolidated deposits
100	178743.6	179115.4	371.86	Continental cohesive breccio-conglomerates.
101	179115.4	180823.6	1708.15	Alluvial unconsolidated deposits

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
102	180823.6	181139.4	315.78	Scree and talus cones.
103	181139.4	181506.9	367.49	Lacustrine deposits consisting of marls and red clays.
104	181506.9	181816.9	309.99	Alluvial unconsolidated deposits
105	181816.9	182113.9	297.08	Lacustrine deposits consisting of marls and red clays.
106	182113.9	182936.9	822.95	Scree and talus cones.
107	182936.9	183359.4	422.56	Ammonitico Rosso facies
108	183359.4	183522.9	163.45	Dolomites and limestones of Pantokratoras series
109	183522.9	183601.8	78.87	Platy fine to medium coarse grained limestones
110	183601.8	183668.3	66.49	Evaporites
111	183668.3	183908.0	239.78	Alluvial unconsolidated deposits
112	183908.0	184179.9	271.89	Dolomites and limestones of Pantokratoras series
113	184179.9	184395.4	215.46	Evaporites
114	184395.4	184819.6	424.23	Scree and talus cones.
115	184819.6	186177.8	1358.19	Alluvial unconsolidated deposits
116	186177.8	186294.3	116.48	Dolomites and limestones of Pantokratoras series
117	186294.3	186467.4	173.08	Ammonitico Rosso facies
118	186467.4	186632.5	165.15	Crystalline platy limestones alternating with chert intercalations of Vigla series

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
119	186632.5	186696.1	63.59	Alluvial unconsolidated deposits
120	186696.1	188985.6	2289.47	Continental cohesive breccio-conglomerates.
121	188985.6	189784.1	798.51	Dolomites and limestones of Pantokratoras series
122	189784.1	190237.1	453.02	Continental cohesive breccio-conglomerates.
123	190237.1	193084.9	2847.78	Dolomites and limestones of Pantokratoras series
124	193084.9	202833.5	9748.58	Alluvial unconsolidated deposits
125	202833.5	203294.4	460.89	Dolomites and limestones of Pantokratoras series
126	203294.4	205230.9	1936.55	Alluvial unconsolidated deposits
127	205230.9	206013.5	782.59	Dolomites and limestones of Pantokratoras series
128	206013.5	208383.8	2370.32	Alluvial unconsolidated deposits
129	208383.8	209096.0	712.21	Dolomites and limestones of Pantokratoras series
130	209096.0	209504.4	408.42	Alluvial unconsolidated deposits
131	209504.4	210880.6	1376.18	Dolomites and limestones of Pantokratoras series
132	210880.6	211308.3	427.69	Eluvial mantle materials.
133	211308.3	213142.3	1834.00	Dolomites and limestones of Pantokratoras series
134	213142.3	213557.0	414.69	Scree and talus cones.
135	213557.0	213884.3	327.34	Alluvial unconsolidated deposits

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
136	213884.3	215422.6	1538.23	Scree and talus cones.
137	215422.6	215432.6	10.02	Sandstones alternating with thin layers of shales and conglomerates.
138	215432.6	215495.5	62.88	Lacustrine marly limestones, marls, clays, sandstones and conglomerates.
139	215495.5	215892.8	397.28	Sandstones alternating with thin layers of shales and conglomerates.
140	215892.8	216419.8	527.05	Scree and talus cones.
141	216419.8	219294.8	2875.04	Alluvial unconsolidated deposits
142	219294.8	219749.4	454.59	Marls alternating with organogenic limestones and sandstones
143	219749.4	220009.4	259.99	Alluvial unconsolidated deposits
144	220009.4	220152.6	143.18	Marls alternating with organogenic limestones and sandstones
145	220152.6	222006.7	1854.06	Alluvial unconsolidated deposits
146	222006.7	222985.3	978.64	Scree and talus cones.
147	222985.3	223554.4	569.10	Alluvial unconsolidated deposits
148	223554.4	224561.4	1007.03	Scree and talus cones.
149	224561.4	224725.7	164.26	Platy fine to medium coarse grained limestones
150	224725.7	224874.8	149.06	Microbreccious platy limestones
151	224874.8	225017.9	143.18	Crystalline platy limestones alternating with chert intercalations of Vigla series
152	225017.9	226228.2	1210.26	Alluvial unconsolidated deposits

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION
153	226228.2	226400.4	172.21	Siliceous schists with Posidonia
154	226400.4	226619.9	219.54	Alluvial unconsolidated deposits
155	226619.9	226758.5	138.52	Siliceous schists with Posidonia
156	226758.5	226992.8	234.31	Dolomites and limestones of Pantokratoras series
157	226992.8	227230.2	237.44	Alluvial unconsolidated deposits
158	227230.2	227285.2	54.99	Crystalline platy limestones alternating with chert intercalations of Vigla series
159	227285.2	228354.5	1069.26	Alluvial unconsolidated deposits
160	228354.5	229831.9	1477.47	Crystalline platy limestones alternating with chert intercalations of Vigla series
161	229831.9	229884.8	52.89	Siliceous schists with Posidonia
162	229884.8	229928.4	43.62	Ammonitico Rosso facies
163	229928.4	233126.7	3198.23	Dolomites and limestones of Pantokratoras series

Data from: "P616-100-RP-GEO-01,Rev2, Geological/Geotechnical Reconnaissance Report along the pipeline route basecase" Document No P616-100-RP-GEO-01,Rev2, C&M and SAIPEM 2021

Data from:" Geological/Geotechnical Reconnaissance Report along the pipeline route basecase, Document No P616-100-RP-GEO-01,Rev2"C&M and SAIPEM,2021

Figure M-2 Geological formations along the CCS2 corridor, in scales 1:50,000 (left) and 1:10,000 (right).

8 M.1.2. Geological maps

8 M.1.3. Geotechnical data alongside the onshore route

In this chapter are presented geotechnical data along onshore pipeline route. Specifically at subsection 8 M.1.3.1 a soil classification list along the onshore route for excavatability purposes is presented and at subsection 8 M.1.3.2 geotechnical-seismic data at landfalls locations are presented.

8 M.1.3.1 Soil Classification list along the onshore route for excavatability purposes

In this subsection are presented the results of the categorization of excavatability along EastMed Pipeline Routing. The encountered geological formations are classified to the following three categories:

1. Earth: Formations where the excavation is easily performed by using conventional

excavating equipment, as mechanical excavators.

2. Semi-rock: Formations of the intermediate category where the excavation require the additional use of mechanical – hydraulic percussion hammer or explosives, only in a part of their mass usually less than 20% sub – category (H1) or greater than 20% sub – category (H2).

3. Rock: Formations that require pre-blasting for the excavation with use of explosives or mechanical – hydraulic percussion hammer throughout their mass.

Specifically at the Table M-4is presented the soil classification along the pipeline route CCS1,at Table M-5 is presented the soil classification along the Megalopolis branch and at Table M-6 is presented the soil classification along theCCS2 pipeline route.

Table M-4 Soil Classification along the Pipeline Route CCS1

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
1	0.00	222.19	222.19	SEMIROCK-H1
2	222.19	667.57	445.38	EARTH
3	667.57	15842.41	15174.84	ROCK
4	15842.41	15979.46	137.05	EARTH
5	15979.46	19138.91	3159.45	ROCK
6	19138.91	19840.79	701.88	SEMIROCK - H1
7	19840.79	20322.00	481.21	ROCK

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
8	20322.00	21348.53	1026.53	SEMIROCK - H1
9	21348.53	21845.48	496.95	ROCK
10	21845.48	23270.73	1425.25	SEMIROCK - H1
11	23270.73	23780.32	509.59	ROCK
12	23780.32	24157.83	377.51	SEMIROCK - H1
13	24157.83	24811.73	653.90	ROCK
14	24811.73	25048.70	236.97	SEMIROCK - H1
15	25048.70	26218.11	1169.41	ROCK
16	26218.11	27172.97	954.86	SEMIROCK - H1
17	27172.97	29432.50	2259.53	ROCK
18	29432.50	38887.83	9455.33	EARTH
19	38887.83	41444.01	2556.18	SEMIROCK - H1
20	41444.01	56744.83	15300.82	ROCK
21	56744.83	61702.11	4957.28	SEMIROCK - H2
22	61702.11	61997.36	295.25	SEMIROCK - H1
23	61997.36	62108.01	110.65	SEMIROCK - H2
24	62108.01	62248.34	140.33	SEMIROCK - H1
25	62248.34	63693.00	1444.66	SEMIROCK - H2
26	63693.00	64092.43	399.43	SEMIROCK - H1
27	64092.43	64350.68	258.25	SEMIROCK - H2
28	64350.68	77781.59	13430.91	SEMIROCK - H1
29	77781.59	86977.05	9195.46	ROCK
30	86977.05	87255.97	278.92	SEMIROCK - H1
31	87255.97	89904.83	2648.86	ROCK
32	89904.83	90235.57	330.74	SEMIROCK - H1
33	90235.57	90586.66	351.09	ROCK
34	90586.66	93999.78	3413.12	SEMIROCK - H1
35	93999.78	94455.04	455.26	ROCK
36	94455.04	95074.81	619.77	SEMIROCK - H1
37	95074.81	96687.04	1612.23	ROCK

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
38	96687.04	97552.59	865.55	EARTH
39	97552.59	101030.21	3477.62	ROCK
40	101030.21	101246.90	216.69	SEMIROCK - H1
41	101246.90	101451.44	204.54	EARTH
42	101451.44	101643.97	192.53	SEMIROCK - H1
43	101643.97	102428.14	784.17	ROCK
44	102428.14	102498.42	70.28	EARTH
45	102498.42	103142.12	643.70	SEMIROCK - H1
46	103142.12	104495.52	1353.40	ROCK
47	104495.52	104561.05	65.53	EARTH
48	104561.05	107329.32	2768.27	ROCK
49	107329.32	107391.27	61.95	EARTH
50	107391.27	107560.85	169.58	ROCK
51	107560.85	110063.78	2502.93	SEMIROCK - H1
52	110063.78	110548.22	484.44	EARTH
53	110548.22	111608.84	1060.62	SEMIROCK - H1
54	111608.84	111826.27	217.43	EARTH
55	111826.27	112733.80	907.53	SEMIROCK - H1
56	112733.80	112932.93	199.13	EARTH
57	112932.93	113236.65	303.72	SEMIROCK - H1
58	113236.65	113342.52	105.87	EARTH
59	113342.52	116667.23	3324.71	SEMIROCK - H1
60	116667.23	116784.39	117.16	EARTH
61	116784.39	117629.41	845.02	SEMIROCK - H1
62	117629.41	118462.43	833.02	ROCK
63	118462.43	120432.09	1969.66	SEMIROCK - H2
64	120432.09	122526.30	2094.21	ROCK
65	122526.30	127562.94	5036.64	SEMIROCK - H2
66	127562.94	128544.74	981.80	EARTH
67	128544.74	129362.31	817.57	SEMIROCK - H2

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
68	129362.31	133848.42	4486.11	ROCK
69	133848.42	134636.49	788.07	EARTH
70	134636.49	136962.33	2325.84	ROCK
71	136962.33	137176.52	214.19	SEMIROCK - H2
72	137176.52	137651.98	475.46	SEMIROCK - H1
73	137651.98	137784.02	132.04	ROCK
74	137784.02	138142.57	358.55	SEMIROCK - H1
75	138142.57	138690.92	548.35	SEMIROCK - H2
76	138690.92	139707.71	1016.79	SEMIROCK - H1
77	139707.71	140642.36	934.65	EARTH
78	140642.36	140710.08	67.72	SEMIROCK - H1
79	140710.08	140792.59	82.51	EARTH
80	140792.59	141180.35	387.76	SEMIROCK - H1
81	141180.35	141542.35	362.00	SEMIROCK - H2
82	141542.35	142352.62	810.27	ROCK
83	142352.62	142722.80	370.18	SEMIROCK - H2
84	142722.80	143641.23	918.43	SEMIROCK - H1
85	143641.23	146278.23	2637.00	EARTH
86	146278.23	147578.45	1300.22	SEMIROCK - H1
87	147578.45	147667.40	88.95	EARTH
88	147667.40	148186.08	518.68	SEMIROCK - H1
89	148186.08	148316.59	130.51	EARTH
90	148316.59	149764.77	1448.18	SEMIROCK - H1
91	149764.77	149892.11	127.34	EARTH
92	149892.11	150021.15	129.04	SEMIROCK - H1
93	150021.15	150198.66	177.51	EARTH
94	150198.66	151099.99	901.33	SEMIROCK - H1
95	151099.99	151165.53	65.54	EARTH
96	151165.53	151374.21	208.68	SEMIROCK - H1
97	151374.21	151472.49	98.28	EARTH

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
98	151472.49	151830.54	358.05	SEMIROCK - H1
99	151830.54	151862.54	32.00	EARTH
100	151862.54	151923.15	60.61	SEMIROCK - H1
101	151923.15	151971.19	48.04	ROCK
102	151971.19	152073.80	102.61	SEMIROCK - H1
103	152073.80	152142.09	68.29	ROCK
104	152142.09	154465.79	2323.70	SEMIROCK - H1
105	154465.79	154516.35	50.56	SEMIROCK - H2
106	154516.35	154631.85	115.50	ROCK
107	154631.85	154889.25	257.40	SEMIROCK - H2
108	154889.25	155388.65	499.40	ROCK
109	155388.65	155720.65	332.00	SEMIROCK - H2
110	155720.65	156166.69	446.04	ROCK
111	156166.69	156454.03	287.34	SEMIROCK - H2
112	156454.03	157405.59	951.56	SEMIROCK - H1
113	157405.59	157503.24	97.65	EARTH
114	157503.24	158602.89	1099.65	SEMIROCK - H1
115	158602.89	159670.35	1067.46	EARTH
116	159670.35	161527.38	1857.03	SEMIROCK - H1
117	161527.38	161643.85	116.47	EARTH
118	161643.85	164507.30	2863.45	SEMIROCK - H1
119	164507.30	164738.29	230.99	EARTH
120	164738.29	165554.76	816.47	SEMIROCK - H1
121	165554.76	165923.64	368.88	ROCK
122	165923.64	166044.85	121.21	SEMIROCK - H1
123	166044.85	166236.98	192.13	ROCK
124	166236.98	166288.93	51.95	SEMIROCK - H1
125	166288.93	166627.79	338.86	ROCK
126	166627.79	166844.10	216.31	SEMIROCK - H1
127	166844.10	167381.91	537.81	ROCK

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
128	167381.91	168231.44	849.53	SEMIROCK - H2
129	168231.44	169069.28	837.84	ROCK
130	169069.28	169240.36	171.08	SEMIROCK - H2
131	169240.36	170089.85	849.49	ROCK
132	170089.85	170129.18	39.33	SEMIROCK - H2
133	170129.18	171066.75	937.57	ROCK
134	171066.75	171199.29	132.54	SEMIROCK - H2
135	171199.29	171274.03	74.74	ROCK
136	171274.03	171508.52	234.49	SEMIROCK - H2
137	171508.52	171711.59	203.07	ROCK
138	171711.59	172230.42	518.83	SEMIROCK - H2
139	172230.42	172609.45	379.03	ROCK
140	172609.45	173112.98	503.53	SEMIROCK - H2
141	173112.98	173871.97	758.99	ROCK
142	173871.97	174242.41	370.44	SEMIROCK - H2
143	174242.41	176438.26	2195.85	ROCK
144	176438.26	177172.10	733.84	SEMIROCK - H2
145	177172.10	177174.01	1.91	ROCK
146	177174.01	178477.12	1303.11	SEMIROCK - H2
147	178477.12	179580.31	1103.19	ROCK
148	179580.31	180037.32	457.01	SEMIROCK - H2
149	180037.32	180143.70	106.38	ROCK
150	180143.70	181486.25	1342.55	SEMIROCK - H2
151	181486.25	182151.20	664.95	ROCK
152	182151.20	182555.91	404.71	SEMIROCK - H2
153	182555.91	182679.00	123.09	ROCK
154	182679.00	182823.10	144.10	SEMIROCK - H2
155	182823.10	182959.07	135.97	ROCK
156	182959.07	183206.95	247.88	SEMIROCK - H2
157	183206.95	184637.21	1430.26	ROCK

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
158	184637.21	185189.85	552.64	SEMIROCK - H2
159	185189.85	185296.98	107.13	ROCK
160	185296.98	186658.44	1361.46	SEMIROCK - H2
161	186658.44	187321.01	662.57	ROCK
162	187321.01	187588.82	267.81	SEMIROCK - H2
163	187588.82	187634.49	45.67	ROCK
164	187634.49	187745.82	111.33	SEMIROCK - H2
165	187745.82	187750.01	4.19	ROCK
166	187750.01	188137.62	387.61	SEMIROCK - H2
167	188137.62	188270.59	132.97	ROCK
168	188270.59	188403.73	133.14	SEMIROCK - H2
169	188403.73	188475.92	72.19	SEMIROCK - H2
170	188475.92	188597.82	121.90	ROCK
171	188597.82	188987.82	390.00	SEMIROCK - H2
172	188987.82	189152.95	165.13	ROCK
173	189152.95	189254.52	101.57	SEMIROCK - H2
174	189254.52	189325.48	70.96	ROCK
175	189325.48	190092.47	766.99	SEMIROCK - H2
176	190092.47	190237.73	145.26	ROCK
177	190237.73	194016.38	3778.65	SEMIROCK - H2
178	194016.38	194273.03	256.65	SEMIROCK - H1
179	194273.03	198551.62	4278.59	EARTH
180	198551.62	202279.64	3728.02	SEMIROCK - H1
181	202279.64	202995.26	715.62	EARTH
182	202995.26	204068.74	1073.48	SEMIROCK - H1
183	204068.74	204605.51	536.77	EARTH
184	204605.51	207468.54	2863.03	SEMIROCK - H1
185	207468.54	207534.61	66.07	SEMIROCK - H2
186	207534.61	209970.12	2435.51	EARTH
187	209970.12	210267.13	297.01	SEMIROCK - H2

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
188	210267.13	210312.82	45.69	EARTH
189	210312.82	210465.84	153.02	SEMIROCK - H1
190	210465.84	210537.30	71.46	EARTH
191	210537.30	211514.04	976.74	SEMIROCK - H1
192	211514.04	212063.28	549.24	EARTH
193	212063.28	212755.57	692.29	SEMIROCK - H1
194	212755.57	215742.48	2986.91	EARTH
195	215742.48	216918.55	1176.07	SEMIROCK - H1
196	216918.55	217067.64	149.09	EARTH
197	217067.64	217214.42	146.78	SEMIROCK - H1
198	217214.42	217353.93	139.51	EARTH
199	217353.93	217824.07	470.14	SEMIROCK - H1
200	217824.07	218183.18	359.11	EARTH
201	218183.18	218212.58	29.40	SEMIROCK - H1
202	218212.58	220622.54	2409.96	EARTH
203	220622.54	220719.47	96.93	SEMIROCK - H1
204	220719.47	220741.97	22.50	EARTH
205	220741.97	220757.16	15.19	SEMIROCK - H1
206	220757.16	223503.56	2746.40	EARTH
207	223503.56	227723.53	4219.97	SEMIROCK - H1
208	227723.53	242963.39	15239.86	SEMIROCK - H1
209	242963.39	243027.72	64.33	EARTH
210	243027.72	243166.51	138.79	SEMIROCK - H1
211	243166.51	243211.60	45.09	EARTH
212	243211.60	243345.24	133.64	SEMIROCK - H1
213	243345.24	243366.12	20.88	EARTH
214	243366.12	243571.46	205.34	SEMIROCK - H1
215	243571.46	246453.79	2882.33	EARTH
216	246453.79	247099.63	645.84	SEMIROCK - H1
217	247099.63	249277.84	2178.21	EARTH

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
218	249277.84	249463.39	185.55	SEMIROCK - H1
219	249463.39	250839.62	1376.23	EARTH
220	250839.62	263089.75	12250.13	SEMIROCK - H1
221	263089.75	263561.80	472.05	EARTH
222	263561.80	286338.01	22776.21	SEMIROCK - H2
223	286338.01	286416.75	78.74	SEMIROCK - H1
224	286416.75	286429.98	13.23	EARTH
225	286429.98	286694.92	264.94	SEMIROCK - H1
226	286694.92	286721.65	26.73	EARTH
227	286721.65	288101.97	1380.32	SEMIROCK - H1
228	288101.97	288117.30	15.33	EARTH
229	288117.30	288806.31	689.01	SEMIROCK - H1
230	288806.31	298071.37	9265.06	EARTH
231	298071.37	298342.96	271.59	SEMIROCK - H2
232	298342.96	300058.27	1715.31	EARTH

Data from: "Soil classification list along the pipeline route base case for excavatability purposes, Document No: P616-100-LS-GEO-01 Rev2, C&M and SAIPEM,2021

Table M-5 Soil Classification along the Pipeline Route BRANCH MEGALOPOLIS

SEQ. No	FROM KP (km	TO KP (km)	LENGTH (m)	EXCAVATABILITY CLASS
1	0.00	121.69	121.69	SEMIROCK-H2
2	121.69	659.89	538.20	SEMIROC - H1
3	659.89	851.93	192.04	EARTH
4	851.93	4226.099	3374.16	SEMIROC - H1
5	4226.09	4772.64	546.55	EARTH
6	4772.64	6644.78	1872.14	SEMIROCK-H1
7	6644.78	6785.96	141.18	EARTH
8	6785.96	7445.02	659.06	SEMIROCK-H1
9	7445.02	7529.12	84.10	EARTH
10	7529.12	9019.47	1490.35	SEMIROCK-H1

11	9019.47	9274.30	254.83	EARTH
12	9274.30	9892.87	618.57	SEMIROCK-H1

Data from: "Soil classification list along the pipeline route base case for excavatability purposes,Document No: P616-100-LS-GEO-01 Rev2, C&M and SAIPEM,2021

Table M-6 Soil Classification along the Pipeline Route CCS2-West Greece

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
1	0.00	8515.87	8515.87	EARTH
2	8515.87	8568	51.99	SEMIROCK - H2
3	8567.86	9247	678.77	EARTH
4	9246.63	27981	18734.77	SEMIROCK - H2
5	27981.4	30305	2323.93	EARTH
6	30305.4	32656	2350.67	SEMIROCK - H1
7	32656	33266	610.19	EARTH
8	33266.2	34069	802.89	SEMIROCK - H1
9	34069.1	34352	282.74	EARTH
10	34351.9	35014	662.53	SEMIROCK - H1
11	35014.4	60918	25903.30	EARTH
12	60917.7	62556	1638.12	SEMIROCK - H1
13	62555.9	64185	1629.21	EARTH
14	64185.1	64303	117.76	SEMIROCK - H1
15	64302.8	64407	104.02	ROCK
16	64406.9	64675	267.74	SEMIROCK - H1
17	64674.6	64803	128.57	ROCK
18	64803.2	64829	25.80	SEMIROCK - H1
19	64829.0	64844	14.88	ROCK
20	64843.8	65124	280.46	SEMIROCK - H1
21	65124.3	73200	8076.00	ROCK
22	73200.3	89394	16193.40	SEMIROCK - H2
23	89393.7	89745	351.89	EARTH
24	89745.30	125114	35368.70	SEMIROCK - H2
25	125114	126260	1146.19	EARTH
26	126260	126453	193.07	SEMIROCK - H2
27	126453	169794	43340.60	EARTH
28	169794	170950	1156.73	SEMIROCK - H2

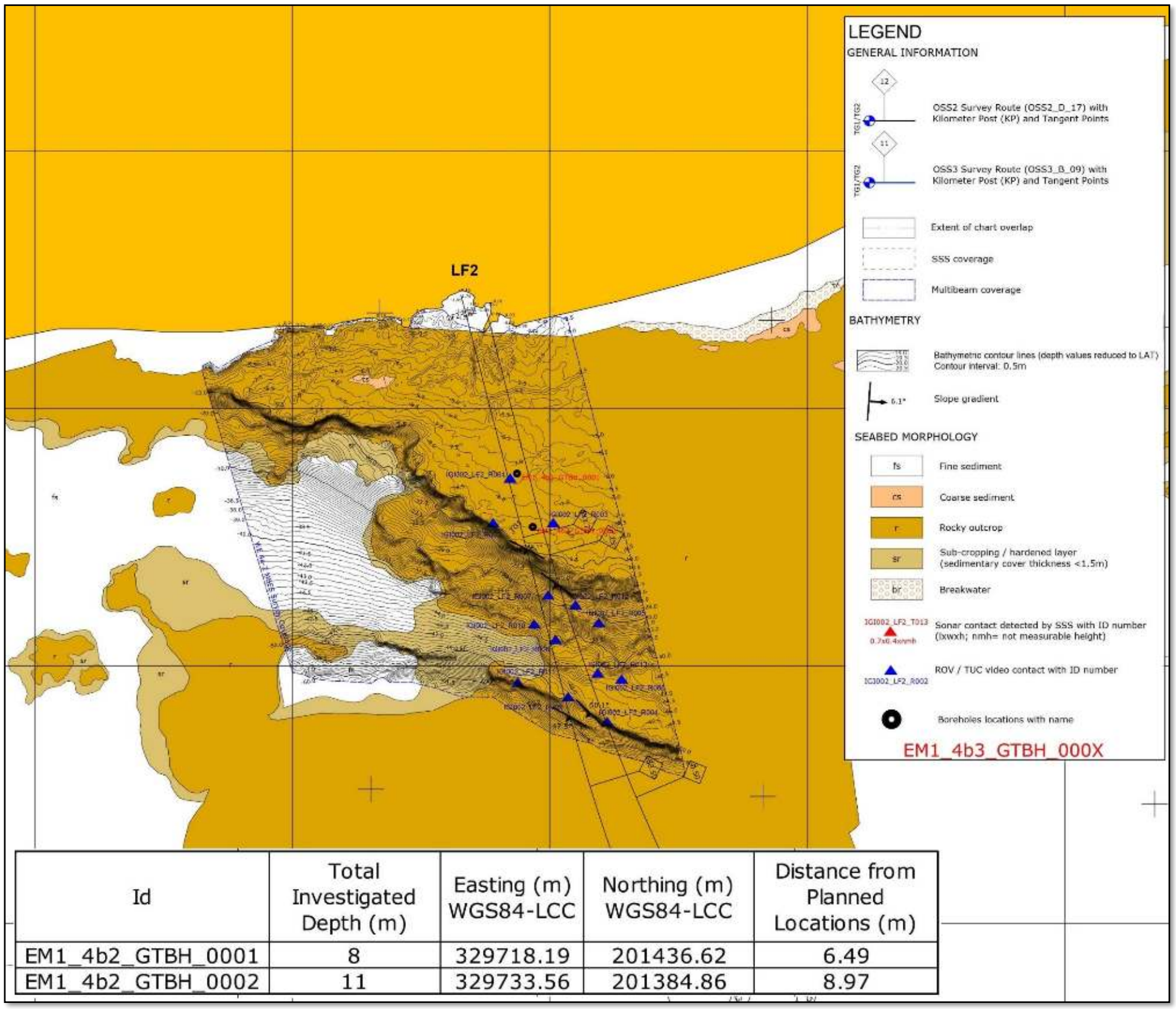
SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
29	170950	171120	169.57	EARTH
30	171120	171340	220.45	SEMIROCK - H2
31	171340	174382	3041.36	EARTH
32	174382	176450	2068.21	SEMIROCK - H2
33	176450	176515	65.26	EARTH
34	176515	177228	712.92	SEMIROCK - H2
35	177228	178744	1515.59	EARTH
36	1787440	179115	371.86	SEMIROCK - H2
37	179115	180824	1708.15	EARTH
38	180824	181507	683.27	SEMIROCK - H1
39	181507	181817	309.99	EARTH
40	181817	182937	1120.00	SEMIROCK - H1
41	182937	183602	665.00	ROCK
42	18360	183668	66.49	SEMIROCK - H2
43	183668	183908	239.78	EARTH
44	183908	184180	271.88	ROCK
45	184180	184395	215.46	SEMIROCK - H2
46	184395	184820	424.23	SEMIROCK - H1
47	18482	186178	1358.19	EARTH
48	186178	186633	455.00	ROCK
49	186633	186696	63.59	EARTH
50	186696	188986	2289.47	SEMIROCK - H2
51	188986	189784	798.51	ROCK
52	189784	190237	453.02	SEMIROCK - H2
53	190237	193085	2847.78	ROCK
54	193085	202833	9748.58	EARTH
55	202833	203294	460.89	ROCK
56	203294	205231	1936.56	EARTH
57	205231	206013	782.59	ROCK
58	206013	208384	2370.32	EARTH
59	208384	209096	712.20	ROCK
60	209096	209504	408.43	EARTH
61	209504	210881	1376.18	ROCK
62	210881	211308	427.68	EARTH
63	211308	213142	1834.01	ROCK

SEQ. No	FROM KP (m	TO KP (m)	LENGTH (m)	EXCAVATABILITY CLASS
64	213142	213557	414.68	SEMIROCK - H1
65	213557	213884	327.35	EARTH
66	213884	215423	1538.23	SEMIROCK - H1
67	215423	215893	470.00	SEMIROCK - H2
68	215893	216420	527.05	SEMIROCK - H1
69	216420	219295	2875.04	EARTH
70	219295	219749	454.59	SEMIROCK - H2
71	219749	220009	259.99	EARTH
72	220009	220153	143.18	SEMIROCK - H2
73	220153	222007	1854.06	EARTH
74	222007	222985	978.64	SEMIROCK - H1
75	222985	223554	569.10	EARTH
76	223554	224561	1007.03	SEMIROCK - H1
77	224561	225018	457.00	ROCK
78	225018	226228	1210.26	EARTH
79	226228	226400	172.21	SEMIROCK - H2
80	226400	226620	219.54	EARTH
81	226620	226758	138.52	SEMIROCK - H2
82	226758	226993	234.31	ROCK
83	226993	227230	237.44	EARTH
84	227230	227285	54.99	ROCK
85	227285	228354	1069.27	EARTH
86	228354	229832	1477.47	ROCK
87	229832	229885	52.88	SEMIROCK - H2
88	229885	233127	3242.00	ROCK

Data from: "Soil classification list along the pipeline route base case for excavatability purposes, Document No: P616-100-LS-GEO-01 Rev2, C&M and SAIPEM,2021

8 M.1.3.2 Geotechnical-Seismic data at LFs Locations

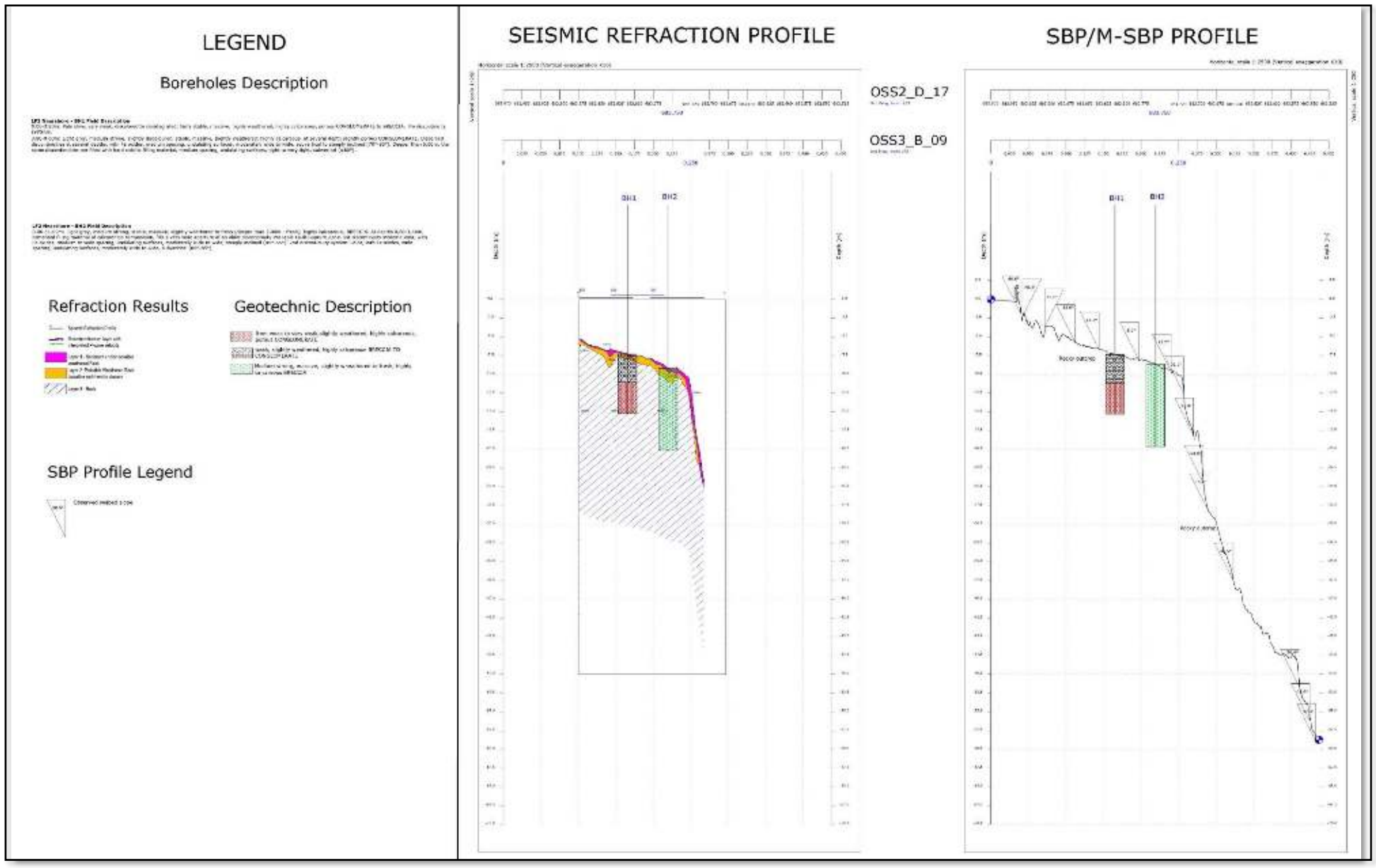
At this subsection maps with borehole locations at Landfalls locations and relative profiles are presented.



Id	Total Investigated Depth (m)	Easting (m) WGS84-LCC	Northing (m) WGS84-LCC	Distance from Planned Locations (m)
EM1_4b2_GTBH_0001	8	329718.19	201436.62	6.49
EM1_4b2_GTBH_0002	11	329733.56	201384.86	8.97

Data from: Nearshore Geotechnical Report for LF2, Document No E780-IGI002-WE4b2-PRC-RNGt-LF2-C2" Lighthouse 2021

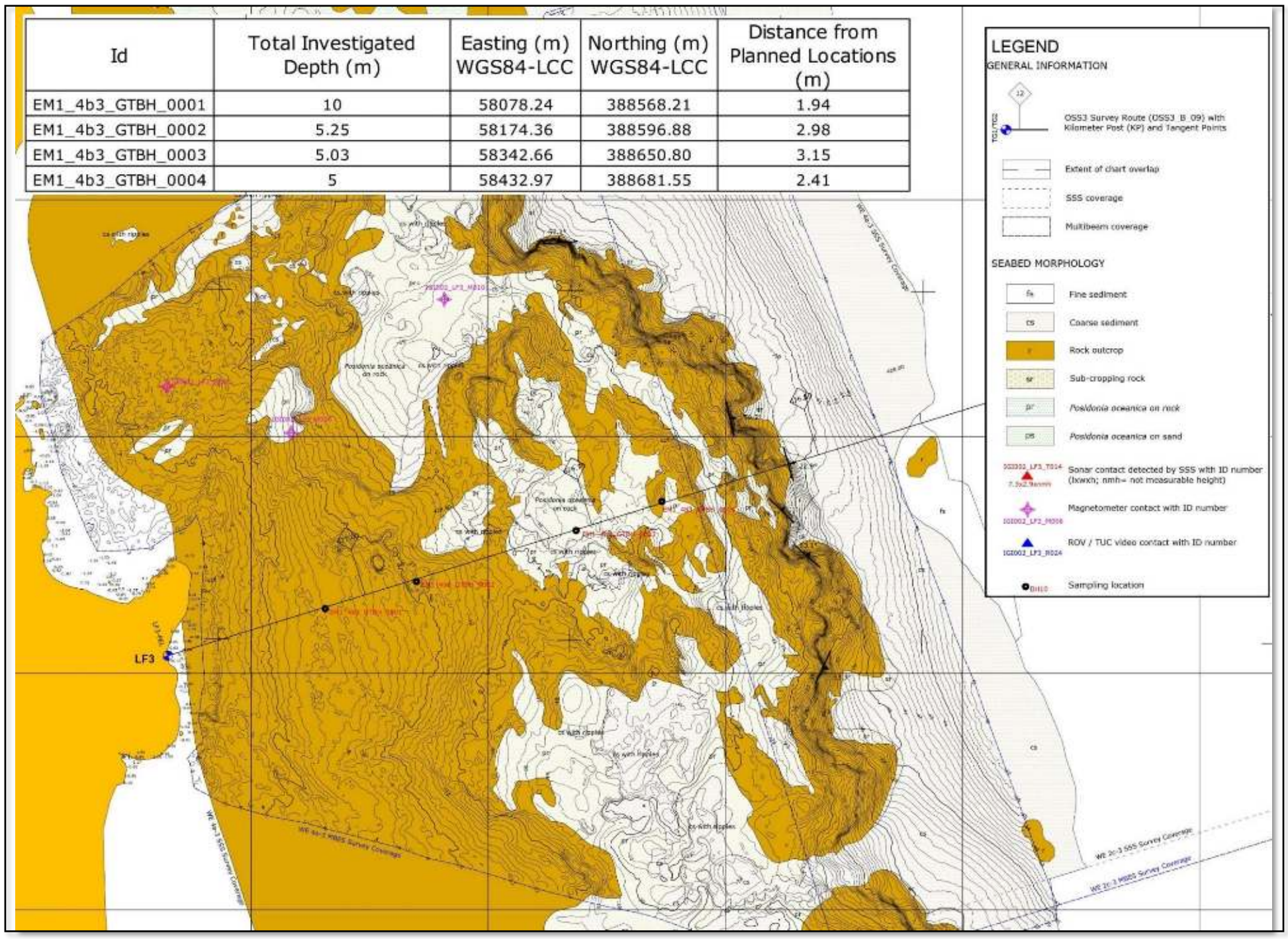
Figure M-3 LF2 Geological Map Borehole locations



Data from: Nearshore Geotechnical Report for LF2, Document No E780-IGI002-WE4b2-PRC-RNGt-LF2-C2" Lighthouse 2021

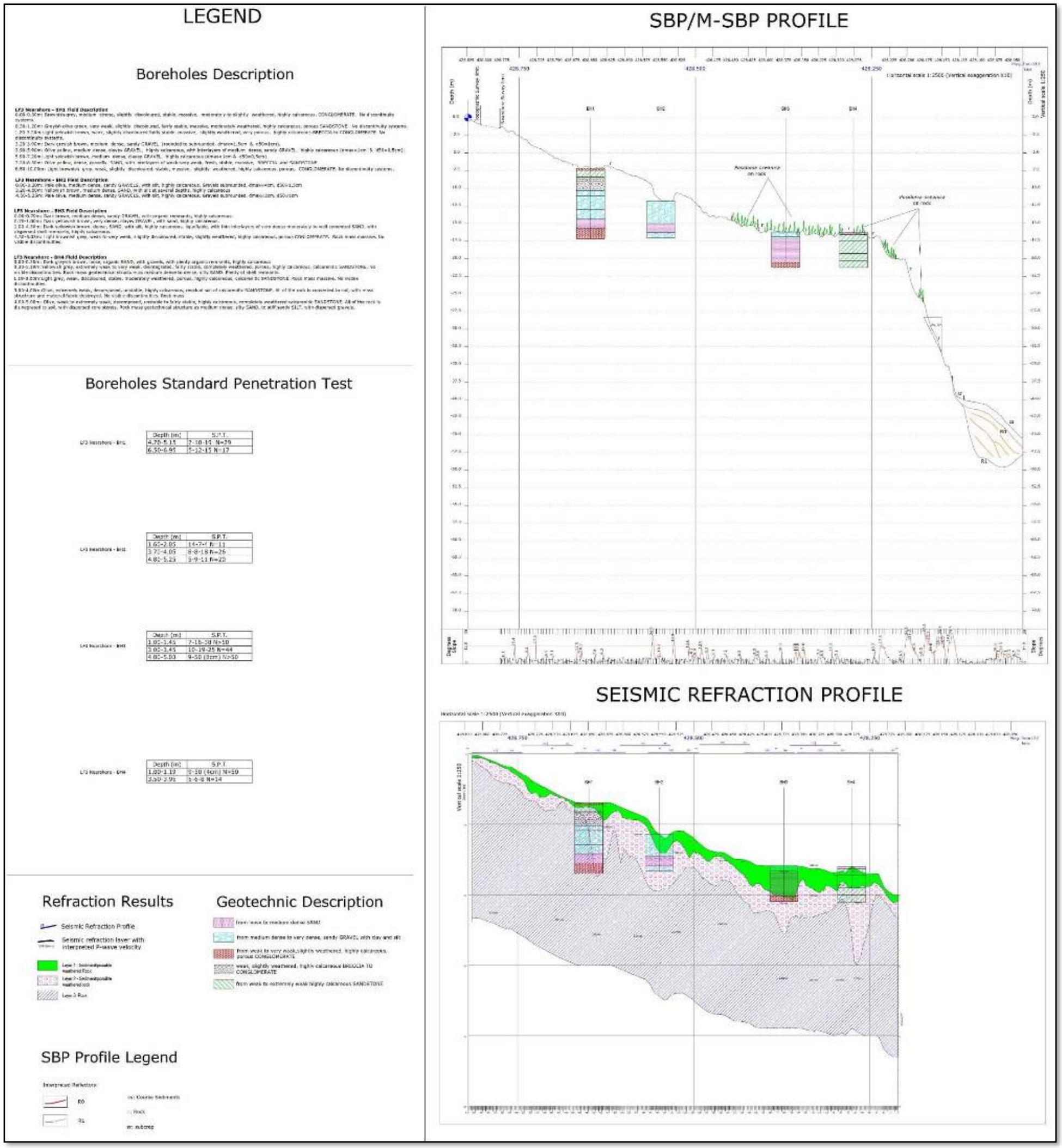
Figure M-4LF2 Geotechnical-Seismic profile

Id	Total Investigated Depth (m)	Easting (m) WGS84-LCC	Northing (m) WGS84-LCC	Distance from Planned Locations (m)
EM1_4b3_GTBH_0001	10	58078.24	388568.21	1.94
EM1_4b3_GTBH_0002	5.25	58174.36	388596.88	2.98
EM1_4b3_GTBH_0003	5.03	58342.66	388650.80	3.15
EM1_4b3_GTBH_0004	5	58432.97	388681.55	2.41



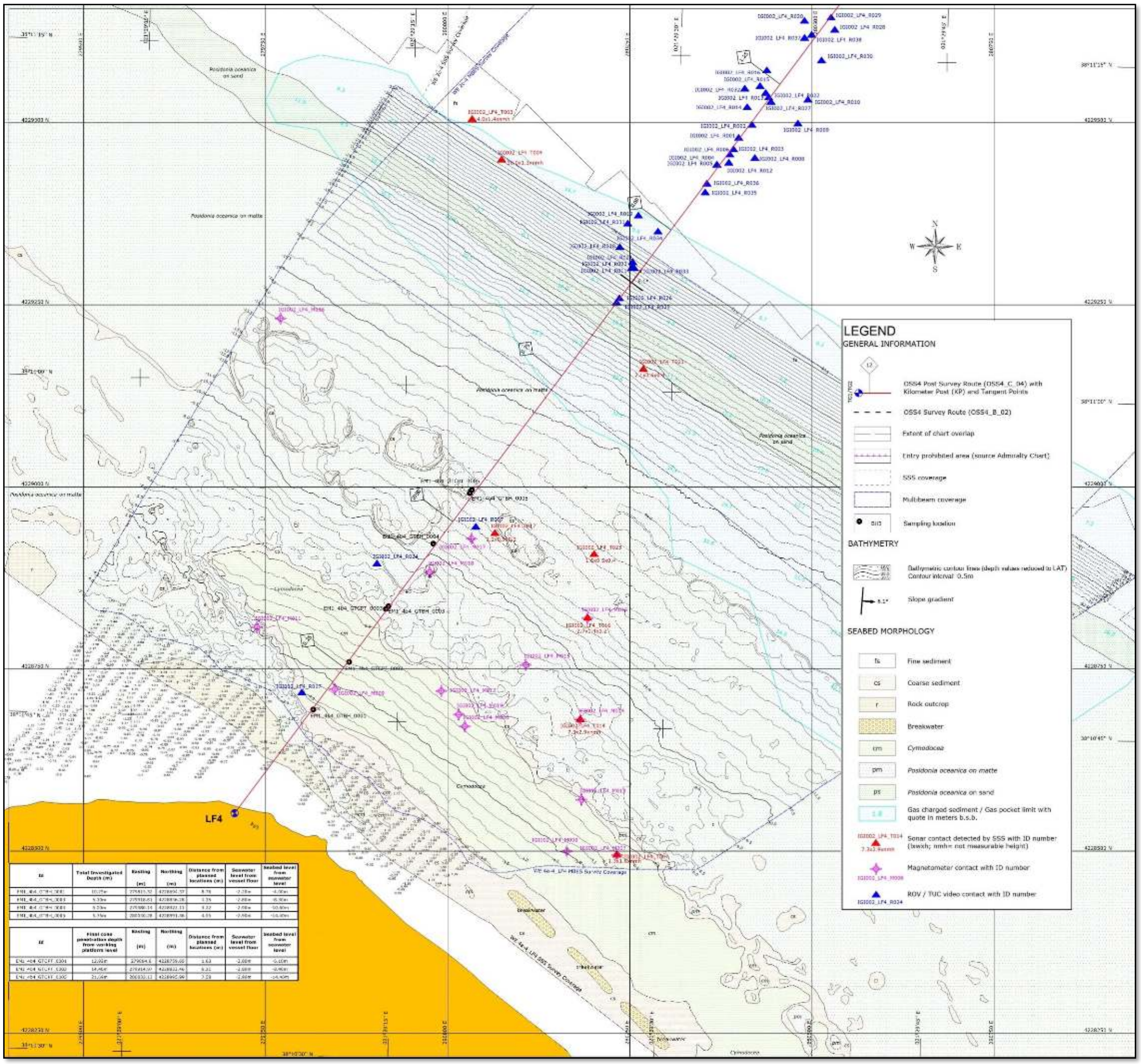
WEb3-PRC-RNGt-LF3-C2,Lighthouse,2021

Figure M-5LF3 Geological Map Borehole locations



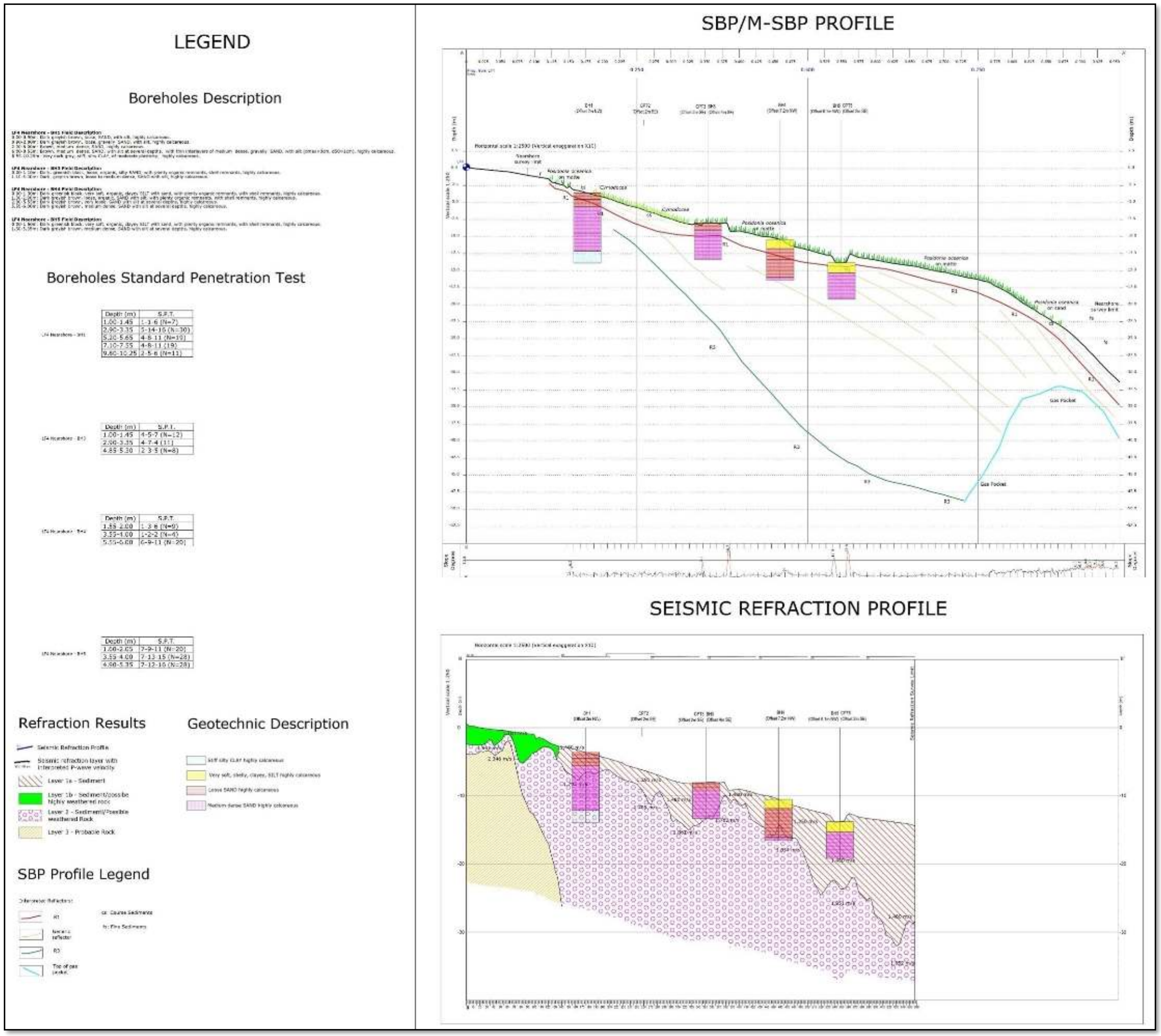
Data from: Nearshore Geotechnical Report-LF3,Document No E780-IGI002-Web3-PRC-RNGt-LF3-C2,Lighthouse, 2021

Figure M-6 LF3 Geotechnical-Seismic profile



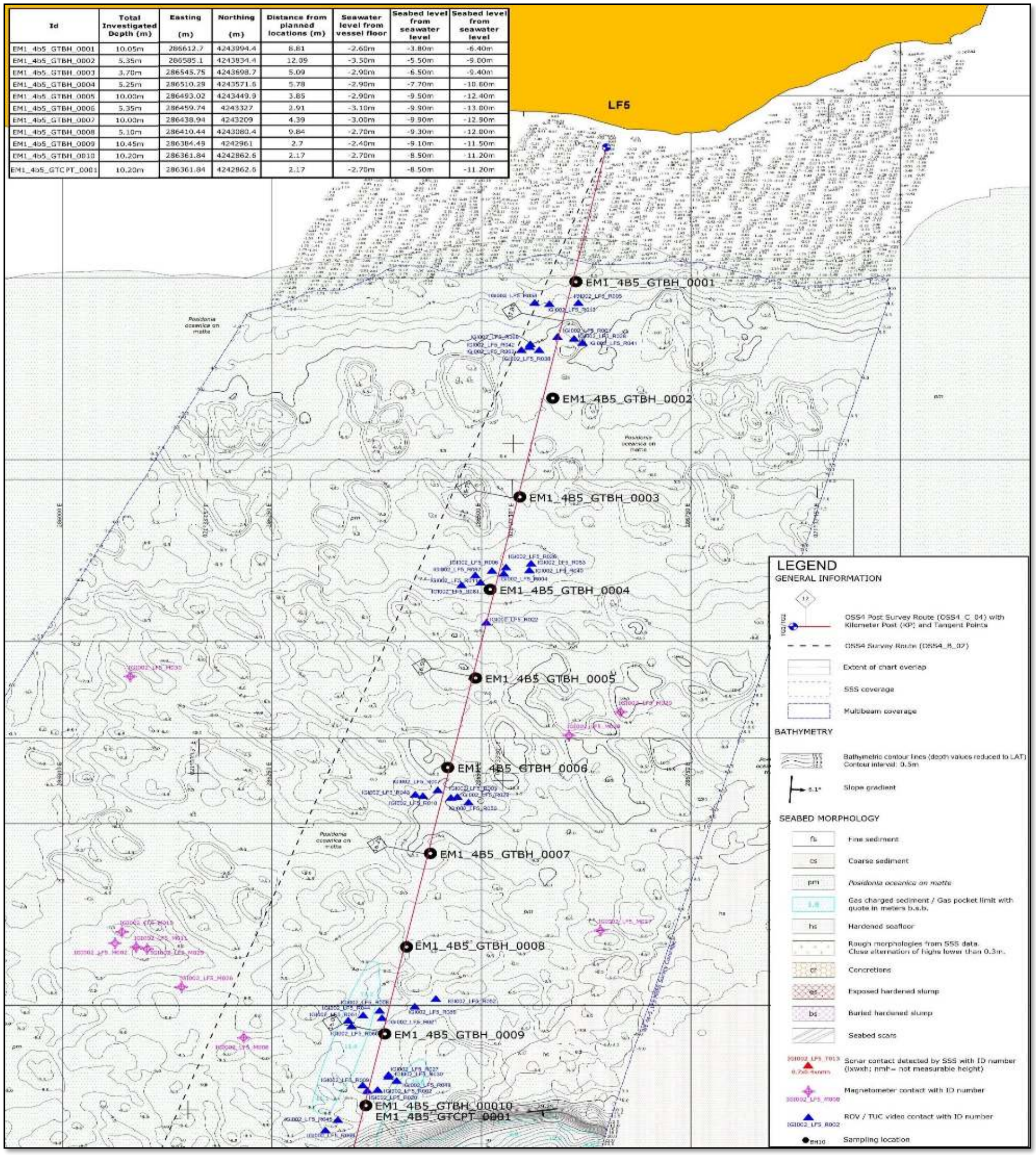
Data from: Nearshore Geotechnical Report-LF4,Document No E780-IGI002-Web4-PRC-RNGt-LF4-C2,Lighthouse,2021

Figure M-7 LF4 Geological Map-Borehole Locations



Data from: Nearshore Geotechnical Report-LF4,Document No E780-IGI002-Web4-PRC-RNGt-LF4-C2,Lighthouse,2021

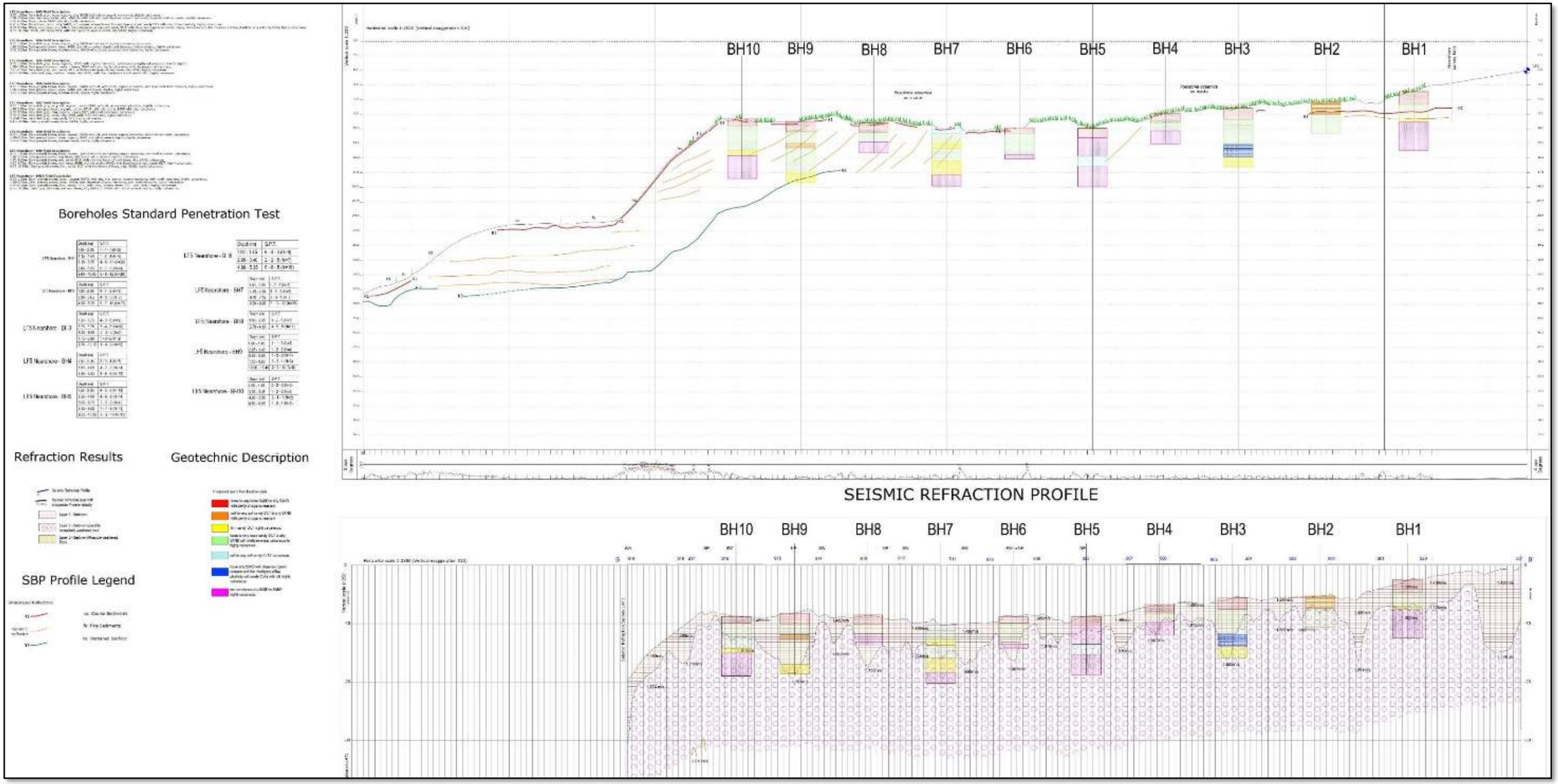
Figure M-8 LF4 Geotechnical-Seismic Profile



Id	Total Investigated Depth (m)	Easting (m)	Northing (m)	Distance from planned locations (m)	Seawater level from vessel floor	Seabed level from seawater level	Seabed level from seawater level
EM1_4b5_GTBH_0001	10.05m	286612.7	4243994.4	8.81	-2.60m	-3.80m	-6.40m
EM1_4b5_GTBH_0002	5.35m	286585.1	4243834.4	12.09	-3.50m	-5.50m	-9.00m
EM1_4b5_GTBH_0003	3.70m	286545.75	4243698.7	5.09	-2.90m	-6.50m	-9.40m
EM1_4b5_GTBH_0004	5.25m	286510.28	4243571.6	5.78	-2.90m	-7.70m	-10.60m
EM1_4b5_GTBH_0005	10.03m	286493.02	4243449.9	3.85	-2.90m	-9.50m	-12.40m
EM1_4b5_GTBH_0006	5.35m	286459.74	4243327	2.91	-3.10m	-9.90m	-13.00m
EM1_4b5_GTBH_0007	10.03m	286438.94	4243209	4.39	-3.00m	-9.90m	-12.90m
EM1_4b5_GTBH_0008	5.10m	286410.44	4243080.4	9.84	-2.70m	-9.30m	-12.00m
EM1_4b5_GTBH_0009	10.45m	286384.49	4242961	2.7	-2.40m	-9.10m	-11.50m
EM1_4b5_GTBH_0010	10.20m	286361.84	4242862.6	2.17	-2.70m	-8.50m	-11.20m
EM1_4b5_GTCPT_0001	10.20m	286361.84	4242862.6	2.17	-2.70m	-8.50m	-11.20m

Data from: Nearshore Geotechnical Report-LF5,Document No E780-IGI002-Web4b5-PRC-RNGt-LF5-C2,Lighthouse,2021

Figure M-9 LF5 Geological Map-Borehole Locations



Data from: Nearshore Geotechnical Report-LF5,Document No E780-IGI002-Web4b5-PRC-RNGt-LF5-C2,Lighthouse,2021

Figure M-10 LF5 Geotechnical -Seismic Profile

8 M.1.4. Tectonic Characteristics

At this subsection tectonic and structural data on the faults that cut the onshore route are presented (Table M-7 and Table M-8).

In particular, faults are assessed as:

• Active, if they have been activated during Holocene (over the past 10,000 years).

• Probable Active, if they have been activated once over the last 50,000 years or more than once over the last 500,000 years.

• Capable, if they show no clear imprints of present day activity, but they have been activated in Quaternary Period.

For reader's convenience the active faults are marked in red, the probable faults in orange and the capable faults in green colour

8 M.1.4.1 Tectonic and structrural data on the faults that cut the onshore route

Table M-7 Tectonic and structural data of the faults that cut the CCS1, including the Megalopolis Branch, of the EastMed Pipeline route

FAULT ID	ACTIVITY	DIP	FAULT TYPE	LENGTH SEGMENT (m)
102a	ACTIVE FAULT	SE	PROBABLE OR COVERED NORMAL	1144.86
114	ACTIVE FAULT	SE	NORMAL	10216.36
115	PROPABLE ACTIVE FAULT	WSW	NORMAL	5394.70
116	PROPABLE ACTIVE FAULT	SW	NORMAL	8295.60
124	PROPABLE ACTIVE FAULT	SW	NORMAL	5431.40
133	ACTIVE FAULT	NE	NORMAL	63908.47
273	PROPABLE ACTIVE FAULT	W	NORMAL	684.65

FAULT ID	ACTIVITY	DIP	FAULT TYPE	LENGTH SEGMENT (m)
274	PROPABLE ACTIVE FAULT	NW	NORMAL	1540.28
284	PROPABLE ACTIVE FAULT	SW	PROBABLE OR COVERED NORMAL	8506.60
312	PROPABLE ACTIVE FAULT	W	NORMAL	496.72
392	PROPABLE ACTIVE FAULT	SSW	NORMAL	2077.32
393	CAPABLE	NNW	NORMAL	966.56
394	CAPABLE	SSE	NORMAL	950.91
575	CAPABLE	NE	PROBABLE OR COVERED NORMAL	3639.64
576	CAPABLE	NNW	PROBABLE OR COVERED NORMAL	4289.68
577	CAPABLE	NNW	PROBABLE OR COVERED NORMAL	4668.76
580	CAPABLE	NNW	PROBABLE OR COVERED NORMAL	5705.37
581	CAPABLE	NNW	PROBABLE OR COVERED NORMAL	7773.29
582	CAPABLE	NNW	PROBABLE OR COVERED NORMAL	6139.48
583	CAPABLE	NNW	PROBABLE OR COVERED NORMAL	10391.95
595	ACTIVE FAULT	SSE	NORMAL	882.27
603	PROPABLE ACTIVE FAULT	SSW	NORMAL	3525.72
604	ACTIVE FAULT	SE	NORMAL	2354.81
607	PROPABLE ACTIVE FAULT	SSW	PROBABLE OR COVERED NORMAL	2961.38

FAULT ID	ACTIVITY	DIP	FAULT TYPE	LENGTH SEGMENT (m)
610	PROPABLE ACTIVE FAULT	NE	PROBABLE OR COVERED NORMAL	2829.78
611	ACTIVE FAULT	SSW	PROBABLE OR COVERED NORMAL	2190.03
613	ACTIVE FAULT	NW	NORMAL	4662.39
615	ACTIVE FAULT	NW	NORMAL	7140.99
617	ACTIVE FAULT	NNW	PROBABLE OR COVERED NORMAL	6673.63
618	PROPABLE ACTIVE FAULT	SW	PROBABLE OR COVERED NORMAL	4410.05
626	PROPABLE ACTIVE FAULT	SE	PROBABLE OR COVERED NORMAL	10021.72
628	PROPABLE ACTIVE FAULT	SSW	NORMAL	9834.54
629	PROPABLE ACTIVE FAULT	SSW	NORMAL	3829.74
635	ACTIVE FAULT	SSW	NORMAL	2942.17
697	PROPABLE ACTIVE FAULT	NNW	PROBABLE OR COVERED NORMAL	2923.46
703	PROPABLE ACTIVE FAULT	NE	NORMAL	3327.29

Data from: "P616-100-RP-GEO-01,Rev2, Geological/Geotechnical Reconnaissance Report along the pipeline route basecase" Document No P616-100-RP-GEO-01,Rev2, C&M and SAIPEM 2021

Table M-8 Tectonic and structural data of the faults that cut the CCS2, of the EastMed Pipeline route (Route as of 22-06-2021).

FAULT ID	ACTIVITY	DIP	FAULT TYPE	LENGTH SEGMENT (m)
745	ACTIVE FAULT	NNE	NORMAL	8836.15 8

FAULT ID	ACTIVITY	DIP	FAULT TYPE	LENGTH SEGMENT (m)
768	ACTIVE FAULT	SSW	NORMAL	4367.25
823	ACTIVE FAULT	SW	PROBABLE OR COVERED OBLIQUE SINISTRAL STRIKE SLIP.	20465.66
834	ACTIVE FAULT	SSE	PROBABLE OR COVERED DEXTRAL OBLIQUE NORMAL	12739.06
834a	ACTIVE FAULT	SSE	NORMAL	22274.45
872	PROBABLE ACTIVE FAULT	S	PROBABE OR COVERED NORMAL	901.11
911	CAPABLE FAULT	NE	PROBABE OR COVERED NORMAL	1350.08
916	ACTIVE FAULT		PROPABLE OVERTHRUST	15349.47

Data from: "P616-100-RP-GEO-01,Rev2, Geological/Geotechnical Reconnaissance Report along the pipeline route basecase" Document No P616-100-RP-GEO-01,Rev2, C&M and SAIPEM 2021

8 M.1.5. Geohazards Characteristics

At this subsection are presented the following geohazard s characteristics :

- Landslide susceptibility phenomena along onshore route (Table M-9 , Table M-10);
- Liquefaction susceptibility of areas along the ohshore route (Table M-11, Table M-12, Table M-13); and
- Main Geohazards areas alongside the offshore route (Table M-14, Table M-18).

8 M.1.5.1 Landslides susceptibility phenomena along onshore route

Table M-9 Main characteristics of geohazards concerning landslide susceptibility phenomena along the CCS1 of the EastMed Pipeline route

Geohazard Area (Approx.)		Geological Formation	Landslide Susceptibility
From KP (m)	To KP (m)		
1849.2	2228.3	Al-bearing clastic rocks of conglomerates, sandstones and shales/ Limestones, dolomitic limestones and	Low
7642.4	8220.6	Phyllites, schists and quartzites with small occurrences of marbles	Low
90224.2	90517.3	Marls and red clays	Moderate
157247.1	157790.8	Scree and talus cones	Moderate
170957.4	171431.1	Platy limestones/First	Moderate
179275.3	180325.7	Platy limestones/First	Moderate
185817.8	186511.9	First Flysch of sandstones, marls, limestones,	Moderate
188625.1	188694.8	First Flysch of sandstones, marls, limestones, radiolarites, diavases	High
199142.3	199809.7	Marls, clays, loams and lignite layers	Moderate
231354.7	231767.4	Pleistocene fluvial terrestrial and lacustrine	Moderate
237130.7	237213.8	Pleistocene fluvial terrestrial and lacustrine	Moderate
239095.5	239252.5	Pleistocene fluvial terrestrial and lacustrine	High
240987.3	241369.9	Pleistocene fluvial terrestrial and lacustrine	High
255122.5	255579.7	Pleistocene fluvial terrestrial and lacustrine	Moderate
256541.6	256734.4	Pleistocene fluvial terrestrial and lacustrine	Moderate
256968.6	257318.3	Pleistocene fluvial terrestrial and lacustrine	Moderate
269317.2	270220.1	Gabrovo Flysch of shales, siltstones, sandy marls,	Moderate

Data from: "Geological Evaluation Report along the pipeline route, Document No P616-100-RP-GEO-02, Rev2", C&M and SAIPEM,2021

Table M-10 Main characteristics of geohazards concerning landslide susceptibility phenomena along the CCS2 of the EastMed Pipeline route

Geohazard Area (Approx.)		Geological Formation	Landslide Susceptibility
From KP (m)	To KP (m)		
13390.7	16872.3	Flysch of Sandstones alternating with thin layers	High
82930.1	86903.8	Flysch of Sandstones alternating with thin layers of shales and conglomerates	High
87497.6	88279.9	Flysch of Sandstones alternating with thin layers of shales and conglomerates	High
94462.3	95132.6	Flysch of Shales alternating with pelite layers, marly silts and sandstones	Moderate
101679.4	102169.8	Flysch of Shales alternating with pelite layers, marly silts	Moderate
109772.9	111474.7	Flysch of Sandstones alternating with thin layers of shales and conglomerates / Shales alternating with	High
121877.3	123035.2	Flysch of Shales alternating with pelite layers, marly silts and sandstones	Moderate
181735.7	183253.5	Scree and talus cones/Marls and red clays/Ammonitico Rosso facies	Moderate
229621.1	229774.3	Crystalline platy limestones alternating with chert intercalations of Vigla	Low

Data from: Geological Evaluation Report along the pipeline route, Document No P616-100-RP-GEO-02, Rev2", C&M and SAIPEM,2021

8 M.1.5.2 Liquefaction susceptibility of areas along the ohshore route

Table M-11 Liquefaction susceptibility of areas along the CCS1 section of the EastMed Pipeline route

SEQ. No	FROM KP (m)	TO KP (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
1	222.2	667.6	Alluvial unconsolidated deposits	Low
2	15842.4	15979.5	Alluvial unconsolidated deposits	Low
3	21207.7	21348.5	Pleistocene fluvial terrestrial and lacustrine deposits.	Low
4	21845.5	23071.2	Pleistocene fluvial terrestrial and lacustrine deposits.	Low
5	26218.1	27173.0	Pleistocene fluvial terrestrial and lacustrine deposits.	Low
6	29432.5	38887.8	Alluvial unconsolidated deposits	Low
7	56744.8	61702.1	Continental cohesive breccio-conglomerates	Very low
8	61702.1	61997.4	Marls, clays, loams and lignite layers.	Very low
9	61997.4	62108.0	Continental cohesive breccio-conglomerates	Very low
10	62108.0	62248.3	Marls, clays, loams and lignite layers.	Very low
11	62248.3	63693.0	Continental cohesive breccio-conglomerates	Very low
12	63693.0	64092.4	Marls, clays, loams and lignite layers.	Very low
13	64092.4	64350.7	Continental cohesive breccio-conglomerates	Very low
14	64350.7	77781.6	Marls, clays, loams and lignite layers.	Very low
15	89904.8	90235.6	Marls and red clays	Very low
16	90586.7	93999.8	Marls and red clays	Very low

SEQ. No	FROM KP (m)	TO KP (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
17	94455.0	95074.8	Marls and red clays	Very low
18	96687.0	97552.6	Alluvial unconsolidated deposits	Low
19	101246.9	101451.4	Alluvial unconsolidated deposits	Low
20	102428.1	102498.4	Alluvial unconsolidated deposits	Low
21	104495.5	104561.0	Alluvial unconsolidated deposits	Low
22	107329.3	107391.3	Alluvial unconsolidated deposits	Low
23	110063.8	110548.2	Alluvial unconsolidated deposits	Low
24	111608.8	111826.3	Alluvial unconsolidated deposits	Low
25	112733.8	112932.9	Alluvial unconsolidated deposits	Low
26	113236.7	113342.5	Alluvial unconsolidated deposits	Low
27	116667.2	116784.4	Alluvial unconsolidated deposits	Low
28	127562.9	128544.7	Alluvial unconsolidated deposits	Low
29	133848.4	134636.5	Alluvial unconsolidated deposits	Low
30	139707.7	140642.4	Alluvial unconsolidated deposits	Low
31	140710.1	140792.6	Alluvial unconsolidated deposits	Low
32	143641.2	146278.2	Alluvial unconsolidated deposits	Low
33	146278.2	146610.9	Fluvial terraces	Very low
34	146631.5	146719.3	Fluvial terraces	Very low

SEQ. No	FROM KP (m)	TO KP (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
35	146768.0	146839.9	Fluvial terraces	Very low
36	146844.5	146909.9	Fluvial terraces	Very low
37	147578.5	147667.4	Alluvial unconsolidated deposits	Low
38	148186.1	148316.6	Alluvial unconsolidated deposits	Low
39	149662.9	149764.8	Fluvial terraces	Very low
40	149764.8	149892.1	Alluvial unconsolidated deposits	Low
41	149892.1	150021.2	Fluvial terraces	Very low
42	150021.2	150198.7	Alluvial unconsolidated deposits	Low
43	151100.0	151165.5	Alluvial unconsolidated deposits	Low
44	151374.2	151472.5	Alluvial unconsolidated deposits	Low
45	151830.5	151862.5	Alluvial unconsolidated deposits	Low
46	157405.6	157503.2	Alluvial unconsolidated deposits	Low
47	158602.9	159670.4	Alluvial unconsolidated deposits	Low
48	161527.4	161643.8	Alluvial unconsolidated deposits	Low
49	164507.3	164738.3	Alluvial unconsolidated deposits	Low
50	165923.6	165977.5	Fluvial terraces	Very low
51	202061.5	202279.6	Fluvial terraces	Low
52	202279.6	202995.3	Alluvial unconsolidated deposits	Low

SEQ. No	FROM KP (m)	TO KP (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
53	202995.3	204068.7	Fluvial terraces	Low
54	204068.7	204605.5	Alluvial unconsolidated deposits	Low
55	204605.5	205110.5	Fluvial terraces	Low
56	242963.4	243027.7	Alluvial unconsolidated deposits	Low
57	243166.5	243211.6	Alluvial unconsolidated deposits	Low
58	243345.2	243366.1	Alluvial unconsolidated deposits	Low
59	243571.5	246453.8	Alluvial unconsolidated deposits	Low
60	246453.8	247099.6	Marine, brackish and lacustrine sequences of fine sands, sandy, silty, clayey deposits and sandstones	Very low
61	247099.6	249277.8	Alluvial unconsolidated deposits	Low
62	249463.4	250839.6	Alluvial unconsolidated deposits	Low
63	263089.7	263561.8	Alluvial unconsolidated deposits	Low
64	286338.0	286416.8	Scree and talus cones	Low
65	286416.8	286430.0	Alluvial unconsolidated deposits	Low
66	286694.9	286721.6	Alluvial unconsolidated deposits	Low
67	288102.0	288117.3	Alluvial unconsolidated deposits	Low
68	289019.9	292271.8	Eluvial mantle materials	Very low
69	292271.8	292417.5	Alluvial unconsolidated deposits	Moderate
70	292417.5	292471.4	Eluvial mantle materials	Very low

SEQ. No	FROM KP (m)	TO KP (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
71	292471.4	298071.4	Alluvial unconsolidated deposits	Moderate
72	298343.0	300058.3	Coastal sand deposits and dunes	High

Data from "'Geological Evaluation Report along the pipeline route, Document No P616-100-RP-GEO-02, Rev2", C&M and SAIPEM,2021

Table M-12 Liquefaction susceptibility of areas along the Megalopolis Branch

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
1	659.9	851.9	192.04	Alluvial unconsolidated deposits	Low
2	4226.1	4772.6	546.55	Alluvial unconsolidated deposits	Low
3	6644.8	6786	141.17	Alluvial unconsolidated deposits	Low
4	7445	7529.1	84.10	Alluvial unconsolidated deposits	Low
5	9019.5	9274.3	254.83	Alluvial unconsolidated deposits	Low

Data from: "Geological Evaluation Report along the pipeline route, Document No P616-100-RP-GEO-02, Rev2", C&M and SAIPEM,2021

Table M-13Liquefaction susceptibility of areas along the CCS2 section of the EastMed Pipeline route(as of 18-05-2021).

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
1	36.45	36.45	8479.42	Alluvial unconsolidated deposits	High
2	27914.94	27914.94	66.49	Lacustrine marly limestones, marls, clays, sandstones and conglomerates.	Very low
3	27981.43	27981.43	2323.93	Alluvial unconsolidated deposits	Low
4	32656.03	32656.03	610.18	Alluvial unconsolidated deposits	Low

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
5	34069.11	34069.11	282.74	Alluvial unconsolidated deposits	Low
6	35014.38	35014.38	2225.25	Alluvial unconsolidated deposits	Low
7	37239.63	37239.63	755.4	Lagoonal, coastal, lacustrine and marsh deposits of mud and fine	High
8	37995.03	37995.03	18585.12	Alluvial unconsolidated deposits	Low
9	56580.15	56580.15	1306.92	Fluvial deposits. Unconsolidated sandy-clayey materials, sands and	High
10	57887.07	57887.07	1947.57	Alluvial unconsolidated deposits	Low
11	59834.64	59834.64	1083.09	Alluvial unconsolidated deposits	Low
12	62555.85	62555.85	557.03	Alluvial unconsolidated deposits	Low
13	63112.88	63112.88	1072.18	Alluvial unconsolidated deposits	Low
14	89393.65	89745.54	351.89	Alluvial unconsolidated deposits	Low
15	125113.6	126259.8	1146.19	Alluvial unconsolidated deposits	High
16	126452.9	137568.9	11116.06	Alluvial unconsolidated deposits	High
17	137568.9	168571.9	31002.98	Alluvial unconsolidated deposits	High
18	168571.9	169793.5	1221.58	Alluvial unconsolidated deposits	Low
19	170950.2	171119.8	169.57	Alluvial unconsolidated deposits	Low
20	171340.3	174381.6	3041.36	Alluvial unconsolidated deposits	Low
21	176449.8	176515.1	65.26	Alluvial unconsolidated deposits	Low
22	177228	178743.6	1515.58	Alluvial unconsolidated deposits	Low

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
23	179115.4	180823.6	1708.15	Alluvial unconsolidated deposits	Low
24	181506.9	181816.9	309.99	Alluvial unconsolidated deposits	Low
25	183668.3	183908	239.78	Alluvial unconsolidated deposits	Low
26	184819.6	186177.8	1358.19	Alluvial unconsolidated deposits	Low
27	186632.5	186696.1	63.59	Alluvial unconsolidated deposits	Low
28	193084.9	197428.6	4343.72	Alluvial unconsolidated deposits	Moderate
29	197428.6	202833.5	5404.86	Alluvial unconsolidated deposits	Low
30	203294.4	205230.9	1936.55	Alluvial unconsolidated deposits	Low
31	206013.5	208106.4	2092.88	Alluvial unconsolidated deposits	Low
32	208106.4	208383.8	277.44	Alluvial unconsolidated deposits	Low
33	209096	209504.4	408.42	Alluvial unconsolidated deposits	Low
34	210880.6	211308.3	427.69	Eluvial mantle materials	Very low
35	213557	213884.3	327.34	Alluvial unconsolidated deposits	Low
36	216419.8	219294.8	2875.04	Alluvial unconsolidated deposits	Low
37	219749.4	220009.4	259.99	Alluvial unconsolidated deposits	Low
38	220152.6	222006.7	1854.06	Alluvial unconsolidated deposits	Low
39	222985.3	223554.4	569.1	Alluvial unconsolidated deposits	Low
40	225017.9	226228.2	1210.26	Alluvial unconsolidated deposits	Low

SEQ. No	FROM KP (m)	TO KP (m)	LENGTH (m)	GEOLOGICAL FORMATION	LIQUEFACTION SUSCEPTIBILITY
41	226400.4	226619.9	219.54	Alluvial unconsolidated deposits	Low
42	226992.8	227230.2	237.44	Alluvial unconsolidated deposits	Low
43	227285.2	228354.5	1069.26	Alluvial unconsolidated deposits	Low

Data from:' Geological Evaluation Report along the pipeline route, Document No P616-100-RP-GEO-02, Rev2", C&M and SAIPEM,2021

8 M.1.5.3 Main Geohazard Areas alongside the Offshore Route

8 M.1.5.3.1 MAIN GEOHAZARD AREAS ALONG OSS2 ROUTE

Table M-14 Main Geohazard Areas alongside the OSS2/OSS2N Route

S/N	Route Section	Crossing Kilometre Position (KP)	Crossing From KP	Crossing To KP	Geohazard Type	
1	OSS2/OSS2N	-	40.30	43.63	Slump deposits	
2	OSS2/OSS2N	271.04	-	-	Landslide scar	
3	OSS2/OSS2N	277.17	-	-	Landslide scar	
4	OSS2/OSS2N	277.84	-	-	Landslide scar	
5	OSS2/OSS2N	298.40	-	-	Fractures	
6	OSS2/OSS2N	300.57	-	-	Fractures	
7	OSS2/OSS2N	301.94	-	-	Fractures	
8	OSS2/OSS2N	303.21	-	-	Fractures	
9	OSS2/OSS2N	304.05	-	-	Fractures	
10	OSS2/OSS2N	306.20	-	-	Fractures	
11	OSS2/OSS2N	307.86	-	-	Fractures	
12	OSS2/OSS2N	-	311.81	319.82	Sediment tilt	
13	OSS2/OSS2N	314.73	-	-	Seabed channel levees	
14	OSS2/OSS2N	315.30	-	-	Seabed channel axis	

S/N	Route Section	Crossing Kilometre Position (KP)	Crossing From KP	Crossing To KP	Geohazard Type	
15	OSS2/OSS2N	315.82	-	-	Seabed channel levees	
16	OSS2/OSS2N	-	326.76	327.44	Slump deposits	
17	OSS2/OSS2N	-	363.52	374.43	Slump deposits	
18	OSS2/OSS2N	-	368.10	375.55	Sediment tilt	
19	OSS2/OSS2N	-	368.10	375.55	Sediment tilt	
20	OSS2/OSS2N	-	375.21	376.57	Amplitude anomaly	
21	OSS2/OSS2N	-	382.82	384.15	Buried slump deposits	
22	OSS2/OSS2N	-	390.29	390.43	Outcrop	

Prepared by ASPROFOS,2022

Table M-15 Faults alongside the route OSS2/OSS2N

S/N	Route Section	Crossing Kilometre Position (KP)	Crossing From KP	Crossing To KP	Geohazard Type	Geometry Type
1	OSS2/OSS2N	240.61	-	-	Probable Faults	
2	OSS2/OSS2N	240.61	-	-	Sub-seabed fault	
3	OSS2/OSS2N	242.60	-	-	Active Faults	
4	OSS2/OSS2N	245.02	-	-	Probable Faults	
5	OSS2/OSS2N	245.02	-	-	Active Faults	
6	OSS2/OSS2N	245.56	-	-	Probable Faults	
7	OSS2/OSS2N	245.56	-	-	Active Faults	
8	OSS2/OSS2N	248.29	-	-	Probable Faults	
9	OSS2/OSS2N	248.29	-	-	Active Faults	
10	OSS2/OSS2N	252.34	-	-	Probable Faults	
11	OSS2/OSS2N	252.34	-	-	Active Faults	

S/N	Route Section	Crossing Kilometre Position (KP)	Crossing From KP	Crossing To KP	Geohazard Type	Geometry Type
12	OSS2/OSS2N	253.76	-	-	Probable Faults	
13	OSS2/OSS2N	253.76	-	-	Active Faults	
14	OSS2/OSS2N	256.14	-	-	Probable Faults	
15	OSS2/OSS2N	256.14	-	-	Active Faults	
16	OSS2/OSS2N	256.82	-	-	Probable Faults	
17	OSS2/OSS2N	256.82	-	-	Active Faults	
18	OSS2/OSS2N	258.19	-	-	Probable Faults	
19	OSS2/OSS2N	258.19	-	-	Sub-seabed fault	
20	OSS2/OSS2N	259.10	-	-	Probable Faults	
21	OSS2/OSS2N	259.10	-	-	Sub-seabed fault	
22	OSS2/OSS2N	260.12	-	-	Probable Faults	
23	OSS2/OSS2N	260.12	-	-	Sub-seabed fault	
24	OSS2/OSS2N	261.77	-	-	Probable Faults	
25	OSS2/OSS2N	261.77	-	-	Active Faults	
26	OSS2/OSS2N	265.33	-	-	Probable Faults	
27	OSS2/OSS2N	265.33	-	-	Sub-seabed fault	
28	OSS2/OSS2N	267.00	-	-	Probable Faults	
29	OSS2/OSS2N	267.00	-	-	Sub-seabed fault	
30	OSS2/OSS2N	277.46	-	-	Probable Faults	
31	OSS2/OSS2N	277.46	-	-	Sub-seabed fault	
32	OSS2/OSS2N	281.76	-	-	Probable Faults	
33	OSS2/OSS2N	281.76	-	-	Active Faults	
34	OSS2/OSS2N	283.58	-	-	Probable Faults	
35	OSS2/OSS2N	283.58	-	-	Active Faults	
36	OSS2/OSS2N	285.09	-	-	Probable Faults	
37	OSS2/OSS2N	285.09	-	-	Active Faults	
38	OSS2/OSS2N	286.03	-	-	Probable Faults	
39	OSS2/OSS2N	286.03	-	-	Active Faults	
40	OSS2/OSS2N	290.19	-	-	Probable Faults	
41	OSS2/OSS2N	290.19	-	-	Active Faults	

S/N	Route Section	Crossing Kilometre Position (KP)	Crossing From KP	Crossing To KP	Geohazard Type	Geometry Type
42	OSS2/OSS2N	291.20	-	-	Probable Faults	
43	OSS2/OSS2N	291.20	-	-	Active Faults	
44	OSS2/OSS2N	294.56	-	-	Probable Faults	
45	OSS2/OSS2N	294.56	-	-	Active Faults	
46	OSS2/OSS2N	295.22	-	-	Probable Faults	
47	OSS2/OSS2N	295.22	-	-	Active Faults	
48	OSS2/OSS2N	295.80	-	-	Probable Faults	
49	OSS2/OSS2N	295.80	-	-	Sub-seabed fault	
50	OSS2/OSS2N	297.05	-	-	Active Faults	
51	OSS2/OSS2N	299.83	-	-	Probable Faults	
52	OSS2/OSS2N	299.83	-	-	Active Faults	
53	OSS2/OSS2N	300.75	-	-	Sub-seabed fault	
54	OSS2/OSS2N	303.22	-	-	Active Faults	
55	OSS2/OSS2N	346.60	-	-	Sub-seabed fault	
56	OSS2/OSS2N	347.89	-	-	Buried Faults	
57	OSS2/OSS2N	350.11	-	-	Sub-seabed fault	
58	OSS2/OSS2N	360.08	-	-	Buried Faults	
59	OSS2/OSS2N	365.44	-	-	Sub-seabed fault	

Prepared by ASPROFOS,2022

8 M.1.5.3.2 MAIN GEOHAZARD AREAS ALONG OSS3 ROUTE

Table M-16 Main Geohazard Areas alongside the OSS3/OSS3N Route

S/N	KP (WD)	Main Features
1	From KP0.000 to KP1.545	Steep to very steep slope (from 10° to 59.4°)
2	From KP0.294 to KP0.710	Rocky outcrops and subcrops
3	From KP0.976 to KP1.206	Rocky outcrops and subcrops
4	From KP1.249 to KP1.300	Rocky outcrops and subcrops

S/N	KP (WD)	Main Features
5	From KP1.862 to KP1.950	Moderate to very steep slope (max. 23.6°)
6	From KP2.165 to KP2.260	Moderate to steep slope (max. 10.7°)
7	From KP2.299 to KP2.470	Exposed slump
8	From KP2.463 to KP2.940	Moderate to steep slope (max. 11.5°)
9	From KP4.083 to KP4.738	Moderate to steep slope (max. 10.4°)
10	From KP5.293 to KP5.238	Moderate slope (max. 6.8°)
11	From KP6.042 to KP6.401	Exposed slump
12	From KP6.782 to KP6.827	Exposed slump
13	From KP6.993 to KP7.278	Moderate to very steep slope (max. 16.7°)
14	From KP7.698 to KP7.763	Moderate slope (max. 8.1°)
15	From KP7.883 to KP8.178	Moderate to steep slope (max. 10.4°)
16	From KP8.235 to KP8.305	Very steep slope (max. 27.3°)
17	KP8.258	Landslide scar
18	From KP8.320 to KP8.915	Moderate slope (max. 9.6°)
19	From KP8.575 to KP9.080	Exposed slump
20	From KP9.138 to KP9.538	Moderate slope (max. 9.8°
21	From KP9.392 to KP10.056	Exposed slump
22	From KP9.898 to KP9.915	Moderate slope (max. 6.8°)
23	From KP9.995 to KP10.998	Moderate slope (max. 9.8°
24	From KP10.361 to KP10.450	Rock and subcrop
25	From KP10.395 to KP10.445	Very steep slope (max. 29.6°
26	From KP10.457 to KP10.524	Exposed slump
27	From KP11.093 to KP11.290	Moderate slope (max.9.9°
28	From KP11.290 to KP12.812	Steep to very steep slope (max. 30.6°)
29	From KP11.362 to KP11.603	Exposed slump
30	From KP12.031 to KP14.910	Exposed slump
31	From KP12.364 to KP13.134	Moderate to steep slope (max. 10.9°)

S/N	KP (WD)	Main Features
32	From KP15.805 to KP20.491	Steep to very steep slope (max. 53.9° at KP20.093)
33	From KP17.485 to KP18.121	Canyon
34	From KP18.920 to KP19.012	Subcrop
35	From KP19.355 to KP21.766	Rock and subcrop
36	From KP21.418 to KP21.861	Moderate to steep slope (max. 14.9°)
37	KP22.000	6.5m east of a canyon levee
38	From KP26.975 to KP27.000	Moderate slope (max. 9.1°
39	From KP29.856 to KP29.894	Moderate slope (max. 8.9°)
40	From KP31.699 to KP31.726	Moderate slope (max. 8.0°)
41	From KP42.310 to KP44.543	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
42	From KP43.218 to KP44.681	Moderate to steep slope (max. 12.4°)
43	From KP44.543 to KP44.709	Subcrop
44	From KP44.944 to KP45.682	Rock and subcrop
45	From KP45.281 to KP45.793	Moderate to very steep slope (max. 26.6°)
46	From KP45.682 to KP46.253	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
47	From KP46.253 to KP46.402	Subcrop
48	From KP46.544 to KP47.663	Rock and subcrop
49	From KP47.168 to KP47.173	Moderate slope (max. 7.7°)
50	From KP47.223 to KP47.231	Steep slope (max. 10.4°)
51	From KP47.663 to KP52.395	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed

S/N	KP (WD)	Main Features
52	From KP54.462 to KP54.507	Moderate to steep slope (max. 15.0°)
53	From KP58.023 to KP58.799	Seabed slump
54	From KP61.424 to KP61.789	Rock and subcrop
55	From KP61.532 to KP61.715	Moderate to steep slope (max. 14.9°)
56	From KP61.715 to KP61.762	Steep to very steep slope (max. 23.4°)
57	From KP61.762 to KP62.347	Moderate to steep slope (max. 14.9°)
58	From KP62.657 to KP63.817	Moderate slope (max. 9.3°)
59	From KP63.051 to KP62.931	Subcrop
60	From KP63.305 to KP64.194	Subcrop
61	From KP64.553 to KP64.733	Fluids expulsion area with related build-up and concretions at the seafloor
62	From KP66.664 to KP66.883	Dense pattern of pockmarks
63	From KP66.812 to KP66.920	Moderate slope (max. 9.9°)
64	From KP66.920 to KP67.210	Steep to very steep slope (max. 28.0°)
65	From KP67.123 to KP67.322	Rock and subcrop
66	From KP67.269 to KP72.892	Dense pattern of pockmarks, trawl scars and small subcrop areas
67	From KP77.964 to KP77.974	Moderate slope (max. 8.4°)
68	From KP78.172 to KP78.207	Steep to very steep slope (max. 15.8°)
69	From KP78.304 to KP78.407	Moderate to steep slope (max. 11.1°)
70	From KP81.182 to KP81.215	Moderate slope (max. 9.8°)
71	From KP82.282 to KP82.675	Moderate slope (max. 8.9°)
72	From KP82.363 to KP82.596	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed

S/N	KP (WD)	Main Features
73	From KP84.607 to KP84.984	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
74	From KP85.666 to KP86.163	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
75	From KP85.972 to KP85.959	Moderate slope (max. 8.2°)
76	From KP88.096 to KP92.858	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
77	From KP92.858 to KP94.172	Seabed slump
78	From KP92.900 to KP92.967	Moderate slope (max. 8.9°)
79	From KP92.967 to KP93.322	Steep to very steep slope (max. 26.3°)
80	From KP93.522 to KP93.585	Steep to very steep slope (max. 20.2°)
81	From KP94.167 to KP94.340	Steep to very steep slope (max. 21.8°)
82	From KP95.182 to KP95.300	Moderate slope (max. 7.3°)
83	From KP96.582 to KP96.657	Moderate slope (max. 9.9°)
84	From KP96.657 to KP97.552	Steep to very steep slope (max. 16.3°)
85	KP96.726	Landslide scar
86	From KP97.552 to KP97.722	Moderate slope (max. 9.9°)
87	From KP97.590 to KP98.075	Seabed slump
88	From KP98.682 to KP98.934	Moderate slope (max. 8.6°)
89	From KP99.251 to KP100.666	Seabed slump
90	FromKP101.212 to KP101.275	Moderate to steep slope (max. 11.3°)
91	From KP102.027 to KP102.042	Moderate slope (max. 8.6°)
92	From KP102.645 to KP102.764	Moderate slope (max. 8.0°)

S/N	KP (WD)	Main Features
93	From KP103.297 to KP103.392	Moderate slope (max. 7.8°)
94	From KP103.510 to KP103.530	Steep slope (max. 11.1°)
95	From KP103.551 to KP103.636	Steep slope (max. 14.6°)
96	From KP104.063 to KP104.108	Steep slope (max. 15.9°)
97	From KP104.094 to KP105.132	Seabed channel
98	From KP105.144 to KP105.427	Moderate to steep slope (max. 10.0°)
99	From KP106.898 to KP107.306	Steep to very steep slope (max. 30.1°)
100	From KP107.246 to KP112.833	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
101	From KP112.841 to KP113.074	Moderate slope (max. 8.2°)
102	From KP114.027 to KP114.374	Moderate slope (max. 6.9°)
103	KP114.382	Seabed channel axis
104	From KP114.987 to KP115.089	Moderate slope (max. 7.3°)
105	From KP116.539 to KP116.574	Moderate to steep slope (max. 10.0°)
106	From KP117.699 to KP118.270	Creeping/low stability area moderately deformed domain showing a gravity driven deformation of the seabed
107	From KP118.471 to KP118.571	Moderate to steep slope (max. 12.0°)
108	From KP118.706 to KP118.919	Moderate slope (max. 8.2°)
109	From KP118.994 to KP119.089	Moderate to steep slope (max. 14.4°)
110	From KP119.981 to KP120.149	Moderate to steep slope (max. 10.9°)
111	From KP121.306 to KP121.431	Moderate slope (max. 8.2°)
112	From KP121.666 to KP121.709	Moderate slope (max. 7.1°)
113	From KP131.507 to KP131.567	Moderate slope (max. 8.2°)
114	From KP141.945 to KP149.650	Seabed slump
115	From KP142.624 to KP142.642	Moderate slope (max. 9.5°)

S/N	KP (WD)	Main Features
116	From KP143.120 to KP143.262	Moderate to steep slope (max. 14.8°)
117	From KP143.795 to KP144.085	Steep to very steep slope (max. 19.2°)
118	From KP144.520 to KP144.542	Moderate slope (max. 8.2°)
119	From KP146.162 to KP146.265	Moderate to steep slope (max. 12.4°)
120	From KP147.567 to KP147.822	Seabed channel
121	From KP147.825 to KP147.837	Steep slope (max. 11.5°)
122	From KP148.970 to KP149.236	Seabed channel
123	From KP149.647 to KP150.627	Moderate to steep slope (max. 12.0°)
124	From KP154.537 to KP154.617	Moderate slope (max. 7.1°)
125	From KP154.568 to KP154.793	Outcrop
126	KP172.552	Seabed channel
127	KP174.196	Seabed channel
128	From KP182.566 to KP182.630	Seabed channel
129	From KP183.240 to KP183.271	Seabed channel
130	From KP184.020 to KP184.071	Seabed channel
131	From KP185.416 to KP185.484	Seabed channel
132	From KP186.024 to KP186.071	Seabed channel
133	From KP186.808 to KP186.847	Seabed channel
134	From KP187.490 to KP187.517	Seabed channel
135	From KP189.169 to KP189.189	Seabed channel
136	FromKP189.745 to KP189.754	Seabed channel
137	From KP194.212 to KP194.378	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
138	From KP194.378 to KP194.434	Seabed channel
139140	From KP194.691 to KP194.759	Seabed channel
141	From KP200.469 to KP201.264	Moderate to steep slope (max. 13.5°)

S/N	KP (WD)	Main Features
142	From KP200.481 to KP203.399	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
143	From KP201.592 to KP201.646	Slumping area with debris fall
144	From KP202.033 to KP202.129	Seabed channel
145	From KP205.384 to KP205.822	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
146	From KP205.822 to KP206.119	Seabed slump
147	From KP206.533 to KP208.003	Seabed slump
148	From KP210.181 to KP210.277	Seabed slump
149	From KP210.277 to KP210.380	Creeping/low stability area moderately deformed domain showing a gravity driven deformation of the seabed
150	From KP210.380 to KP211.255	Seabed slump
151	From KP215.545 to KP215.569	Seabed slump
152	From KP215.785 to KP215.795	Moderate slope (max. 7.1°)
153	From KP216.990 to KP216.997	Moderate slope (max. 7.1°)
154	From KP224.616 to KP224.645	Seabed channel
155	From KP224.842 to KP225.319	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
156	From KP225.426 to KP225.585	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
157	From KP226.508 to KP226.513	Moderate slope (max. 7.8°)
158	From KP229.870 to KP229.882	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed

S/N	KP (WD)	Main Features
159	From KP230.594 to KP230.728	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
160	From KP237.076 to KP237.520	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
161	From KP239.730 to KP242.932	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
162	From KP243.705 to KP246.793	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
163	From KP247.358 to KP247.681	Creeping/low stability area moderately deformed domain showing a gravity driven deformation of the seabed
164	From KP247.871 to KP248.505	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
165	From KP249.819 to KP250.627	Moderate slope (max. 9.3°)
166	From KP249.983 to KP252.328	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
167	From KP253.276 to KP266.293	Creeping/low stability area moderately deformed domain showing a gravity driven deformation of the seabed
168	From KP254.136 to KP254.341	Moderate to steep slope (max. 14.9°)
169	From KP254.175 to KP254.204	Rock/block fall area
170	From KP254.341 to KP254.396	Very steep slope (max. 18.6°)

S/N	KP (WD)	Main Features
171	From KP254.396 to KP254.548	Moderate to steep slope (max. 14.9°)
172	From KP254.548 to KP254.575	Very steep slope (max. 20.1°)
173	From KP254.575 to KP255.225	Moderate to steep slope (max. 14.9°)
174	From KP255.387 to KP255.749	Rock/block fall area
175	From KP255.660 to KP255.673	Moderate slope (max. 8.2°)
176	From KP255.805 to KP255.832	Rock/block fall area
177	From KP256.698 to KP256.757	Seabed channel
178	From KP266.801 to KP266.968	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
179	From KP267.178 to KP267.657	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
180	From KP268.226 to KP269.562	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
181	From KP270.096 to KP270.484	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
182	From KP301.566 to KP301.585	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
183	From KP302.222 to KP303.939	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
184	From KP304.491 to KP304.629	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
185	From KP305.150 to KP305.299	Rock/block fall area

S/N	KP (WD)	Main Features
186	From KP305.180 to KP305.212	Moderate slope (max. 9.9°)
187	From KP305.212 to KP305.350	Steep to very steep slope (max. 22.6°)
188	From KP305.299 to KP306.190	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
189	From KP305.350 to KP305.550	Moderate slope (max. 9.9°)
190	From KP305.695 to KP305.705	Moderate slope (max. 9.6°)
191	From KP310.032 to KP310.652	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
192	From KP311.364 to KP313.568	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
193	From KP312.312 to KP312.367	Debris area
194	From KP313.886 to KP313.931	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
195	From KP316.936 to KP317.686	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
196	From KP318.023 to KP318.233	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
197	From KP328.482 to KP331.266	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
198	From KP329.909 to KP329.938	Debris area
199	From KP330.873 to KP331.328	Moderate to steep slope (max. 10.9°)

S/N	KP (WD)	Main Features
200	From KP332.781 to KP332.861	Moderate to very steep slope (max. 17.5°)
201	From KP332.723 to KP332.776	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
202	From KP333.033 to KP333.061	Moderate slope (max. 6.8°)
203	From KP333.379 to KP333.846	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
204	From KP333.860 to KP333.971	Moderate slope (max. 8.7°)
205	From KP334.108 to KP334.131	Moderate slope (max. 6.9°)
206	From KP334.326 to KP334.578	Moderate to steep slope (max. 10.9°)
207	From KP334.427 to KP335.070	Creeping/low stability area moderately deformed domain showing a gravity driven deformation of the seabed
208	From KP336.407 to KP336.469	Gas seepage
209	From KP336.622 to KP336.689	Gas seepage
210	From KP336.885 to KP336.926	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
211	From KP338.706 to KP338.954	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
212	From KP339.578 to KP340.195	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
213	From KP339.789 to KP339.799	Moderate slope (max. 8.9°)
214	From KP339.907 to KP340.172	Moderate to steep slope (max. 11.7°)
215	From KP340.195 to KP340.441	Seabed slump

S/N	KP (WD)	Main Features
216	From KP340.705 to KP340.782	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
217	From KP340.851 to KP340.885	Rock/block fall area
218	From KP341.929 to KP342.109	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
219	From KP343.163 to KP344.265	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
220	From KP352.195 to KP352.955	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
221	From KP353.571 to KP353.612	Debris
222	From KP354.567 to KP355.115	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
223	From KP359.241 to KP360.451	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
224	From KP360.451 to KP361.410	Slump
225	From KP361.410 to KP362.775	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
226	From KP362.318 to KP362.402	Moderate to steep slope (max. 12.4°)
227	From KP362.552 to KP362.559	Steep slope (max. 10.9°)
228	From KP388.296 to KP388.360	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
229	From KP388.874 to KP388.880	Debris

S/N	KP (WD)	Main Features
230	From KP392.102 to KP392.112	Debris (avg. contacts dimension is 0.6x0.4x0.3)
231	KP397.364	Very close sonar contact IGI002_T4076
232	From KP404.462 to KP404.907	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
233	KP404.746	Fault at the seabed
234	From KP405.823 to KP406.378	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
235	From KP416.460 to KP420.135	Seabed slump
236	From KP420.135 to KP421.298	Creeping/low stability area moderately deformed domain showing a gravity-driven deformation of the seabed
237	From KP420.618 to KP421.296	Moderate to steep slope (max. 10.9°)
238	From KP421.296 to KP421.341	Steep slope (max. 21.6°)
239	KP421.329	Landslide scar
240	From KP421.341 to KP421.371	Moderate slope (max. 9.9°)
241	From KP421.506 to KP421.541	Moderate slope (max. 8.9°)
242	From KP422.461 to KP422.496	Moderate slope (max. 7.7°)
243	From KP422.902 to KP422.954	Seabed slump
244	From KP422.948 to KP422.996	Moderate to steep slope (max. 10.2°)
245	KP422.954	Fault at the seabed
246	From KP423.142 to KP426.741	Seabed slump and scattered bioconstructions
247	From KP426.688 to KP426.836	Moderate to very steep slope (max. 22.4°)
248	From KP426.741 to KP426.810	Subcrop
249	From KP427.048 to KP427.278	Moderate to very steep slope (max. 27.9°)

S/N	KP (WD)	Main Features
250	From KP427.082 to KP427.119	Subcrop
251	From KP427.119 to KP427.281	Outcrop
252	From KP427.281 to KP427.287	Subcrop
253	From KP427.696 to KP427.828	Moderate slope (max. 7.5°)
254	From KP427.886 to KP427.998	Moderate to very steep slope (max. 23.7°)

Prepared by ASPROFOS,2022

Table M-17 Faults alongside the OSS3/OSS3N Route

S/N	KP (WD)	Main Features
1	KP54.499	Fault at the seabed
2	KP77.922	Fault at the seabed
3	KP77.971	Fault at the seabed
4	KP78.183	Fault at the seabed
5	KP170.015	Fault at the seabed
6	KP213.849	Fault at the seabed
7	KP332.822	Fault at the seabed
8	KP341.717	Fault at the seabed
9	KP342.132 F	Fault at the seabed
10	KP361.491	Fault at the seabed
11	KP397.204	Fault at the seabed
12	KP398.406	Fault at the seabed
13	KP404.746	Fault at the seabed
14	KP405.994	Fault at the seabed
15	KP408.297	Fault at the seabed
16	KP408.885	Fault at the seabed
17	KP421.092	Fault at the seabed
18	KP421.298	Fault at the seabed
19	KP422.954	Fault at the seabed

Prepared by ASPROFOS,2022

8 M.1.5.3.3 MAIN GEOHAZARD AREAS ALONG OSS4 ROUTE

Table M-18 Summary of Main Geohazards along the OSS4 Route

S/N	KP	Hazard description
1	From 0.864 to 1.000	Seabed scarp with maximum slope of 5.9°, water depth from 22.8 m to 35.3 m
2	3.410	Sub-Seabed fault buried at 2.4 m b.s.b. water depth: 70.2 m, slope: 2.7°
3	4.000	Seabed fault with vertical throw of 13.6 m, water depth: 73.4 m, slope: 22°
4	4.532	Amplitude anomaly at 28.5 m b.s.b.
5	4.606	Seabed fault with vertical throw of 2.1 m, water depth: 87.0 m, slope: 3.9°
6	5.352	Seabed fault, water depth: 105.6 m, slope: 9.3°
7	5.479	Seabed fault, water depth: 111 m, slope: 8.6°
8	From 5.564 to 8.467	Amplitude anomaly at seabed
9	5.619	Seabed fault, water depth: 116 m, slope: 6.5°
10	From 5.667 to 5.864	Seabed scarp with maximum slope of 11.7°, water depth from 117.4 m to 141.6
11	5.993	Seabed fault with vertical throw of 1m, water depth: 141.9 m, slope: 1.4°
12	6.087	Seabed fault with vertical throw of 1m, water depth: 139.9 m, slope: 6°
13	From 7.174 to 7.323	Seabed scarp with maximum slope of 9.9°, water depth from 133.9 m to 114.2m

S/N	KP	Hazard description
14	7.256	Seabed fault with vertical throw of 4 m, water depth: 120.0 m, slope: 8.2°
15	7.500	Seabed fault, water depth: 113.1 m, slope: 6.4°
16	7.883	Seabed fault, water depth: 100.9 m, slope: 3.5°
17	8.985	Sub-Seabed fault buried at 7 m b.s.b., water depth: 92.6 m, slope: 0.8
18	9.379	Sub-Seabed fault buried at 5.4 m b.s.b., water depth: 92.5 m, slope: 0.6°
19	9.647	Sub-Seabed fault buried at 4.5 m b.s.b., water depth: 91.4 m, slope: 0.5°
20	10.403	Sub-Seabed fault buried at 5.1 m b.s.b., water depth: 91.5 m, slope: 0.5°
21	10.573	Sub-Seabed fault buried at 3 m b.s.b., water depth: 91.9 m, slope: 0.5
22	10.796	Sub-Seabed fault buried at 4.9m b.s.b. water depth: 87.4 m, slope: 0.5°
23	11.373	Seabed fault, water depth: 77.8 m, slope: 7°
24	13.103	Amplitude anomaly at seabed
25	14.009	Seabed fault with vertical throw of 10 m, water depth: 75.7 m, slope: 16

Data from: "EastMed Pipeline Project-DMS1-Final Report, Document No E780-IGI002-WE2-PRC-F-OSS4-C2-WE2" Lighthouse 2021.