

Dartistech

COMPACTION TEST RESULT (ASTM D-698 , ASTM D-1557 , ASTM D-4718)



Project: Sample Project

Project No: 45453334

Client: Sample Client

Location: Sample Location

BH: BH1

Sample name: BH01/2

Sample depth(m): 2.00

USCS: CL AASHTO: A-7-6

Standard: ☒ Modified: ☒

Volume of mold (ft^3): 0.03333

Weight of hammer (lb): 5.50

Number of layers: 3

Blows/layer: 25

LL: 47.12 PI: 37.06

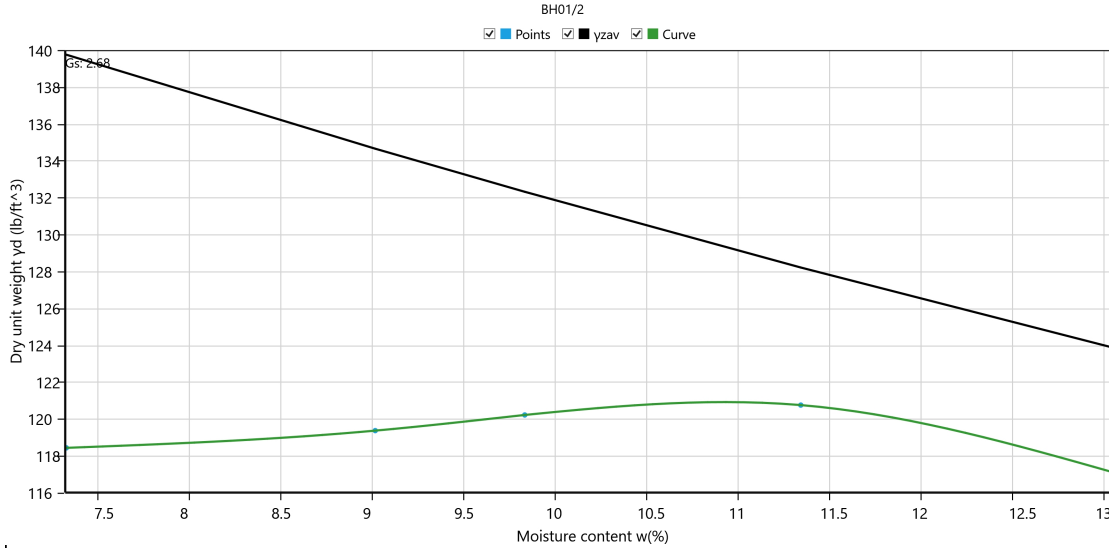
w (%): 17.23 Sp. G: 2.85

Wopt(%): 10.92

yd(max): 120.97

Tested by: Dartistech

Test date: 12/15/2022 12:00:00



Weight of mold and base plate, W1 (lb)	Weight of mold and base plate + moist soil, W2 (lb)	Weight of moist soil, (lb)	Moist unit weight, γ (lb/ft^3)	Can number	Mass of moisture can, M3 (lb)	Mass of can + moist soil, M4 (lb)	Mass of can + dry soil, M5 (lb)	Mass of moist material (oversize) (lb)	moisture content of respective oversize d (%)	Gs bulk	Gs	yzav (lb/ft3)	Moisture content, w (%)	Dry unit weight of compaction, yd (lb/ft3)
10.35	14.19	14.19	115.20	202.00	0.05	0.25	0.24	0.05	2.00	3.10	2.68	139.81	7.32	118.49
10.35	14.41	14.41	121.80	212.00	0.05	0.35	0.33	0.05	2.00	3.10	2.68	134.71	9.01	119.42
10.35	14.53	14.53	125.40	222.00	0.05	0.44	0.40	0.05	2.00	3.10	2.68	132.37	9.83	120.27
10.35	14.63	14.63	128.40	242.00	0.05	0.49	0.44	0.05	2.00	3.10	2.68	128.27	11.34	120.81
10.35	14.51	14.51	124.80	206.00	0.05	0.42	0.37	0.05	2.00	3.10	2.68	123.81	13.09	117.04

Sieve No.	Opening, (mm)	Mass retained, (g)	Mass retained, (%)	Cumulative retained, (%)	Finer, (%)
4	4.75	0.00	0.00	0.00	100.00
10	2	0.00	0.00	0.00	100.00
20	0.85	0.00	0.00	0.00	100.00
40	0.425	0.00	0.00	0.00	100.00
60	0.25	0.00	0.00	0.00	100.00
140	0.106	3.00	15.79	15.79	84.21
200	0.075	6.00	31.58	47.37	52.63
Pan	0	10.00	52.63	0.00	0.00