DCP TEST DATA

File Name: DCP/TP01

Project: *Campden Park Nemo Whouse* **Date:** 20-Oct-22

Location: Test Pit 001 **Soil Type(s):** SM-Silty sand with gravel

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Hammer
- ○ 10.1 lbs.
- ◉ 17.6 lbs.
- ○ Both hammers used

Soil Type
- ○ CH
- ○ CL
- ◉ All other soils

No. of Blows	Accumulative Penetration (mm)	Type of Hammer
0	0	1
2	30	1
6	41	1
12	85	1
4	120	1
8	155	1
8	178	1
		1
		1
		1
		1
		1
		1
		1
		1
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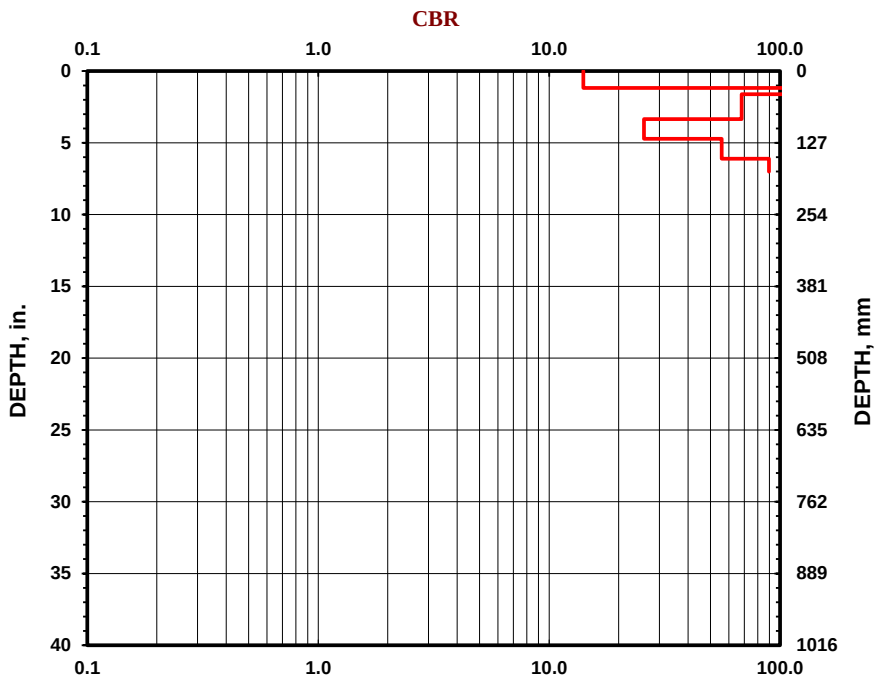
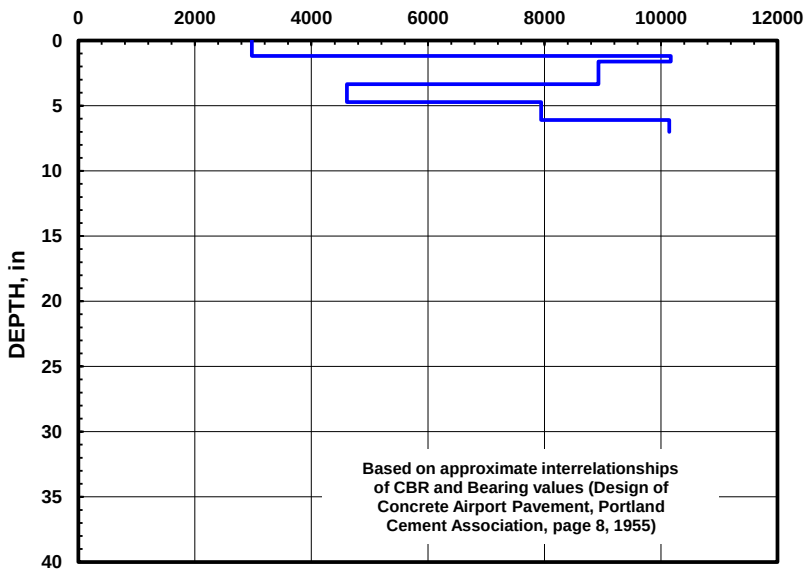
		1
		1



Depth (mm)	CBR (%)	Bearing Capacity (psf)
30	14.1	2978
41	148.1	10168
85	68.1	8928
120	25.7	4609
155	55.9	7943
178	89.5	10141



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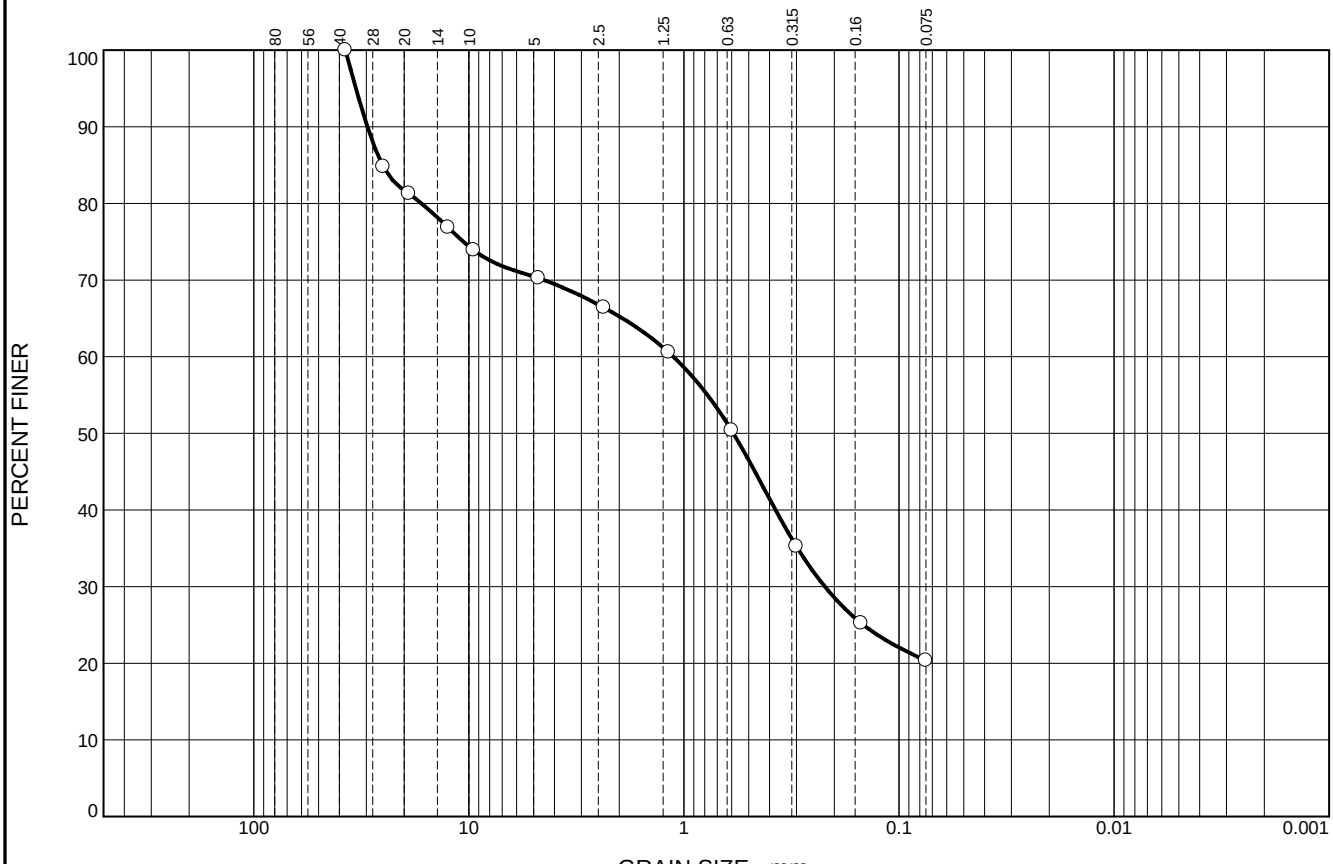
Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	18.7	11.1	4.9	22.5	22.4	20.4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	NV	NP	25.2121	1.1206	0.5890	0.2213				

MATERIAL DESCRIPTION	TEST DATE	USCS	NM
○ Brownish Silty Sand with Gravel and isolated subangular small boulders.	29/10/22	SM	16.4

Project No. **Client:** Stewart Engineering
Project: Campden Park Nemo Warehouse

○ **Location:** Test Pit 001 **Depth:** 920mm **Sample Number:** 01

Remarks:

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Figure

Tested By: S. DeYoung **Checked By:** ACS

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GRAIN SIZE DISTRIBUTION TEST DATA

11/1/2022

Client: Stewart Engineering
Project: Campden Park Nemo Warehouse
Location: Test Pit 001
Depth: 920mm **Sample Number:** 01
Material Description: Brownish Silty Sand with Gravel and isolated subangular small boulders.
Liquid Limit: NV **Plastic Limit:** NP
USCS Classification: SM **AASHTO Classification:** A-1-b
Test Date: 29/10/22
Tested by: S. DeYoung **Checked by:** ACS

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 936.60
Tare Wt. = 186.70
Minus #200 from wash = 18.9%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
1118.10	193.40	186.70	37.5	186.70	100.0
			25.0	327.20	84.8
			19.0	359.90	81.3
			12.5	400.60	76.9
			9.5	428.10	73.9
			4.75	461.80	70.2
			2.36	497.30	66.4
			1.18	551.20	60.6
			0.600	645.60	50.4
			0.300	785.40	35.3
			0.150	878.00	25.2
			0.075	923.20	20.4

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	18.7	11.1	29.8	4.9	22.5	22.4	49.8			20.4

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
				0.2213	0.3750	0.5890	1.1206	16.6254	25.2121	29.6258	33.5043

Fineness Modulus
3.37

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