MASA FUJIOKA AND ASSOCIATES

SIEVE TEST ANALYSIS

SAMPLE #: LCRS-05

Project: Waimanalo Gulch
Location: Ko Olina
Soil Desc.: Well graded gravel w/ silt
USCS: GW-GM

Job #: 10239-011
Depth: n/a
Tested By: BT
Test Date: 7.16.10

Weight of Sample+Tare (g): 1005.5
Weight Tare (g): 14
Weight of Water (g): 0
Percent Water: 0%
Total Dry Sample Weight (g): 1005.5

Screen Size #	1 1/2	3/4	4	10	40	60	100	200
in mm	37.5	19	4.75	2	0.425	0.25	0.15	0.075
Sieve Weight (g)	508	497.8	471.6	426.6	352.4	320.7	351.5	297.1
Wt. Sieve + Soil (g)	508	945.7	886	456.1	374.4	326.1	357	303.3
Soil on Sieve (g)	0	447.9	414.4	29.5	22	5.4	5.5	6.2
% Stopped at Filter	0	45.174	41.7953	2.97529	2.21886	0.54463	0.554715	0.62532
% Passing Filter	**100**	**54.826**	**13.0308**	**10.0555**	**7.83661**	**7.29198**	**6.737267**	**6.11195**

* #200 seive wet seived

Performed for:	AE Com			Location:	KoOlina
Project:	Waimanalo Gulch			Job No.: 239-011	
Sample:	LCRS-05			Constant Head Test	
Performed by:	BT			Date of test:	7.19.10
wt of mold =	10.60	lbs.			
wt of mold+soil =	12.85	lbs.			
diameter =	4	inches -->	10.16	cm	
area =	81.07	sq. cm			
length =	4.563	inches -->	11.59	cm	
volume =	939.64	cu. cm			
mass soil =	2.25	lbs. -->	1020.58	g	
		sq. cm			
% Void	35.00	Dry Density -->	1.09	g/cu. cm	
% over 3/4" removed	0.00				

Trial Number	1	2	3	4	5	6
elapsed time (sec)	5	10	20	30	45	60
Water Volume (mL)	142	259	510	724	1037	1343
Δh of water (cm)	96.52	96.52	96.52	96.52	96.52	96.52
temp (deg C)	25	25	25	25	25	25
unit wt. of water	0.9970	0.9970	0.9970	0.9970	0.9970	0.9970
viscosity of water	9.045	9.045	9.045	9.045	9.045	9.045
coefficient of permeability	2.524E+00	2.302E+00	2.266E+00	2.145E+00	2.048E+00	1.989E+00

average	**2.21E+00**	**cm/s**

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PERMEABILITY CONSTANT HEAD

GRAIN SIZE ANALYSIS

Project: AE Com-Waimanalo Gulch Landfill
Sample: LCRS-05
Job No.: 10239-011
Depth: n/a
Location:n/a

Soil Classification: Well graded gravel w/ silt

UCSC: GW-GM

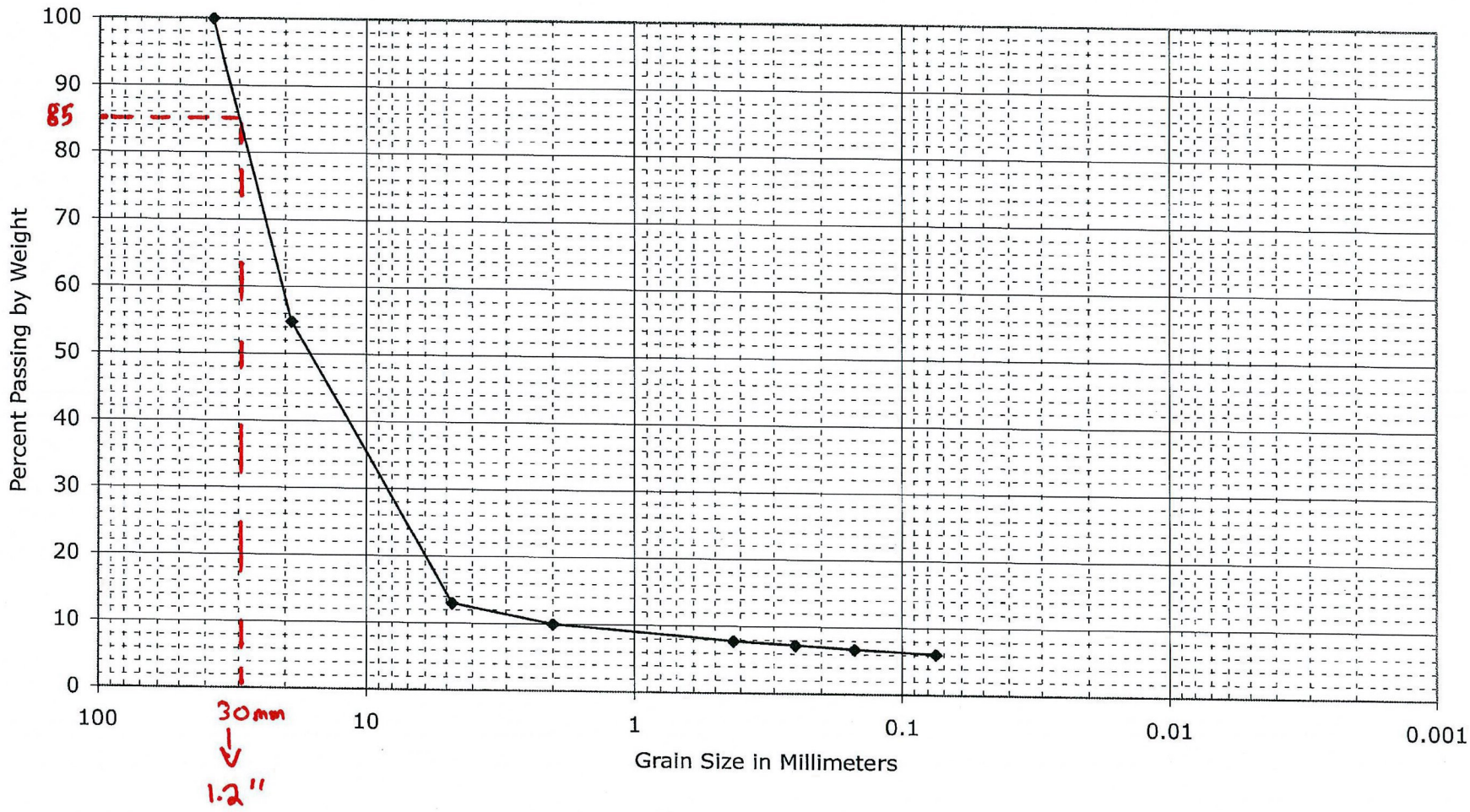

Figure:

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