



**Cole Garner Geotechnical**  
 1070 West 124th Ave  
 Suite 300  
 Westminster, CO 80234  
 Phone: 303.996.2999

# Soil Nuclear Gauge

**Report Date:** 4/8/2021  
**Test Method:** ASTM D 6938

**Client:**

KB Home Colorado Inc.  
 7807 East Peakview Avenue, Suite 300  
 Centennial, CO 80111

**Project:**

19.23.042  
 Trails at Crowfoot  
 Crowfoot Valley Road and Bayou Gulch Road  
 Parker, CO

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min/Max Comp. (%)	Remark
1022		4/1/21	5717	C	A-1	11.4	118.5	11.5	116.5	129.9	6	98	95 /	Pass
1023		4/1/21	5717	C	A-1	11.4	118.5	11.4	112.1	124.9	6	95	95 /	Pass
1024		4/1/21	5717	C	A-1	11.4	118.5	11.6	112.7	125.8	6	95	95 /	Pass
1025		4/1/21	5717	C	A-1	11.4	118.5	11.7	118.6	132.5	6	100	95 /	Pass
1026		4/1/21	5717	C	A-1	11.4	118.5	11.5	112.1	125.0	6	95	95 /	Pass
1027		4/1/21	5717	C	A-1	11.4	118.5	11.6	114.7	128.0	6	97	95 /	Pass
1028		4/1/21	5717	C	A-1	11.4	118.5	12.0	112.0	125.4	6	95	95 /	Pass
1029		4/1/21	5717	C	A-1	11.4	118.5	12.1	120.2	134.7	6	101	95 /	Pass

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1022	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location NB at station: 9+25	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1023	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location SB at station: 9+25	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1024	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location NB at station: 10+75	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1025	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location SB at station: 10+75	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1026	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location NB at station: 12+50	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1027	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location SB at station: 12+50	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1028	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location NB at station: 13+75	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1029	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location SB at station: 13+75	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells

Remarks	Comments
<b>Pass:</b> Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call base. The test elevations and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary comparative effort and moisture conditioning to meet the project specifications.



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1030		4/1/21	5717	C	A-1	11.4	118.5	12.6	112.2	126.3	6	95	95 /	Pass
1031		4/1/21	5717	C	A-1	11.4	118.5	11.5	114.7	127.9	6	97	95 /	Pass
1032		4/1/21	5717	C	A-1	11.4	118.5	11.9	112.6	126.0	6	95	95 /	Pass
1033		4/1/21	5717	C	A-1	11.4	118.5	11.6	113.6	126.8	6	96	95 /	Pass
1034		4/1/21	5191		A-6	14.6	115.0	16.0	112.8	130.8	6	98	95 /	Pass
1035		4/1/21	5191		A-6	14.6	115.0	14.8	118.5	136.0	6	103	95 /	Pass
1038		3/31/21	5122	A	A-2	7.9	125.1	6.2	130.6	138.7	8	104	95 / 105	Pass
1039		3/31/21	5122	A	A-2	7.9	125.1	7.7	121.9	131.3	8	97	95 / 105	Pass

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1030	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location NB at station: 15+25	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1031	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location SB at station: 15+25	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1032	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location NB at station: 16+25	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1033	21 - Base Course: Curb & Gutter: Red Cosmos St. From stations; 8+50 - 17+25 / test location SB at station: 16+25	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1034	21 - Pavement Subgrade: Crossspan at intersection of Red Cosmos St. And Shasta Daisy/ test location on the S end of pan	0.0	Subgrade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1035	21 - Pavement Subgrade: Crossspan at intersection of Red Cosmos St. And Shasta Daisy/ test location on the N end of pan	0.0	Subgrade	Instrotek / Explorer 3500 / 1900 / 5/2/2020	Dorian Wells
1038	21 - Base Course: Pavement: Rose Heath Ln , tested EB 10+50	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1986 / 6/6/2019	Daniel Ruybal
1039	21 - Base Course: Pavement: Rose Heath Ln , tested EB 11+30	0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1986 / 6/6/2019	Daniel Ruybal

Remarks	Comments
<b>Pass:</b> Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call base. The test elevations and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary comparative effort and moisture conditioning to meet the project specifications.



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1040		3/31/21	4532	A	A-7	17.3	107.0	18.4	102.3	121.1	8	96	95 / 105	Pass
1041		3/31/21	5122	A	A-2	7.9	125.1	9.1	118.5	129.3	8	95	95 / 105	Pass
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
1040	21 - Pavement Subgrade: Rose Heath Ln , tested WB @ 11+50						0.0	Subgrade	Instrotek / Explorer 3500 / 1986 / 6/6/2019			Daniel Ruybal		
1041	21 - Concrete Paving: Rose Heath Ln , tested WB 10+60						0.0	Rough Final Grade	Instrotek / Explorer 3500 / 1986 / 6/6/2019			Daniel Ruybal		
Remarks					Comments									
Pass: Density Pass / Moisture Pass					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.									

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