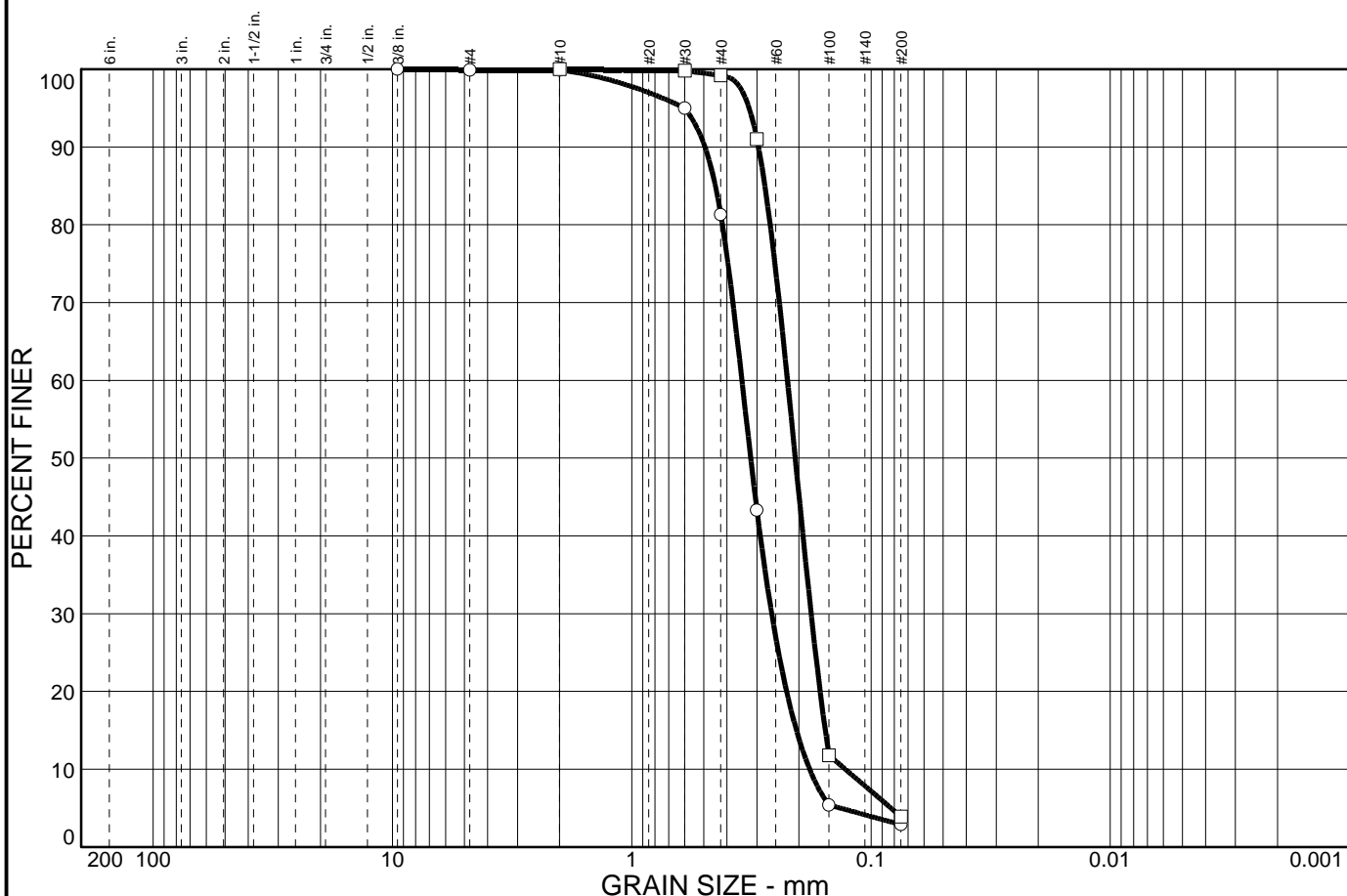


APPENDIX C

Particle Size Distribution Report

Particle Size Distribution Report



	% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY	USCS	AASHTO	PL	LL
○		0.1	97.0		2.9				
□			96.1		3.9	SP			

SIEVE inches size	PERCENT FINER	
	○	□
3/8"	100.0	
GRAIN SIZE		
D ₆₀	0.347	0.224
D ₃₀	0.260	0.178
D ₁₀	0.181	0.128
COEFFICIENTS		
C _c	1.08	1.11
C _u	1.92	1.75

SIEVE number size	PERCENT FINER	
	○	□
#4	99.9	
#10	99.9	100.0
#30	95.0	99.8
#40	81.3	99.2
#50	43.3	91.0
#100	5.4	11.8
#200	2.9	3.9

SOIL DESCRIPTION

○ Olive Poorly Graded SAND

□ Olive Poorly Graded SAND

REMARKS:

○

□

○ Source: BSC-1
 □ Source: SZC-1



**Constant Head Permeability Test
ASTM D2434**

CTL Job No: 461-300 **Boring:** SZC-1 **Date:** 7/30/2015
Client: Geosyntec Consultants **Sample:** _____ **By:** PJ
Project Name: West Basin Coastal Subsurface Intake Feasibility Study **Depth, ft:** _____
Project No.: _____
Soil Description: Olive Poorly Graded SAND
Remolding Data: 6 lifts tamped in with moderate effort

Constant Head Calculation, K=QL/thA						
Test #	Elapsed Time t, (sec)	Volume Q, (cc)	Head Loss h (cm)	Water Temp (°C)	Hydraulic Gradient	Coef. Of Permeability K, (cm/sec)
1	115	23	2.5	24.6	0.39	0.016
2	85	18	2.5	24.6	0.39	0.016
3	120	33	3.3	24.6	0.52	0.016
4	80	26	3.9	24.6	0.61	0.016
5	160	67	4.9	24.6	0.77	0.017

Average Permeability (cm/sec):						0.02
Average Permeability (in/hr):						23

Sample Data:		Initial	Final
Height, (L)	in.:	6.00	5.88
Diameter,	in.:	2.39	2.39
Area, (A)	in ² :	4.49	4.49
Volume,	in ³ :	26.92	26.38
Total Volume.	cc:	441	432
Vol. of Solids,	cc:	243	243
Vol. of Voids,	cc:	198	190
Void Ratio	e:	0.82	0.78
Porosity,	%:	45.0	43.9
Saturation,	%:	58.4	100.0 assumed
Sp. Gravity:		2.65 assumed	2.65 assumed
Wet Weight,	gm:	758.9	832.7
Dry Weight	gm:	643.1	643.1
Moisture,	%:	18.0	29.5
Density,	pcf:	91.0	92.9

Remarks: The final moisture content was calculated to force 100% saturation. All final numbers dependant on the moisture content should be considered approximate.