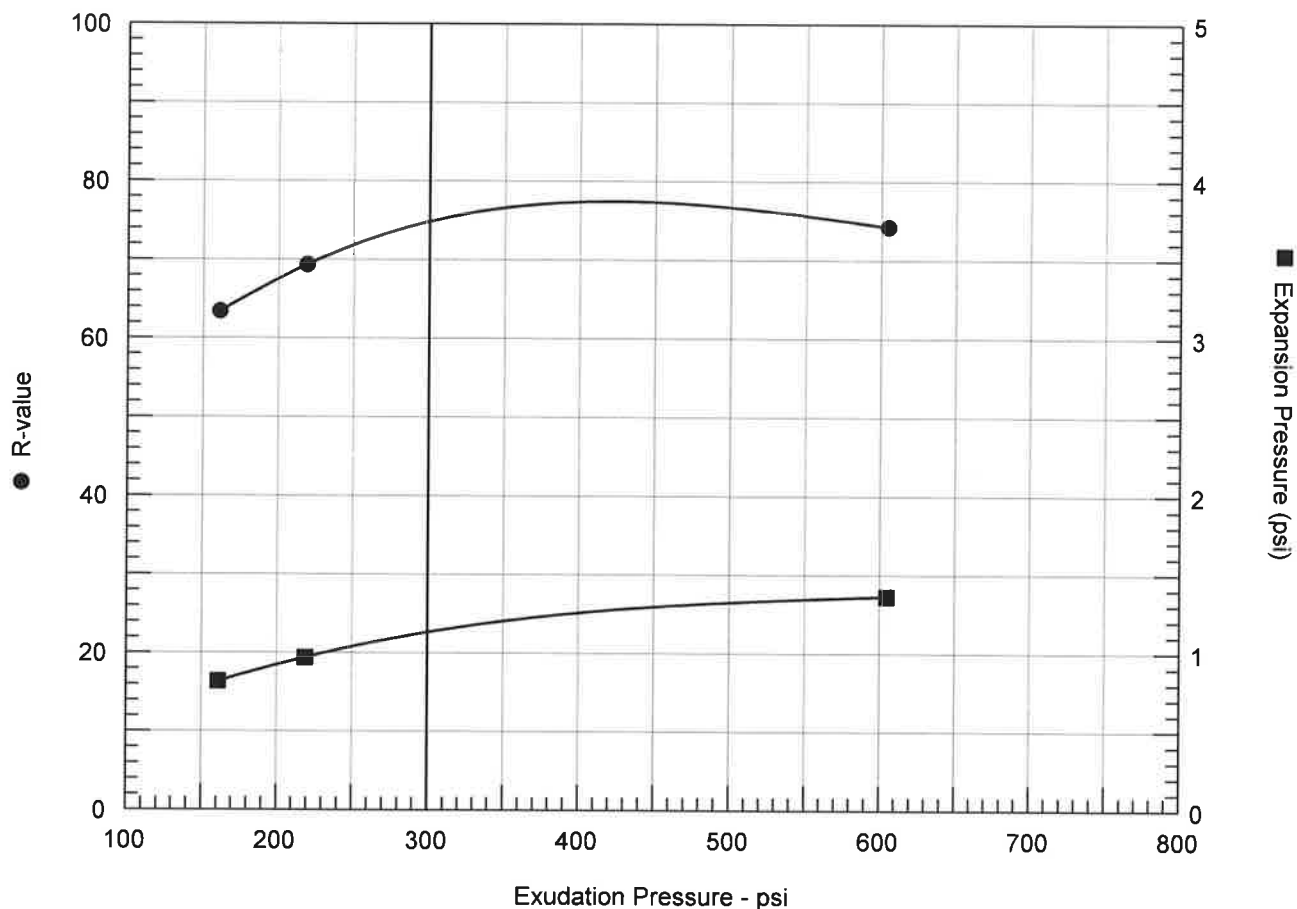


R-VALUE TEST REPORT

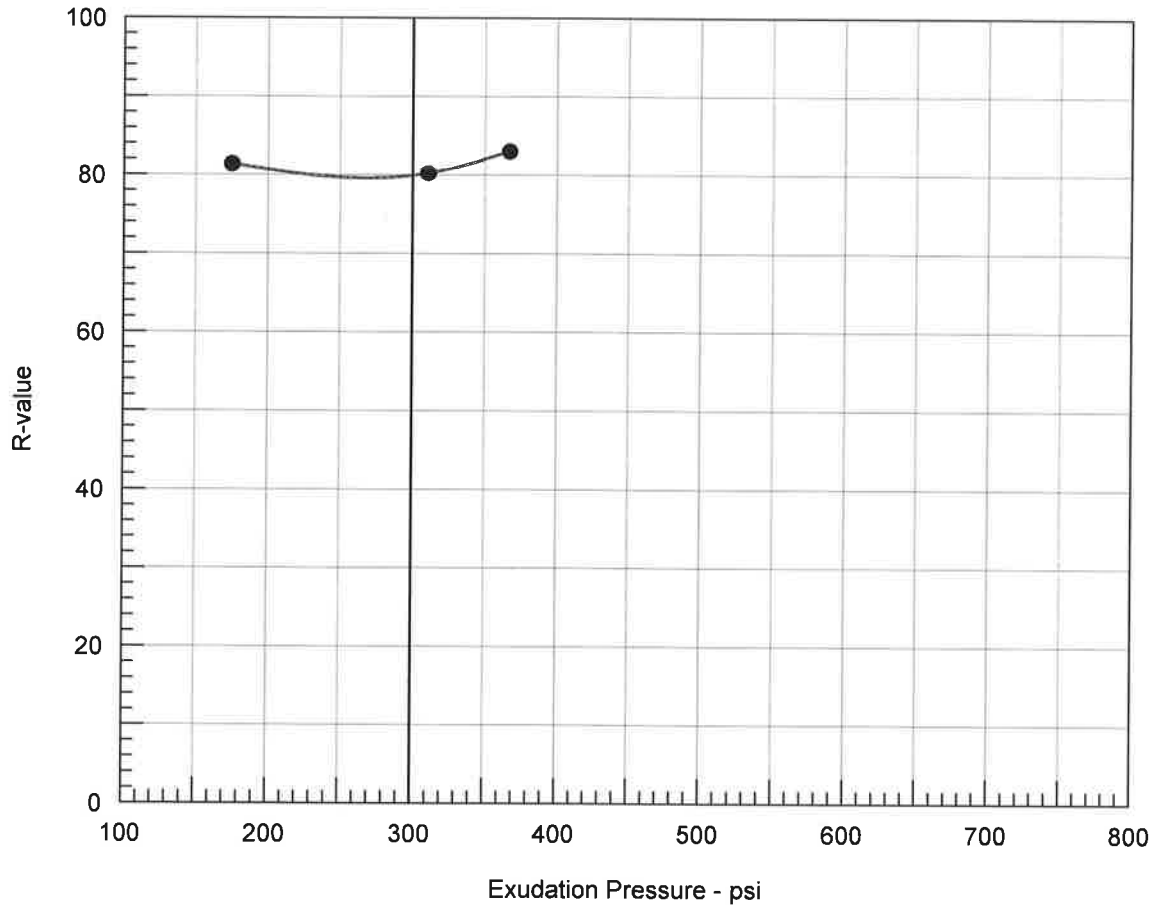


Resistance R-Value and Expansion Pressure - ASTM D2844

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	106.7	16.5	1.36	25	2.49	605	74.3	74.3
2	350	105.6	19.1	0.82	35	2.51	161	63.4	63.4
3	350	105.9	18.2	0.97	29	2.50	219	69.4	69.4

Test Results	Material Description
R-value at 300 psi exudation pressure = 74.8 Exp. pressure at 300 psi exudation pressure = 1.13 psi	Very Dark Brown Sandy Silt some Gravel & Clay
Project No.: 27909 Project: Kaaau-Pahoa Road Improvements - Route 130 Location: B-6 Sample Number: 8948-1 Date: 10/19/2018	Tested by: D. Nisbeth Checked by: O. El-Fiky Remarks: W.O. 18-6213
SIGNET Testing Labs	Plate B1

R-VALUE TEST REPORT

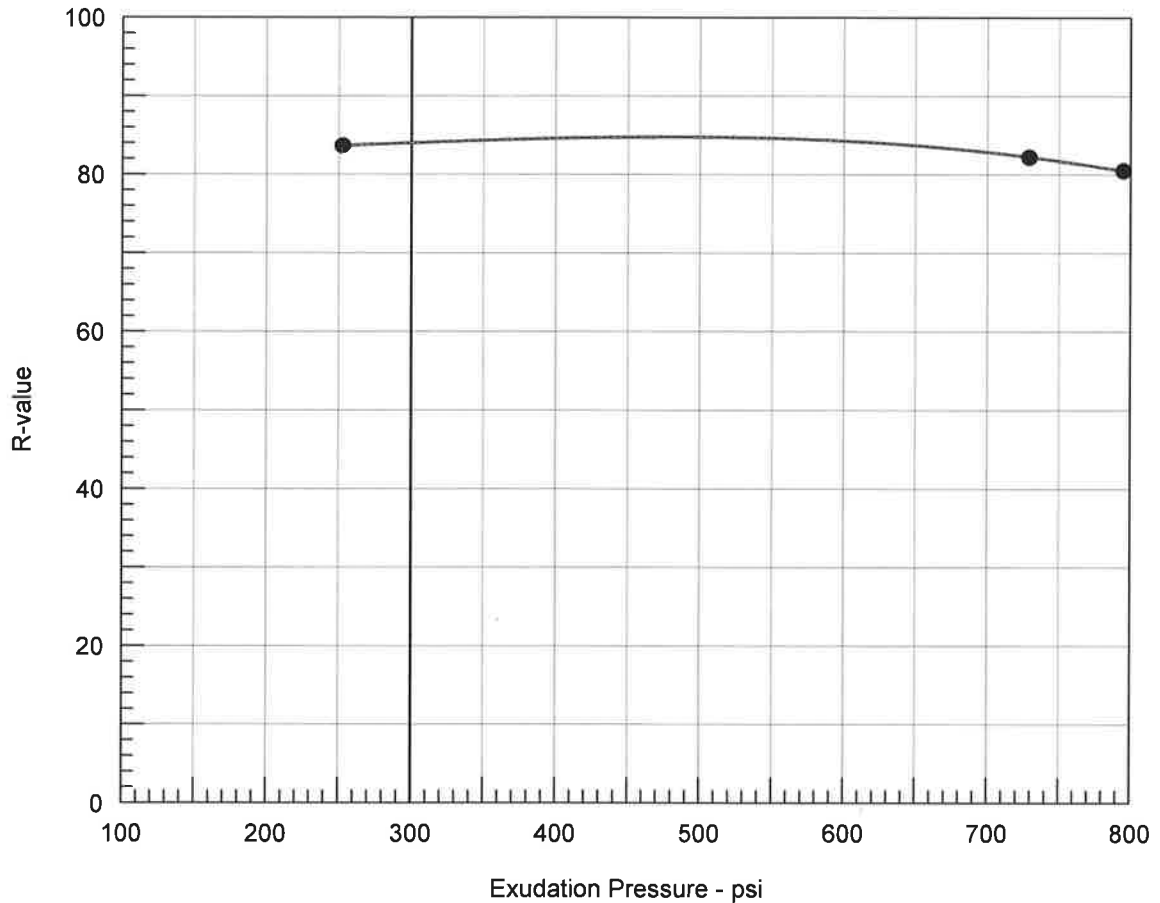


Resistance R-Value and Expansion Pressure - ASTM D2844

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	129.4	9.6	0.00	15	2.54	367	83.0	83.0
2	350	128.2	10.0	0.00	17	2.53	175	81.4	81.4
3	350	127.9	9.2	0.00	19	2.45	311	80.2	80.2

Test Results	Material Description
R-value at 300 psi exudation pressure = 79.9	Dar Brown Gravelly (Lava Rock) Sand some Silt
Project No.: 27909 Project: Keaau-Pahoa Road Improvements - Route 130 Location: B-10 Sample Number: 8948-2 Date: 10/19/2018	Tested by: D. Nisbeth Checked by: O. El-Fiky Remarks: W.O. 18-6213
	Plate B2

R-VALUE TEST REPORT



Resistance R-Value and Expansion Pressure - ASTM D2844

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	120.7	8.1	0.00	15	2.40	795	81.7	80.5
2	350	122.0	9.4	0.00	14	2.50	253	83.7	83.7
3	350	118.9	8.7	0.00	16	2.48	729	82.2	82.2

Test Results	Material Description
R-value at 300 psi exudation pressure = 84.0	Dark Brown Gravelly (Lava Rock) Sand some Silt
Project No.: 27909 Project: Keaau-Pahoa Road Improvements - Route 130 Location: B-15 Sample Number: 8948-3 Date: 10/17/2018	Tested by: D. Nisbeth Checked by: O. El-Fiky Remarks: W.O. 18-6213 Coarse Lava Rock In This Sample
	Plate B3