

ANNEXE 25

RESULTATS DES CALCULS FOXTA

PIEUX FORES A LA TARIERE CREUSE

SONDAGE SP6

- Pieux Φ 620 en compression
- Pieux Φ 720 en compression
- Pieux Φ 820 en compression
- Pieux Φ 920 en compression

Données

Titre du projet : Eco-Village d'entreprises à Carrère (pieu n°1)
Numéro d'affaire : 22-1222
Commentaires : Sondage SP6
Titre du calcul : Titre du calcul
Cadre réglementaire : EC 7 - Norme NF P94-262/A1 (juillet 2018)
Méthode de dimensionnement : A partir des résultats pressiométriques
Traitement des données : Traitement par couches
Pas du calcul (m) : 0,20
Section de calcul : Section de calcul circulaire
Diamètre de calcul (m) : 0,62
Classe du pieu : 2 - Pieu tarière creuse
Catégorie du pieu : 6 [FTC, FTCD] - Foré tarière creuse simple rotation, ou double rotation
Mode de chargement : Travail en compression

Combinaisons

	ELS-QP	ELS-CARAC	ELU-FOND	ELU-ACC
Pondérations combinées sur Qs.k	0,636	0,778	0,909	1,000
Pondérations combinées sur Qp.k	0,455	0,556	0,909	1,000

Cote de référence (m) : 6,20

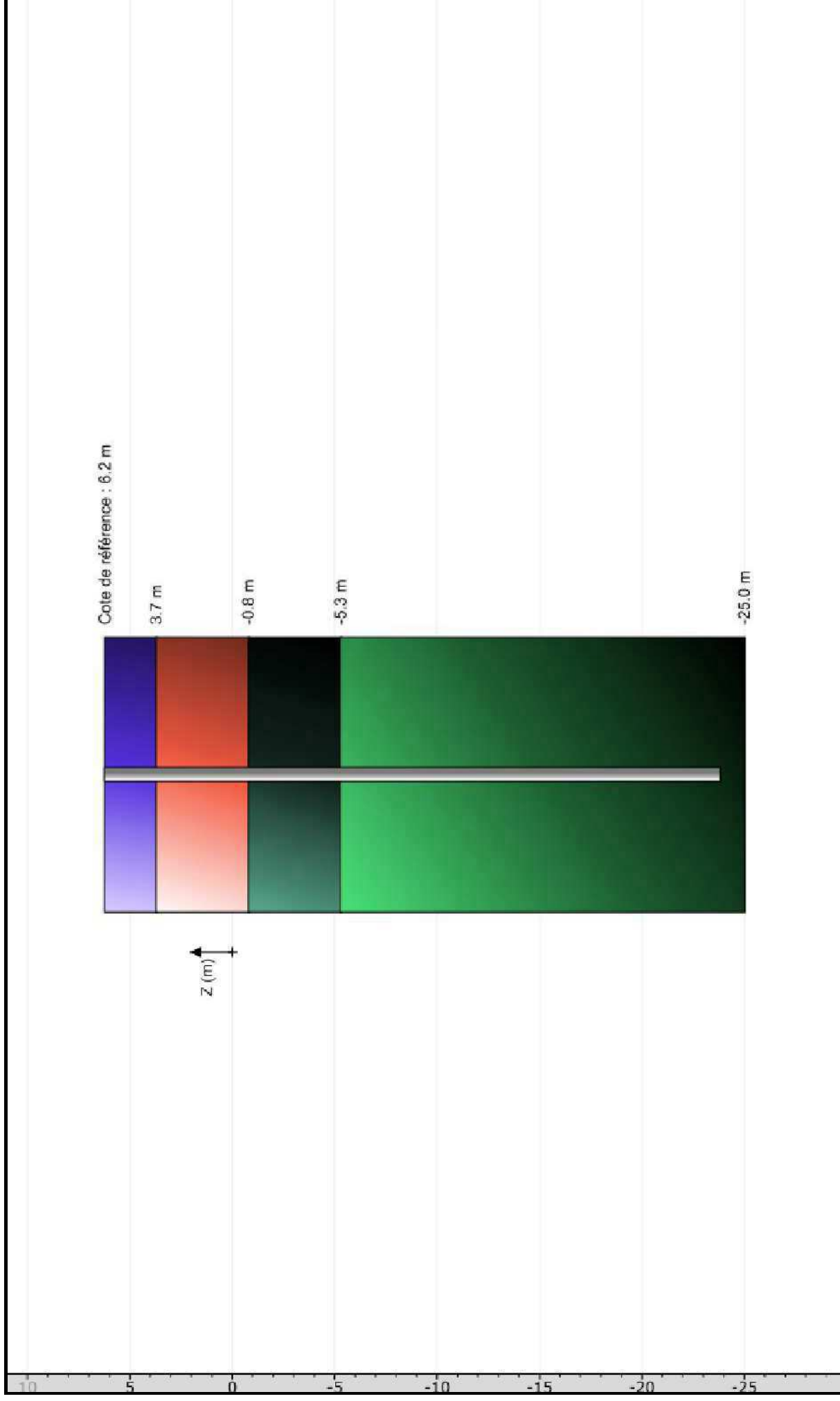
Définition des couches de sol

No	Nom	Couleur	Classe de sol	Zbase	pl*	qsl	kpmax	$\sqrt{R_s.d1 \times \gamma R_s.d2}$
1	Remblais		Argile, limons	3,70	460,00	0,00	1,30	1,265
2	Lave altérée argilisée raide		Argile, limons	-0,80	890,00	61,00	1,30	1,265
3	Lave altérée argilisée raide à très raide		Argile, limons	-5,30	1400,00	66,00	1,30	1,265
4	Lave altérée argilisée très raide		Roche altérée et fragmentée	-25,00	2720,00	171,00	2,00	1,265

Critère de calcul : Longueur imposée

Longueur du pieu (m) : 30,00

Onglet "Paramètres généraux"



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Calcul réalisé le : 06/09/2022 à 12h55
par : MAGMA CARAIBES

Options du calcul :

- calcul basé sur des paramètres issus du pressiomètre de Ménard
- calcul selon les règles de la norme NF P 94 262
- profil de pression limite pl* défini par couche
- pour pieu de catégorie : 6
- pour pieu travaillant en compression

Combinaisons	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
Frottement	0.636	0.778	0.909	1.000
Pointe	0.455	0.556	0.909	1.000

Cote de référence : 6.200

Section du pieu : 0.302
Périmètre : 1.948

Caractéristiques des couches (données utilisateur)

couche	base	pl*	qsl	kpmin	kpmax	gamrd
01	3.70	460.0	0.00	1.00	1.30	1.26
02	-0.80	890.0	61.00	1.00	1.30	1.26
03	-5.30	1400.0	66.00	1.00	1.30	1.26
04	-25.00	2720.0	171.00	1.00	2.00	1.26

Pas du calcul : 0.20

 SOLUTION

Calcul à longueur imposée : L = 30.00

couche	cote	qsl	ple	kp	Qs	Qp	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
01	6.20	0.00	460.0	1.000	0.0	138.9	50.0	61.0	99.8	109.8
01	6.00	0.00	460.0	1.019	0.0	141.6	50.9	62.2	101.7	111.9
01	5.80	0.00	460.0	1.039	0.0	144.3	51.9	63.4	103.7	114.0
01	5.60	0.00	460.0	1.058	0.0	146.9	52.9	64.6	105.6	116.2
01	5.40	0.00	460.0	1.077	0.0	149.6	53.8	65.8	107.5	118.3
01	5.20	0.00	460.0	1.097	0.0	152.3	54.8	66.9	109.5	120.4
01	5.00	0.00	503.0	1.106	0.0	168.0	60.4	73.8	120.7	132.8
01	4.80	0.00	546.0	1.114	0.0	183.7	66.1	80.7	132.0	145.2
01	4.60	0.00	589.0	1.121	0.0	199.3	71.7	87.6	143.2	157.6
01	4.40	0.00	632.0	1.127	0.0	215.0	77.3	94.5	154.5	170.0
01	4.20	0.00	675.0	1.132	0.0	230.7	83.0	101.4	165.8	182.3
01	4.00	0.00	718.0	1.136	0.0	246.3	88.6	108.3	177.0	194.7
01	3.80	0.00	761.0	1.140	0.0	262.0	94.2	115.2	188.3	207.1
01	3.70	0.00	782.5	1.142	0.0	269.8	97.1	118.6	193.9	213.3
02	3.70	61.00	890.0	1.125	0.0	302.3	108.7	132.9	217.2	239.0
02	3.50	61.00	890.0	1.144	23.8	307.5	122.5	149.8	238.0	261.9
02	3.30	61.00	890.0	1.164	47.5	312.7	136.4	166.7	258.8	284.8
02	3.10	61.00	890.0	1.183	71.3	317.9	150.2	183.6	279.7	307.7
02	2.90	61.00	890.0	1.202	95.1	323.1	164.0	200.5	300.5	330.6
02	2.70	61.00	890.0	1.222	118.8	328.3	177.8	217.4	321.3	353.5
02	2.50	61.00	890.0	1.241	142.6	333.5	191.6	234.3	342.1	376.3

02	2.30	61.00	890.0	1.261	166.3	338.7	205.5	251.2	362.9	399.2
02	2.10	61.00	890.0	1.280	190.1	343.9	219.3	268.1	383.7	422.1
02	1.90	61.00	890.0	1.299	213.9	349.1	233.1	285.0	404.5	445.0
02	1.70	61.00	890.0	1.300	237.6	349.3	245.1	299.7	421.8	464.0
02	1.50	61.00	890.0	1.300	261.4	349.3	257.1	314.3	438.8	482.8
02	1.30	61.00	890.0	1.300	285.2	349.3	269.0	328.9	455.9	501.6
02	1.10	61.00	890.0	1.300	308.9	349.3	281.0	343.5	473.0	520.3
02	0.90	61.00	890.0	1.300	332.7	349.3	292.9	358.1	490.1	539.1
02	0.70	61.00	890.0	1.300	356.4	349.3	304.8	372.7	507.1	557.9
02	0.50	61.00	941.0	1.300	380.2	369.3	324.0	396.2	538.6	592.5
02	0.30	61.00	992.0	1.300	404.0	389.3	343.1	419.6	570.1	627.1
02	0.10	61.00	1043.0	1.300	427.7	409.4	362.3	443.0	601.5	661.7
02	-0.10	61.00	1094.0	1.300	451.5	429.4	381.4	466.4	633.0	696.3
02	-0.30	61.00	1145.0	1.300	475.3	449.4	400.6	489.8	664.4	730.9
02	-0.50	61.00	1196.0	1.300	499.0	469.4	419.7	513.2	695.9	765.6
02	-0.70	61.00	1247.0	1.300	522.8	489.4	438.9	536.6	727.3	800.2
02	-0.80	61.00	1272.5	1.300	534.7	499.4	448.4	548.3	743.1	817.5
03	-0.80	66.00	1400.0	1.300	534.7	549.5	466.4	570.3	779.0	857.0
03	-1.00	66.00	1400.0	1.300	560.4	549.5	479.4	586.2	797.5	877.4
03	-1.20	66.00	1400.0	1.300	586.1	549.5	492.3	602.0	816.0	897.7
03	-1.40	66.00	1400.0	1.300	611.8	549.5	505.2	617.8	834.5	918.0
03	-1.60	66.00	1400.0	1.300	637.5	549.5	518.2	633.6	852.9	938.3
03	-1.80	66.00	1400.0	1.300	663.2	549.5	531.1	649.4	871.4	958.7
03	-2.00	66.00	1400.0	1.300	688.9	549.5	544.0	665.2	889.9	979.0
03	-2.20	66.00	1400.0	1.300	714.6	549.5	556.9	681.0	908.4	999.3
03	-2.40	66.00	1400.0	1.300	740.4	549.5	569.9	696.8	926.8	1019.6
03	-2.60	66.00	1400.0	1.300	766.1	549.5	582.8	712.7	945.3	1039.9
03	-2.80	66.00	1400.0	1.300	791.8	549.5	595.7	728.5	963.8	1060.3
03	-3.00	66.00	1400.0	1.300	817.5	549.5	608.6	744.3	982.3	1080.6
03	-3.20	66.00	1400.0	1.300	843.2	549.5	621.6	760.1	1000.7	1100.9
03	-3.40	66.00	1400.0	1.300	868.9	549.5	634.5	775.9	1019.2	1121.2
03	-3.60	66.00	1400.0	1.300	894.6	549.5	647.4	791.7	1037.7	1141.6
03	-3.80	66.00	1400.0	1.300	920.3	549.5	660.3	807.5	1056.2	1161.9
03	-4.00	66.00	1532.0	1.300	946.0	601.3	691.9	846.1	1111.9	1223.2
03	-4.20	66.00	1664.0	1.300	971.8	653.1	723.5	884.7	1167.6	1284.5
03	-4.40	66.00	1796.0	1.300	997.5	704.9	755.0	923.3	1223.3	1345.7
03	-4.60	66.00	1928.0	1.300	1023.2	756.7	786.6	961.9	1279.0	1407.0
03	-4.80	66.00	2060.0	1.300	1048.9	808.5	818.2	1000.4	1334.7	1468.3
03	-5.00	66.00	2192.0	1.300	1074.6	860.3	849.7	1039.0	1390.4	1529.6
03	-5.20	66.00	2324.0	1.300	1100.3	912.1	881.3	1077.6	1446.1	1590.9
03	-5.30	66.00	2390.0	1.300	1113.2	938.0	897.1	1096.9	1473.9	1621.5
04	-5.30	171.00	2720.0	1.927	1113.2	1582.1	1128.7	1380.0	1936.7	2130.6
04	-5.50	171.00	2720.0	1.970	1179.8	1617.7	1175.0	1436.6	2010.2	2211.5
04	-5.70	171.00	2720.0	2.000	1246.4	1642.4	1217.4	1488.4	2075.8	2283.6
04	-5.90	171.00	2720.0	2.000	1313.0	1642.4	1250.9	1529.4	2123.7	2336.3
04	-6.10	171.00	2720.0	2.000	1379.6	1642.4	1284.4	1570.4	2171.5	2388.9
04	-6.30	171.00	2720.0	2.000	1446.2	1642.4	1317.9	1611.3	2219.4	2441.6
04	-6.50	171.00	2720.0	2.000	1512.8	1642.4	1351.3	1652.3	2267.3	2494.2
04	-6.70	171.00	2720.0	2.000	1579.5	1642.4	1384.8	1693.3	2315.1	2546.9
04	-6.90	171.00	2720.0	2.000	1646.1	1642.4	1418.3	1734.2	2363.0	2599.6
04	-7.10	171.00	2720.0	2.000	1712.7	1642.4	1451.8	1775.2	2410.9	2652.2
04	-7.30	171.00	2720.0	2.000	1779.3	1642.4	1485.3	1816.2	2458.7	2704.9
04	-7.50	171.00	2720.0	2.000	1845.9	1642.4	1518.8	1857.1	2506.6	2757.5
04	-7.70	171.00	2720.0	2.000	1912.5	1642.4	1552.3	1898.1	2554.5	2810.2
04	-7.90	171.00	2720.0	2.000	1979.1	1642.4	1585.8	1939.1	2602.3	2862.9
04	-8.10	171.00	2720.0	2.000	2045.8	1642.4	1619.3	1980.0	2650.2	2915.5
04	-8.30	171.00	2720.0	2.000	2112.4	1642.4	1652.8	2021.0	2698.1	2968.2
04	-8.50	171.00	2720.0	2.000	2179.0	1642.4	1686.3	2062.0	2745.9	3020.8
04	-8.70	171.00	2720.0	2.000	2245.6	1642.4	1719.8	2103.0	2793.8	3073.5
04	-8.90	171.00	2720.0	2.000	2312.2	1642.4	1753.2	2143.9	2841.7	3126.2
04	-9.10	171.00	2720.0	2.000	2378.8	1642.4	1786.7	2184.9	2889.5	3178.8
04	-9.30	171.00	2720.0	2.000	2445.4	1642.4	1820.2	2225.9	2937.4	3231.5
04	-9.50	171.00	2720.0	2.000	2512.1	1642.4	1853.7	2266.8	2985.3	3284.1
04	-9.70	171.00	2720.0	2.000	2578.7	1642.4	1887.2	2307.8	3033.2	3336.8
04	-9.90	171.00	2720.0	2.000	2645.3	1642.4	1920.7	2348.8	3081.0	3389.5
04	-10.10	171.00	2720.0	2.000	2711.9	1642.4	1954.2	2389.7	3128.9	3442.1
04	-10.30	171.00	2720.0	2.000	2778.5	1642.4	1987.7	2430.7	3176.8	3494.8
04	-10.50	171.00	2720.0	2.000	2845.1	1642.4	2021.2	2471.7	3224.6	3547.4
04	-10.70	171.00	2720.0	2.000	2911.7	1642.4	2054.7	2512.6	3272.5	3600.1
04	-10.90	171.00	2720.0	2.000	2978.4	1642.4	2088.2	2553.6	3320.4	3652.8
04	-11.10	171.00	2720.0	2.000	3045.0	1642.4	2121.6	2594.6	3368.2	3705.4
04	-11.30	171.00	2720.0	2.000	3111.6	1642.4	2155.1	2635.6	3416.1	3758.1
04	-11.50	171.00	2720.0	2.000	3178.2	1642.4	2188.6	2676.5	3464.0	3810.7
04	-11.70	171.00	2720.0	2.000	3244.8	1642.4	2222.1	2717.5	3511.8	3863.4
04	-11.90	171.00	2720.0	2.000	3311.4	1642.4	2255.6	2758.5	3559.7	3916.1
04	-12.10	171.00	2720.0	2.000	3378.0	1642.4	2289.1	2799.4	3607.6	3968.7
04	-12.30	171.00	2720.0	2.000	3444.7	1642.4	2322.6	2840.4	3655.4	4021.4
04	-12.50	171.00	2720.0	2.000	3511.3	1642.4	2356.1	2881.4	3703.3	4074.0
04	-12.70	171.00	2720.0	2.000	3577.9	1642.4	2389.6	2922.3	3751.2	4126.7
04	-12.90	171.00	2720.0	2.000	3644.5	1642.4	2423.1	2963.3	3799.0	4179.4
04	-13.10	171.00	2720.0	2.000	3711.1	1642.4	2456.6	3004.3	3846.9	4232.0
04	-13.30	171.00	2720.0	2.000	3777.7	1642.4	2490.1	3045.2	3894.8	4284.7
04	-13.50	171.00	2720.0	2.000	3844.3	1642.4	2523.5	3086.2	3942.6	4337.3
04	-13.70	171.00	2720.0	2.000	3911.0	1642.4	2557.0	3127.2	3990.5	4390.0
04	-13.90	171.00	2720.0	2.000	3977.6	1642.4	2590.5	3168.2	4038.4	4442.6
04	-14.10	171.00	2720.0	2.000	4044.2	1642.4	2624.0	3209.1	4086.2	4495.3

04	-14.30	171.00	2720.0	2.000	4110.8	1642.4	2657.5	3250.1	4134.1	4548.0
04	-14.50	171.00	2720.0	2.000	4177.4	1642.4	2691.0	3291.1	4182.0	4600.6
04	-14.70	171.00	2720.0	2.000	4244.0	1642.4	2724.5	3332.0	4229.8	4653.3
04	-14.90	171.00	2720.0	2.000	4310.6	1642.4	2758.0	3373.0	4277.7	4705.9
04	-15.10	171.00	2720.0	2.000	4377.3	1642.4	2791.5	3414.0	4325.6	4758.6
04	-15.30	171.00	2720.0	2.000	4443.9	1642.4	2825.0	3454.9	4373.4	4811.3
04	-15.50	171.00	2720.0	2.000	4510.5	1642.4	2858.5	3495.9	4421.3	4863.9
04	-15.70	171.00	2720.0	2.000	4577.1	1642.4	2892.0	3536.9	4469.2	4916.6
04	-15.90	171.00	2720.0	2.000	4643.7	1642.4	2925.4	3577.8	4517.0	4969.2
04	-16.10	171.00	2720.0	2.000	4710.3	1642.4	2958.9	3618.8	4564.9	5021.9
04	-16.30	171.00	2720.0	2.000	4776.9	1642.4	2992.4	3659.8	4612.8	5074.6
04	-16.50	171.00	2720.0	2.000	4843.6	1642.4	3025.9	3700.8	4660.6	5127.2
04	-16.70	171.00	2720.0	2.000	4910.2	1642.4	3059.4	3741.7	4708.5	5179.9
04	-16.90	171.00	2720.0	2.000	4976.8	1642.4	3092.9	3782.7	4756.4	5232.5
04	-17.10	171.00	2720.0	2.000	5043.4	1642.4	3126.4	3823.7	4804.2	5285.2
04	-17.30	171.00	2720.0	2.000	5110.0	1642.4	3159.9	3864.6	4852.1	5337.9
04	-17.50	171.00	2720.0	2.000	5176.6	1642.4	3193.4	3905.6	4900.0	5390.5
04	-17.70	171.00	2720.0	2.000	5243.2	1642.4	3226.9	3946.6	4947.9	5443.2
04	-17.90	171.00	2720.0	2.000	5309.9	1642.4	3260.4	3987.5	4995.7	5495.8
04	-18.10	171.00	2720.0	2.000	5376.5	1642.4	3293.9	4028.5	5043.6	5548.5
04	-18.30	171.00	2720.0	2.000	5443.1	1642.4	3327.3	4069.5	5091.5	5601.2
04	-18.50	171.00	2720.0	2.000	5509.7	1642.4	3360.8	4110.4	5139.3	5653.8
04	-18.70	171.00	2720.0	2.000	5576.3	1642.4	3394.3	4151.4	5187.2	5706.5
04	-18.90	171.00	2720.0	2.000	5642.9	1642.4	3427.8	4192.4	5235.1	5759.1
04	-19.10	171.00	2720.0	2.000	5709.5	1642.4	3461.3	4233.4	5282.9	5811.8
04	-19.30	171.00	2720.0	2.000	5776.2	1642.4	3494.8	4274.3	5330.8	5864.5
04	-19.50	171.00	2720.0	2.000	5842.8	1642.4	3528.3	4315.3	5378.7	5917.1
04	-19.70	171.00	2720.0	2.000	5909.4	1642.4	3561.8	4356.3	5426.5	5969.8
04	-19.90	171.00	2720.0	2.000	5976.0	1642.4	3595.3	4397.2	5474.4	6022.4
04	-20.10	171.00	2720.0	2.000	6042.6	1642.4	3628.8	4438.2	5522.3	6075.1
04	-20.30	171.00	2720.0	2.000	6109.2	1642.4	3662.3	4479.2	5570.1	6127.8
04	-20.50	171.00	2720.0	2.000	6175.8	1642.4	3695.7	4520.1	5618.0	6180.4
04	-20.70	171.00	2720.0	2.000	6242.5	1642.4	3729.2	4561.1	5665.9	6233.1
04	-20.90	171.00	2720.0	2.000	6309.1	1642.4	3762.7	4602.1	5713.7	6285.7
04	-21.10	171.00	2720.0	2.000	6375.7	1642.4	3796.2	4643.0	5761.6	6338.4
04	-21.30	171.00	2720.0	2.000	6442.3	1642.4	3829.7	4684.0	5809.5	6391.1
04	-21.50	171.00	2720.0	2.000	6508.9	1642.4	3863.2	4725.0	5857.3	6443.7
04	-21.70	171.00	2720.0	2.000	6575.5	1642.4	3896.7	4766.0	5905.2	6496.4
04	-21.90	171.00	2720.0	2.000	6642.2	1642.4	3930.2	4806.9	5953.1	6549.0
04	-22.10	171.00	2720.0	2.000	6708.8	1642.4	3963.7	4847.9	6000.9	6601.7
04	-22.30	171.00	2720.0	2.000	6775.4	1642.4	3997.2	4888.9	6048.8	6654.4
04	-22.50	171.00	2720.0	2.000	6842.0	1642.4	4030.7	4929.8	6096.7	6707.0
04	-22.70	171.00	2720.0	2.000	6908.6	1642.4	4064.2	4970.8	6144.5	6759.7
04	-22.90	171.00	2720.0	2.000	6975.2	1642.4	4097.6	5011.8	6192.4	6812.3
04	-23.10	171.00	2720.0	2.000	7041.8	1642.4	4131.1	5052.7	6240.3	6865.0
04	-23.30	171.00	2720.0	2.000	7108.5	1642.4	4164.6	5093.7	6288.1	6917.6
04	-23.50	171.00	2720.0	2.000	7175.1	1642.4	4198.1	5134.7	6336.0	6970.3
04	-23.70	171.00	2720.0	2.000	7241.7	1642.4	4231.6	5175.6	6383.9	7023.0
04	-23.80	171.00	2720.0	2.000	7275.0	1642.4	4248.4	5196.1	6407.8	7049.3

Capacité du pieu pour chaque combinaison en fonction de la profondeur



Données

Titre du projet : Eco-Village d'entreprises à Carrère (pieu n°1)
Numéro d'affaire : 22-1222
Commentaires : Sondage SP6
Titre du calcul : Titre du calcul
Cadre réglementaire : EC 7 - Norme NF P94-262/A1 (juillet 2018)
Méthode de dimensionnement : A partir des résultats pressiométriques
Traitement des données : Traitement par couches
Pas du calcul (m) : 0,20
Section de calcul : Section de calcul circulaire
Diamètre de calcul (m) : 0,72
Classe du pieu : 2 - Pieu tarière creuse
Catégorie du pieu : 6 [FTC, FTCD] - Foré tarière creuse simple rotation, ou double rotation
Mode de chargement : Travail en compression

Combinaisons

	ELS-QP	ELS-CARAC	ELU-FOND	ELU-ACC
Pondérations combinées sur Qs.k	0.636	0.778	0.909	1.000
Pondérations combinées sur Qp.k	0.455	0.556	0.909	1.000

Cote de référence (m) : 6,20

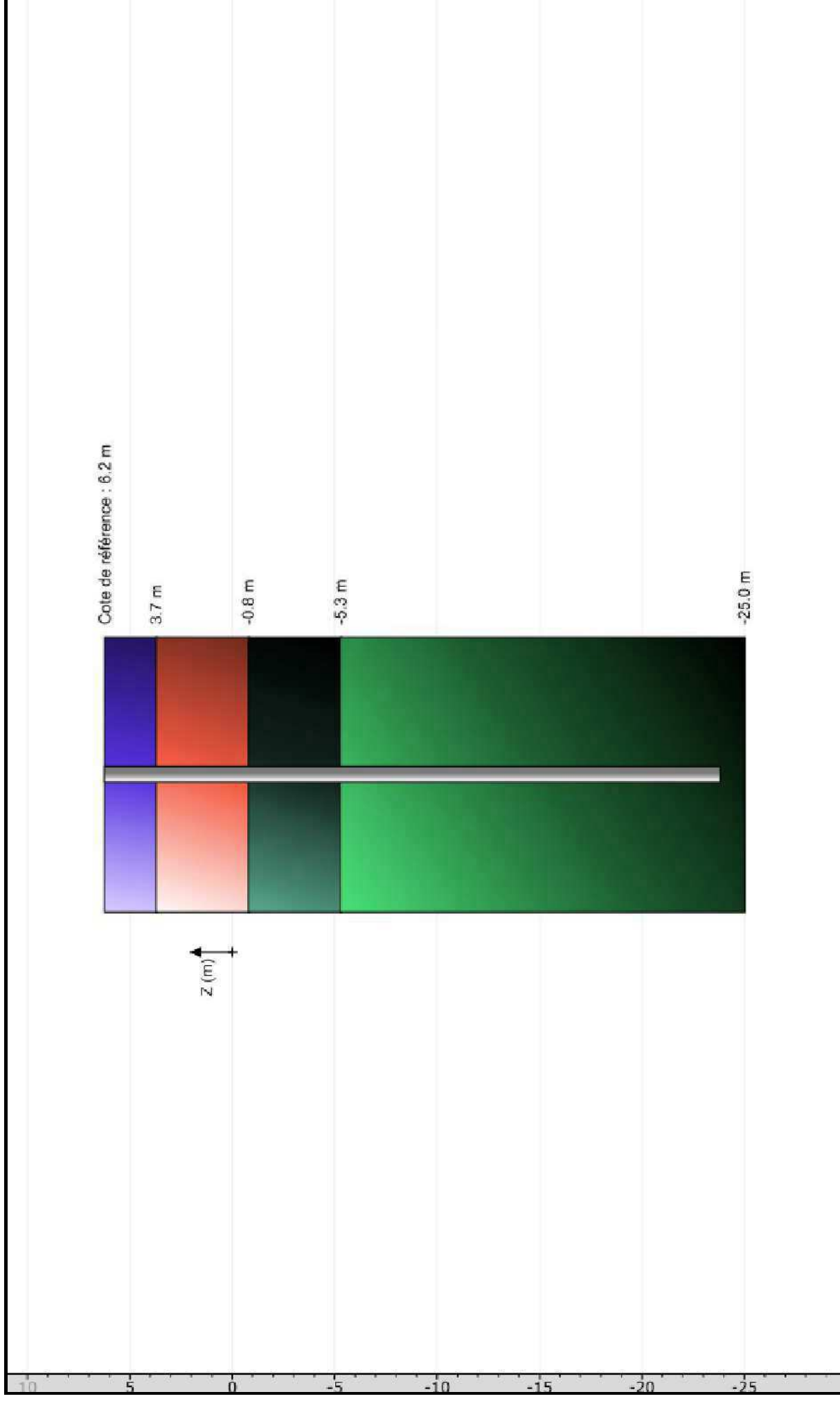
Définition des couches de sol

No	Nom	Couleur	Classe de sol	Zbase	pl*	qsl	kpmax	$\sqrt{R_s.d1 \times \gamma R_s.d2}$
1	Remblais		Argile, limons	3,70	460,00	0,00	1,30	1,265
2	Lave altérée argilisée raide		Argile, limons	-0,80	890,00	61,00	1,30	1,265
3	Lave altérée argilisée raide à très raide		Argile, limons	-5,30	1400,00	66,00	1,30	1,265
4	Lave altérée argilisée très raide		Roche altérée et fragmentée	-25,00	2720,00	171,00	2,00	1,265

Critère de calcul : Longueur imposée

Longueur du pieu (m) : 30,00

Onglet "Paramètres généraux"



File : C:\Users\morel\AppData\Local\Temp\Terrasol\FoXta v3\3812\temp[FP]-1.resu

Calcul réalisé le : 06/09/2022 à 12h56
par : MAGMA CARAIBES

Options du calcul :

- calcul basé sur des paramètres issus du pressiomètre de Ménard
- calcul selon les règles de la norme NF P 94 262
- profil de pression limite pl* défini par couche
- pour pieu de catégorie : 6
- pour pieu travaillant en compression

Combinaisons	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
Frottement	0.636	0.778	0.909	1.000
Pointe	0.455	0.556	0.909	1.000

Cote de référence : 6.200

Section du pieu : 0.407
Périmètre : 2.262

Caractéristiques des couches (données utilisateur)

couche	base	pl*	qsl	kpmin	kpmax	gamrd
01	3.70	460.0	0.00	1.00	1.30	1.26
02	-0.80	890.0	61.00	1.00	1.30	1.26
03	-5.30	1400.0	66.00	1.00	1.30	1.26
04	-25.00	2720.0	171.00	1.00	2.00	1.26

Pas du calcul : 0.20

SOLUTION

Calcul à longueur imposée : L = 30.00

couche	cote	qsl	ple	kp	Qs	Qp	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
01	6.20	0.00	460.0	1.000	0.0	187.3	67.4	82.3	134.6	148.1
01	6.00	0.00	460.0	1.017	0.0	190.4	68.5	83.7	136.8	150.5
01	5.80	0.00	460.0	1.033	0.0	193.5	69.6	85.1	139.1	153.0
01	5.60	0.00	460.0	1.050	0.0	196.7	70.7	86.4	141.3	155.5
01	5.40	0.00	460.0	1.067	0.0	199.8	71.9	87.8	143.6	157.9
01	5.20	0.00	460.0	1.083	0.0	202.9	73.0	89.2	145.8	160.4
01	5.00	0.00	503.0	1.091	0.0	223.5	80.4	98.2	160.6	176.7
01	4.80	0.00	546.0	1.098	0.0	244.2	87.8	107.3	175.4	193.0
01	4.60	0.00	589.0	1.104	0.0	264.8	95.2	116.4	190.3	209.3
01	4.40	0.00	632.0	1.109	0.0	285.4	102.7	125.4	205.1	225.6
01	4.20	0.00	675.0	1.114	0.0	306.0	110.1	134.5	219.9	241.9
01	4.00	0.00	718.0	1.117	0.0	326.7	117.5	143.6	234.7	258.2
01	3.80	0.00	761.0	1.121	0.0	347.3	124.9	152.6	249.6	274.5
01	3.70	0.00	782.5	1.122	0.0	357.6	128.6	157.2	257.0	282.7
02	3.70	61.00	890.0	1.108	0.0	401.4	144.4	176.4	288.4	317.3
02	3.50	61.00	890.0	1.124	27.6	407.4	160.4	196.0	312.6	343.9
02	3.30	61.00	890.0	1.141	55.2	413.5	176.5	215.7	336.8	370.5
02	3.10	61.00	890.0	1.158	82.8	419.5	192.5	235.3	360.9	397.1
02	2.90	61.00	890.0	1.174	110.4	425.5	208.6	254.9	385.1	423.7
02	2.70	61.00	890.0	1.191	138.0	431.6	224.6	274.5	409.3	450.2
02	2.50	61.00	890.0	1.208	165.6	437.6	240.6	294.2	433.4	476.8

02	2.30	61.00	890.0	1.224	193.2	443.7	256.7	313.8	457.6	503.4
02	2.10	61.00	890.0	1.241	220.8	449.7	272.7	333.4	481.8	530.0
02	1.90	61.00	890.0	1.258	248.4	455.7	288.8	353.1	505.9	556.6
02	1.70	61.00	890.0	1.274	276.0	461.8	304.8	372.7	530.1	583.2
02	1.50	61.00	890.0	1.291	303.6	467.8	320.9	392.3	554.3	609.8
02	1.30	61.00	890.0	1.300	331.1	471.1	335.9	410.7	576.5	634.2
02	1.10	61.00	890.0	1.300	358.7	471.1	349.8	427.7	596.3	656.0
02	0.90	61.00	890.0	1.300	386.3	471.1	363.7	444.7	616.1	677.8
02	0.70	61.00	890.0	1.300	413.9	471.1	377.6	461.6	635.9	699.6
02	0.50	61.00	941.0	1.300	441.5	498.1	401.1	490.5	675.2	742.8
02	0.30	61.00	992.0	1.300	469.1	525.1	424.7	519.3	714.4	785.9
02	0.10	61.00	1043.0	1.300	496.7	552.1	448.3	548.1	753.6	829.1
02	-0.10	61.00	1094.0	1.300	524.3	579.0	471.9	577.0	792.9	872.2
02	-0.30	61.00	1145.0	1.300	551.9	606.0	495.5	605.8	832.1	915.4
02	-0.50	61.00	1196.0	1.300	579.5	633.0	519.1	634.6	871.3	958.5
02	-0.70	61.00	1247.0	1.300	607.1	660.0	542.6	663.5	910.5	1001.7
02	-0.80	61.00	1272.5	1.300	620.9	673.5	554.4	677.9	930.1	1023.3
03	-0.80	66.00	1400.0	1.300	620.9	741.0	578.7	707.6	978.6	1076.6
03	-1.00	66.00	1400.0	1.300	650.8	741.0	593.7	725.9	1000.1	1100.2
03	-1.20	66.00	1400.0	1.300	680.6	741.0	608.7	744.3	1021.6	1123.8
03	-1.40	66.00	1400.0	1.300	710.5	741.0	623.7	762.7	1043.0	1147.4
03	-1.60	66.00	1400.0	1.300	740.3	741.0	638.7	781.0	1064.5	1171.0
03	-1.80	66.00	1400.0	1.300	770.2	741.0	653.8	799.4	1085.9	1194.6
03	-2.00	66.00	1400.0	1.300	800.1	741.0	668.8	817.7	1107.4	1218.2
03	-2.20	66.00	1400.0	1.300	829.9	741.0	683.8	836.1	1128.8	1241.8
03	-2.40	66.00	1400.0	1.300	859.8	741.0	698.8	854.5	1150.3	1265.4
03	-2.60	66.00	1400.0	1.300	889.6	741.0	713.8	872.8	1171.7	1289.0
03	-2.80	66.00	1400.0	1.300	919.5	741.0	728.8	891.2	1193.2	1312.6
03	-3.00	66.00	1400.0	1.300	949.3	741.0	743.8	909.6	1214.6	1336.2
03	-3.20	66.00	1400.0	1.300	979.2	741.0	758.8	927.9	1236.1	1359.9
03	-3.40	66.00	1400.0	1.300	1009.1	741.0	773.8	946.3	1257.6	1383.5
03	-3.60	66.00	1400.0	1.300	1038.9	741.0	788.9	964.6	1279.0	1407.1
03	-3.80	66.00	1400.0	1.300	1068.8	741.0	803.9	983.0	1300.5	1430.7
03	-4.00	66.00	1532.0	1.300	1098.6	810.9	844.0	1032.1	1372.1	1509.5
03	-4.20	66.00	1664.0	1.300	1128.5	880.7	884.2	1081.2	1443.8	1588.3
03	-4.40	66.00	1796.0	1.300	1158.3	950.6	924.3	1130.2	1515.4	1667.2
03	-4.60	66.00	1928.0	1.300	1188.2	1020.5	964.4	1179.3	1587.1	1746.0
03	-4.80	66.00	2060.0	1.300	1218.1	1090.3	1004.6	1228.4	1658.8	1824.8
03	-5.00	66.00	2192.0	1.300	1247.9	1160.2	1044.7	1277.4	1730.4	1903.7
03	-5.20	66.00	2324.0	1.300	1277.8	1230.1	1084.9	1326.5	1802.1	1982.5
03	-5.30	66.00	2390.0	1.300	1292.7	1265.0	1104.9	1351.0	1837.9	2021.9
04	-5.30	171.00	2720.0	1.889	1292.7	2091.7	1402.3	1714.4	2432.0	2675.4
04	-5.50	171.00	2720.0	1.926	1370.1	2133.1	1456.1	1780.2	2517.3	2769.3
04	-5.70	171.00	2720.0	1.964	1447.4	2174.5	1509.9	1846.0	2602.6	2863.2
04	-5.90	171.00	2720.0	2.000	1524.8	2214.9	1563.3	1911.3	2687.2	2956.3
04	-6.10	171.00	2720.0	2.000	1602.1	2214.9	1602.2	1958.9	2742.8	3017.4
04	-6.30	171.00	2720.0	2.000	1679.5	2214.9	1641.1	2006.4	2798.4	3078.6
04	-6.50	171.00	2720.0	2.000	1756.9	2214.9	1680.0	2054.0	2854.0	3139.7
04	-6.70	171.00	2720.0	2.000	1834.2	2214.9	1718.8	2101.6	2909.6	3200.9
04	-6.90	171.00	2720.0	2.000	1911.6	2214.9	1757.7	2149.2	2965.2	3262.0
04	-7.10	171.00	2720.0	2.000	1988.9	2214.9	1796.6	2196.7	3020.8	3323.2
04	-7.30	171.00	2720.0	2.000	2066.3	2214.9	1835.5	2244.3	3076.4	3384.3
04	-7.50	171.00	2720.0	2.000	2143.6	2214.9	1874.4	2291.9	3132.0	3445.5
04	-7.70	171.00	2720.0	2.000	2221.0	2214.9	1913.3	2339.5	3187.5	3506.6
04	-7.90	171.00	2720.0	2.000	2298.4	2214.9	1952.2	2387.0	3243.1	3567.8
04	-8.10	171.00	2720.0	2.000	2375.7	2214.9	1991.1	2434.6	3298.7	3628.9
04	-8.30	171.00	2720.0	2.000	2453.1	2214.9	2030.0	2482.2	3354.3	3690.1
04	-8.50	171.00	2720.0	2.000	2530.4	2214.9	2068.9	2529.8	3409.9	3751.3
04	-8.70	171.00	2720.0	2.000	2607.8	2214.9	2107.8	2577.4	3465.5	3812.4
04	-8.90	171.00	2720.0	2.000	2685.2	2214.9	2146.7	2624.9	3521.1	3873.6
04	-9.10	171.00	2720.0	2.000	2762.5	2214.9	2185.6	2672.5	3576.7	3934.7
04	-9.30	171.00	2720.0	2.000	2839.9	2214.9	2224.5	2720.1	3632.2	3995.9
04	-9.50	171.00	2720.0	2.000	2917.2	2214.9	2263.4	2767.7	3687.8	4057.0
04	-9.70	171.00	2720.0	2.000	2994.6	2214.9	2302.2	2815.2	3743.4	4118.2
04	-9.90	171.00	2720.0	2.000	3072.0	2214.9	2341.1	2862.8	3799.0	4179.3
04	-10.10	171.00	2720.0	2.000	3149.3	2214.9	2380.0	2910.4	3854.6	4240.5
04	-10.30	171.00	2720.0	2.000	3226.7	2214.9	2418.9	2958.0	3910.2	4301.6
04	-10.50	171.00	2720.0	2.000	3304.0	2214.9	2457.8	3005.5	3965.8	4362.8
04	-10.70	171.00	2720.0	2.000	3381.4	2214.9	2496.7	3053.1	4021.4	4423.9
04	-10.90	171.00	2720.0	2.000	3458.7	2214.9	2535.6	3100.7	4076.9	4485.1
04	-11.10	171.00	2720.0	2.000	3536.1	2214.9	2574.5	3148.3	4132.5	4546.2
04	-11.30	171.00	2720.0	2.000	3613.5	2214.9	2613.4	3195.9	4188.1	4607.4
04	-11.50	171.00	2720.0	2.000	3690.8	2214.9	2652.3	3243.4	4243.7	4668.6
04	-11.70	171.00	2720.0	2.000	3768.2	2214.9	2691.2	3291.0	4299.3	4729.7
04	-11.90	171.00	2720.0	2.000	3845.5	2214.9	2730.1	3338.6	4354.9	4790.9
04	-12.10	171.00	2720.0	2.000	3922.9	2214.9	2769.0	3386.2	4410.5	4852.0
04	-12.30	171.00	2720.0	2.000	4000.3	2214.9	2807.9	3433.7	4466.1	4913.2
04	-12.50	171.00	2720.0	2.000	4077.6	2214.9	2846.8	3481.3	4521.7	4974.3
04	-12.70	171.00	2720.0	2.000	4155.0	2214.9	2885.6	3528.9	4577.2	5035.5
04	-12.90	171.00	2720.0	2.000	4232.3	2214.9	2924.5	3576.5	4632.8	5096.6
04	-13.10	171.00	2720.0	2.000	4309.7	2214.9	2963.4	3624.0	4688.4	5157.8
04	-13.30	171.00	2720.0	2.000	4387.0	2214.9	3002.3	3671.6	4744.0	5218.9
04	-13.50	171.00	2720.0	2.000	4464.4	2214.9	3041.2	3719.2	4799.6	5280.1
04	-13.70	171.00	2720.0	2.000	4541.8	2214.9	3080.1	3766.8	4855.2	5341.2
04	-13.90	171.00	2720.0	2.000	4619.1	2214.9	3119.0	3814.4	4910.8	5402.4
04	-14.10	171.00	2720.0	2.000	4696.5	2214.9	3157.9	3861.9	4966.4	5463.5

04	-14.30	171.00	2720.0	2.000	4773.8	2214.9	3196.8	3909.5	5021.9	5524.7
04	-14.50	171.00	2720.0	2.000	4851.2	2214.9	3235.7	3957.1	5077.5	5585.8
04	-14.70	171.00	2720.0	2.000	4928.6	2214.9	3274.6	4004.7	5133.1	5647.0
04	-14.90	171.00	2720.0	2.000	5005.9	2214.9	3313.5	4052.2	5188.7	5708.2
04	-15.10	171.00	2720.0	2.000	5083.3	2214.9	3352.4	4099.8	5244.3	5769.3
04	-15.30	171.00	2720.0	2.000	5160.6	2214.9	3391.3	4147.4	5299.9	5830.5
04	-15.50	171.00	2720.0	2.000	5238.0	2214.9	3430.2	4195.0	5355.5	5891.6
04	-15.70	171.00	2720.0	2.000	5315.3	2214.9	3469.0	4242.5	5411.1	5952.8
04	-15.90	171.00	2720.0	2.000	5392.7	2214.9	3507.9	4290.1	5466.7	6013.9
04	-16.10	171.00	2720.0	2.000	5470.1	2214.9	3546.8	4337.7	5522.2	6075.1
04	-16.30	171.00	2720.0	2.000	5547.4	2214.9	3585.7	4385.3	5577.8	6136.2
04	-16.50	171.00	2720.0	2.000	5624.8	2214.9	3624.6	4432.9	5633.4	6197.4
04	-16.70	171.00	2720.0	2.000	5702.1	2214.9	3663.5	4480.4	5689.0	6258.5
04	-16.90	171.00	2720.0	2.000	5779.5	2214.9	3702.4	4528.0	5744.6	6319.7
04	-17.10	171.00	2720.0	2.000	5856.9	2214.9	3741.3	4575.6	5800.2	6380.8
04	-17.30	171.00	2720.0	2.000	5934.2	2214.9	3780.2	4623.2	5855.8	6442.0
04	-17.50	171.00	2720.0	2.000	6011.6	2214.9	3819.1	4670.7	5911.4	6503.1
04	-17.70	171.00	2720.0	2.000	6088.9	2214.9	3858.0	4718.3	5966.9	6564.3
04	-17.90	171.00	2720.0	2.000	6166.3	2214.9	3896.9	4765.9	6022.5	6625.4
04	-18.10	171.00	2720.0	2.000	6243.7	2214.9	3935.8	4813.5	6078.1	6686.6
04	-18.30	171.00	2720.0	2.000	6321.0	2214.9	3974.7	4861.1	6133.7	6747.8
04	-18.50	171.00	2720.0	2.000	6398.4	2214.9	4013.6	4908.6	6189.3	6808.9
04	-18.70	171.00	2720.0	2.000	6475.7	2214.9	4052.4	4956.2	6244.9	6870.1
04	-18.90	171.00	2720.0	2.000	6553.1	2214.9	4091.3	5003.8	6300.5	6931.2
04	-19.10	171.00	2720.0	2.000	6630.4	2214.9	4130.2	5051.4	6356.1	6992.4
04	-19.30	171.00	2720.0	2.000	6707.8	2214.9	4169.1	5098.9	6411.6	7053.5
04	-19.50	171.00	2720.0	2.000	6785.2	2214.9	4208.0	5146.5	6467.2	7114.7
04	-19.70	171.00	2720.0	2.000	6862.5	2214.9	4246.9	5194.1	6522.8	7175.8
04	-19.90	171.00	2720.0	2.000	6939.9	2214.9	4285.8	5241.7	6578.4	7237.0
04	-20.10	171.00	2720.0	2.000	7017.2	2214.9	4324.7	5289.2	6634.0	7298.1
04	-20.30	171.00	2720.0	2.000	7094.6	2214.9	4363.6	5336.8	6689.6	7359.3
04	-20.50	171.00	2720.0	2.000	7172.0	2214.9	4402.5	5384.4	6745.2	7420.4
04	-20.70	171.00	2720.0	2.000	7249.3	2214.9	4441.4	5432.0	6800.8	7481.6
04	-20.90	171.00	2720.0	2.000	7326.7	2214.9	4480.3	5479.6	6856.4	7542.7
04	-21.10	171.00	2720.0	2.000	7404.0	2214.9	4519.2	5527.1	6911.9	7603.9
04	-21.30	171.00	2720.0	2.000	7481.4	2214.9	4558.1	5574.7	6967.5	7665.0
04	-21.50	171.00	2720.0	2.000	7558.7	2214.9	4597.0	5622.3	7023.1	7726.2
04	-21.70	171.00	2720.0	2.000	7636.1	2214.9	4635.8	5669.9	7078.7	7787.4
04	-21.90	171.00	2720.0	2.000	7713.5	2214.9	4674.7	5717.4	7134.3	7848.5
04	-22.10	171.00	2720.0	2.000	7790.8	2214.9	4713.6	5765.0	7189.9	7909.7
04	-22.30	171.00	2720.0	2.000	7868.2	2214.9	4752.5	5812.6	7245.5	7970.8
04	-22.50	171.00	2720.0	2.000	7945.5	2214.9	4791.4	5860.2	7301.1	8032.0
04	-22.70	171.00	2720.0	2.000	8022.9	2214.9	4830.3	5907.7	7356.6	8093.1
04	-22.90	171.00	2720.0	2.000	8100.3	2214.9	4869.2	5955.3	7412.2	8154.3
04	-23.10	171.00	2720.0	2.000	8177.6	2214.9	4908.1	6002.9	7467.8	8215.4
04	-23.30	171.00	2720.0	2.000	8255.0	2214.9	4947.0	6050.5	7523.4	8276.6
04	-23.50	171.00	2720.0	2.000	8332.3	2214.9	4985.9	6098.1	7579.0	8337.7
04	-23.70	171.00	2720.0	2.000	8409.7	2214.9	5024.8	6145.6	7634.6	8398.9
04	-23.80	171.00	2720.0	2.000	8448.4	2214.9	5044.2	6169.4	7662.4	8429.5

Capacité du pieu pour chaque combinaison en fonction de la profondeur



Données

Titre du projet : Eco-Village d'entreprises à Carrère (pieu n°1)
Numéro d'affaire : 22-1222
Commentaires : Sondage SP6
Titre du calcul : Titre du calcul
Cadre réglementaire : EC 7 - Norme NF P94-262/A1 (juillet 2018)
Méthode de dimensionnement : A partir des résultats pressiométriques
Traitement des données : Traitement par couches
Pas du calcul (m) : 0,20
Section de calcul : Section de calcul circulaire
Diamètre de calcul (m) : 0,82
Classe du pieu : 2 - Pieu tarière creuse
Catégorie du pieu : 6 [FTC, FTCD] - Foré tarière creuse simple rotation, ou double rotation
Mode de chargement : Travail en compression

Combinaisons

	ELS-QP	ELS-CARAC	ELU-FOND	ELU-ACC
Pondérations combinées sur Qs.k	0,636	0,778	0,909	1,000
Pondérations combinées sur Qp.k	0,455	0,556	0,909	1,000

Cote de référence (m) : 6,20

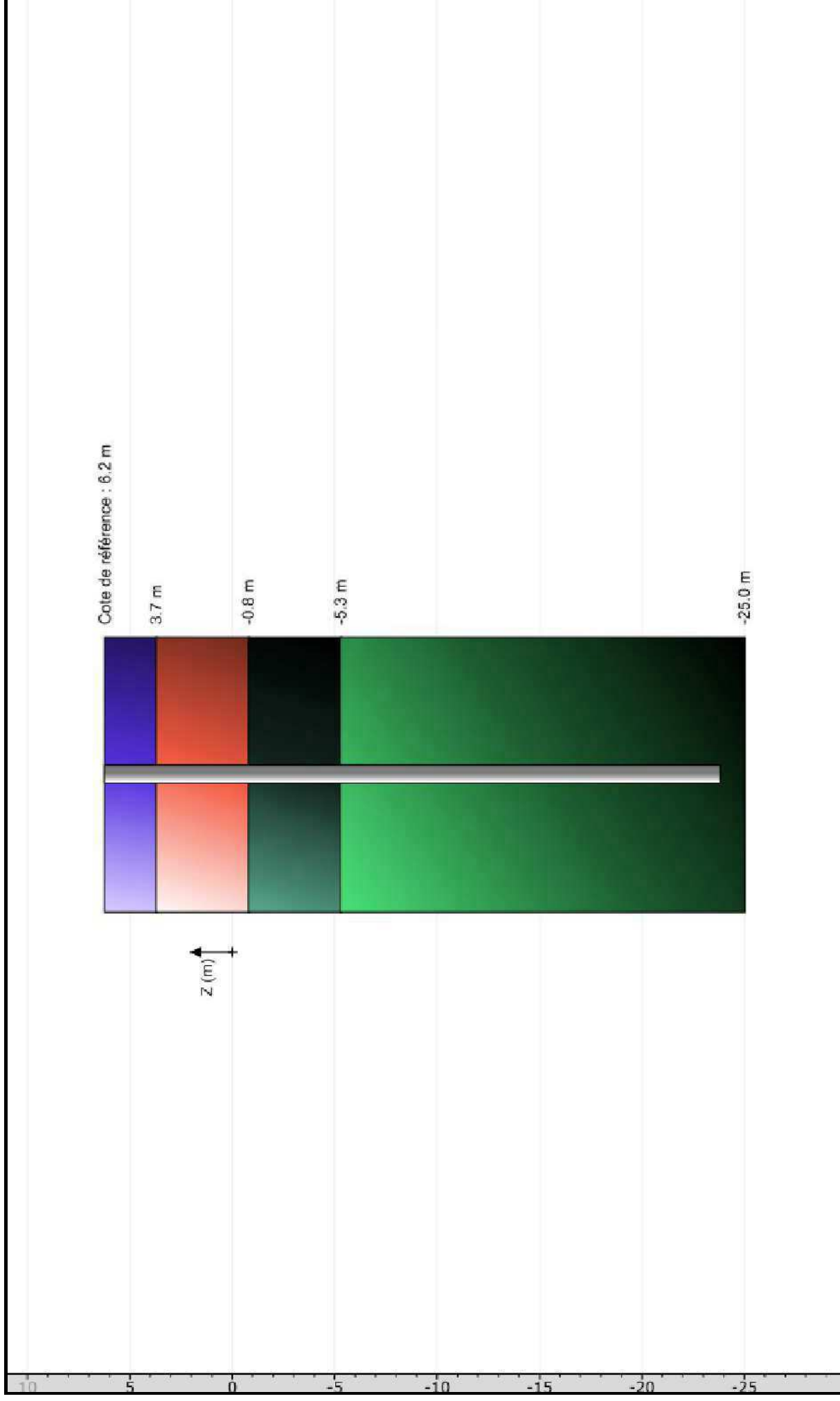
Définition des couches de sol

No	Nom	Couleur	Classe de sol	Zbase	pl*	qsl	kpmax	$\sqrt{R_s.d1 \times \gamma R_s.d2}$
1	Remblais		Argile, limons	3,70	460,00	0,00	1,30	1,265
2	Lave altérée argilisée raide		Argile, limons	-0,80	890,00	61,00	1,30	1,265
3	Lave altérée argilisée raide à très raide		Argile, limons	-5,30	1400,00	66,00	1,30	1,265
4	Lave altérée argilisée très raide		Roche altérée et fragmentée	-25,00	2720,00	171,00	2,00	1,265

Critère de calcul : Longueur imposée

Longueur du pieu (m) : 30,00

Onglet "Paramètres généraux"



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Calcul réalisé le : 06/09/2022 à 12h56
par : MAGMA CARAIBES

Options du calcul :

- calcul basé sur des paramètres issus du pressiomètre de Ménard
- calcul selon les règles de la norme NF P 94 262
- profil de pression limite pl* défini par couche
- pour pieu de catégorie : 6
- pour pieu travaillant en compression

Combinaisons	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
Frottement	0.636	0.778	0.909	1.000
Pointe	0.455	0.556	0.909	1.000

Cote de référence : 6.200

Section du pieu : 0.528
Périmètre : 2.576

Caractéristiques des couches (données utilisateur)

couche	base	pl*	qsl	kpmin	kpmax	gamrd
01	3.70	460.0	0.00	1.00	1.30	1.26
02	-0.80	890.0	61.00	1.00	1.30	1.26
03	-5.30	1400.0	66.00	1.00	1.30	1.26
04	-25.00	2720.0	171.00	1.00	2.00	1.26

Pas du calcul : 0.20

 SOLUTION

Calcul à longueur imposée : L = 30.00

couche	cote	qsl	ple	kp	Qs	Qp	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
01	6.20	0.00	460.0	1.000	0.0	242.9	87.4	106.8	174.6	192.0
01	6.00	0.00	460.0	1.015	0.0	246.5	88.7	108.3	177.1	194.8
01	5.80	0.00	460.0	1.029	0.0	250.0	89.9	109.9	179.7	197.7
01	5.60	0.00	460.0	1.044	0.0	253.6	91.2	111.5	182.2	200.5
01	5.40	0.00	460.0	1.059	0.0	257.1	92.5	113.0	184.8	203.3
01	5.20	0.00	460.0	1.073	0.0	260.7	93.8	114.6	187.3	206.1
01	5.00	0.00	503.0	1.080	0.0	287.0	103.2	126.1	206.2	226.9
01	4.80	0.00	546.0	1.086	0.0	313.2	112.7	137.7	225.1	247.6
01	4.60	0.00	589.0	1.091	0.0	339.5	122.1	149.2	244.0	268.4
01	4.40	0.00	632.0	1.096	0.0	365.8	131.6	160.8	262.8	289.1
01	4.20	0.00	675.0	1.100	0.0	392.0	141.0	172.3	281.7	309.9
01	4.00	0.00	718.0	1.103	0.0	418.3	150.4	183.8	300.6	330.7
01	3.80	0.00	761.0	1.106	0.0	444.5	159.9	195.4	319.4	351.4
01	3.70	0.00	782.5	1.108	0.0	457.7	164.6	201.2	328.9	361.8
02	3.70	61.00	890.0	1.095	0.0	514.4	185.0	226.1	369.7	406.7
02	3.50	61.00	890.0	1.109	31.4	521.3	203.3	248.5	397.2	437.0
02	3.30	61.00	890.0	1.124	62.9	528.2	221.6	270.8	424.7	467.2
02	3.10	61.00	890.0	1.138	94.3	535.1	239.9	293.2	452.2	497.5
02	2.90	61.00	890.0	1.153	125.7	542.0	258.1	315.5	479.8	527.8
02	2.70	61.00	890.0	1.168	157.1	548.8	276.4	337.9	507.3	558.1
02	2.50	61.00	890.0	1.182	188.6	555.7	294.7	360.2	534.8	588.4



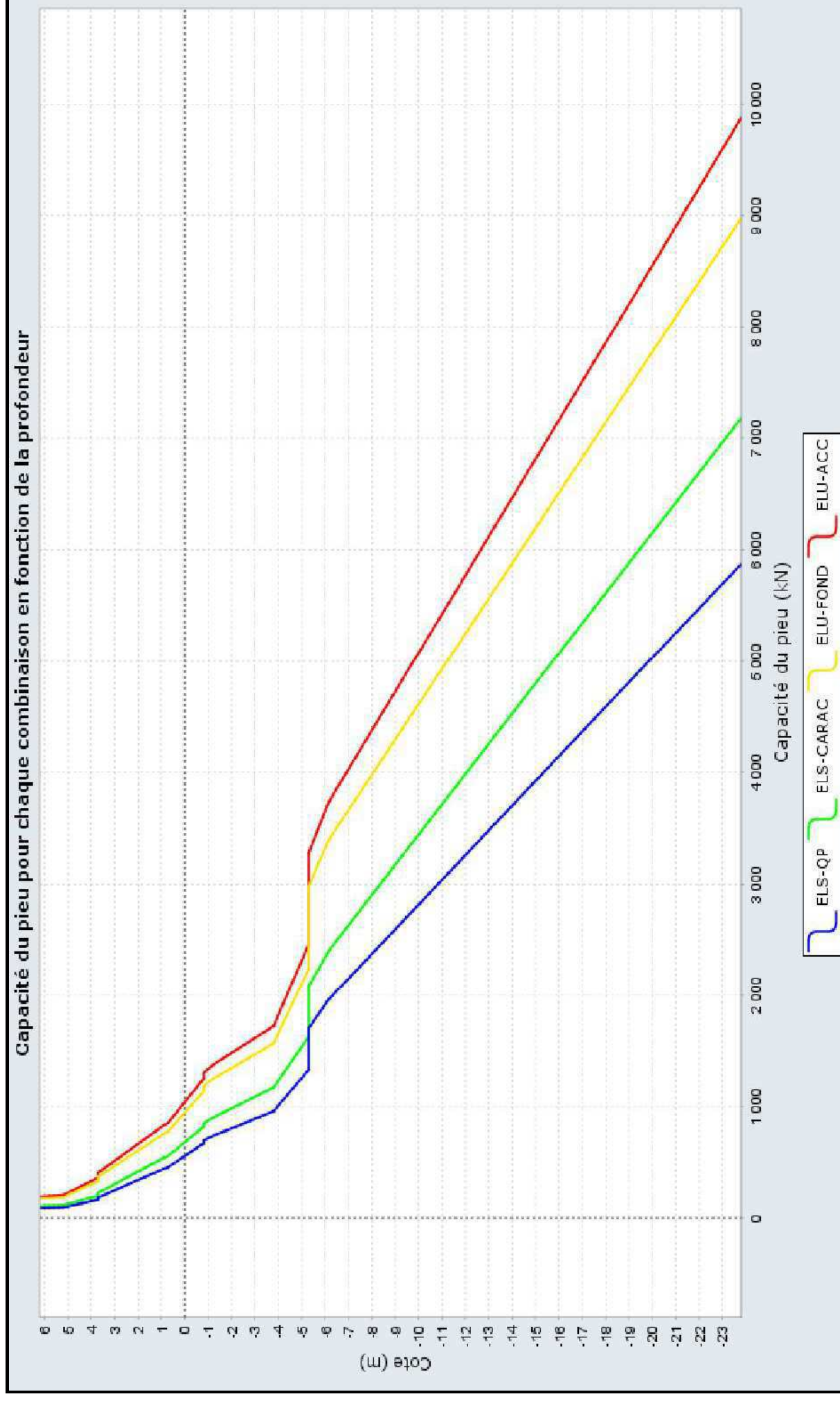
FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 12:57:14
 Calcul réalisé par : MAGMA CARAIBES
 Projet : SP6_compression
 Module : Fondprof (Pieu 1/1)

02	2.30	61.00	890.0	1.197	220.0	562.6	313.0	382.6	562.4	618.7
02	2.10	61.00	890.0	1.212	251.4	569.5	331.2	404.9	589.9	648.9
02	1.90	61.00	890.0	1.226	282.9	576.4	349.5	427.3	617.4	679.2
02	1.70	61.00	890.0	1.241	314.3	583.2	367.8	449.6	644.9	709.5
02	1.50	61.00	890.0	1.256	345.7	590.1	386.1	472.0	672.5	739.8
02	1.30	61.00	890.0	1.270	377.1	597.0	404.3	494.3	700.0	770.1
02	1.10	61.00	890.0	1.285	408.6	603.9	422.6	516.7	727.5	800.3
02	0.90	61.00	890.0	1.299	440.0	610.7	440.9	539.0	755.0	830.6
02	0.70	61.00	890.0	1.300	471.4	611.0	456.8	558.5	777.8	855.7
02	0.50	61.00	941.0	1.300	502.9	646.0	485.2	593.2	825.6	908.2
02	0.30	61.00	992.0	1.300	534.3	681.0	513.6	627.9	873.3	960.7
02	0.10	61.00	1043.0	1.300	565.7	716.1	542.0	662.6	921.0	1013.3
02	-0.10	61.00	1094.0	1.300	597.1	751.1	570.4	697.4	968.8	1065.8
02	-0.30	61.00	1145.0	1.300	628.6	786.1	598.8	732.1	1016.5	1118.3
02	-0.50	61.00	1196.0	1.299	660.0	820.5	626.9	766.5	1063.8	1170.3
02	-0.70	61.00	1247.0	1.297	691.4	854.3	654.9	800.7	1110.7	1221.9
02	-0.80	61.00	1272.5	1.296	707.1	871.2	668.9	817.8	1134.2	1247.7
03	-0.80	66.00	1400.0	1.269	707.1	938.5	693.1	847.4	1182.5	1300.9
03	-1.00	66.00	1400.0	1.284	741.1	949.4	714.1	873.1	1214.8	1336.4
03	-1.20	66.00	1400.0	1.299	775.2	960.2	735.1	898.8	1247.0	1371.8
03	-1.40	66.00	1400.0	1.300	809.2	961.1	752.5	920.1	1272.1	1399.4
03	-1.60	66.00	1400.0	1.300	843.2	961.1	769.6	941.0	1296.5	1426.3
03	-1.80	66.00	1400.0	1.300	877.2	961.1	786.7	961.9	1321.0	1453.2
03	-2.00	66.00	1400.0	1.300	911.2	961.1	803.8	982.8	1345.4	1480.1
03	-2.20	66.00	1400.0	1.300	945.2	961.1	820.9	1003.7	1369.8	1507.0
03	-2.40	66.00	1400.0	1.300	979.2	961.1	838.0	1024.7	1394.3	1533.9
03	-2.60	66.00	1400.0	1.300	1013.2	961.1	855.1	1045.6	1418.7	1560.7
03	-2.80	66.00	1400.0	1.300	1047.2	961.1	872.2	1066.5	1443.1	1587.6
03	-3.00	66.00	1400.0	1.300	1081.2	961.1	889.3	1087.4	1467.6	1614.5
03	-3.20	66.00	1400.0	1.300	1115.2	961.1	906.4	1108.3	1492.0	1641.4
03	-3.40	66.00	1400.0	1.300	1149.2	961.1	923.5	1129.2	1516.4	1668.3
03	-3.60	66.00	1400.0	1.300	1183.2	961.1	940.6	1150.1	1540.9	1695.1
03	-3.80	66.00	1400.0	1.300	1217.2	961.1	957.7	1171.1	1565.3	1722.0
03	-4.00	66.00	1532.0	1.300	1251.2	1051.8	1007.4	1231.8	1654.9	1820.5
03	-4.20	66.00	1664.0	1.300	1285.2	1142.4	1057.1	1292.5	1744.4	1919.1
03	-4.40	66.00	1796.0	1.300	1319.2	1233.0	1106.8	1353.3	1834.0	2017.6
03	-4.60	66.00	1928.0	1.300	1353.2	1323.6	1156.4	1414.0	1923.5	2116.1
03	-4.80	66.00	2060.0	1.300	1387.2	1414.3	1206.1	1474.8	2013.1	2214.6
03	-5.00	66.00	2192.0	1.300	1421.2	1504.9	1255.8	1535.5	2102.6	2313.1
03	-5.20	66.00	2324.0	1.300	1455.2	1595.5	1305.5	1596.3	2192.2	2411.7
03	-5.30	66.00	2390.0	1.294	1472.2	1632.9	1327.5	1623.1	2231.3	2454.6
04	-5.30	171.00	2720.0	1.860	1472.2	2672.1	1701.3	2079.9	2978.0	3276.1
04	-5.50	171.00	2720.0	1.893	1560.3	2719.2	1762.5	2154.8	3075.2	3383.0
04	-5.70	171.00	2720.0	1.926	1648.5	2766.4	1823.8	2229.7	3172.4	3490.0
04	-5.90	171.00	2720.0	1.959	1736.6	2813.5	1885.0	2304.6	3269.6	3596.9
04	-6.10	171.00	2720.0	1.991	1824.7	2860.6	1946.3	2379.5	3366.7	3703.8
04	-6.30	171.00	2720.0	2.000	1912.8	2872.9	1995.0	2439.1	3438.8	3783.1
04	-6.50	171.00	2720.0	2.000	2000.9	2872.9	2039.3	2493.3	3502.2	3852.8
04	-6.70	171.00	2720.0	2.000	2089.0	2872.9	2083.6	2547.5	3565.5	3922.4
04	-6.90	171.00	2720.0	2.000	2177.1	2872.9	2127.9	2601.6	3628.8	3992.0
04	-7.10	171.00	2720.0	2.000	2265.2	2872.9	2172.2	2655.8	3692.1	4061.7
04	-7.30	171.00	2720.0	2.000	2353.3	2872.9	2216.5	2710.0	3755.4	4131.3
04	-7.50	171.00	2720.0	2.000	2441.4	2872.9	2260.8	2764.2	3818.7	4201.0
04	-7.70	171.00	2720.0	2.000	2529.5	2872.9	2305.1	2818.4	3882.0	4270.6
04	-7.90	171.00	2720.0	2.000	2617.6	2872.9	2349.4	2872.6	3945.3	4340.3
04	-8.10	171.00	2720.0	2.000	2705.7	2872.9	2393.7	2926.8	4008.6	4409.9
04	-8.30	171.00	2720.0	2.000	2793.8	2872.9	2437.9	2980.9	4071.9	4479.6
04	-8.50	171.00	2720.0	2.000	2881.9	2872.9	2482.2	3035.1	4135.2	4549.2
04	-8.70	171.00	2720.0	2.000	2970.0	2872.9	2526.5	3089.3	4198.5	4618.9
04	-8.90	171.00	2720.0	2.000	3058.1	2872.9	2570.8	3143.5	4261.9	4688.5
04	-9.10	171.00	2720.0	2.000	3146.2	2872.9	2615.1	3197.7	4325.2	4758.2
04	-9.30	171.00	2720.0	2.000	3234.3	2872.9	2659.4	3251.9	4388.5	4827.8
04	-9.50	171.00	2720.0	2.000	3322.4	2872.9	2703.7	3306.0	4451.8	4897.5
04	-9.70	171.00	2720.0	2.000	3410.5	2872.9	2748.0	3360.2	4515.1	4967.1
04	-9.90	171.00	2720.0	2.000	3498.6	2872.9	2792.3	3414.4	4578.4	5036.7
04	-10.10	171.00	2720.0	2.000	3586.7	2872.9	2836.6	3468.6	4641.7	5106.4
04	-10.30	171.00	2720.0	2.000	3674.8	2872.9	2880.9	3522.8	4705.0	5176.0
04	-10.50	171.00	2720.0	2.000	3762.9	2872.9	2925.2	3577.0	4768.3	5245.7
04	-10.70	171.00	2720.0	2.000	3851.0	2872.9	2969.5	3631.2	4831.6	5315.3
04	-10.90	171.00	2720.0	2.000	3939.1	2872.9	3013.8	3685.3	4894.9	5385.0
04	-11.10	171.00	2720.0	2.000	4027.2	2872.9	3058.1	3739.5	4958.3	5454.6
04	-11.30	171.00	2720.0	2.000	4115.3	2872.9	3102.4	3793.7	5021.6	5524.3
04	-11.50	171.00	2720.0	2.000	4203.4	2872.9	3146.7	3847.9	5084.9	5593.9
04	-11.70	171.00	2720.0	2.000	4291.5	2872.9	3191.0	3902.1	5148.2	5663.6
04	-11.90	171.00	2720.0	2.000	4379.6	2872.9	3235.3	3956.3	5211.5	5733.2
04	-12.10	171.00	2720.0	2.000	4467.7	2872.9	3279.6	4010.5	5274.8	5802.9
04	-12.30	171.00	2720.0	2.000	4555.8	2872.9	3323.9	4064.6	5338.1	5872.5
04	-12.50	171.00	2720.0	2.000	4643.9	2872.9	3368.1	4118.8	5401.4	5942.2
04	-12.70	171.00	2720.0	2.000	4732.0	2872.9	3412.4	4173.0	5464.7	6011.8
04	-12.90	171.00	2720.0	2.000	4820.2	2872.9	3456.7	4227.2	5528.0	6081.4
04	-13.10	171.00	2720.0	2.000	4908.3	2872.9	3501.0	4281.4	5591.3	6151.1
04	-13.30	171.00	2720.0	2.000	4996.4	2872.9	3545.3	4335.6	5654.6	6220.7
04	-13.50	171.00	2720.0	2.000	5084.5	2872.9	3589.6	4389.7	5718.0	6290.4
04	-13.70	171.00	2720.0	2.000	5172.6	2872.9	3633.9	4443.9	5781.3	6360.0
04	-13.90	171.00	2720.0	2.000	5260.7	2872.9	3678.2	4498.1	5844.6	6429.7
04	-14.10	171.00	2720.0	2.000	5348.8	2872.9	3722.5	4552.3	5907.9	6499.3

04	-14.30	171.00	2720.0	2.000	5436.9	2872.9	3766.8	4606.5	5971.2	6569.0
04	-14.50	171.00	2720.0	2.000	5525.0	2872.9	3811.1	4660.7	6034.5	6638.6
04	-14.70	171.00	2720.0	2.000	5613.1	2872.9	3855.4	4714.9	6097.8	6708.3
04	-14.90	171.00	2720.0	2.000	5701.2	2872.9	3899.7	4769.0	6161.1	6777.9
04	-15.10	171.00	2720.0	2.000	5789.3	2872.9	3944.0	4823.2	6224.4	6847.6
04	-15.30	171.00	2720.0	2.000	5877.4	2872.9	3988.3	4877.4	6287.7	6917.2
04	-15.50	171.00	2720.0	2.000	5965.5	2872.9	4032.6	4931.6	6351.0	6986.8
04	-15.70	171.00	2720.0	2.000	6053.6	2872.9	4076.9	4985.8	6414.4	7056.5
04	-15.90	171.00	2720.0	2.000	6141.7	2872.9	4121.2	5040.0	6477.7	7126.1
04	-16.10	171.00	2720.0	2.000	6229.8	2872.9	4165.5	5094.2	6541.0	7195.8
04	-16.30	171.00	2720.0	2.000	6317.9	2872.9	4209.8	5148.3	6604.3	7265.4
04	-16.50	171.00	2720.0	2.000	6406.0	2872.9	4254.1	5202.5	6667.6	7335.1
04	-16.70	171.00	2720.0	2.000	6494.1	2872.9	4298.3	5256.7	6730.9	7404.7
04	-16.90	171.00	2720.0	2.000	6582.2	2872.9	4342.6	5310.9	6794.2	7474.4
04	-17.10	171.00	2720.0	2.000	6670.3	2872.9	4386.9	5365.1	6857.5	7544.0
04	-17.30	171.00	2720.0	2.000	6758.4	2872.9	4431.2	5419.3	6920.8	7613.7
04	-17.50	171.00	2720.0	2.000	6846.5	2872.9	4475.5	5473.4	6984.1	7683.3
04	-17.70	171.00	2720.0	2.000	6934.6	2872.9	4519.8	5527.6	7047.4	7753.0
04	-17.90	171.00	2720.0	2.000	7022.7	2872.9	4564.1	5581.8	7110.7	7822.6
04	-18.10	171.00	2720.0	2.000	7110.8	2872.9	4608.4	5636.0	7174.1	7892.3
04	-18.30	171.00	2720.0	2.000	7198.9	2872.9	4652.7	5690.2	7237.4	7961.9
04	-18.50	171.00	2720.0	2.000	7287.0	2872.9	4697.0	5744.4	7300.7	8031.5
04	-18.70	171.00	2720.0	2.000	7375.1	2872.9	4741.3	5798.6	7364.0	8101.2
04	-18.90	171.00	2720.0	2.000	7463.2	2872.9	4785.6	5852.7	7427.3	8170.8
04	-19.10	171.00	2720.0	2.000	7551.3	2872.9	4829.9	5906.9	7490.6	8240.5
04	-19.30	171.00	2720.0	2.000	7639.4	2872.9	4874.2	5961.1	7553.9	8310.1
04	-19.50	171.00	2720.0	2.000	7727.5	2872.9	4918.5	6015.3	7617.2	8379.8
04	-19.70	171.00	2720.0	2.000	7815.6	2872.9	4962.8	6069.5	7680.5	8449.4
04	-19.90	171.00	2720.0	2.000	7903.8	2872.9	5007.1	6123.7	7743.8	8519.1
04	-20.10	171.00	2720.0	2.000	7991.9	2872.9	5051.4	6177.8	7807.1	8588.7
04	-20.30	171.00	2720.0	2.000	8080.0	2872.9	5095.7	6232.0	7870.5	8658.4
04	-20.50	171.00	2720.0	2.000	8168.1	2872.9	5140.0	6286.2	7933.8	8728.0
04	-20.70	171.00	2720.0	2.000	8256.2	2872.9	5184.3	6340.4	7997.1	8797.7
04	-20.90	171.00	2720.0	2.000	8344.3	2872.9	5228.5	6394.6	8060.4	8867.3
04	-21.10	171.00	2720.0	2.000	8432.4	2872.9	5272.8	6448.8	8123.7	8936.9
04	-21.30	171.00	2720.0	2.000	8520.5	2872.9	5317.1	6503.0	8187.0	9006.6
04	-21.50	171.00	2720.0	2.000	8608.6	2872.9	5361.4	6557.1	8250.3	9076.2
04	-21.70	171.00	2720.0	2.000	8696.7	2872.9	5405.7	6611.3	8313.6	9145.9
04	-21.90	171.00	2720.0	2.000	8784.8	2872.9	5450.0	6665.5	8376.9	9215.5
04	-22.10	171.00	2720.0	2.000	8872.9	2872.9	5494.3	6719.7	8440.2	9285.2
04	-22.30	171.00	2720.0	2.000	8961.0	2872.9	5538.6	6773.9	8503.5	9354.8
04	-22.50	171.00	2720.0	2.000	9049.1	2872.9	5582.9	6828.1	8566.8	9424.5
04	-22.70	171.00	2720.0	2.000	9137.2	2872.9	5627.2	6882.3	8630.2	9494.1
04	-22.90	171.00	2720.0	2.000	9225.3	2872.9	5671.5	6936.4	8693.5	9563.8
04	-23.10	171.00	2720.0	2.000	9313.4	2872.9	5715.8	6990.6	8756.8	9633.4
04	-23.30	171.00	2720.0	2.000	9401.5	2872.9	5760.1	7044.8	8820.1	9703.1
04	-23.50	171.00	2720.0	2.000	9489.6	2872.9	5804.4	7099.0	8883.4	9772.7
04	-23.70	171.00	2720.0	2.000	9577.7	2872.9	5848.7	7153.2	8946.7	9842.4
04	-23.80	171.00	2720.0	2.000	9621.8	2872.9	5870.8	7180.3	8978.4	9877.2

Capacité du pieu pour chaque combinaison en fonction de la profondeur



Données

Titre du projet : Eco-Village d'entreprises à Carrère (pieu n°1)
Numéro d'affaire : 22-1222
Commentaires : Sondage SP6
Titre du calcul : Titre du calcul
Cadre réglementaire : EC 7 - Norme NF P94-262/A1 (juillet 2018)
Méthode de dimensionnement : A partir des résultats pressiométriques
Traitement des données : Traitement par couches
Pas du calcul (m) : 0,20
Section de calcul : Section de calcul circulaire
Diamètre de calcul (m) : 0,92
Classe du pieu : 2 - Pieu tarière creuse
Catégorie du pieu : 6 [FTC, FTCD] - Foré tarière creuse simple rotation, ou double rotation
Mode de chargement : Travail en compression

	ELS-QP	ELS-CARAC	ELU-FOND	ELU-ACC
Pondérations combinées sur Qs.k	0.636	0.778	0.909	1.000
Pondérations combinées sur Qp.k	0.455	0.556	0.909	1.000

Cote de référence (m) : 6,20

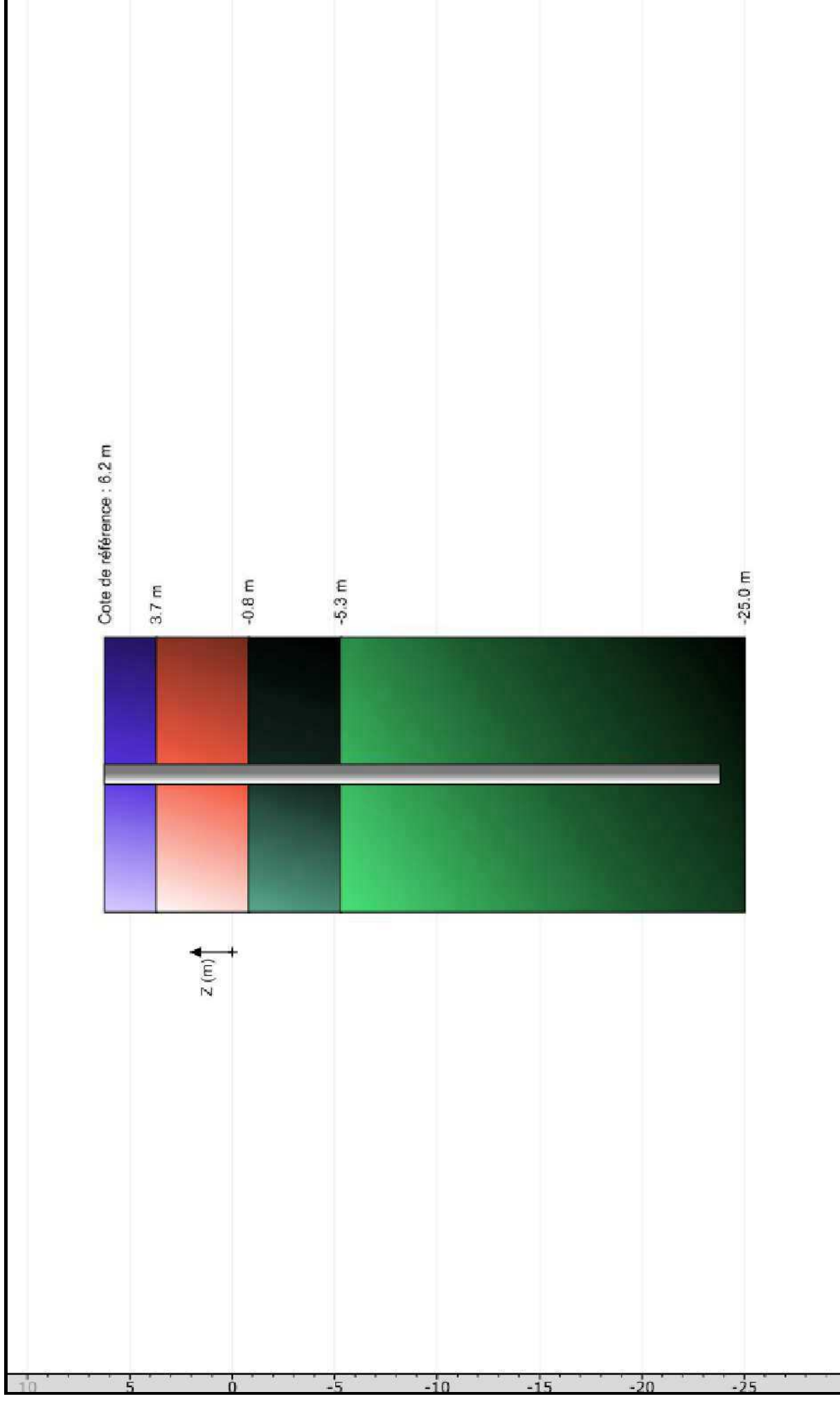
Définition des couches de sol

No	Nom	Couleur	Classe de sol	Zbase	pl*	qsl	kpmax	$\sqrt{R_s.d1 \times \gamma R_s.d2}$
1	Remblais		Argile, limons	3,70	460,00	0,00	1,30	1,265
2	Lave altérée argilisée raide		Argile, limons	-0,80	890,00	61,00	1,30	1,265
3	Lave altérée argilisée raide à très raide		Argile, limons	-5,30	1400,00	66,00	1,30	1,265
4	Lave altérée argilisée très raide		Roche altérée et fragmentée	-25,00	2720,00	171,00	2,00	1,265

Critère de calcul : Longueur imposée

Longueur du pieu (m) : 30,00

Onglet "Paramètres généraux"



File : C:\Users\morel\AppData\Local\Temp\Terrasol\FoXta v3\3812\temp[FP]-1.resu

Calcul réalisé le : 06/09/2022 à 12h57
par : MAGMA CARAIBES

Options du calcul :

- calcul basé sur des paramètres issus du pressiomètre de Ménard
- calcul selon les règles de la norme NF P 94 262
- profil de pression limite pl* défini par couche
- pour pieu de catégorie : 6
- pour pieu travaillant en compression

Combinaisons	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
Frottement	0.636	0.778	0.909	1.000
Pointe	0.455	0.556	0.909	1.000

Cote de référence : 6.200

Section du pieu : 0.665
Périmètre : 2.890

Caractéristiques des couches (données utilisateur)

couche	base	pl*	qsl	kpmin	kpmax	gamrd
01	3.70	460.0	0.00	1.00	1.30	1.26
02	-0.80	890.0	61.00	1.00	1.30	1.26
03	-5.30	1400.0	66.00	1.00	1.30	1.26
04	-25.00	2720.0	171.00	1.00	2.00	1.26

Pas du calcul : 0.20

 SOLUTION

Calcul à longueur imposée : L = 30.00

couche	cote	qsl	ple	kp	Qs	Qp	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
01	6.20	0.00	460.0	1.000	0.0	305.8	110.0	134.4	219.7	241.7
01	6.00	0.00	460.0	1.013	0.0	309.8	111.4	136.2	222.6	244.9
01	5.80	0.00	460.0	1.026	0.0	313.8	112.9	137.9	225.5	248.0
01	5.60	0.00	460.0	1.039	0.0	317.8	114.3	139.7	228.3	251.2
01	5.40	0.00	460.0	1.052	0.0	321.7	115.7	141.4	231.2	254.3
01	5.20	0.00	460.0	1.065	0.0	325.7	117.2	143.2	234.1	257.5
01	5.00	0.00	503.0	1.072	0.0	358.3	128.9	157.5	257.5	283.2
01	4.80	0.00	546.0	1.077	0.0	390.9	140.6	171.8	280.9	309.0
01	4.60	0.00	589.0	1.081	0.0	423.5	152.3	186.1	304.3	334.7
01	4.40	0.00	632.0	1.085	0.0	456.0	164.0	200.4	327.7	360.5
01	4.20	0.00	675.0	1.089	0.0	488.6	175.7	214.8	351.1	386.2
01	4.00	0.00	718.0	1.092	0.0	521.2	187.5	229.1	374.5	412.0
01	3.80	0.00	761.0	1.095	0.0	553.7	199.2	243.4	397.9	437.7
01	3.70	0.00	782.5	1.096	0.0	570.0	205.0	250.5	409.6	450.6
02	3.70	61.00	890.0	1.084	0.0	641.5	230.7	282.0	461.0	507.1
02	3.50	61.00	890.0	1.097	35.3	649.2	251.2	307.0	491.8	541.1
02	3.30	61.00	890.0	1.110	70.5	656.9	271.7	332.1	522.7	575.1
02	3.10	61.00	890.0	1.123	105.8	664.6	292.2	357.2	553.6	609.0
02	2.90	61.00	890.0	1.136	141.0	672.4	312.8	382.3	584.5	643.0
02	2.70	61.00	890.0	1.149	176.3	680.1	333.3	407.3	615.4	677.0
02	2.50	61.00	890.0	1.163	211.6	687.8	353.8	432.4	646.3	711.0



FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 12:58:02
 Calcul réalisé par : MAGMA CARAIBES
 Projet : SP6_compression
 Module : Fondprof (Pieu 1/1)

02	2.30	61.00	890.0	1.176	246.8	695.5	374.3	457.5	677.1	744.9
02	2.10	61.00	890.0	1.189	282.1	703.2	394.8	482.6	708.0	778.9
02	1.90	61.00	890.0	1.202	317.4	710.9	415.3	507.7	738.9	812.9
02	1.70	61.00	890.0	1.215	352.6	718.7	435.8	532.7	769.8	846.9
02	1.50	61.00	890.0	1.228	387.9	726.4	456.3	557.8	800.7	880.8
02	1.30	61.00	890.0	1.241	423.1	734.1	476.8	582.9	831.6	914.8
02	1.10	61.00	890.0	1.254	458.4	741.8	497.3	608.0	862.4	948.8
02	0.90	61.00	890.0	1.267	493.7	749.5	517.8	633.0	893.3	982.8
02	0.70	61.00	890.0	1.280	528.9	757.2	538.3	658.1	924.2	1016.7
02	0.50	61.00	941.0	1.277	564.2	798.9	571.0	698.1	979.5	1077.5
02	0.30	61.00	992.0	1.275	599.4	840.5	603.7	738.1	1034.7	1138.3
02	0.10	61.00	1043.0	1.272	634.7	882.1	636.4	778.1	1089.9	1199.1
02	-0.10	61.00	1094.0	1.270	670.0	923.7	669.1	818.0	1145.2	1259.8
02	-0.30	61.00	1145.0	1.268	705.2	965.3	701.8	858.0	1200.4	1320.6
02	-0.50	61.00	1196.0	1.267	740.5	1007.0	734.5	898.0	1255.7	1381.4
02	-0.70	61.00	1247.0	1.265	775.7	1048.6	767.2	938.0	1310.9	1442.2
02	-0.80	61.00	1272.5	1.264	793.4	1069.4	783.5	958.0	1338.5	1472.6
03	-0.80	66.00	1400.0	1.240	793.4	1154.2	814.0	995.2	1399.5	1539.6
03	-1.00	66.00	1400.0	1.253	831.5	1166.3	837.6	1024.0	1435.6	1579.3
03	-1.20	66.00	1400.0	1.266	869.7	1178.4	861.1	1052.8	1471.7	1619.1
03	-1.40	66.00	1400.0	1.279	907.8	1190.6	884.7	1081.6	1507.9	1658.8
03	-1.60	66.00	1400.0	1.292	946.0	1202.7	908.2	1110.4	1544.0	1698.6
03	-1.80	66.00	1400.0	1.300	984.1	1209.9	930.0	1137.0	1576.6	1734.4
03	-2.00	66.00	1400.0	1.300	1022.3	1209.9	949.1	1160.5	1604.0	1764.5
03	-2.20	66.00	1400.0	1.300	1060.4	1209.9	968.3	1184.0	1631.4	1794.7
03	-2.40	66.00	1400.0	1.300	1098.6	1209.9	987.5	1207.4	1658.8	1824.9
03	-2.60	66.00	1400.0	1.300	1136.7	1209.9	1006.7	1230.9	1686.2	1855.0
03	-2.80	66.00	1400.0	1.300	1174.9	1209.9	1025.9	1254.3	1713.6	1885.2
03	-3.00	66.00	1400.0	1.300	1213.0	1209.9	1045.0	1277.8	1741.0	1915.3
03	-3.20	66.00	1400.0	1.300	1251.2	1209.9	1064.2	1301.3	1768.5	1945.5
03	-3.40	66.00	1400.0	1.300	1289.3	1209.9	1083.4	1324.7	1795.9	1975.7
03	-3.60	66.00	1400.0	1.300	1327.5	1209.9	1102.6	1348.2	1823.3	2005.8
03	-3.80	66.00	1400.0	1.300	1365.7	1209.9	1121.8	1371.7	1850.7	2036.0
03	-4.00	66.00	1532.0	1.300	1403.8	1323.9	1182.0	1445.3	1960.1	2156.3
03	-4.20	66.00	1664.0	1.300	1442.0	1438.0	1242.2	1518.9	2069.5	2276.7
03	-4.40	66.00	1796.0	1.300	1480.1	1552.1	1302.4	1592.5	2178.9	2397.0
03	-4.60	66.00	1928.0	1.300	1518.3	1666.2	1362.6	1666.1	2288.2	2517.3
03	-4.80	66.00	2060.0	1.300	1556.4	1780.2	1422.8	1739.7	2397.6	2637.7
03	-5.00	66.00	2192.0	1.300	1594.6	1894.3	1483.0	1813.3	2507.0	2758.0
03	-5.20	66.00	2324.0	1.289	1632.7	1991.6	1537.2	1879.5	2604.3	2865.1
03	-5.30	66.00	2390.0	1.284	1651.8	2039.5	1564.0	1912.3	2652.5	2918.0
04	-5.30	171.00	2720.0	1.831	1651.8	3310.7	2021.3	2471.0	3565.9	3922.9
04	-5.50	171.00	2720.0	1.867	1750.6	3376.0	2094.4	2560.5	3683.9	4052.7
04	-5.70	171.00	2720.0	1.896	1849.5	3428.9	2163.2	2644.5	3792.9	4172.6
04	-5.90	171.00	2720.0	1.926	1948.3	3481.8	2231.9	2728.6	3901.9	4292.6
04	-6.10	171.00	2720.0	1.955	2047.2	3534.7	2300.6	2812.6	4011.0	4412.5
04	-6.30	171.00	2720.0	1.984	2146.0	3587.5	2369.3	2896.7	4120.0	4532.5
04	-6.50	171.00	2720.0	2.000	2244.9	3616.3	2429.4	2970.1	4211.7	4633.3
04	-6.70	171.00	2720.0	2.000	2343.7	3616.3	2479.1	3030.9	4282.7	4711.5
04	-6.90	171.00	2720.0	2.000	2442.6	3616.3	2528.8	3091.7	4353.8	4789.6
04	-7.10	171.00	2720.0	2.000	2541.4	3616.3	2578.5	3152.5	4424.8	4867.8
04	-7.30	171.00	2720.0	2.000	2640.3	3616.3	2628.2	3213.3	4495.8	4945.9
04	-7.50	171.00	2720.0	2.000	2739.1	3616.3	2677.9	3274.1	4566.8	5024.0
04	-7.70	171.00	2720.0	2.000	2838.0	3616.3	2727.6	3334.9	4637.9	5102.2
04	-7.90	171.00	2720.0	2.000	2936.8	3616.3	2777.2	3395.6	4708.9	5180.3
04	-8.10	171.00	2720.0	2.000	3035.6	3616.3	2826.9	3456.4	4779.9	5258.5
04	-8.30	171.00	2720.0	2.000	3134.5	3616.3	2876.6	3517.2	4851.0	5336.6
04	-8.50	171.00	2720.0	2.000	3233.3	3616.3	2926.3	3578.0	4922.0	5414.7
04	-8.70	171.00	2720.0	2.000	3332.2	3616.3	2976.0	3638.8	4993.0	5492.9
04	-8.90	171.00	2720.0	2.000	3431.0	3616.3	3025.7	3699.6	5064.1	5571.0
04	-9.10	171.00	2720.0	2.000	3529.9	3616.3	3075.4	3760.4	5135.1	5649.2
04	-9.30	171.00	2720.0	2.000	3628.7	3616.3	3125.1	3821.2	5206.1	5727.3
04	-9.50	171.00	2720.0	2.000	3727.6	3616.3	3174.8	3882.0	5277.1	5805.4
04	-9.70	171.00	2720.0	2.000	3826.4	3616.3	3224.5	3942.8	5348.2	5883.6
04	-9.90	171.00	2720.0	2.000	3925.3	3616.3	3274.2	4003.6	5419.2	5961.7
04	-10.10	171.00	2720.0	2.000	4024.1	3616.3	3323.9	4064.4	5490.2	6039.9
04	-10.30	171.00	2720.0	2.000	4123.0	3616.3	3373.6	4125.2	5561.3	6118.0
04	-10.50	171.00	2720.0	2.000	4221.8	3616.3	3423.3	4186.0	5632.3	6196.1
04	-10.70	171.00	2720.0	2.000	4320.7	3616.3	3473.0	4246.7	5703.3	6274.3
04	-10.90	171.00	2720.0	2.000	4419.5	3616.3	3522.7	4307.5	5774.3	6352.4
04	-11.10	171.00	2720.0	2.000	4518.4	3616.3	3572.4	4368.3	5845.4	6430.6
04	-11.30	171.00	2720.0	2.000	4617.2	3616.3	3622.1	4429.1	5916.4	6508.7
04	-11.50	171.00	2720.0	2.000	4716.0	3616.3	3671.8	4489.9	5987.4	6586.8
04	-11.70	171.00	2720.0	2.000	4814.9	3616.3	3721.5	4550.7	6058.5	6665.0
04	-11.90	171.00	2720.0	2.000	4913.7	3616.3	3771.2	4611.5	6129.5	6743.1
04	-12.10	171.00	2720.0	2.000	5012.6	3616.3	3820.9	4672.3	6200.5	6821.3
04	-12.30	171.00	2720.0	2.000	5111.4	3616.3	3870.6	4733.1	6271.5	6899.4
04	-12.50	171.00	2720.0	2.000	5210.3	3616.3	3920.3	4793.9	6342.6	6977.5
04	-12.70	171.00	2720.0	2.000	5309.1	3616.3	3970.0	4854.7	6413.6	7055.7
04	-12.90	171.00	2720.0	2.000	5408.0	3616.3	4019.7	4915.5	6484.6	7133.8
04	-13.10	171.00	2720.0	2.000	5506.8	3616.3	4069.4	4976.3	6555.7	7212.0
04	-13.30	171.00	2720.0	2.000	5605.7	3616.3	4119.1	5037.1	6626.7	7290.1
04	-13.50	171.00	2720.0	2.000	5704.5	3616.3	4168.8	5097.8	6697.7	7368.2
04	-13.70	171.00	2720.0	2.000	5803.4	3616.3	4218.5	5158.6	6768.8	7446.4
04	-13.90	171.00	2720.0	2.000	5902.2	3616.3	4268.2	5219.4	6839.8	7524.5
04	-14.10	171.00	2720.0	2.000	6001.1	3616.3	4317.9	5280.2	6910.8	7602.7

04	-14.30	171.00	2720.0	2.000	6099.9	3616.3	4367.6	5341.0	6981.8	7680.8
04	-14.50	171.00	2720.0	2.000	6198.8	3616.3	4417.3	5401.8	7052.9	7758.9
04	-14.70	171.00	2720.0	2.000	6297.6	3616.3	4466.9	5462.6	7123.9	7837.1
04	-14.90	171.00	2720.0	2.000	6396.4	3616.3	4516.6	5523.4	7194.9	7915.2
04	-15.10	171.00	2720.0	2.000	6495.3	3616.3	4566.3	5584.2	7266.0	7993.4
04	-15.30	171.00	2720.0	2.000	6594.1	3616.3	4616.0	5645.0	7337.0	8071.5
04	-15.50	171.00	2720.0	2.000	6693.0	3616.3	4665.7	5705.8	7408.0	8149.6
04	-15.70	171.00	2720.0	2.000	6791.8	3616.3	4715.4	5766.6	7479.0	8227.8
04	-15.90	171.00	2720.0	2.000	6890.7	3616.3	4765.1	5827.4	7550.1	8305.9
04	-16.10	171.00	2720.0	2.000	6989.5	3616.3	4814.8	5888.2	7621.1	8384.1
04	-16.30	171.00	2720.0	2.000	7088.4	3616.3	4864.5	5948.9	7692.1	8462.2
04	-16.50	171.00	2720.0	2.000	7187.2	3616.3	4914.2	6009.7	7763.2	8540.3
04	-16.70	171.00	2720.0	2.000	7286.1	3616.3	4963.9	6070.5	7834.2	8618.5
04	-16.90	171.00	2720.0	2.000	7384.9	3616.3	5013.6	6131.3	7905.2	8696.6
04	-17.10	171.00	2720.0	2.000	7483.8	3616.3	5063.3	6192.1	7976.3	8774.8
04	-17.30	171.00	2720.0	2.000	7582.6	3616.3	5113.0	6252.9	8047.3	8852.9
04	-17.50	171.00	2720.0	2.000	7681.5	3616.3	5162.7	6313.7	8118.3	8931.0
04	-17.70	171.00	2720.0	2.000	7780.3	3616.3	5212.4	6374.5	8189.3	9009.2
04	-17.90	171.00	2720.0	2.000	7879.2	3616.3	5262.1	6435.3	8260.4	9087.3
04	-18.10	171.00	2720.0	2.000	7978.0	3616.3	5311.8	6496.1	8331.4	9165.5
04	-18.30	171.00	2720.0	2.000	8076.8	3616.3	5361.5	6556.9	8402.4	9243.6
04	-18.50	171.00	2720.0	2.000	8175.7	3616.3	5411.2	6617.7	8473.5	9321.7
04	-18.70	171.00	2720.0	2.000	8274.5	3616.3	5460.9	6678.5	8544.5	9399.9
04	-18.90	171.00	2720.0	2.000	8373.4	3616.3	5510.6	6739.3	8615.5	9478.0
04	-19.10	171.00	2720.0	2.000	8472.2	3616.3	5560.3	6800.0	8686.5	9556.2
04	-19.30	171.00	2720.0	2.000	8571.1	3616.3	5610.0	6860.8	8757.6	9634.3
04	-19.50	171.00	2720.0	2.000	8669.9	3616.3	5659.7	6921.6	8828.6	9712.4
04	-19.70	171.00	2720.0	2.000	8768.8	3616.3	5709.4	6982.4	8899.6	9790.6
04	-19.90	171.00	2720.0	2.000	8867.6	3616.3	5759.1	7043.2	8970.7	9868.7
04	-20.10	171.00	2720.0	2.000	8966.5	3616.3	5808.8	7104.0	9041.7	9946.9
04	-20.30	171.00	2720.0	2.000	9065.3	3616.3	5858.5	7164.8	9112.7	10025.0
04	-20.50	171.00	2720.0	2.000	9164.2	3616.3	5908.2	7225.6	9183.7	10103.1
04	-20.70	171.00	2720.0	2.000	9263.0	3616.3	5957.9	7286.4	9254.8	10181.3
04	-20.90	171.00	2720.0	2.000	9361.9	3616.3	6007.6	7347.2	9325.8	10259.4
04	-21.10	171.00	2720.0	2.000	9460.7	3616.3	6057.3	7408.0	9396.8	10337.6
04	-21.30	171.00	2720.0	2.000	9559.6	3616.3	6107.0	7468.8	9467.9	10415.7
04	-21.50	171.00	2720.0	2.000	9658.4	3616.3	6156.6	7529.6	9538.9	10493.8
04	-21.70	171.00	2720.0	2.000	9757.2	3616.3	6206.3	7590.4	9609.9	10572.0
04	-21.90	171.00	2720.0	2.000	9856.1	3616.3	6256.0	7651.1	9681.0	10650.1
04	-22.10	171.00	2720.0	2.000	9954.9	3616.3	6305.7	7711.9	9752.0	10728.3
04	-22.30	171.00	2720.0	2.000	10053.8	3616.3	6355.4	7772.7	9823.0	10806.4
04	-22.50	171.00	2720.0	2.000	10152.6	3616.3	6405.1	7833.5	9894.0	10884.5
04	-22.70	171.00	2720.0	2.000	10251.5	3616.3	6454.8	7894.3	9965.1	10962.7
04	-22.90	171.00	2720.0	2.000	10350.3	3616.3	6504.5	7955.1	10036.1	11040.8
04	-23.10	171.00	2720.0	2.000	10449.2	3616.3	6554.2	8015.9	10107.1	11119.0
04	-23.30	171.00	2720.0	2.000	10548.0	3616.3	6603.9	8076.7	10178.2	11197.1
04	-23.50	171.00	2720.0	2.000	10646.9	3616.3	6653.6	8137.5	10249.2	11275.2
04	-23.70	171.00	2720.0	2.000	10745.7	3616.3	6703.3	8198.3	10320.2	11353.4
04	-23.80	171.00	2720.0	2.000	10795.1	3616.3	6728.2	8228.7	10355.7	11392.4

Capacité du pieu pour chaque combinaison en fonction de la profondeur



ANNEXE 26

RESULTATS DES CALCULS FOXTA

PIEUX FORES A LA TARIERE CREUSE

SONDAGE SP1 - ANTEA

- Pieux Φ 620 en compression
- Pieux Φ 720 en compression
- Pieux Φ 820 en compression
- Pieux Φ 920 en compression

Données

Titre du projet : Eco-Village d'entreprises à Carrère (pieu n°1)
Numéro d'affaire : 22-1222
Commentaires : Sondage SP1 ANTEA
Titre du calcul : Titre du calcul
Cadre réglementaire : EC 7 - Norme NF P94-262/A1 (juillet 2018)
Méthode de dimensionnement : A partir des résultats pressiométriques
Traitement des données : Traitement par couches
Pas du calcul (m) : 0,20
Section de calcul : Section de calcul circulaire
Diamètre de calcul (m) : 0,62
Classe du pieu : 2 - Pieu tarière creuse
Catégorie du pieu : 6 [FTC, FTCD] - Foré tarière creuse simple rotation, ou double rotation
Mode de chargement : Travail en compression

	ELS-QP	ELS-CARAC	ELU-FOND	ELU-ACC
Pondérations combinées sur Qs.k	0,636	0,778	0,909	1,000
Pondérations combinées sur Qp.k	0,455	0,556	0,909	1,000

Cote de référence (m) : 6,60

Définition des couches de sol

No	Nom	Couleur	Classe de sol	Zbase	pl*	qsl	kpmax	γR,d1×γR,d2
1	Remblais		Argile, limons	5,10	460,00	0,00	1,30	1,265
2	Alluvions		Argile, limons	1,70	290,00	0,00	1,30	1,265
3	Argile d'altération		Argile, limons	0,70	600,00	55,00	1,30	1,265
4	Lave altérée argilisée raide		Argile, limons	-1,30	890,00	61,00	1,30	1,265
5	Lave altérée argilisée raide à très raide		Argile, limons	-9,80	1400,00	66,00	1,30	1,265
6	Lave altérée argilisée très raide		Roche altérée et fragmentée	-14,30	2720,00	171,00	2,00	1,265
7	Lave altérée +/- argilisée très raide		Roche altérée et fragmentée	-17,30	4330,00	197,00	2,00	1,265
8	Lave +/- altérée aspect rocheux		Roche altérée et fragmentée	-25,00	5000,00	200,00	2,00	1,265

Critère de calcul : Longueur imposée

Longueur du pieu (m) : 28,00

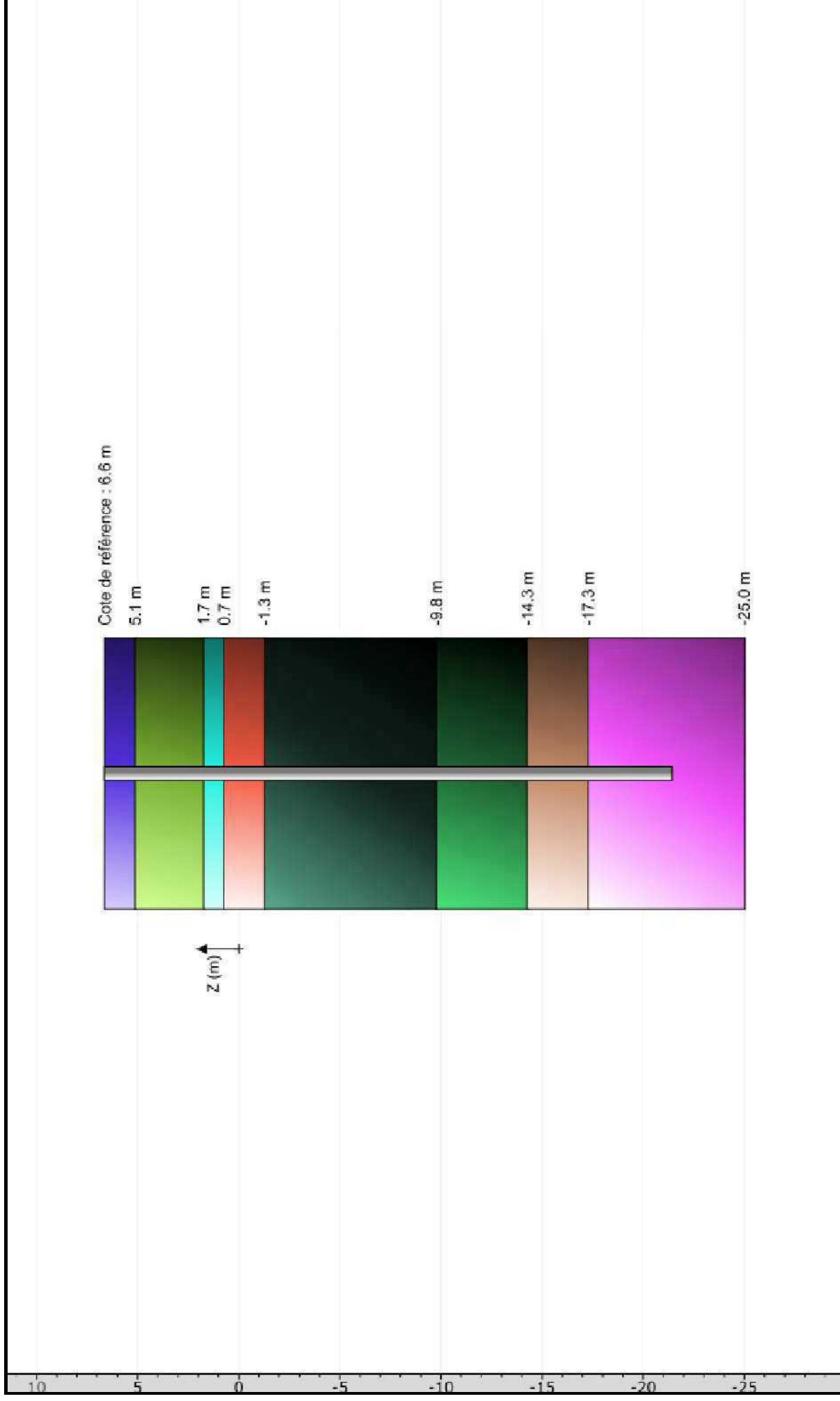


FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 13:06:45
Calcul réalisé par : MAGMA CARAIBES

Projet : SP1 ANTEA_compression
Module : Fondprof (Pieu 1/1)

Onglet "Paramètres généraux"



File : C:\Users\morel\AppData\Local\Temp\Terrasol\FoXta v3\3812\temp[FP]-1.resu

Calcul réalisé le : 06/09/2022 à 13h06
par : MAGMA CARAIBES

Options du calcul :

- calcul basé sur des paramètres issus du pressiomètre de Ménard
- calcul selon les règles de la norme NF P 94 262
- profil de pression limite pl* défini par couche
- pour pieu de catégorie : 6
- pour pieu travaillant en compression

Combinaisons	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
Frottement	0.636	0.778	0.909	1.000
Pointe	0.455	0.556	0.909	1.000

Cote de référence : 6.600

Section du pieu : 0.302

Périmètre : 1.948

Caractéristiques des couches (données utilisateur)

couche	base	pl*	qsl	kpmin	kpmax	gamrd
01	5.10	460.0	0.00	1.00	1.30	1.26
02	1.70	290.0	0.00	1.00	1.30	1.26
03	0.70	600.0	55.00	1.00	1.30	1.26
04	-1.30	890.0	61.00	1.00	1.30	1.26
05	-9.80	1400.0	66.00	1.00	1.30	1.26
06	-14.30	2720.0	171.00	1.00	2.00	1.26
07	-17.30	4330.0	197.00	1.00	2.00	1.26
08	-25.00	5000.0	200.00	1.00	2.00	1.26

Pas du calcul : 0.20

 SOLUTION

Calcul à longueur imposée : L = 28.00

couche	cote	qsl	ple	kp	Qs	Qp	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
01	6.60	0.00	460.0	1.000	0.0	138.9	50.0	61.0	99.8	109.8
01	6.40	0.00	440.0	1.020	0.0	135.5	48.7	59.6	97.4	107.1
01	6.20	0.00	424.2	1.042	0.0	133.4	48.0	58.7	95.9	105.5
01	6.00	0.00	409.0	1.065	0.0	131.5	47.3	57.8	94.5	104.0
01	5.80	0.00	392.0	1.091	0.0	129.1	46.4	56.7	92.8	102.1
01	5.60	0.00	375.0	1.119	0.0	126.7	45.6	55.7	91.0	100.1
01	5.40	0.00	358.0	1.149	0.0	124.2	44.7	54.6	89.3	98.2
01	5.20	0.00	341.0	1.183	0.0	121.8	43.8	53.5	87.5	96.3
01	5.10	0.00	332.5	1.201	0.0	120.5	43.4	53.0	86.6	95.3
02	5.10	0.00	290.0	1.230	0.0	107.7	38.7	47.3	77.4	85.1
02	4.90	0.00	290.0	1.250	0.0	109.4	39.4	48.1	78.6	86.5
02	4.70	0.00	290.0	1.269	0.0	111.1	40.0	48.8	79.8	87.8
02	4.50	0.00	290.0	1.288	0.0	112.8	40.6	49.6	81.1	89.2
02	4.30	0.00	290.0	1.300	0.0	113.8	40.9	50.0	81.8	90.0
02	4.10	0.00	290.0	1.300	0.0	113.8	40.9	50.0	81.8	90.0
02	3.90	0.00	290.0	1.300	0.0	113.8	40.9	50.0	81.8	90.0
02	3.70	0.00	290.0	1.300	0.0	113.8	40.9	50.0	81.8	90.0

02	3.50	0.00	290.0	1.300	0.0	113.8	40.9	50.0	81.8	90.0
02	3.30	0.00	290.0	1.300	0.0	113.8	40.9	50.0	81.8	90.0
02	3.10	0.00	305.5	1.300	0.0	119.9	43.1	52.7	86.2	94.8
02	2.90	0.00	336.5	1.300	0.0	132.1	47.5	58.0	94.9	104.4
02	2.70	0.00	367.5	1.300	0.0	144.2	51.9	63.4	103.6	114.0
02	2.50	0.00	398.5	1.300	0.0	156.4	56.3	68.7	112.4	123.6
02	2.30	0.00	429.5	1.300	0.0	168.6	60.6	74.1	121.1	133.3
02	2.10	0.00	475.0	1.300	0.0	186.4	67.1	81.9	134.0	147.4
02	1.90	0.00	535.0	1.293	0.0	208.8	75.1	91.8	150.0	165.1
02	1.70	0.00	595.0	1.273	0.0	228.6	82.2	100.5	164.3	180.7
03	1.70	55.00	696.7	1.233	0.0	259.3	93.3	114.0	186.3	205.0
03	1.50	55.00	719.4	1.242	21.4	269.7	107.8	131.7	209.2	230.1
03	1.30	55.00	737.4	1.251	42.9	278.6	121.8	148.8	231.0	254.1
03	1.10	55.00	759.5	1.259	64.3	288.8	136.2	166.5	253.7	279.1
03	0.90	55.00	788.5	1.265	85.7	301.0	151.4	185.0	277.9	305.7
03	0.70	55.00	817.5	1.269	107.1	313.3	166.6	203.6	302.1	332.4
03	0.70	55.00	817.5	1.269	107.1	313.3	166.6	203.6	302.1	332.4
04	0.70	61.00	890.0	1.247	107.1	335.2	174.4	213.2	317.8	349.7
04	0.50	61.00	890.0	1.267	130.9	340.4	188.2	230.1	338.7	372.6
04	0.30	61.00	890.0	1.281	154.7	344.3	201.6	246.4	358.5	394.4
04	0.10	61.00	915.5	1.282	178.4	354.5	217.2	265.5	382.9	421.2
04	-0.10	61.00	966.5	1.276	202.2	372.4	235.6	288.0	412.9	454.2
04	-0.30	61.00	1017.5	1.270	225.9	390.3	254.0	310.5	442.8	487.1
04	-0.50	61.00	1068.5	1.265	249.7	408.2	272.4	333.0	472.8	520.1
04	-0.70	61.00	1119.5	1.261	273.5	426.1	290.8	355.5	502.7	553.0
04	-0.90	61.00	1170.5	1.256	297.2	444.0	309.1	378.0	532.6	586.0
04	-1.10	61.00	1221.5	1.253	321.0	461.9	327.5	400.4	562.6	618.9
04	-1.30	61.00	1272.5	1.252	344.8	480.8	346.3	423.4	593.2	652.6
04	-1.30	61.00	1272.5	1.252	344.8	480.8	346.3	423.4	593.2	652.6
05	-1.30	66.00	1400.0	1.229	344.8	519.3	360.1	440.3	620.9	683.1
05	-1.50	66.00	1400.0	1.244	370.5	525.8	375.4	459.0	644.0	708.5
05	-1.70	66.00	1400.0	1.259	396.2	532.3	390.6	477.6	667.2	734.0
05	-1.90	66.00	1400.0	1.275	421.9	538.8	405.9	496.3	690.3	759.4
05	-2.10	66.00	1400.0	1.290	447.6	545.3	421.2	514.9	713.5	784.9
05	-2.30	66.00	1400.0	1.300	473.3	549.5	435.6	532.6	734.9	808.5
05	-2.50	66.00	1400.0	1.300	499.0	549.5	448.5	548.4	753.4	828.8
05	-2.70	66.00	1400.0	1.300	524.7	549.5	461.5	564.2	771.9	849.2
05	-2.90	66.00	1400.0	1.300	550.4	549.5	474.4	580.0	790.4	869.5
05	-3.10	66.00	1400.0	1.300	576.2	549.5	487.3	595.9	808.8	889.8
05	-3.30	66.00	1400.0	1.300	601.9	549.5	500.2	611.7	827.3	910.1
05	-3.50	66.00	1400.0	1.300	627.6	549.5	513.2	627.5	845.8	930.5
05	-3.70	66.00	1400.0	1.300	653.3	549.5	526.1	643.3	864.3	950.8
05	-3.90	66.00	1400.0	1.300	679.0	549.5	539.0	659.1	882.8	971.1
05	-4.10	66.00	1400.0	1.300	704.7	549.5	551.9	674.9	901.2	991.4
05	-4.30	66.00	1400.0	1.300	730.4	549.5	564.9	690.7	919.7	1011.8
05	-4.50	66.00	1400.0	1.300	756.1	549.5	577.8	706.5	938.2	1032.1
05	-4.70	66.00	1400.0	1.300	781.8	549.5	590.7	722.4	956.7	1052.4
05	-4.90	66.00	1400.0	1.300	807.6	549.5	603.6	738.2	975.1	1072.7
05	-5.10	66.00	1400.0	1.300	833.3	549.5	616.6	754.0	993.6	1093.1
05	-5.30	66.00	1400.0	1.300	859.0	549.5	629.5	769.8	1012.1	1113.4
05	-5.50	66.00	1400.0	1.300	884.7	549.5	642.4	785.6	1030.6	1133.7
05	-5.70	66.00	1400.0	1.300	910.4	549.5	655.4	801.4	1049.0	1154.0
05	-5.90	66.00	1400.0	1.300	936.1	549.5	668.3	817.2	1067.5	1174.4
05	-6.10	66.00	1400.0	1.300	961.8	549.5	681.2	833.0	1086.0	1194.7
05	-6.30	66.00	1400.0	1.300	987.5	549.5	694.1	848.9	1104.5	1215.0
05	-6.50	66.00	1400.0	1.300	1013.2	549.5	707.1	864.7	1122.9	1235.3
05	-6.70	66.00	1400.0	1.300	1038.9	549.5	720.0	880.5	1141.4	1255.7
05	-6.90	66.00	1400.0	1.300	1064.7	549.5	732.9	896.3	1159.9	1276.0
05	-7.10	66.00	1400.0	1.300	1090.4	549.5	745.8	912.1	1178.4	1296.3
05	-7.30	66.00	1400.0	1.300	1116.1	549.5	758.8	927.9	1196.8	1316.6
05	-7.50	66.00	1400.0	1.300	1141.8	549.5	771.7	943.7	1215.3	1337.0
05	-7.70	66.00	1400.0	1.300	1167.5	549.5	784.6	959.5	1233.8	1357.3
05	-7.90	66.00	1400.0	1.300	1193.2	549.5	797.5	975.4	1252.3	1377.6
05	-8.10	66.00	1400.0	1.300	1218.9	549.5	810.5	991.2	1270.7	1397.9
05	-8.30	66.00	1400.0	1.300	1244.6	549.5	823.4	1007.0	1289.2	1418.3
05	-8.50	66.00	1532.0	1.300	1270.3	601.3	855.0	1045.6	1344.9	1479.5
05	-8.70	66.00	1664.0	1.300	1296.1	653.1	886.5	1084.1	1400.6	1540.8
05	-8.90	66.00	1796.0	1.300	1321.8	704.9	918.1	1122.7	1456.3	1602.1
05	-9.10	66.00	1928.0	1.300	1347.5	756.7	949.6	1161.3	1512.0	1663.4
05	-9.30	66.00	2060.0	1.300	1373.2	808.5	981.2	1199.9	1567.7	1724.7
05	-9.50	66.00	2192.0	1.300	1398.9	860.3	1012.8	1238.5	1623.4	1785.9
05	-9.70	66.00	2324.0	1.300	1424.6	912.1	1044.3	1277.1	1679.1	1847.2
05	-9.80	66.00	2390.0	1.300	1437.5	938.0	1060.1	1296.4	1707.0	1877.9
06	-9.80	171.00	2720.0	2.000	1437.5	1642.4	1313.4	1605.9	2213.1	2434.7
06	-10.00	171.00	2720.0	2.000	1504.1	1642.4	1346.9	1646.9	2261.0	2487.3
06	-10.20	171.00	2720.0	2.000	1570.7	1642.4	1380.4	1687.9	2308.8	2540.0
06	-10.40	171.00	2720.0	2.000	1637.3	1642.4	1413.9	1728.8	2356.7	2592.6
06	-10.60	171.00	2720.0	2.000	1703.9	1642.4	1447.4	1769.8	2404.6	2645.3
06	-10.80	171.00	2720.0	2.000	1770.5	1642.4	1480.9	1810.8	2452.4	2698.0
06	-11.00	171.00	2720.0	2.000	1837.2	1642.4	1514.4	1851.8	2500.3	2750.6
06	-11.20	171.00	2720.0	2.000	1903.8	1642.4	1547.9	1892.7	2548.2	2803.3
06	-11.40	171.00	2720.0	2.000	1970.4	1642.4	1581.4	1933.7	2596.0	2855.9
06	-11.60	171.00	2720.0	2.000	2037.0	1642.4	1614.9	1974.7	2643.9	2908.6
06	-11.80	171.00	2720.0	2.000	2103.6	1642.4	1648.4	2015.6	2691.8	2961.3
06	-12.00	171.00	2720.0	2.000	2170.2	1642.4	1681.9	2056.6	2739.6	3013.9
06	-12.20	171.00	2720.0	2.000	2236.8	1642.4	1715.3	2097.6	2787.5	3066.6

06	-12.40	171.00	2720.0	2.000	2303.5	1642.4	1748.8	2138.5	2835.4	3119.2
06	-12.60	171.00	2720.0	2.000	2370.1	1642.4	1782.3	2179.5	2883.2	3171.9
06	-12.80	171.00	2720.0	2.000	2436.7	1642.4	1815.8	2220.5	2931.1	3224.6
06	-13.00	171.00	2881.0	2.000	2503.3	1739.6	1884.3	2304.2	3048.8	3354.1
06	-13.20	171.00	3042.0	2.000	2569.9	1836.8	1952.7	2387.9	3166.6	3483.6
06	-13.40	171.00	3203.0	2.000	2636.5	1934.0	2021.2	2471.6	3284.3	3613.1
06	-13.60	171.00	3364.0	2.000	2703.1	2031.2	2089.6	2555.3	3402.0	3742.6
06	-13.80	171.00	3525.0	2.000	2769.8	2128.4	2158.1	2639.0	3519.7	3872.1
06	-14.00	171.00	3686.0	2.000	2836.4	2225.7	2226.6	2722.7	3637.5	4001.6
06	-14.20	171.00	3847.0	2.000	2903.0	2322.9	2295.0	2806.4	3755.2	4131.1
06	-14.30	171.00	3927.5	2.000	2936.3	2371.5	2329.3	2848.2	3814.0	4195.9
07	-14.30	197.00	4330.0	2.000	2936.3	2614.5	2416.7	2955.0	3988.7	4388.0
07	-14.50	197.00	4330.0	2.000	3013.0	2614.5	2455.3	3002.2	4043.8	4448.7
07	-14.70	197.00	4330.0	2.000	3089.8	2614.5	2493.8	3049.4	4099.0	4509.3
07	-14.90	197.00	4330.0	2.000	3166.5	2614.5	2532.4	3096.6	4154.1	4570.0
07	-15.10	197.00	4330.0	2.000	3243.3	2614.5	2571.0	3143.8	4209.3	4630.7
07	-15.30	197.00	4330.0	2.000	3320.0	2614.5	2609.6	3191.0	4264.4	4691.3
07	-15.50	197.00	4330.0	2.000	3396.7	2614.5	2648.2	3238.2	4319.6	4752.0
07	-15.70	197.00	4330.0	2.000	3473.5	2614.5	2686.8	3285.4	4374.7	4812.7
07	-15.90	197.00	4363.5	2.000	3550.2	2634.7	2732.6	3341.5	4444.4	4889.3
07	-16.10	197.00	4430.5	2.000	3627.0	2675.2	2785.7	3406.5	4528.6	4982.0
07	-16.30	197.00	4497.5	2.000	3703.7	2715.7	2838.9	3471.5	4612.8	5074.6
07	-16.50	197.00	4564.5	2.000	3780.5	2756.1	2892.0	3536.4	4697.0	5167.2
07	-16.70	197.00	4631.5	2.000	3857.2	2796.6	2945.2	3601.4	4781.2	5259.9
07	-16.90	197.00	4698.5	2.000	3933.9	2837.0	2998.3	3666.4	4865.5	5352.5
07	-17.10	197.00	4765.5	2.000	4010.7	2877.5	3051.4	3731.4	4949.7	5445.2
07	-17.30	197.00	4832.5	2.000	4087.4	2917.9	3104.6	3796.4	5033.9	5537.8
07	-17.30	197.00	4832.5	2.000	4087.4	2917.9	3104.6	3796.4	5033.9	5537.8
08	-17.30	200.00	5000.0	2.000	4087.4	3019.1	3140.9	3840.8	5106.6	5617.8
08	-17.50	200.00	5000.0	2.000	4165.3	3019.1	3180.1	3888.7	5162.6	5679.4
08	-17.70	200.00	5000.0	2.000	4243.3	3019.1	3219.3	3936.6	5218.5	5741.0
08	-17.90	200.00	5000.0	2.000	4321.2	3019.1	3258.4	3984.6	5274.5	5802.6
08	-18.10	200.00	5000.0	2.000	4399.1	3019.1	3297.6	4032.5	5330.5	5864.1
08	-18.30	200.00	5000.0	2.000	4477.0	3019.1	3336.8	4080.4	5386.5	5925.7
08	-18.50	200.00	5000.0	2.000	4554.9	3019.1	3376.0	4128.3	5442.5	5987.3
08	-18.70	200.00	5000.0	2.000	4632.8	3019.1	3415.1	4176.2	5498.5	6048.9
08	-18.90	200.00	5000.0	2.000	4710.7	3019.1	3454.3	4224.1	5554.5	6110.5
08	-19.10	200.00	5000.0	2.000	4788.6	3019.1	3493.5	4272.1	5610.4	6172.1
08	-19.30	200.00	5000.0	2.000	4866.5	3019.1	3532.6	4320.0	5666.4	6233.7
08	-19.50	200.00	5000.0	2.000	4944.5	3019.1	3571.8	4367.9	5722.4	6295.3
08	-19.70	200.00	5000.0	2.000	5022.4	3019.1	3611.0	4415.8	5778.4	6356.9
08	-19.90	200.00	5000.0	2.000	5100.3	3019.1	3650.2	4463.7	5834.4	6418.5
08	-20.10	200.00	5000.0	2.000	5178.2	3019.1	3689.3	4511.7	5890.4	6480.1
08	-20.30	200.00	5000.0	2.000	5256.1	3019.1	3728.5	4559.6	5946.4	6541.6
08	-20.50	200.00	5000.0	2.000	5334.0	3019.1	3767.7	4607.5	6002.3	6603.2
08	-20.70	200.00	5000.0	2.000	5411.9	3019.1	3806.8	4655.4	6058.3	6664.8
08	-20.90	200.00	5000.0	2.000	5489.8	3019.1	3846.0	4703.3	6114.3	6726.4
08	-21.10	200.00	5000.0	2.000	5567.8	3019.1	3885.2	4751.2	6170.3	6788.0
08	-21.30	200.00	5000.0	2.000	5645.7	3019.1	3924.4	4799.2	6226.3	6849.6
08	-21.40	200.00	5000.0	2.000	5684.6	3019.1	3943.9	4823.1	6254.3	6880.4

Capacité du pieu pour chaque combinaison en fonction de la profondeur



Données

Titre du projet : Eco-Village d'entreprises à Carrère (pieu n°1)
Numéro d'affaire : 22-1222
Commentaires : Sondage SP1 ANTEA
Titre du calcul : Titre du calcul
Cadre réglementaire : EC 7 - Norme NF P94-262/A1 (juillet 2018)
Méthode de dimensionnement : A partir des résultats pressiométriques
Traitement des données : Traitement par couches
Pas du calcul (m) : 0,20
Section de calcul : Section de calcul circulaire
Diamètre de calcul (m) : 0,72
Classe du pieu : 2 - Pieu tarière creuse
Catégorie du pieu : 6 [FTC, FTCD] - Foré tarière creuse simple rotation, ou double rotation
Mode de chargement : Travail en compression

Combinaisons

	ELS-QP	ELS-CARAC	ELU-FOND	ELU-ACC
Pondérations combinées sur Qs.k	0.636	0.778	0.909	1,000
Pondérations combinées sur Qp.k	0.455	0.556	0.909	1,000

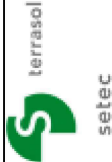
Cote de référence (m) : 6,60

Définition des couches de sol

No	Nom	Couleur	Classe de sol	Zbase	pl*	qsl	kpmax	γR,d1×γR,d2
1	Remblais		Argile, limons	5,10	460,00	0,00	1,30	1,265
2	Alluvions		Argile, limons	1,70	290,00	0,00	1,30	1,265
3	Argile d'altération		Argile, limons	0,70	600,00	55,00	1,30	1,265
4	Lave altérée argilisée raide		Argile, limons	-1,30	890,00	61,00	1,30	1,265
5	Lave altérée argilisée raide à très raide		Argile, limons	-9,80	1400,00	66,00	1,30	1,265
6	Lave altérée argilisée très raide		Roche altérée et fragmentée	-14,30	2720,00	171,00	2,00	1,265
7	Lave altérée +/- argilisée très raide		Roche altérée et fragmentée	-17,30	4330,00	197,00	2,00	1,265
8	Lave +/- altérée aspect rocheux		Roche altérée et fragmentée	-25,00	5000,00	200,00	2,00	1,265

Critère de calcul : Longueur imposée

Longueur du pieu (m) : 28,00

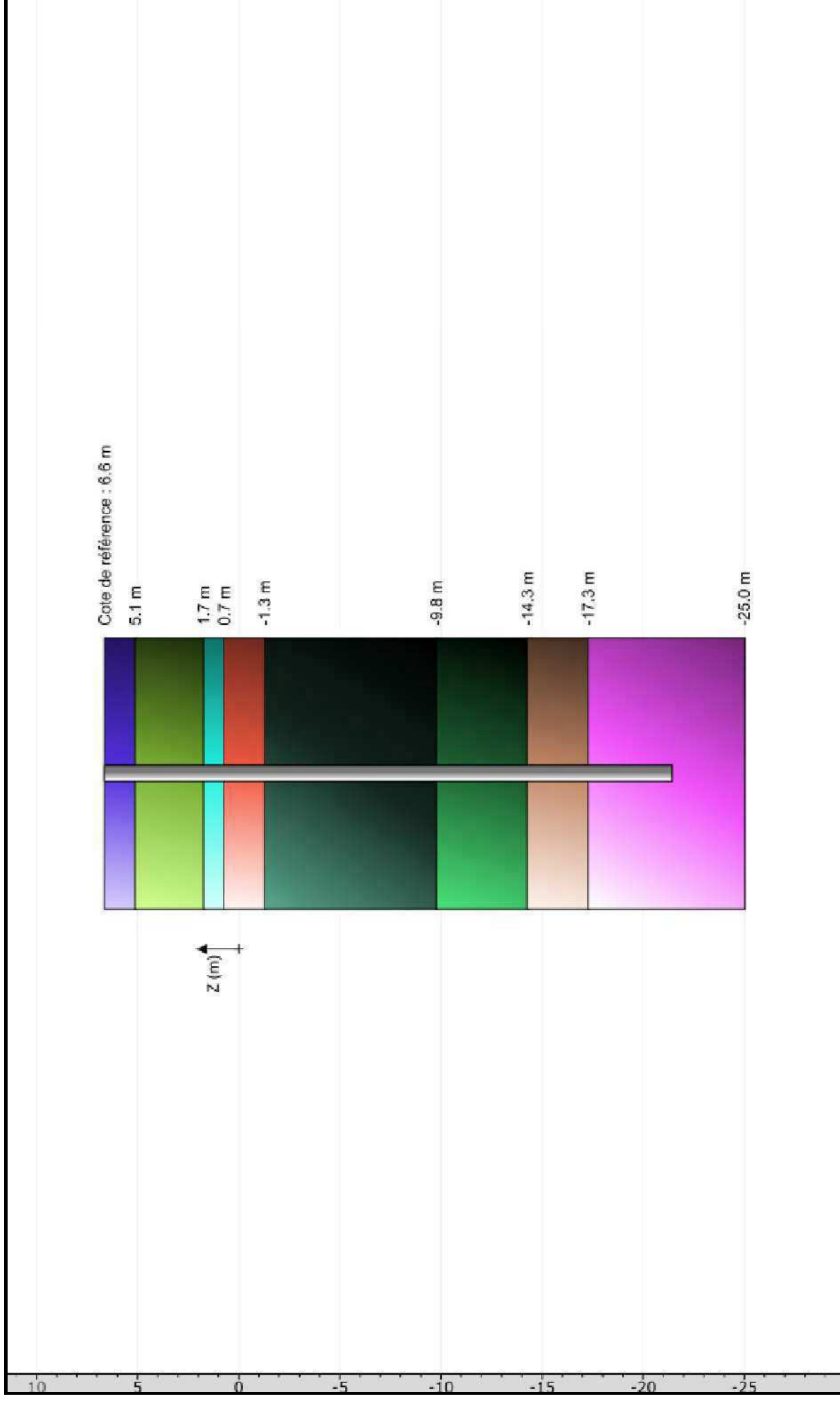


FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 13:07:11
Calcul réalisé par : MAGMA CARAIBES

Projet : SP1 ANTEA_compression
Module : Fondprof (Pieu 1/1)

Onglet "Paramètres généraux"



File : C:\Users\morel\AppData\Local\Temp\Terrasol\FoXta v3\3812\temp[FP]-1.resu

Calcul réalisé le : 06/09/2022 à 13h06
par : MAGMA CARAIBES

Options du calcul :

- calcul basé sur des paramètres issus du pressiomètre de Ménard
- calcul selon les règles de la norme NF P 94 262
- profil de pression limite pl* défini par couche
- pour pieu de catégorie : 6
- pour pieu travaillant en compression

Combinaisons	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
Frottement	0.636	0.778	0.909	1.000
Pointe	0.455	0.556	0.909	1.000

Cote de référence : 6.600

Section du pieu : 0.407
Périmètre : 2.262

Caractéristiques des couches (données utilisateur)

couche	base	pl*	qsl	kpmin	kpmax	gamrd
01	5.10	460.0	0.00	1.00	1.30	1.26
02	1.70	290.0	0.00	1.00	1.30	1.26
03	0.70	600.0	55.00	1.00	1.30	1.26
04	-1.30	890.0	61.00	1.00	1.30	1.26
05	-9.80	1400.0	66.00	1.00	1.30	1.26
06	-14.30	2720.0	171.00	1.00	2.00	1.26
07	-17.30	4330.0	197.00	1.00	2.00	1.26
08	-25.00	5000.0	200.00	1.00	2.00	1.26

Pas du calcul : 0.20

 SOLUTION

Calcul à longueur imposée : L = 28.00

couche	cote	qsl	ple	kp	Qs	Qp	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
01	6.60	0.00	460.0	1.000	0.0	187.3	67.4	82.3	134.6	148.1
01	6.40	0.00	440.0	1.017	0.0	182.3	65.6	80.1	131.0	144.1
01	6.20	0.00	424.2	1.036	0.0	179.0	64.4	78.7	128.6	141.5
01	6.00	0.00	409.0	1.056	0.0	175.9	63.3	77.3	126.4	139.0
01	5.80	0.00	392.0	1.078	0.0	172.1	61.9	75.6	123.7	136.0
01	5.60	0.00	375.0	1.102	0.0	168.3	60.5	74.0	120.9	133.0
01	5.40	0.00	358.0	1.128	0.0	164.5	59.2	72.3	118.2	130.0
01	5.20	0.00	341.0	1.157	0.0	160.7	57.8	70.6	115.5	127.0
01	5.10	0.00	332.5	1.173	0.0	158.8	57.1	69.8	114.1	125.5
02	5.10	0.00	290.0	1.198	0.0	141.5	50.9	62.2	101.7	111.8
02	4.90	0.00	290.0	1.215	0.0	143.5	51.6	63.1	103.1	113.4
02	4.70	0.00	290.0	1.232	0.0	145.4	52.3	63.9	104.5	115.0
02	4.50	0.00	290.0	1.248	0.0	147.4	53.0	64.8	105.9	116.5
02	4.30	0.00	290.0	1.265	0.0	149.4	53.7	65.6	107.3	118.1
02	4.10	0.00	290.0	1.282	0.0	151.3	54.4	66.5	108.7	119.6
02	3.90	0.00	290.0	1.298	0.0	153.3	55.1	67.4	110.2	121.2
02	3.70	0.00	290.0	1.300	0.0	153.5	55.2	67.5	110.3	121.3



FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 13:07:12
 Calcul réalisé par : MAGMA CARAIBES
 Projet : SP1 ANTEA_compression
 Module : Fondprof (Pieu 1/1)

02	3.50	0.00	290.0	1.300	0.0	153.5	55.2	67.5	110.3	121.3
02	3.30	0.00	290.0	1.300	0.0	153.5	55.2	67.5	110.3	121.3
02	3.10	0.00	305.5	1.300	0.0	161.7	58.2	71.1	116.2	127.8
02	2.90	0.00	336.5	1.300	0.0	178.1	64.1	78.3	128.0	140.8
02	2.70	0.00	367.5	1.300	0.0	194.5	70.0	85.5	139.8	153.8
02	2.50	0.00	398.5	1.300	0.0	210.9	75.9	92.7	151.6	166.7
02	2.30	0.00	429.5	1.291	0.0	225.8	81.2	99.3	162.3	178.5
02	2.10	0.00	475.0	1.274	0.0	246.3	88.6	108.3	177.0	194.7
02	1.90	0.00	535.0	1.252	0.0	272.7	98.1	119.9	196.0	215.6
02	1.70	0.00	595.0	1.235	0.0	299.1	107.6	131.5	214.9	236.5
03	1.70	55.00	696.7	1.200	0.0	340.5	122.5	149.7	244.7	269.2
03	1.50	55.00	719.4	1.208	24.9	353.8	139.8	170.8	272.1	299.4
03	1.30	55.00	737.4	1.217	49.8	365.2	156.4	191.1	298.2	328.1
03	1.10	55.00	759.5	1.223	74.6	378.3	173.6	212.2	325.5	358.1
03	0.90	55.00	788.5	1.228	99.5	394.2	191.8	234.5	354.8	390.3
03	0.70	55.00	817.5	1.232	124.4	410.1	210.0	256.7	384.1	422.5
03	0.70	55.00	817.5	1.232	124.4	410.1	210.0	256.7	384.1	422.5
04	0.70	61.00	890.0	1.213	124.4	439.6	220.7	269.7	405.3	445.8
04	0.50	61.00	890.0	1.230	152.0	445.6	236.7	289.3	429.4	472.4
04	0.30	61.00	890.0	1.246	179.6	451.7	252.8	309.0	453.6	499.0
04	0.10	61.00	915.5	1.256	207.2	468.1	272.5	333.2	485.2	533.8
04	-0.10	61.00	966.5	1.258	234.8	494.9	296.0	361.9	524.3	576.8
04	-0.30	61.00	1017.5	1.259	262.4	521.7	319.6	390.7	563.4	619.8
04	-0.50	61.00	1068.5	1.261	290.0	548.5	343.1	419.4	602.5	662.8
04	-0.70	61.00	1119.5	1.259	317.6	573.7	366.0	447.5	640.5	704.6
04	-0.90	61.00	1170.5	1.254	345.2	597.4	388.4	474.9	677.3	745.1
04	-1.10	61.00	1221.5	1.249	372.8	621.1	410.8	502.3	714.2	785.7
04	-1.30	61.00	1272.5	1.245	400.4	644.8	433.2	529.6	751.0	826.2
04	-1.30	61.00	1272.5	1.245	400.4	644.8	433.2	529.6	751.0	826.2
05	-1.30	66.00	1400.0	1.222	400.4	696.7	451.9	552.5	788.3	867.2
05	-1.50	66.00	1400.0	1.233	430.2	703.1	469.2	573.6	814.4	895.9
05	-1.70	66.00	1400.0	1.245	460.1	709.5	486.5	594.8	840.4	924.5
05	-1.90	66.00	1400.0	1.256	489.9	715.8	503.8	616.0	866.4	953.2
05	-2.10	66.00	1400.0	1.267	519.8	722.2	521.1	637.1	892.5	981.8
05	-2.30	66.00	1400.0	1.280	549.7	729.7	538.8	658.8	919.3	1011.4
05	-2.50	66.00	1400.0	1.293	579.5	737.3	556.5	680.5	946.2	1040.9
05	-2.70	66.00	1400.0	1.300	609.4	741.0	572.9	700.5	970.4	1067.5
05	-2.90	66.00	1400.0	1.300	639.2	741.0	587.9	718.8	991.8	1091.1
05	-3.10	66.00	1400.0	1.300	669.1	741.0	602.9	737.2	1013.3	1114.7
05	-3.30	66.00	1400.0	1.300	698.9	741.0	617.9	755.6	1034.7	1138.3
05	-3.50	66.00	1400.0	1.300	728.8	741.0	632.9	773.9	1056.2	1161.9
05	-3.70	66.00	1400.0	1.300	758.7	741.0	648.0	792.3	1077.6	1185.5
05	-3.90	66.00	1400.0	1.300	788.5	741.0	663.0	810.6	1099.1	1209.1
05	-4.10	66.00	1400.0	1.300	818.4	741.0	678.0	829.0	1120.5	1232.7
05	-4.30	66.00	1400.0	1.300	848.2	741.0	693.0	847.4	1142.0	1256.3
05	-4.50	66.00	1400.0	1.300	878.1	741.0	708.0	865.7	1163.4	1279.9
05	-4.70	66.00	1400.0	1.300	907.9	741.0	723.0	884.1	1184.9	1303.5
05	-4.90	66.00	1400.0	1.300	937.8	741.0	738.0	902.5	1206.4	1327.1
05	-5.10	66.00	1400.0	1.300	967.7	741.0	753.0	920.8	1227.8	1350.7
05	-5.30	66.00	1400.0	1.300	997.5	741.0	768.0	939.2	1249.3	1374.3
05	-5.50	66.00	1400.0	1.300	1027.4	741.0	783.1	957.6	1270.7	1397.9
05	-5.70	66.00	1400.0	1.300	1057.2	741.0	798.1	975.9	1292.2	1421.5
05	-5.90	66.00	1400.0	1.300	1087.1	741.0	813.1	994.3	1313.6	1445.1
05	-6.10	66.00	1400.0	1.300	1116.9	741.0	828.1	1012.6	1335.1	1468.7
05	-6.30	66.00	1400.0	1.300	1146.8	741.0	843.1	1031.0	1356.5	1492.3
05	-6.50	66.00	1400.0	1.300	1176.7	741.0	858.1	1049.4	1378.0	1516.0
05	-6.70	66.00	1400.0	1.300	1206.5	741.0	873.1	1067.7	1399.5	1539.6
05	-6.90	66.00	1400.0	1.300	1236.4	741.0	888.1	1086.1	1420.9	1563.2
05	-7.10	66.00	1400.0	1.300	1266.2	741.0	903.2	1104.5	1442.4	1586.8
05	-7.30	66.00	1400.0	1.300	1296.1	741.0	918.2	1122.8	1463.8	1610.4
05	-7.50	66.00	1400.0	1.300	1326.0	741.0	933.2	1141.2	1485.3	1634.0
05	-7.70	66.00	1400.0	1.300	1355.8	741.0	948.2	1159.5	1506.7	1657.6
05	-7.90	66.00	1400.0	1.300	1385.7	741.0	963.2	1177.9	1528.2	1681.2
05	-8.10	66.00	1400.0	1.300	1415.5	741.0	978.2	1196.3	1549.6	1704.8
05	-8.30	66.00	1400.0	1.300	1445.4	741.0	993.2	1214.6	1571.1	1728.4
05	-8.50	66.00	1532.0	1.300	1475.2	810.9	1033.4	1263.7	1642.8	1807.2
05	-8.70	66.00	1664.0	1.300	1505.1	880.7	1073.5	1312.8	1714.4	1886.0
05	-8.90	66.00	1796.0	1.300	1535.0	950.6	1113.6	1361.8	1786.1	1964.9
05	-9.10	66.00	1928.0	1.300	1564.8	1020.5	1153.8	1410.9	1857.7	2043.7
05	-9.30	66.00	2060.0	1.300	1594.7	1090.3	1193.9	1460.0	1929.4	2122.5
05	-9.50	66.00	2192.0	1.300	1624.5	1160.2	1234.1	1509.1	2001.1	2201.4
05	-9.70	66.00	2324.0	1.300	1654.4	1230.1	1274.2	1558.1	2072.7	2280.2
05	-9.80	66.00	2390.0	1.300	1669.3	1265.0	1294.3	1582.7	2108.5	2319.6
06	-9.80	171.00	2720.0	2.000	1669.3	2214.9	1635.9	2000.2	2791.1	3070.5
06	-10.00	171.00	2720.0	2.000	1746.7	2214.9	1674.8	2047.7	2846.7	3131.7
06	-10.20	171.00	2720.0	2.000	1824.0	2214.9	1713.7	2095.3	2902.3	3192.8
06	-10.40	171.00	2720.0	2.000	1901.4	2214.9	1752.6	2142.9	2957.9	3254.0
06	-10.60	171.00	2720.0	2.000	1978.8	2214.9	1791.5	2190.5	3013.5	3315.1
06	-10.80	171.00	2720.0	2.000	2056.1	2214.9	1830.4	2238.1	3069.0	3376.3
06	-11.00	171.00	2720.0	2.000	2133.5	2214.9	1869.3	2285.6	3124.6	3437.4
06	-11.20	171.00	2720.0	2.000	2210.8	2214.9	1908.2	2333.2	3180.2	3498.6
06	-11.40	171.00	2720.0	2.000	2288.2	2214.9	1947.1	2380.8	3235.8	3559.8
06	-11.60	171.00	2720.0	2.000	2365.5	2214.9	1986.0	2428.4	3291.4	3620.9
06	-11.80	171.00	2720.0	2.000	2442.9	2214.9	2024.9	2475.9	3347.0	3682.1
06	-12.00	171.00	2720.0	2.000	2520.3	2214.9	2063.8	2523.5	3402.6	3743.2
06	-12.20	171.00	2720.0	2.000	2597.6	2214.9	2102.7	2571.1	3458.2	3804.4

06	-12.40	171.00	2720.0	2.000	2675.0	2214.9	2141.6	2618.7	3513.8	3865.5
06	-12.60	171.00	2720.0	2.000	2752.3	2214.9	2180.4	2666.2	3569.3	3926.7
06	-12.80	171.00	2720.0	2.000	2829.7	2214.9	2219.3	2713.8	3624.9	3987.8
06	-13.00	171.00	2881.0	2.000	2907.1	2346.0	2305.4	2819.0	3774.7	4152.6
06	-13.20	171.00	3042.0	2.000	2984.4	2477.1	2391.4	2924.2	3924.5	4317.4
06	-13.40	171.00	3203.0	2.000	3061.8	2608.2	2477.5	3029.4	4074.3	4482.2
06	-13.60	171.00	3364.0	2.000	3139.1	2739.3	2563.5	3134.6	4224.1	4647.0
06	-13.80	171.00	3525.0	2.000	3216.5	2870.4	2649.6	3239.8	4373.9	4811.8
06	-14.00	171.00	3686.0	2.000	3293.8	3001.5	2735.6	3345.0	4523.7	4976.6
06	-14.20	171.00	3847.0	2.000	3371.2	3132.6	2821.7	3450.2	4673.5	5141.4
06	-14.30	171.00	3927.5	2.000	3409.9	3198.2	2864.7	3502.8	4748.4	5223.8
07	-14.30	197.00	4330.0	2.000	3409.9	3525.9	2982.6	3646.9	4983.9	5482.9
07	-14.50	197.00	4330.0	2.000	3499.0	3525.9	3027.4	3701.7	5048.0	5553.3
07	-14.70	197.00	4330.0	2.000	3588.1	3525.9	3072.2	3756.5	5112.0	5623.8
07	-14.90	197.00	4330.0	2.000	3677.2	3525.9	3117.0	3811.3	5176.0	5694.2
07	-15.10	197.00	4330.0	2.000	3766.4	3525.9	3161.8	3866.1	5240.1	5764.7
07	-15.30	197.00	4330.0	2.000	3855.5	3525.9	3206.6	3920.9	5304.1	5835.1
07	-15.50	197.00	4330.0	2.000	3944.6	3525.9	3251.4	3975.7	5368.2	5905.6
07	-15.70	197.00	4330.0	2.000	4033.7	3525.9	3296.2	4030.6	5432.2	5976.6
07	-15.90	197.00	4363.5	2.000	4122.9	3553.2	3350.9	4097.4	5515.8	6068.0
07	-16.10	197.00	4430.5	2.000	4212.0	3607.8	3415.3	4176.1	5619.1	6181.6
07	-16.30	197.00	4497.5	2.000	4301.1	3662.3	3479.7	4254.9	5722.3	6295.2
07	-16.50	197.00	4564.5	2.000	4390.2	3716.9	3544.2	4333.7	5825.6	6408.8
07	-16.70	197.00	4631.5	2.000	4479.3	3771.4	3608.6	4412.5	5928.8	6522.3
07	-16.90	197.00	4698.5	2.000	4568.5	3826.0	3673.0	4491.3	6032.1	6635.9
07	-17.10	197.00	4765.5	2.000	4657.6	3880.6	3737.4	4570.1	6135.3	6749.5
07	-17.30	197.00	4832.5	2.000	4746.7	3935.1	3801.9	4648.9	6238.5	6863.1
07	-17.30	197.00	4832.5	2.000	4746.7	3935.1	3801.9	4648.9	6238.5	6863.1
08	-17.30	200.00	5000.0	2.000	4746.7	4071.5	3850.9	4708.8	6336.6	6970.9
08	-17.50	200.00	5000.0	2.000	4837.2	4071.5	3896.4	4764.5	6401.6	7042.4
08	-17.70	200.00	5000.0	2.000	4927.7	4071.5	3941.9	4820.1	6466.6	7114.0
08	-17.90	200.00	5000.0	2.000	5018.1	4071.5	3987.4	4875.8	6531.6	7185.5
08	-18.10	200.00	5000.0	2.000	5108.6	4071.5	4032.9	4931.4	6596.6	7257.0
08	-18.30	200.00	5000.0	2.000	5199.1	4071.5	4078.4	4987.1	6661.6	7328.5
08	-18.50	200.00	5000.0	2.000	5289.6	4071.5	4123.9	5042.7	6726.6	7400.1
08	-18.70	200.00	5000.0	2.000	5380.0	4071.5	4169.4	5098.4	6791.7	7471.6
08	-18.90	200.00	5000.0	2.000	5470.5	4071.5	4214.8	5154.0	6856.7	7543.1
08	-19.10	200.00	5000.0	2.000	5561.0	4071.5	4260.3	5209.7	6921.7	7614.6
08	-19.30	200.00	5000.0	2.000	5651.5	4071.5	4305.8	5265.3	6986.7	7686.1
08	-19.50	200.00	5000.0	2.000	5742.0	4071.5	4351.3	5320.9	7051.7	7757.7
08	-19.70	200.00	5000.0	2.000	5832.4	4071.5	4396.8	5376.6	7116.7	7829.2
08	-19.90	200.00	5000.0	2.000	5922.9	4071.5	4442.3	5432.2	7181.8	7900.7
08	-20.10	200.00	5000.0	2.000	6013.4	4071.5	4487.8	5487.9	7246.8	7972.2
08	-20.30	200.00	5000.0	2.000	6103.9	4071.5	4533.3	5543.5	7311.8	8043.8
08	-20.50	200.00	5000.0	2.000	6194.3	4071.5	4578.8	5599.2	7376.8	8115.3
08	-20.70	200.00	5000.0	2.000	6284.8	4071.5	4624.3	5654.8	7441.8	8186.8
08	-20.90	200.00	5000.0	2.000	6375.3	4071.5	4669.7	5710.5	7506.8	8258.3
08	-21.10	200.00	5000.0	2.000	6465.8	4071.5	4715.2	5766.1	7571.8	8329.9
08	-21.30	200.00	5000.0	2.000	6556.3	4071.5	4760.7	5821.8	7636.9	8401.4
08	-21.40	200.00	5000.0	2.000	6601.5	4071.5	4783.5	5849.6	7669.4	8437.2

Capacité du pieu pour chaque combinaison en fonction de la profondeur



Données

Titre du projet : Eco-Village d'entreprises à Carrère (pieu n°1)
Numéro d'affaire : 22-1222
Commentaires : Sondage SP1 ANTEA
Titre du calcul : Titre du calcul
Cadre réglementaire : EC 7 - Norme NF P94-262/A1 (juillet 2018)
Méthode de dimensionnement : A partir des résultats pressiométriques
Traitement des données : Traitement par couches
Pas du calcul (m) : 0,20
Section de calcul : Section de calcul circulaire
Diamètre de calcul (m) : 0,82
Classe du pieu : 2 - Pieu tarière creuse
Catégorie du pieu : 6 [FTC, FTCD] - Foré tarière creuse simple rotation, ou double rotation
Mode de chargement : Travail en compression

Combinaisons

	ELS-QP	ELS-CARAC	ELU-FOND	ELU-ACC
Pondérations combinées sur Qs.k	0,636	0,778	0,909	1,000
Pondérations combinées sur Qp.k	0,455	0,556	0,909	1,000

Cote de référence (m) : 6,60

Définition des couches de sol

No	Nom	Couleur	Classe de sol	Zbase	pl*	qsl	kpmax	γR,d1×γR,d2
1	Remblais		Argile, limons	5,10	460,00	0,00	1,30	1,265
2	Alluvions		Argile, limons	1,70	290,00	0,00	1,30	1,265
3	Argile d'altération		Argile, limons	0,70	600,00	55,00	1,30	1,265
4	Lave altérée argilisée raide		Argile, limons	-1,30	890,00	61,00	1,30	1,265
5	Lave altérée argilisée raide à très raide		Argile, limons	-9,80	1400,00	66,00	1,30	1,265
6	Lave altérée argilisée très raide		Roche altérée et fragmentée	-14,30	2720,00	171,00	2,00	1,265
7	Lave altérée +/- argilisée très raide		Roche altérée et fragmentée	-17,30	4330,00	197,00	2,00	1,265
8	Lave +/- altérée aspect rocheux		Roche altérée et fragmentée	-25,00	5000,00	200,00	2,00	1,265

Critère de calcul : Longueur imposée

Longueur du pieu (m) : 28,00

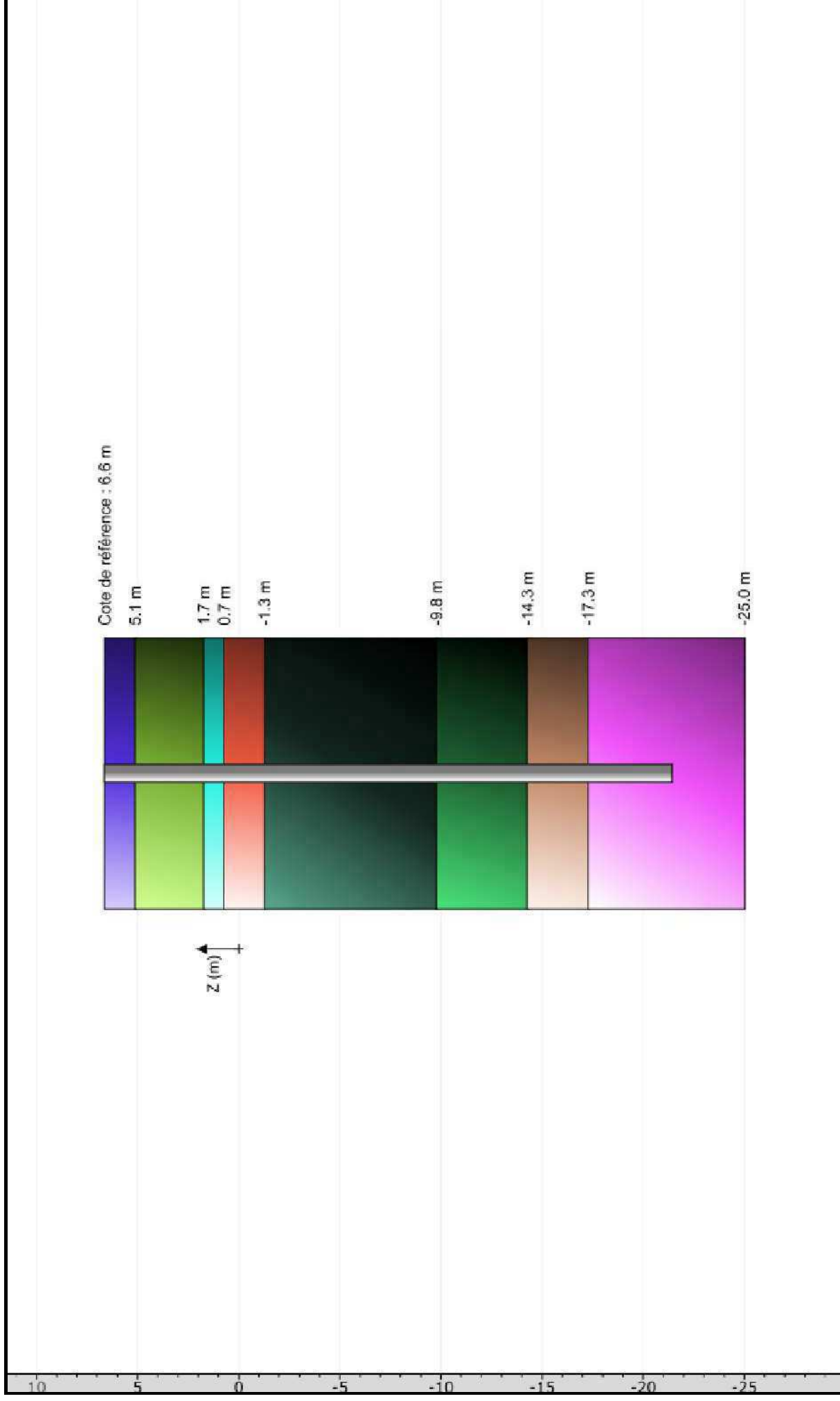


FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 13:07:48
Calcul réalisé par : MAGMA CARAIBES

Projet : SP1 ANTEA_compression
Module : Fondprof (Pieu 1/1)

Onglet "Paramètres généraux"



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Calcul réalisé le : 06/09/2022 à 13h07
par : MAGMA CARAIBES

Options du calcul :

- calcul basé sur des paramètres issus du pressiomètre de Ménard
- calcul selon les règles de la norme NF P 94 262
- profil de pression limite pl* défini par couche
- pour pieu de catégorie : 6
- pour pieu travaillant en compression

Combinaisons	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
Frottement	0.636	0.778	0.909	1.000
Pointe	0.455	0.556	0.909	1.000

Cote de référence : 6.600

Section du pieu : 0.528
Périmètre : 2.576

Caractéristiques des couches (données utilisateur)

couche	base	pl*	qsl	kpmin	kpmax	gamrd
01	5.10	460.0	0.00	1.00	1.30	1.26
02	1.70	290.0	0.00	1.00	1.30	1.26
03	0.70	600.0	55.00	1.00	1.30	1.26
04	-1.30	890.0	61.00	1.00	1.30	1.26
05	-9.80	1400.0	66.00	1.00	1.30	1.26
06	-14.30	2720.0	171.00	1.00	2.00	1.26
07	-17.30	4330.0	197.00	1.00	2.00	1.26
08	-25.00	5000.0	200.00	1.00	2.00	1.26

Pas du calcul : 0.20

 SOLUTION

Calcul à longueur imposée : L = 28.00

couche	cote	qsl	ple	kp	Qs	Qp	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
01	6.60	0.00	460.0	1.000	0.0	242.9	87.4	106.8	174.6	192.0
01	6.40	0.00	440.0	1.015	0.0	235.9	84.9	103.7	169.5	186.5
01	6.20	0.00	424.2	1.032	0.0	231.1	83.1	101.6	166.1	182.7
01	6.00	0.00	409.0	1.049	0.0	226.7	81.5	99.6	162.9	179.2
01	5.80	0.00	392.0	1.069	0.0	221.2	79.6	97.2	159.0	174.9
01	5.60	0.00	375.0	1.090	0.0	215.8	77.6	94.9	155.1	170.6
01	5.40	0.00	358.0	1.113	0.0	210.4	75.7	92.5	151.2	166.3
01	5.20	0.00	341.0	1.138	0.0	205.0	73.7	90.1	147.3	162.0
01	5.10	0.00	332.5	1.152	0.0	202.3	72.7	88.9	145.3	159.9
02	5.10	0.00	290.0	1.174	0.0	179.8	64.7	79.0	129.2	142.1
02	4.90	0.00	290.0	1.189	0.0	182.1	65.5	80.0	130.8	143.9
02	4.70	0.00	290.0	1.203	0.0	184.3	66.3	81.0	132.4	145.7
02	4.50	0.00	290.0	1.218	0.0	186.5	67.1	82.0	134.0	147.5
02	4.30	0.00	290.0	1.233	0.0	188.8	67.9	83.0	135.7	149.2
02	4.10	0.00	290.0	1.247	0.0	191.0	68.7	84.0	137.3	151.0
02	3.90	0.00	290.0	1.262	0.0	193.3	69.5	84.9	138.9	152.8
02	3.70	0.00	290.0	1.277	0.0	195.5	70.3	85.9	140.5	154.5



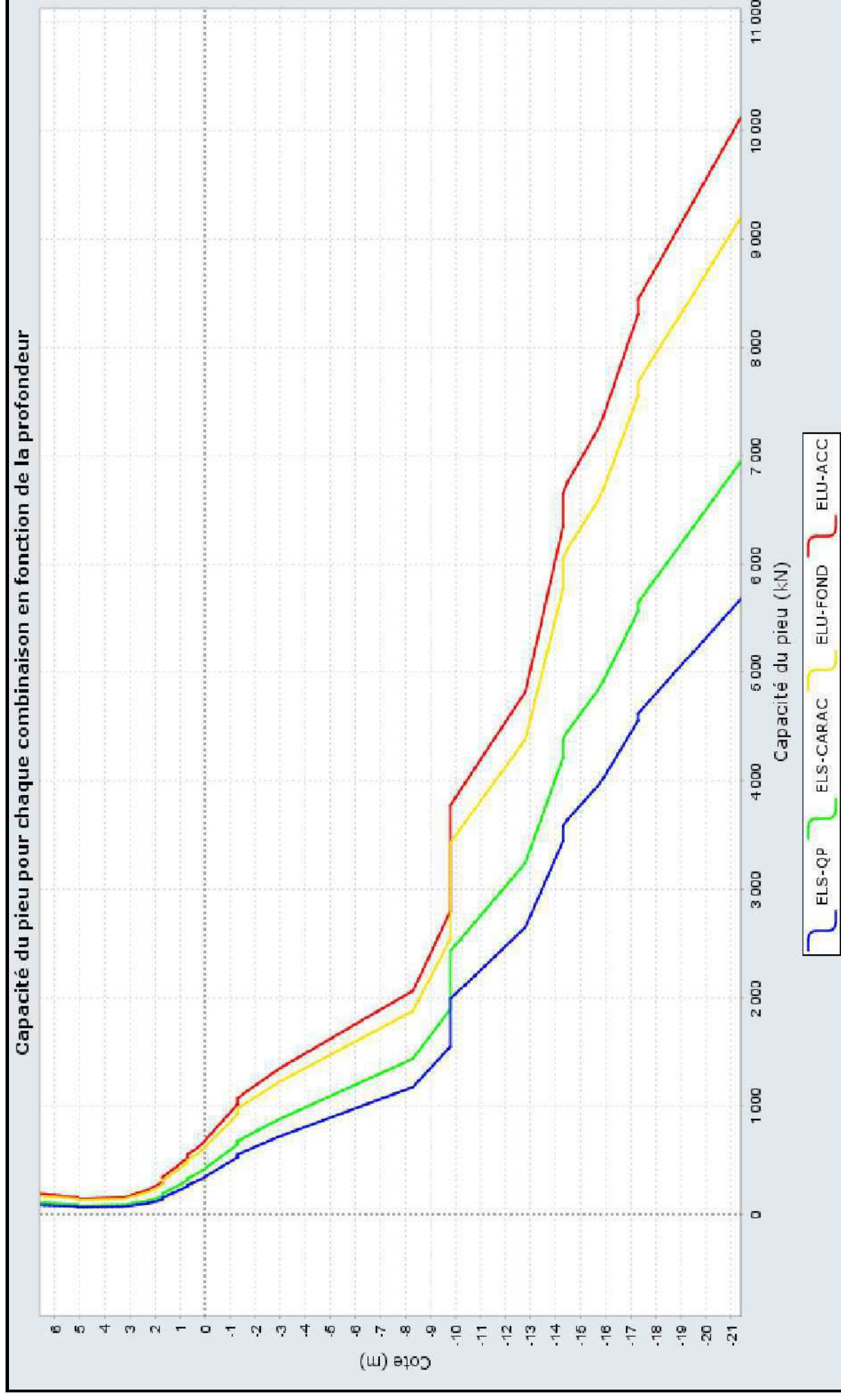
FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 13:07:49
 Calcul réalisé par : MAGMA CARAIBES
 Projet : SP1 ANTEA_compression
 Module : Fondprof (Pieu 1/1)

02	3.50	0.00	290.0	1.291	0.0	197.7	71.1	86.9	142.1	156.3
02	3.30	0.00	290.0	1.300	0.0	199.1	71.6	87.5	143.1	157.4
02	3.10	0.00	305.5	1.300	0.0	209.7	75.4	92.2	150.7	165.8
02	2.90	0.00	336.5	1.289	0.0	229.0	82.4	100.7	164.6	181.0
02	2.70	0.00	367.5	1.276	0.0	247.6	89.1	108.8	177.9	195.8
02	2.50	0.00	398.5	1.265	0.0	266.2	95.8	117.0	191.3	210.5
02	2.30	0.00	429.5	1.256	0.0	284.9	102.5	125.2	204.7	225.2
02	2.10	0.00	475.0	1.240	0.0	311.1	111.9	136.7	223.6	246.0
02	1.90	0.00	535.0	1.221	0.0	345.1	124.1	151.7	247.9	272.8
02	1.70	0.00	595.0	1.206	0.0	379.0	136.3	166.6	272.3	299.6
03	1.70	55.00	696.7	1.176	0.0	432.7	155.6	190.2	310.9	342.0
03	1.50	55.00	719.4	1.183	28.3	449.3	175.9	214.9	343.2	377.6
03	1.30	55.00	737.4	1.190	56.7	463.4	195.2	238.6	373.7	411.2
03	1.10	55.00	759.5	1.196	85.0	479.8	215.3	263.2	405.8	446.5
03	0.90	55.00	788.5	1.200	113.3	499.7	236.7	289.4	440.5	484.6
03	0.70	55.00	817.5	1.204	141.7	519.7	258.2	315.5	475.2	522.8
03	0.70	55.00	817.5	1.204	141.7	519.7	258.2	315.5	475.2	522.8
04	0.70	61.00	890.0	1.187	141.7	558.0	271.9	332.4	502.7	553.1
04	0.50	61.00	890.0	1.202	173.1	564.8	290.2	354.7	530.3	583.4
04	0.30	61.00	890.0	1.216	204.5	571.7	308.5	377.1	557.8	613.6
04	0.10	61.00	915.5	1.225	236.0	592.1	331.6	405.4	595.0	654.6
04	-0.10	61.00	966.5	1.226	267.4	625.9	359.6	439.5	641.9	706.1
04	-0.30	61.00	1017.5	1.228	298.8	659.7	387.5	473.7	688.8	757.7
04	-0.50	61.00	1068.5	1.229	330.3	693.5	415.5	507.9	735.6	809.3
04	-0.70	61.00	1119.5	1.230	361.7	727.3	443.4	542.1	782.5	860.9
04	-0.90	61.00	1170.5	1.231	393.1	761.1	471.4	576.3	829.4	912.4
04	-1.10	61.00	1221.5	1.232	424.5	794.9	499.4	610.5	876.3	964.0
04	-1.30	61.00	1272.5	1.233	456.0	828.7	527.3	644.7	923.2	1015.6
04	-1.30	61.00	1272.5	1.233	456.0	828.7	527.3	644.7	923.2	1015.6
05	-1.30	66.00	1400.0	1.212	456.0	896.1	551.5	674.3	971.5	1068.8
05	-1.50	66.00	1400.0	1.227	490.0	906.9	572.5	699.9	1003.8	1104.2
05	-1.70	66.00	1400.0	1.239	524.0	915.9	592.9	724.8	1034.7	1138.3
05	-1.90	66.00	1400.0	1.249	558.0	923.2	612.6	748.9	1064.3	1170.9
05	-2.10	66.00	1400.0	1.259	592.0	930.5	632.3	773.0	1094.0	1203.5
05	-2.30	66.00	1400.0	1.268	626.0	937.7	652.0	797.2	1123.7	1236.1
05	-2.50	66.00	1400.0	1.278	660.0	945.0	671.7	821.3	1153.3	1268.8
05	-2.70	66.00	1400.0	1.288	694.0	952.3	691.4	845.4	1183.0	1301.4
05	-2.90	66.00	1400.0	1.298	728.0	959.5	711.1	869.5	1212.6	1334.0
05	-3.10	66.00	1400.0	1.300	762.0	961.1	728.8	891.1	1238.2	1362.2
05	-3.30	66.00	1400.0	1.300	796.0	961.1	745.9	912.0	1262.7	1389.1
05	-3.50	66.00	1400.0	1.300	830.0	961.1	763.0	932.9	1287.1	1415.9
05	-3.70	66.00	1400.0	1.300	864.0	961.1	780.1	953.8	1311.5	1442.8
05	-3.90	66.00	1400.0	1.300	898.0	961.1	797.2	974.8	1336.0	1469.7
05	-4.10	66.00	1400.0	1.300	932.0	961.1	814.3	995.7	1360.4	1496.6
05	-4.30	66.00	1400.0	1.300	966.0	961.1	831.4	1016.6	1384.8	1523.5
05	-4.50	66.00	1400.0	1.300	1000.0	961.1	848.5	1037.5	1409.3	1550.3
05	-4.70	66.00	1400.0	1.300	1034.0	961.1	865.6	1058.4	1433.7	1577.2
05	-4.90	66.00	1400.0	1.300	1068.1	961.1	882.7	1079.3	1458.1	1604.1
05	-5.10	66.00	1400.0	1.300	1102.1	961.1	899.8	1100.2	1482.6	1631.0
05	-5.30	66.00	1400.0	1.300	1136.1	961.1	916.9	1121.1	1507.0	1657.9
05	-5.50	66.00	1400.0	1.300	1170.1	961.1	934.0	1142.1	1531.4	1684.8
05	-5.70	66.00	1400.0	1.300	1204.1	961.1	951.1	1163.0	1555.9	1711.6
05	-5.90	66.00	1400.0	1.300	1238.1	961.1	968.2	1183.9	1580.3	1738.5
05	-6.10	66.00	1400.0	1.300	1272.1	961.1	985.3	1204.8	1604.7	1765.4
05	-6.30	66.00	1400.0	1.300	1306.1	961.1	1002.4	1225.7	1629.2	1792.3
05	-6.50	66.00	1400.0	1.300	1340.1	961.1	1019.5	1246.6	1653.6	1819.2
05	-6.70	66.00	1400.0	1.300	1374.1	961.1	1036.6	1267.5	1678.1	1846.0
05	-6.90	66.00	1400.0	1.300	1408.1	961.1	1053.7	1288.5	1702.5	1872.9
05	-7.10	66.00	1400.0	1.300	1442.1	961.1	1070.8	1309.4	1726.9	1899.8
05	-7.30	66.00	1400.0	1.300	1476.1	961.1	1087.8	1330.3	1751.4	1926.7
05	-7.50	66.00	1400.0	1.300	1510.1	961.1	1104.9	1351.2	1775.8	1953.6
05	-7.70	66.00	1400.0	1.300	1544.1	961.1	1122.0	1372.1	1800.2	1980.4
05	-7.90	66.00	1400.0	1.300	1578.1	961.1	1139.1	1393.0	1824.7	2007.3
05	-8.10	66.00	1400.0	1.300	1612.1	961.1	1156.2	1413.9	1849.1	2034.2
05	-8.30	66.00	1400.0	1.300	1646.1	961.1	1173.3	1434.9	1873.5	2061.1
05	-8.50	66.00	1532.0	1.300	1680.1	1051.8	1223.0	1495.6	1963.1	2159.6
05	-8.70	66.00	1664.0	1.300	1714.1	1142.4	1272.7	1556.3	2052.6	2258.1
05	-8.90	66.00	1796.0	1.300	1748.1	1233.0	1322.4	1617.1	2142.2	2356.6
05	-9.10	66.00	1928.0	1.300	1782.2	1323.6	1372.1	1677.8	2231.7	2455.2
05	-9.30	66.00	2060.0	1.300	1816.2	1414.3	1421.8	1738.6	2321.3	2553.7
05	-9.50	66.00	2192.0	1.300	1850.2	1504.9	1471.5	1799.3	2410.9	2652.2
05	-9.70	66.00	2324.0	1.300	1884.2	1595.5	1521.2	1860.1	2500.4	2750.7
05	-9.80	66.00	2390.0	1.300	1901.2	1640.8	1546.0	1890.4	2545.2	2800.0
06	-9.80	171.00	2720.0	2.000	1901.2	2872.9	1989.2	2432.0	3430.5	3773.9
06	-10.00	171.00	2720.0	2.000	1989.3	2872.9	2033.5	2486.1	3493.8	3843.6
06	-10.20	171.00	2720.0	2.000	2077.4	2872.9	2077.8	2540.3	3557.1	3913.2
06	-10.40	171.00	2720.0	2.000	2165.5	2872.9	2122.1	2594.5	3620.4	3982.9
06	-10.60	171.00	2720.0	2.000	2253.6	2872.9	2166.4	2648.7	3683.8	4052.5
06	-10.80	171.00	2720.0	2.000	2341.7	2872.9	2210.6	2702.9	3747.1	4122.2
06	-11.00	171.00	2720.0	2.000	2429.8	2872.9	2254.9	2757.1	3810.4	4191.8
06	-11.20	171.00	2720.0	2.000	2517.9	2872.9	2299.2	2811.3	3873.7	4261.5
06	-11.40	171.00	2720.0	2.000	2606.0	2872.9	2343.5	2865.4	3937.0	4331.1
06	-11.60	171.00	2720.0	2.000	2694.1	2872.9	2387.8	2919.6	4000.3	4400.8
06	-11.80	171.00	2720.0	2.000	2782.2	2872.9	2432.1	2973.8	4063.6	4470.4
06	-12.00	171.00	2720.0	2.000	2870.3	2872.9	2476.4	3028.0	4126.9	4540.1
06	-12.20	171.00	2720.0	2.000	2958.4	2872.9	2520.7	3082.2	4190.2	4609.7

06	-12.40	171.00	2720.0	2.000	3046.5	2872.9	2565.0	3136.4	4253.5	4679.3
06	-12.60	171.00	2720.0	2.000	3134.6	2872.9	2609.3	3190.5	4316.8	4749.0
06	-12.80	171.00	2720.0	2.000	3222.7	2872.9	2653.6	3244.7	4380.1	4818.6
06	-13.00	171.00	2881.0	2.000	3310.8	3042.9	2759.1	3373.7	4565.6	5022.7
06	-13.20	171.00	3042.0	2.000	3398.9	3213.0	2864.5	3502.6	4751.1	5226.8
06	-13.40	171.00	3203.0	2.000	3487.0	3383.0	2970.0	3631.5	4936.7	5430.9
06	-13.60	171.00	3364.0	2.000	3575.1	3553.1	3075.4	3760.4	5122.2	5634.9
06	-13.80	171.00	3525.0	2.000	3663.2	3723.1	3180.9	3889.4	5307.7	5839.0
06	-14.00	171.00	3686.0	2.000	3751.3	3893.2	3286.4	4018.3	5493.2	6043.1
06	-14.20	171.00	3847.0	2.000	3839.4	4063.2	3391.8	4147.2	5678.7	6247.1
06	-14.30	171.00	3927.5	2.000	3883.5	4148.2	3444.5	4211.7	5771.4	6349.2
07	-14.30	197.00	4330.0	1.981	3883.5	4530.5	3582.0	4379.7	6046.1	6651.3
07	-14.50	197.00	4330.0	2.000	3985.0	4573.4	3648.5	4461.0	6149.8	6765.5
07	-14.70	197.00	4330.0	2.000	4086.5	4573.4	3699.5	4523.4	6222.8	6845.7
07	-14.90	197.00	4330.0	2.000	4188.0	4573.4	3750.5	4585.8	6295.7	6926.0
07	-15.10	197.00	4330.0	2.000	4289.5	4573.4	3801.6	4648.2	6368.6	7006.2
07	-15.30	197.00	4330.0	2.000	4391.0	4573.4	3852.6	4710.6	6441.6	7086.4
07	-15.50	197.00	4330.0	2.000	4492.5	4573.4	3903.6	4773.1	6514.5	7166.7
07	-15.70	197.00	4330.0	2.000	4594.0	4573.4	3954.7	4835.5	6587.4	7246.9
07	-15.90	197.00	4363.5	2.000	4695.5	4608.7	4018.4	4913.5	6685.8	7355.1
07	-16.10	197.00	4430.5	2.000	4797.0	4679.5	4094.9	5007.0	6809.6	7491.3
07	-16.30	197.00	4497.5	2.000	4898.5	4750.3	4171.4	5100.5	6933.4	7627.5
07	-16.50	197.00	4564.5	2.000	5000.0	4821.0	4247.9	5194.0	7057.1	7763.6
07	-16.70	197.00	4631.5	2.000	5101.5	4891.8	4324.3	5287.6	7180.9	7899.8
07	-16.90	197.00	4698.5	2.000	5203.0	4962.6	4400.8	5381.1	7304.7	8036.0
07	-17.10	197.00	4765.5	2.000	5304.5	5033.3	4477.3	5474.6	7428.5	8172.2
07	-17.30	197.00	4832.5	2.000	5406.0	5104.1	4553.8	5568.2	7552.3	8308.3
07	-17.30	197.00	4832.5	2.000	5406.0	5104.1	4553.8	5568.2	7552.3	8308.3
08	-17.30	200.00	5000.0	2.000	5406.0	5281.0	4617.4	5645.9	7679.4	8448.2
08	-17.50	200.00	5000.0	2.000	5509.0	5281.0	4669.2	5709.3	7753.5	8529.7
08	-17.70	200.00	5000.0	2.000	5612.0	5281.0	4721.0	5772.7	7827.5	8611.1
08	-17.90	200.00	5000.0	2.000	5715.1	5281.0	4772.9	5836.0	7901.6	8692.6
08	-18.10	200.00	5000.0	2.000	5818.1	5281.0	4824.7	5899.4	7975.6	8774.0
08	-18.30	200.00	5000.0	2.000	5921.2	5281.0	4876.5	5962.8	8049.6	8855.5
08	-18.50	200.00	5000.0	2.000	6024.2	5281.0	4928.3	6026.2	8123.7	8936.9
08	-18.70	200.00	5000.0	2.000	6127.3	5281.0	4980.1	6089.5	8197.7	9018.4
08	-18.90	200.00	5000.0	2.000	6230.3	5281.0	5031.9	6152.9	8271.8	9099.9
08	-19.10	200.00	5000.0	2.000	6333.4	5281.0	5083.7	6216.3	8345.8	9181.3
08	-19.30	200.00	5000.0	2.000	6436.4	5281.0	5135.5	6279.7	8419.9	9262.8
08	-19.50	200.00	5000.0	2.000	6539.4	5281.0	5187.3	6343.0	8493.9	9344.2
08	-19.70	200.00	5000.0	2.000	6642.5	5281.0	5239.1	6406.4	8568.0	9425.7
08	-19.90	200.00	5000.0	2.000	6745.5	5281.0	5290.9	6469.8	8642.0	9507.2
08	-20.10	200.00	5000.0	2.000	6848.6	5281.0	5342.7	6533.2	8716.0	9588.6
08	-20.30	200.00	5000.0	2.000	6951.6	5281.0	5394.5	6596.5	8790.1	9670.1
08	-20.50	200.00	5000.0	2.000	7054.7	5281.0	5446.3	6659.9	8864.1	9751.5
08	-20.70	200.00	5000.0	2.000	7157.7	5281.0	5498.2	6723.3	8938.2	9833.0
08	-20.90	200.00	5000.0	2.000	7260.8	5281.0	5550.0	6786.7	9012.2	9914.4
08	-21.10	200.00	5000.0	2.000	7363.8	5281.0	5601.8	6850.0	9086.3	9995.9
08	-21.30	200.00	5000.0	2.000	7466.8	5281.0	5653.6	6913.4	9160.3	10077.4
08	-21.40	200.00	5000.0	2.000	7518.4	5281.0	5679.5	6945.1	9197.3	10118.1

Capacité du pieu pour chaque combinaison en fonction de la profondeur



Données

Titre du projet : Eco-Village d'entreprises à Carrère (pieu n°1)
Numéro d'affaire : 22-1222
Commentaires : Sondage SP1 ANTEA
Titre du calcul : Titre du calcul
Cadre réglementaire : EC 7 - Norme NF P94-262/A1 (juillet 2018)
Méthode de dimensionnement : A partir des résultats pressiométriques
Traitement des données : Traitement par couches
Pas du calcul (m) : 0,20
Section de calcul : Section de calcul circulaire
Diamètre de calcul (m) : 0,92
Classe du pieu : 2 - Pieu tarière creuse
Catégorie du pieu : 6 [FTC, FTCD] - Foré tarière creuse simple rotation, ou double rotation
Mode de chargement : Travail en compression

Combinaisons

	ELS-QP	ELS-CARAC	ELU-FOND	ELU-ACC
Pondérations combinées sur Qs.k	0.636	0.778	0.909	1.000
Pondérations combinées sur Qp.k	0.455	0.556	0.909	1.000

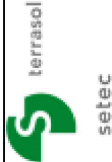
Cote de référence (m) : 6,60

Définition des couches de sol

No	Nom	Couleur	Classe de sol	Zbase	pl*	qsl	kpmax	γR,d1×γR,d2
1	Remblais		Argile, limons	5,10	460,00	0,00	1,30	1,265
2	Alluvions		Argile, limons	1,70	290,00	0,00	1,30	1,265
3	Argile d'altération		Argile, limons	0,70	600,00	55,00	1,30	1,265
4	Lave altérée argilisée raide		Argile, limons	-1,30	890,00	61,00	1,30	1,265
5	Lave altérée argilisée raide à très raide		Argile, limons	-9,80	1400,00	66,00	1,30	1,265
6	Lave altérée argilisée très raide		Roche altérée et fragmentée	-14,30	2720,00	171,00	2,00	1,265
7	Lave altérée +/- argilisée très raide		Roche altérée et fragmentée	-17,30	4330,00	197,00	2,00	1,265
8	Lave +/- altérée aspect rocheux		Roche altérée et fragmentée	-25,00	5000,00	200,00	2,00	1,265

Critère de calcul : Longueur imposée

Longueur du pieu (m) : 28,00

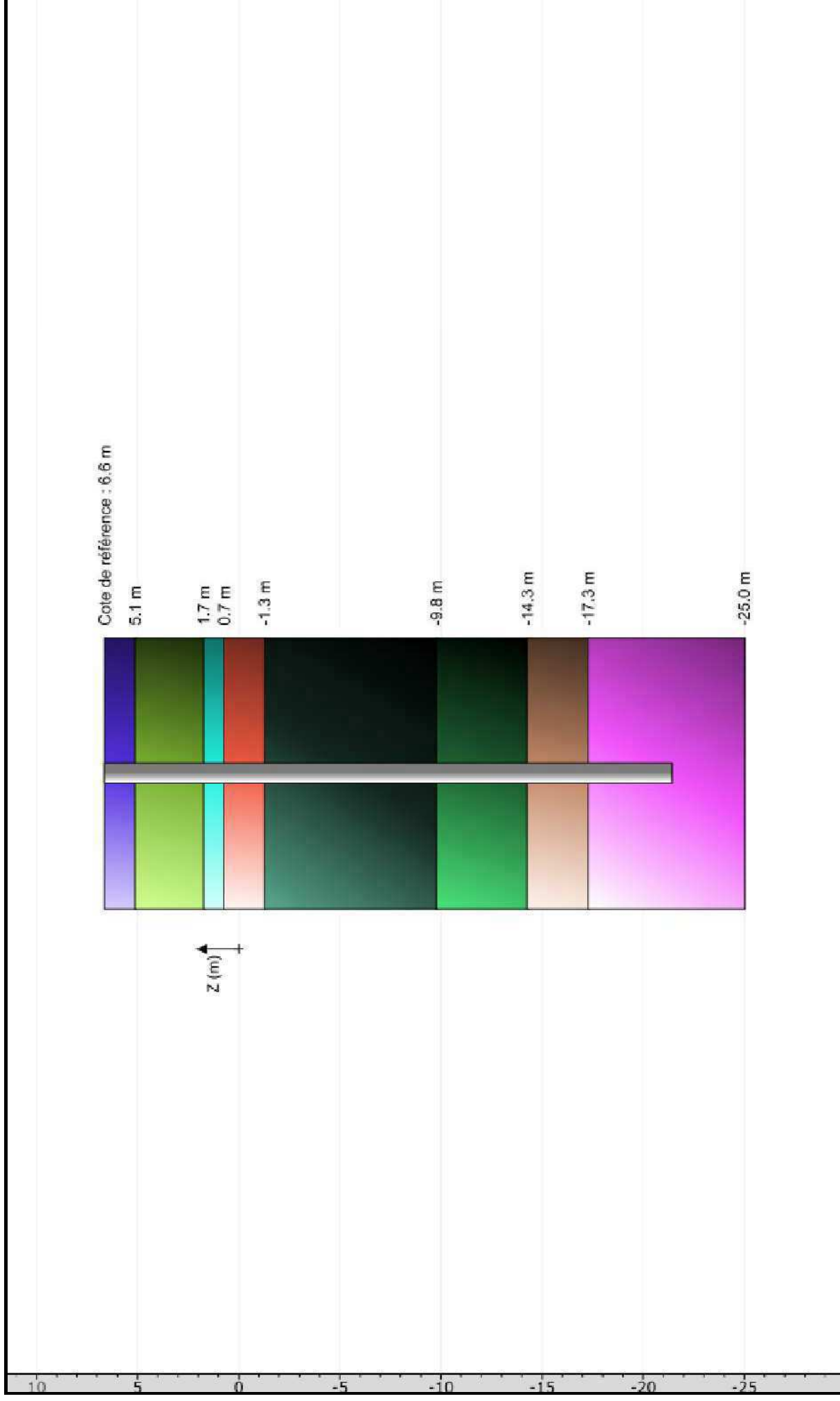


FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 13:08:23
Calcul réalisé par : MAGMA CARAIBES

Projet : SP1 ANTEA_compression
Module : Fondprof (Pieu 1/1)

Onglet "Paramètres généraux"



File : C:\Users\morel\AppData\Local\Temp\Terrasol\FoXta v3\3812\temp[FP]-1.resu

Calcul réalisé le : 06/09/2022 à 13h07
par : MAGMA CARAIBES

Options du calcul :

- calcul basé sur des paramètres issus du pressiomètre de Ménard
- calcul selon les règles de la norme NF P 94 262
- profil de pression limite pl* défini par couche
- pour pieu de catégorie : 6
- pour pieu travaillant en compression

Combinaisons	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
Frottement	0.636	0.778	0.909	1.000
Pointe	0.455	0.556	0.909	1.000

Cote de référence : 6.600

Section du pieu : 0.665

Périmètre : 2.890

Caractéristiques des couches (données utilisateur)

couche	base	pl*	qsl	kpmin	kpmax	gamrd
01	5.10	460.0	0.00	1.00	1.30	1.26
02	1.70	290.0	0.00	1.00	1.30	1.26
03	0.70	600.0	55.00	1.00	1.30	1.26
04	-1.30	890.0	61.00	1.00	1.30	1.26
05	-9.80	1400.0	66.00	1.00	1.30	1.26
06	-14.30	2720.0	171.00	1.00	2.00	1.26
07	-17.30	4330.0	197.00	1.00	2.00	1.26
08	-25.00	5000.0	200.00	1.00	2.00	1.26

Pas du calcul : 0.20

 SOLUTION

Calcul à longueur imposée : L = 28.00

couche	cote	qsl	ple	kp	Qs	Qp	ELS-QP	ELS-CARA	ELU-FOND	ELU-ACC
01	6.60	0.00	460.0	1.000	0.0	305.8	110.0	134.4	219.7	241.7
01	6.40	0.00	440.0	1.014	0.0	296.5	106.6	130.3	213.0	234.4
01	6.20	0.00	424.2	1.028	0.0	290.0	104.3	127.5	208.4	229.2
01	6.00	0.00	409.0	1.044	0.0	283.9	102.1	124.8	204.0	224.4
01	5.80	0.00	392.0	1.061	0.0	276.5	99.5	121.5	198.7	218.6
01	5.60	0.00	375.0	1.080	0.0	269.2	96.8	118.3	193.5	212.8
01	5.40	0.00	358.0	1.101	0.0	261.9	94.2	115.1	188.2	207.0
01	5.20	0.00	341.0	1.123	0.0	254.6	91.6	111.9	183.0	201.3
01	5.10	0.00	332.5	1.135	0.0	250.9	90.3	110.3	180.3	198.4
02	5.10	0.00	290.0	1.155	0.0	222.7	80.1	97.9	160.0	176.0
02	4.90	0.00	290.0	1.168	0.0	225.2	81.0	99.0	161.8	178.0
02	4.70	0.00	290.0	1.181	0.0	227.7	81.9	100.1	163.6	180.0
02	4.50	0.00	290.0	1.194	0.0	230.2	82.8	101.2	165.4	182.0
02	4.30	0.00	290.0	1.207	0.0	232.8	83.7	102.3	167.3	184.0
02	4.10	0.00	290.0	1.220	0.0	235.3	84.6	103.4	169.1	186.0
02	3.90	0.00	290.0	1.233	0.0	237.8	85.5	104.5	170.9	188.0
02	3.70	0.00	290.0	1.246	0.0	240.3	86.4	105.6	172.7	190.0



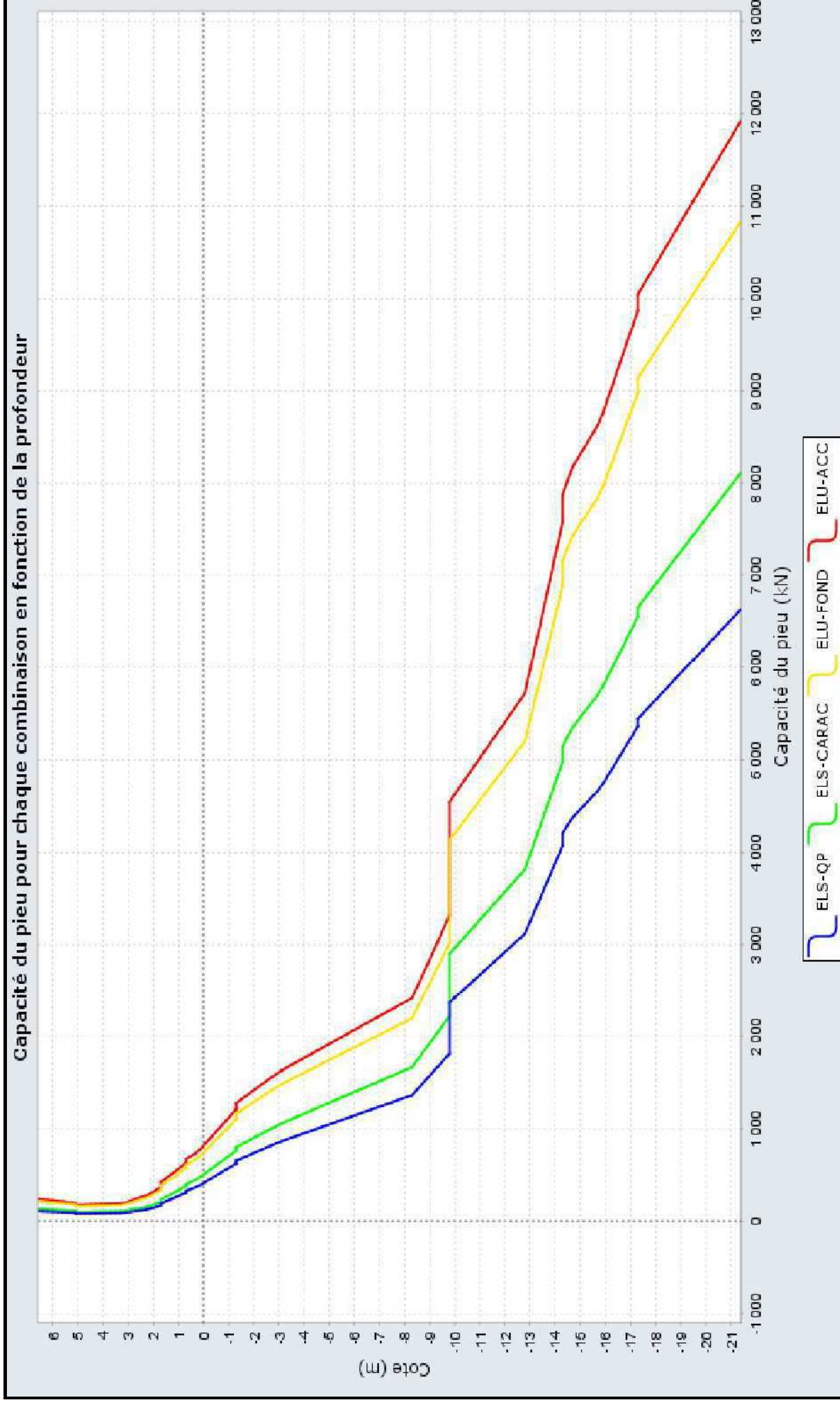
FoXta v3
v3.3.6

Imprimé le : 06/09/2022 - 13:08:24
 Calcul réalisé par : MAGMA CARAIBES
 Projet : SP1 ANTEA_compression
 Module : Fondprof (Pieu 1/1)

02	3.50	0.00	290.0	1.260	0.0	242.8	87.3	106.7	174.5	191.9
02	3.30	0.00	290.0	1.273	0.0	245.3	88.2	107.8	176.3	193.9
02	3.10	0.00	305.5	1.271	0.0	258.1	92.9	113.5	185.5	204.1
02	2.90	0.00	336.5	1.257	0.0	281.3	101.2	123.6	202.1	222.3
02	2.70	0.00	367.5	1.246	0.0	304.4	109.5	133.8	218.7	240.6
02	2.50	0.00	398.5	1.236	0.0	327.5	117.8	143.9	235.3	258.9
02	2.30	0.00	429.5	1.228	0.0	350.6	126.1	154.1	252.0	277.2
02	2.10	0.00	475.0	1.214	0.0	383.4	137.9	168.5	275.5	303.1
02	1.90	0.00	535.0	1.197	0.0	425.8	153.2	187.1	306.0	336.6
02	1.70	0.00	595.0	1.184	0.0	468.2	168.4	205.8	336.4	370.1
03	1.70	55.00	696.7	1.157	0.0	535.8	192.7	235.5	385.0	423.5
03	1.50	55.00	719.4	1.163	31.8	556.1	216.0	264.0	422.4	464.7
03	1.30	55.00	737.4	1.169	63.6	573.2	238.2	291.1	457.6	503.4
03	1.10	55.00	759.5	1.175	95.4	593.2	261.3	319.4	494.8	544.3
03	0.90	55.00	788.5	1.178	127.2	617.6	286.1	349.7	535.2	588.8
03	0.70	55.00	817.5	1.182	159.0	642.1	310.9	380.0	575.6	633.3
03	0.70	55.00	817.5	1.182	159.0	642.1	310.9	380.0	575.6	633.3
04	0.70	61.00	890.0	1.167	159.0	690.3	328.2	401.2	610.3	671.4
04	0.50	61.00	890.0	1.180	194.2	698.0	348.7	426.3	641.2	705.3
04	0.30	61.00	890.0	1.193	229.5	705.7	369.2	451.3	672.0	739.3
04	0.10	61.00	915.5	1.200	264.7	730.4	395.8	483.9	715.1	786.7
04	-0.10	61.00	966.5	1.202	300.0	772.0	428.5	523.8	770.3	847.5
04	-0.30	61.00	1017.5	1.203	335.3	813.7	461.2	563.8	825.6	908.2
04	-0.50	61.00	1068.5	1.204	370.5	855.3	493.9	603.8	880.8	969.0
04	-0.70	61.00	1119.5	1.205	405.8	896.9	526.6	643.8	936.1	1029.8
04	-0.90	61.00	1170.5	1.206	441.1	938.5	559.3	683.8	991.3	1090.6
04	-1.10	61.00	1221.5	1.207	476.3	980.1	592.0	723.7	1046.6	1151.3
04	-1.30	61.00	1272.5	1.208	511.6	1021.8	624.7	763.7	1101.8	1212.1
04	-1.30	61.00	1272.5	1.208	511.6	1021.8	624.7	763.7	1101.8	1212.1
05	-1.30	66.00	1400.0	1.189	511.6	1106.5	655.2	801.0	1162.7	1279.1
05	-1.50	66.00	1400.0	1.202	549.7	1118.6	678.7	829.8	1198.9	1318.9
05	-1.70	66.00	1400.0	1.215	587.9	1130.8	702.3	858.6	1235.0	1358.6
05	-1.90	66.00	1400.0	1.228	626.0	1142.9	725.8	887.4	1271.1	1398.4
05	-2.10	66.00	1400.0	1.241	664.2	1155.1	749.4	916.2	1307.3	1438.1
05	-2.30	66.00	1400.0	1.254	702.3	1167.2	772.9	945.0	1343.4	1477.9
05	-2.50	66.00	1400.0	1.267	740.5	1179.3	796.5	973.8	1379.5	1517.7
05	-2.70	66.00	1400.0	1.278	778.6	1189.5	819.3	1001.7	1414.3	1555.8
05	-2.90	66.00	1400.0	1.287	816.8	1197.6	841.4	1028.7	1447.5	1592.4
05	-3.10	66.00	1400.0	1.296	854.9	1205.8	863.5	1055.8	1480.8	1629.0
05	-3.30	66.00	1400.0	1.300	893.1	1209.9	884.2	1081.0	1511.1	1662.4
05	-3.50	66.00	1400.0	1.300	931.2	1209.9	903.4	1104.5	1538.6	1692.6
05	-3.70	66.00	1400.0	1.300	969.4	1209.9	922.5	1128.0	1566.0	1722.7
05	-3.90	66.00	1400.0	1.300	1007.5	1209.9	941.7	1151.4	1593.4	1752.9
05	-4.10	66.00	1400.0	1.300	1045.7	1209.9	960.9	1174.9	1620.8	1783.1
05	-4.30	66.00	1400.0	1.300	1083.8	1209.9	980.1	1198.4	1648.2	1813.2
05	-4.50	66.00	1400.0	1.300	1122.0	1209.9	999.3	1221.8	1675.6	1843.4
05	-4.70	66.00	1400.0	1.300	1160.2	1209.9	1018.5	1245.3	1703.0	1873.5
05	-4.90	66.00	1400.0	1.300	1198.3	1209.9	1037.6	1268.7	1730.5	1903.7
05	-5.10	66.00	1400.0	1.300	1236.5	1209.9	1056.8	1292.2	1757.9	1933.9
05	-5.30	66.00	1400.0	1.300	1274.6	1209.9	1076.0	1315.7	1785.3	1964.0
05	-5.50	66.00	1400.0	1.300	1312.8	1209.9	1095.2	1339.1	1812.7	1994.2
05	-5.70	66.00	1400.0	1.300	1350.9	1209.9	1114.4	1362.6	1840.1	2024.3
05	-5.90	66.00	1400.0	1.300	1389.1	1209.9	1133.5	1386.1	1867.5	2054.5
05	-6.10	66.00	1400.0	1.300	1427.2	1209.9	1152.7	1409.5	1894.9	2084.6
05	-6.30	66.00	1400.0	1.300	1465.4	1209.9	1171.9	1433.0	1922.4	2114.8
05	-6.50	66.00	1400.0	1.300	1503.5	1209.9	1191.1	1456.5	1949.8	2145.0
05	-6.70	66.00	1400.0	1.300	1541.7	1209.9	1210.3	1479.9	1977.2	2175.1
05	-6.90	66.00	1400.0	1.300	1579.8	1209.9	1229.4	1503.4	2004.6	2205.3
05	-7.10	66.00	1400.0	1.300	1618.0	1209.9	1248.6	1526.9	2032.0	2235.4
05	-7.30	66.00	1400.0	1.300	1656.1	1209.9	1267.8	1550.3	2059.4	2265.6
05	-7.50	66.00	1400.0	1.300	1694.3	1209.9	1287.0	1573.8	2086.8	2295.8
05	-7.70	66.00	1400.0	1.300	1732.4	1209.9	1306.2	1597.2	2114.3	2325.9
05	-7.90	66.00	1400.0	1.300	1770.6	1209.9	1325.4	1620.7	2141.7	2356.1
05	-8.10	66.00	1400.0	1.300	1808.7	1209.9	1344.5	1644.2	2169.1	2386.2
05	-8.30	66.00	1400.0	1.300	1846.9	1209.9	1363.7	1667.6	2196.5	2416.4
05	-8.50	66.00	1532.0	1.300	1885.0	1323.9	1423.9	1741.2	2305.9	2536.7
05	-8.70	66.00	1664.0	1.300	1923.2	1438.0	1484.1	1814.8	2415.3	2657.1
05	-8.90	66.00	1796.0	1.300	1961.3	1552.1	1544.4	1888.4	2524.7	2777.4
05	-9.10	66.00	1928.0	1.300	1999.5	1666.2	1604.6	1962.0	2634.0	2897.7
05	-9.30	66.00	2060.0	1.300	2037.6	1780.2	1664.8	2035.6	2743.4	3018.1
05	-9.50	66.00	2192.0	1.300	2075.8	1894.3	1725.0	2109.2	2852.8	3138.4
05	-9.70	66.00	2324.0	1.300	2113.9	2008.4	1785.2	2182.8	2962.2	3258.7
05	-9.80	66.00	2390.0	1.300	2133.0	2065.4	1815.3	2219.6	3016.9	3318.9
06	-9.80	171.00	2720.0	2.000	2133.0	3616.3	2373.1	2901.3	4131.3	4544.9
06	-10.00	171.00	2720.0	2.000	2231.9	3616.3	2422.8	2962.1	4202.4	4623.1
06	-10.20	171.00	2720.0	2.000	2330.7	3616.3	2472.5	3022.9	4273.4	4701.2
06	-10.40	171.00	2720.0	2.000	2429.6	3616.3	2522.2	3083.7	4344.4	4779.3
06	-10.60	171.00	2720.0	2.000	2528.4	3616.3	2571.9	3144.5	4415.4	4857.5
06	-10.80	171.00	2720.0	2.000	2627.3	3616.3	2621.6	3205.3	4486.5	4935.6
06	-11.00	171.00	2720.0	2.000	2726.1	3616.3	2671.3	3266.1	4557.5	5013.8
06	-11.20	171.00	2720.0	2.000	2824.9	3616.3	2721.0	3326.9	4628.5	5091.9
06	-11.40	171.00	2720.0	2.000	2923.8	3616.3	2770.7	3387.6	4699.6	5170.0
06	-11.60	171.00	2720.0	2.000	3022.6	3616.3	2820.4	3448.4	4770.6	5248.2
06	-11.80	171.00	2720.0	2.000	3121.5	3616.3	2870.1	3509.2	4841.6	5326.3
06	-12.00	171.00	2720.0	2.000	3220.3	3616.3	2919.8	3570.0	4912.6	5404.5
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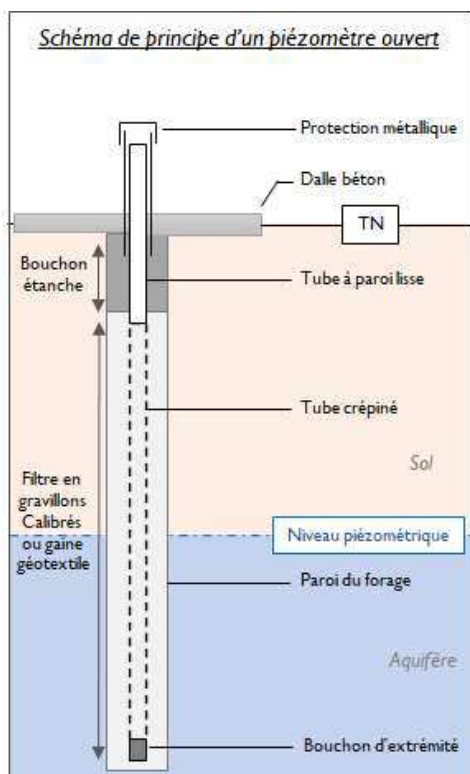
06	-12.40	171.00	2720.0	2.000	3418.0	3616.3	3019.2	3691.6	5054.7	5560.7
06	-12.60	171.00	2720.0	2.000	3516.9	3616.3	3068.9	3752.4	5125.7	5638.9
06	-12.80	171.00	2720.0	2.000	3615.7	3616.3	3118.6	3813.2	5196.8	5717.0
06	-13.00	171.00	2881.0	2.000	3714.6	3830.4	3245.3	3968.1	5421.6	5964.4
06	-13.20	171.00	3042.0	2.000	3813.4	4044.4	3372.0	4122.9	5646.5	6211.7
06	-13.40	171.00	3203.0	2.000	3912.3	4258.5	3498.7	4277.8	5871.3	6459.1
06	-13.60	171.00	3364.0	2.000	4011.1	4472.5	3625.3	4432.7	6096.1	6706.4
06	-13.80	171.00	3525.0	2.000	4110.0	4686.6	3752.0	4587.6	6321.0	6953.8
06	-14.00	171.00	3686.0	2.000	4208.8	4900.6	3878.7	4742.4	6545.8	7201.1
06	-14.20	171.00	3847.0	2.000	4307.7	5114.7	4005.4	4897.3	6770.7	7448.5
06	-14.30	171.00	3927.5	2.000	4357.1	5221.7	4068.8	4974.8	6883.1	7572.2
07	-14.30	197.00	4330.0	1.945	4357.1	5598.2	4204.2	5140.2	7153.6	7869.7
07	-14.50	197.00	4330.0	1.974	4471.0	5682.8	4291.9	5247.5	7296.3	8026.7
07	-14.70	197.00	4330.0	2.000	4584.8	5756.8	4375.7	5350.0	7431.3	8175.2
07	-14.90	197.00	4330.0	2.000	4698.7	5756.8	4433.0	5420.1	7513.1	8265.2
07	-15.10	197.00	4330.0	2.000	4812.6	5756.8	4490.2	5490.1	7594.9	8355.3
07	-15.30	197.00	4330.0	2.000	4926.5	5756.8	4547.5	5560.1	7676.8	8445.3
07	-15.50	197.00	4330.0	2.000	5040.3	5756.8	4604.8	5630.2	7758.6	8535.3
07	-15.70	197.00	4330.0	2.000	5154.2	5756.8	4662.0	5700.2	7840.4	8625.3
07	-15.90	197.00	4363.5	2.000	5268.1	5801.4	4735.3	5789.8	7954.3	8750.6
07	-16.10	197.00	4430.5	2.000	5382.0	5890.4	4824.6	5899.0	8100.1	8911.0
07	-16.30	197.00	4497.5	2.000	5495.8	5979.5	4913.9	6008.2	8245.9	9071.4
07	-16.50	197.00	4564.5	2.000	5609.7	6068.6	5003.2	6117.4	8391.8	9231.9
07	-16.70	197.00	4631.5	2.000	5723.6	6157.7	5092.5	6226.6	8537.6	9392.3
07	-16.90	197.00	4698.5	2.000	5837.5	6246.8	5181.7	6335.8	8683.4	9552.7
07	-17.10	197.00	4765.5	2.000	5951.3	6335.8	5271.0	6445.0	8829.3	9713.2
07	-17.30	197.00	4832.5	2.000	6065.2	6424.9	5360.3	6554.1	8975.1	9873.6
07	-17.30	197.00	4832.5	2.000	6065.2	6424.9	5360.3	6554.1	8975.1	9873.6
08	-17.30	200.00	5000.0	2.000	6065.2	6647.6	5440.4	6652.0	9135.1	10049.7
08	-17.50	200.00	5000.0	2.000	6180.8	6647.6	5498.6	6723.1	9218.2	10141.1
08	-17.70	200.00	5000.0	2.000	6296.4	6647.6	5556.7	6794.2	9301.3	10232.5
08	-17.90	200.00	5000.0	2.000	6412.1	6647.6	5614.8	6865.3	9384.4	10323.8
08	-18.10	200.00	5000.0	2.000	6527.7	6647.6	5672.9	6936.4	9467.5	10415.2
08	-18.30	200.00	5000.0	2.000	6643.3	6647.6	5731.1	7007.5	9550.5	10506.6
08	-18.50	200.00	5000.0	2.000	6758.9	6647.6	5789.2	7078.6	9633.6	10598.0
08	-18.70	200.00	5000.0	2.000	6874.5	6647.6	5847.3	7149.7	9716.7	10689.4
08	-18.90	200.00	5000.0	2.000	6990.1	6647.6	5905.4	7220.8	9799.8	10780.8
08	-19.10	200.00	5000.0	2.000	7105.7	6647.6	5963.6	7292.0	9882.8	10872.2
08	-19.30	200.00	5000.0	2.000	7221.3	6647.6	6021.7	7363.1	9965.9	10963.6
08	-19.50	200.00	5000.0	2.000	7336.9	6647.6	6079.8	7434.2	10049.0	11055.0
08	-19.70	200.00	5000.0	2.000	7452.5	6647.6	6137.9	7505.3	10132.1	11146.4
08	-19.90	200.00	5000.0	2.000	7568.2	6647.6	6196.1	7576.4	10215.1	11237.8
08	-20.10	200.00	5000.0	2.000	7683.8	6647.6	6254.2	7647.5	10298.2	11329.2
08	-20.30	200.00	5000.0	2.000	7799.4	6647.6	6312.3	7718.6	10381.3	11420.5
08	-20.50	200.00	5000.0	2.000	7915.0	6647.6	6370.4	7789.7	10464.4	11511.9
08	-20.70	200.00	5000.0	2.000	8030.6	6647.6	6428.6	7860.8	10547.4	11603.3
08	-20.90	200.00	5000.0	2.000	8146.2	6647.6	6486.7	7931.9	10630.5	11694.7
08	-21.10	200.00	5000.0	2.000	8261.8	6647.6	6544.8	8003.0	10713.6	11786.1
08	-21.30	200.00	5000.0	2.000	8377.4	6647.6	6602.9	8074.1	10796.7	11877.5
08	-21.40	200.00	5000.0	2.000	8435.2	6647.6	6632.0	8109.6	10838.2	11923.2

Capacité du pieu pour chaque combinaison en fonction de la profondeur



SUIVI PIEZOMETRIQUE - Sondage SC2

Projet : Construction d'un Eco-Village à Carrère sur la commune de Ducos



Date de début de suivi : 05/09/2023

Date de fin de suivi : 05/12/2023

Hauteur du piézomètre par rapport au TN : 0,58 m

Cote NGM du TN : 7.00 NGM

Données:

Date	Prof. niveau piézo. (m)	Cote NGM
15/09/2023	1.90	5.10
20/09/2023	1.79	5.21
24/09/2023	1.53	5.47
28/09/2023	1.22	5.78
02/10/2023	0.89	6.11
05/10/2023	0.94	6.06
10/10/2023	1.21	5.79
13/10/2023	1.49	5.51
17/10/2023	1.63	5.37
20/10/2023	1.59	5.41
25/10/2023	1.11	5.89
30/10/2023	0.85	6.15
06/11/2023	1.00	6.00
10/11/2023	1.25	5.75
15/11/2023	1.33	5.67
20/11/2023	1.29	5.71
24/11/2023	1.62	5.38
28/11/2023	1.51	5.49
05/12/2023	1.72	5.28

Eco -Village de Carrère à Ducos - Suivi piézométrique PzSC2 -
Evolution de la cote du toit de la nappe

