



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

Soil Nuclear Gauge

Report Date: 9/9/2020
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 Comp. (%)	Remark
361		9/12/19	4514	A	A-2	13.3	118.3	15.1	112.2	129.1	8	95	95	DP/MP
362		9/12/19	4514	A	A-2	13.3	118.3	13.6	112.5	127.8	8	95	95	DP/MP
363		9/12/19	4514	A	A-2	13.3	118.3	13.4	113.0	128.1	8	96	95	DP/MP
364		9/12/19	4514	A	A-2	13.3	118.3	13.6	112.9	128.2	8	95	95	DP/MP
365		9/12/19	4514	A	A-2	13.3	118.3	15.0	113.1	130.1	8	96	95	DP/MP
366		9/12/19	5121	A	A-6	13.2	115.8	15.1	110.3	126.9	8	95	95	DP/MP
367		9/12/19	4532	A	A-7	17.3	107.0	18.3	101.3	119.8	8	95	95	DP/MP
368		9/12/19	4512	A	A-7	20.8	103.0	21.1	99.3	120.3	8	96	95	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
361	23 - Utility Backfill - Sanitary Sewer: MH-25 to MH-22 Mock Orange Ave Staions: 12+85.69 to 10+95. Test: Mock Orange Ave Staions: 13+30	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
362	23 - Utility Backfill - Sanitary Sewer: MH-25 to MH-22 Mock Orange Ave Staions: 12+85.69 to 10+95. Test: Mock Orange Ave Staions: 13+35	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
363	23 - Utility Backfill - Sanitary Sewer: MH-25 to MH-22 Mock Orange Ave Staions: 12+85.69 to 10+95. Test: Mock Orange Ave Staions: 13+40	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
364	23 - Utility Backfill - Sanitary Sewer: MH-25 to MH-22 Mock Orange Ave Staions: 12+85.69 to 10+95. Test: Mock Orange Ave Staions: 13+45	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
365	23 - Utility Backfill - Sanitary Sewer: MH-25 to MH-22 Mock Orange Ave Staions: 12+85.69 to 10+95. Test: Mock Orange Ave Staions: 13+55	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
366	23 - Utility Backfill - Sanitary Sewer: MH-25 to MH-22 Mock Orange Ave Staions: 12+85.69 to 10+95. Test: Mock Orange Ave Staions: 13+60	0.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
367	23 - Utility Backfill - Sanitary Sewer: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+08.11 to 11+54.20. Test: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+15	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
368	23 - Utility Backfill - Sanitary Sewer: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+08.11 to 11+54.20. Test: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+17	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez



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

Remarks	Comments
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369		9/12/19	4532	A	A-7	17.3	107.0	18.3	105.2	124.4	8	98	95	DP/MP
370		9/12/19	5121	A	A-6	13.2	115.8	15.0	109.9	126.4	8	95	95	DP/MP
371		9/12/19	4514	A	A-2	13.3	118.3	14.4	111.8	127.9	8	95	95	DP/MP
372		9/12/19	4514	A	A-2	13.3	118.3	14.1	112.2	128.0	8	95	95	DP/MP
373		9/16/19	5121	A	A-6	13.2	115.8	15.2	109.6	126.3	8	95	95	DP/MP
374		9/16/19	4532	A	A-7	17.3	107.0	18.6	105.4	125.0	8	99	95	DP/MP
375		9/16/19	5121	A	A-6	13.2	115.8	15.1	114.7	132.0	8	99	95	DP/MP
376		9/16/19	4532	A	A-7	17.3	107.0	18.7	104.7	124.3	8	98	95	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
369	23 - Utility Backfill - Sanitary Sewer: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+08.11 to 11+54.20. Test: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+19	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
370	23 - Utility Backfill - Sanitary Sewer: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+08.11 to 11+54.20. Test: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+21	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
371	23 - Utility Backfill - Sanitary Sewer: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+08.11 to 11+54.20. Test: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+23	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
372	23 - Utility Backfill - Sanitary Sewer: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+08.11 to 11+54.20. Test: MH-24 to MH-23, Filing 15 SS Northeast Stations: 11+30	0.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
373	23 - Utility Backfill - Sanitary Sewer: MH-22 to MH-31 Mock Orange Ave Staions: 11+00 to 10+10. Test: Mock Orange Ave Staions: 10+40	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
374	23 - Utility Backfill - Sanitary Sewer: MH-22 to MH-31 Mock Orange Ave Staions: 11+00 to 10+10. Test: Mock Orange Ave Staions: 10+42	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
375	23 - Utility Backfill - Sanitary Sewer: MH-22 to MH-31 Mock Orange Ave Staions: 11+00 to 10+10. Test: Mock Orange Ave Staions: 10+42	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
376	23 - Utility Backfill - Sanitary Sewer: MH-22 to MH-31 Mock Orange Ave Staions: 11+00 to 10+10. Test: Mock Orange Ave Staions: 10+50	-0.5	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez



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377		9/16/19	5121	A	A-6	13.2	115.8	15.2	110.0	126.7	8	95	95	DP/MP
378		9/16/19	5121	A	A-6	13.2	115.8	14.2	113.7	129.8	8	98	95	DP/MP
379		9/16/19	5121	A	A-6	13.2	115.8	15.0	111.1	127.8	8	96	95	DP/MP
380		9/16/19	5121	A	A-6	13.2	115.8	14.2	111.1	126.9	8	96	95	DP/MP
381		9/16/19	5121	A	A-6	13.2	115.8	15.1	112.3	129.2	8	97	95	DP/MP
382		9/16/19	5121	A	A-6	13.2	115.8	14.4	109.9	125.7	8	95	95	DP/MP
383		9/16/19	5121	A	A-6	13.2	115.8	14.3	111.0	126.9	8	96	95	DP/MP
384		9/16/19	5121	A	A-6	13.2	115.8	15.2	113.7	131.0	8	98	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
377	23 - Utility Backfill - Sanitary Sewer: Service to Block 2 Lot 2 South of MH-22 Mock Orange Station: 11+00	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
378	23 - Utility Backfill - Sanitary Sewer: Service to Block 2 Lot 2 South of MH-22 Mock Orange Station: 11+00	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
379	23 - Utility Backfill - Sanitary Sewer: Service to Block 2 Lot 2 South of MH-22 Mock Orange Station: 11+00	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
380	23 - Utility Backfill - Sanitary Sewer: Service to Block 2 Lot 2 South of MH-22 Mock Orange Station: 11+00	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
381	23 - Utility Backfill - Sanitary Sewer: Service to Block 1 Lot 25 West of MH-24	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
382	23 - Utility Backfill - Sanitary Sewer: Service to Block 1 Lot 25 West of MH-24	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
383	23 - Utility Backfill - Sanitary Sewer: Service to Block 1 Lot 25 West of MH-24	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
384	23 - Utility Backfill - Sanitary Sewer: Service to Block 1 Lot 25 West of MH-24	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

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385		9/18/19	5121	A	A-6	13.2	115.8	15.2	110.9	127.8	8	96	95	DP/MP
386		9/18/19	5121	A	A-6	13.2	115.8	14.7	109.8	125.9	8	95	95	DP/MP
387		9/18/19	4559	A	A-7	17.0	110.2	17.9	107.5	126.8	8	98	95	DP/MP
388		9/18/19	4559	A	A-7	17.0	110.2	17.0	108.3	126.7	8	98	95	DP/MP
389		9/18/19	5121	A	A-6	13.2	115.8	13.6	109.7	124.6	8	95	95	DP/MP
390		9/18/19	4559	A	A-7	17.0	110.2	17.0	109.0	127.5	8	99	95	DP/MP
391		9/18/19	4559	A	A-7	17.0	110.2	17.9	109.8	129.4	8	100	95	DP/MP
392		9/18/19	4559	A	A-7	17.0	110.2	17.8	107.5	126.6	8	98	95	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
385	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS WEST-EAST 9+75 to 11+50: From MH-12 (10+00) to MH-30 (11+05) Test: Filing 15 SS WEST-EAST Station: 10+40	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
386	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS WEST-EAST 9+75 to 11+50: From MH-12 (10+00) to MH-30 (11+05) Test: Filing 15 SS WEST-EAST Station: 10+45	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
387	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS WEST-EAST 9+75 to 11+50: From MH-12 (10+00) to MH-30 (11+05) Test: Filing 15 SS WEST-EAST Station: 10+50	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
388	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS WEST-EAST 9+75 to 11+50: From MH-12 (10+00) to MH-30 (11+05) Test: Filing 15 SS WEST-EAST Station: 10+55	-0.5	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
389	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-24 (11+08.11) Test: South Side of MH-24 STA: 11+06	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
390	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-24 (11+08.11) Test: South Side of MH-24 STA: 11+06	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
391	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-24 (11+08.11) Test: South Side of MH-24 STA: 11+06	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
392	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-24 (11+08.11) Test: South Side of MH-24 STA: 11+06	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez



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393		9/18/19	4559	A	A-7	17.0	110.2	17.0	107.5	125.8	8	98	95	DP/MP
394		9/18/19	4559	A	A-7	17.0	110.2	17.1	104.2	122.0	8	95	95	DP/MP
395		9/18/19	4559	A	A-7	17.0	110.2	17.4	105.5	123.8	8	96	95	DP/MP
396		9/18/19	4559	A	A-7	17.0	110.2	17.6	107.1	125.9	8	97	95	DP/MP
397		9/18/19	4559	A	A-7	17.0	110.2	17.0	105.5	123.4	8	96	95	DP/MP
398		9/18/19	4559	A	A-7	17.0	110.2	17.0	109.1	127.7	8	99	95	DP/MP
399		9/20/19	4559	A	A-7	17.0	110.2	17.5	104.6	122.9	8	95	95	DP/MP
400		9/20/19	5121	A	A-6	13.2	115.8	13.6	112.0	127.2	8	97	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
393	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-24 (11+08.11) Test: South Side of MH-24 STA: 11+06	0.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
394	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-23 (11+54.29) Test: North Side of MH-23 STA: 11+56	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
395	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-23 (11+54.29) Test: North Side of MH-23 STA: 11+56	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
396	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-23 (11+54.29) Test: North Side of MH-23 STA: 11+56	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
397	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-23 (11+54.29) Test: North Side of MH-23 STA: 11+56	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
398	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS NORTH EAST STA: 9+50 to 12+00: BACK-FILL for MH-23 (11+54.29) Test: North Side of MH-23 STA: 11+56	-0.5	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
399	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Back-fill For MH-22 (10+00), 5' South	-9.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
400	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Back-fill For MH-22 (10+00), 5' South	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez



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401		9/20/19	5121	A	A-6	13.2	115.8	14.3	110.1	125.8	8	95	95	DP/MP
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated				Field Technician	
401	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Back-fill For MH-22 (10+00), 10' South						-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019				Rob Lopez	
Remarks						Comments								
DP/MP: 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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403		9/20/19	5121	A	A-6	13.2	115.8	15.2	111.5	128.5	8	96	95	DP/MP
404		9/20/19	4559	A	A-7	17.0	110.2	17.1	105.7	123.8	8	96	95	DP/MP
405		9/20/19	5121	A	A-6	13.2	115.8	13.9	109.7	124.9	8	95	95	DP/MP
406		9/20/19	5121	A	A-6	13.2	115.8	15.2	110.9	127.7	8	96	95	DP/MP
407		9/20/19	5121	A	A-6	13.2	115.8	13.8	110.0	125.2	8	95	95	DP/MP
408		9/20/19	5121	A	A-6	13.2	115.8	14.6	115.8	132.7	8	100	95	DP/MP
409		9/20/19	5121	A	A-6	13.2	115.8	13.9	110.8	126.2	8	96	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
402	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Back-fill For MH-22 (10+00), 10' South	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
403	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Back-fill For MH-22 (10+00), 10' South	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
404	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: SS Line Filing 15 SS North Station: 10+50	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
405	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: SS Line Filing 15 SS North Station: 10+50	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
406	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: SS Line Filing 15 SS North Station: 10+50	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
407	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Service to Block 1 Lot 24	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
408	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Service to Block 1 Lot 24	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
409	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Service to Block 1 Lot 22	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez



Cole Garner Geotechnical
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Westminister, CO 80234
Phone: 303.996.2999

Soil Nuclear Gauge

Report Date: 9/9/2020
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

Remarks	Comments
DP/MP: 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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 Crowfoot Valley Road and Bayou Gulch Road
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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 Comp. (%)	Remark
410		9/20/19	5121	A	A-6	13.2	115.8	13.6	114.5	130.1	8	99	95	DP/MP
411		9/20/19	5121	A	A-6	13.2	115.8	14.0	112.0	127.7	8	97	95	DP/MP
412		9/23/19	5121	A	A-6	13.2	115.8	15.0	113.4	130.4	8	98	95	DP/MP
413		9/23/19	5121	A	A-6	13.2	115.8	13.2	115.5	130.7	8	100	95	DP/MP
414		9/23/19	5121	A	A-6	13.2	115.8	15.2	113.7	131.0	8	98	95	DP/MP
415		9/23/19	5121	A	A-6	13.2	115.8	14.2	111.6	127.5	8	96	95	DP/MP
416		9/23/19	5121	A	A-6	13.2	115.8	15.2	110.1	126.8	8	95	95	DP/MP
417		9/23/19	5121	A	A-6	13.2	115.8	15.0	110.1	126.6	8	95	95	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
410	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Service to Block 1 Lot 22	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
411	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North Stations: 10+00.00 to 10+84.00 (MH-22 to MH-14). Test: Service to Block 1 Lot 22	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
412	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-31 Rock Daisy St. Station: 11+06, 5' South	-12.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
413	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-31 Rock Daisy St. Station: 11+06, 5' South	-11.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
414	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-31 Rock Daisy St. Station: 11+06, 5' South	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
415	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-31 Rock Daisy St. Station: 11+06, 5' South	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
416	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-31 Rock Daisy St. Station: 11+06, 5' West	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
417	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-31 Rock Daisy St. Station: 11+06, 5' West	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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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Soil Nuclear Gauge

Report Date: 9/9/2020
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 Comp. (%)	Remark
418		9/23/19	5121	A	A-6	13.2	115.8	15.2	112.2	129.3	8	97	95	DP/MP
419		9/23/19	5121	A	A-6	13.2	115.8	14.7	113.0	129.6	8	98	95	DP/MP
420		9/23/19	5121	A	A-6	13.2	115.8	14.8	114.2	131.1	8	99	95	DP/MP
421		9/23/19	5121	A	A-6	13.2	115.8	13.5	109.9	124.7	8	95	95	DP/MP
422		9/23/19	5121	A	A-6	13.2	115.8	14.2	113.0	129.0	8	98	95	DP/MP
423		9/23/19	5121	A	A-6	13.2	115.8	13.5	114.4	129.9	8	99	95	DP/MP
424		9/23/19	5121	A	A-6	13.2	115.8	15.2	113.1	130.3	8	98	95	DP/MP
425		9/23/19	5121	A	A-6	13.2	115.8	14.1	116.0	132.3	8	100	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
418	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-31 Rock Daisy St. Station: 11+06, 5' West	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
419	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-30 Rock Daisy St. Station: 11+43, 5' North	-11.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
420	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-30 Rock Daisy St. Station: 11+43, 5' North	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
421	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-30 Rock Daisy St. Station: 11+43, 5' North	-9.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
422	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-30 Rock Daisy St. Station: 11+43, 5' North	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
423	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-30 Rock Daisy St. Station: 11+43, 5' North	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
424	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-30 Rock Daisy St. Station: 11+43, 5' E	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
425	23 - Utility Backfill - Sanitary Sewer: Rock Daisy St. STA: 11+00 to 12+00. Test- Back-fill for MH-30 Rock Daisy St. Station: 11+43, 5' E	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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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Soil Nuclear Gauge

Report Date: 9/9/2020
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 Comp. (%)	Remark
426		9/24/19	5121	A	A-6	13.2	115.8	14.8	112.0	128.6	8	97	95	DP/MP
427		9/24/19	5121	A	A-6	13.2	115.8	15.1	114.0	131.2	8	98	95	DP/MP
428		9/24/19	5121	A	A-6	13.2	115.8	14.7	112.3	128.8	8	97	95	DP/MP
429		9/24/19	5121	A	A-6	13.2	115.8	13.4	109.6	124.3	8	95	95	DP/MP
430		9/24/19	5121	A	A-6	13.2	115.8	13.2	109.7	124.2	8	95	95	DP/MP
431		9/24/19	5121	A	A-6	13.2	115.8	13.6	113.0	128.4	8	98	95	DP/MP
432		9/24/19	5121	A	A-6	13.2	115.8	13.3	113.6	128.7	8	98	95	DP/MP
433		9/24/19	5121	A	A-6	13.2	115.8	14.3	114.8	131.2	8	99	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
426	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Back-fill for MH-14 Filing 15 SS North Station: 10+84, 5' South	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
427	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Back-fill for MH-14 Filing 15 SS North Station: 10+84, 5' South	-9.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
428	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Back-fill for MH-14 Filing 15 SS North Station: 10+84, 5' South	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
429	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Back-fill for MH-14 Filing 15 SS North Station: 10+84, 5' South	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
430	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Back-fill for MH-14 Filing 15 SS North Station: 10+84, 5' East	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
431	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Back-fill for MH-14 Filing 15 SS North Station: 10+84, 5' East	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
432	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Back-fill for MH-14 Filing 15 SS North Station: 10+84, 5' East	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
433	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Service to Block 1 Lot 21	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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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 Phone: 303.996.2999

Soil Nuclear Gauge

Report Date: 9/9/2020
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 Comp. (%)	Remark
434		9/24/19	5121	A	A-6	13.2	115.8	13.2	114.1	129.2	8	99	95	DP/MP
435		9/24/19	4559	A	A-7	17.0	110.2	17.2	106.5	124.8	8	97	95	DP/MP
436		9/24/19	4559	A	A-7	17.0	110.2	19.0	104.8	124.7	8	95	95	DP/MP
437		9/24/19	5121	A	A-6	13.2	115.8	13.5	110.9	125.9	8	96	95	DP/MP
438		9/24/19	5121	A	A-6	13.2	115.8	14.2	111.4	127.2	8	96	95	DP/MP
439		9/24/19	5121	A	A-6	13.2	115.8	13.5	113.5	128.8	8	98	95	DP/MP
440		9/24/19	5121	A	A-6	13.2	115.8	15.2	110.8	127.6	8	96	95	DP/MP
441		9/24/19	5121	A	A-6	13.2	115.8	14.9	111.5	128.1	8	96	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
434	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Service to Block 1 Lot 21	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
435	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Service to Block 1 Lot 21	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
436	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS North STA: 9+50 to 11+50 Test- Service to Block 1 Lot 21	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
437	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Station: 15+90 to 16+90, Services to Block 1 Lots: 2 & 4. Test- Service to Block 1 Lot 2	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
438	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Station: 15+90 to 16+90, Services to Block 1 Lots: 2 & 4. Test- Service to Block 1 Lot 2	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
439	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Station: 15+90 to 16+90, Services to Block 1 Lots: 2 & 4. Test- Service to Block 1 Lot 2	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
440	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Station: 15+90 to 16+90, Services to Block 1 Lots: 2 & 4. Test- Service to Block 1 Lot 4	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
441	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Station: 15+90 to 16+90, Services to Block 1 Lots: 2 & 4. Test- Service to Block 1 Lot 4	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez



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Project:

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Remarks	Comments
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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 Comp. (%)	Remark
442		9/24/19	5121	A	A-6	13.2	115.8	15.2	112.2	129.3	8	97	95	DP/MP
443		9/24/19	5121	A	A-6	13.2	115.8	15.2	112.8	130.0	8	97	95	DP/MP
444		9/24/19	5121	A	A-6	13.2	115.8	15.0	112.0	128.8	8	97	95	DP/MP
445		9/26/19	4559	A	A-7	17.0	110.2	17.2	105.4	123.5	8	96	95	DP/MP
446		9/26/19	4559	A	A-7	17.0	110.2	17.7	106.9	125.8	8	97	95	DP/MP
447		9/26/19	4559	A	A-7	17.0	110.2	17.8	106.5	125.5	8	97	95	DP/MP
448		9/26/19	4559	A	A-7	17.0	110.2	17.9	106.6	125.7	8	97	95	DP/MP
449		9/25/19	4559	A	A-7	17.0	110.2	18.2	107.0	126.5	8	97	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
442	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Station: 15+90 to 16+90, Services to Block 1 Lots: 2 & 4. Test- Service to Block 1 Lot 4	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
443	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Station: 15+90 to 16+90, Services to Block 1 Lots: 2 & 4. Test- Filing 15 SS West Station: 16+20	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
444	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Station: 15+90 to 16+90, Services to Block 1 Lots: 2 & 4. Test- Filing 15 SS West Station: 16+70	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
445	23 - Utility Backfill - Sanitary Sewer: F15 SS West Station 12+25	-6.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Todd Womersley
446	23 - Utility Backfill - Sanitary Sewer: F15 SS West Station 12+40	-4.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Todd Womersley
447	23 - Utility Backfill - Sanitary Sewer: F15 SS West Station 12+60	-2.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Todd Womersley
448	23 - Utility Backfill - Sanitary Sewer: F15 SS West Station 12+80	-1.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Todd Womersley
449	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test: Service to B1 L15	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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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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 Comp. (%)	Remark
450		9/25/19	4559	A	A-7	17.0	110.2	18.4	104.6	123.9	8	95	95	DP/MP
451		9/25/19	4559	A	A-7	17.0	110.2	17.0	107.4	125.7	8	97	95	DP/MP
452		9/25/19	4559	A	A-7	17.0	110.2	17.2	106.7	125.1	8	97	95	DP/MP
453		9/25/19	4559	A	A-7	17.0	110.2	18.8	104.2	123.8	8	95	95	DP/MP
454		9/25/19	4559	A	A-7	17.0	110.2	17.8	110.4	130.0	8	100	95	DP/MP
455		9/25/19	4559	A	A-7	17.0	110.2	18.3	104.6	123.7	8	95	95	DP/MP
456		9/25/19	4559	A	A-7	17.0	110.2	19.0	104.5	124.4	8	95	95	DP/MP
457		9/25/19	4559	A	A-7	17.0	110.2	18.4	104.6	123.8	8	95	95	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
450	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test: Service to B1 L15	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
451	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test: Service to B1 L15	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
452	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test: Service to B1 L16	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
453	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test: Service to B1 L16	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
454	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test- Filing 15 SS West Station: 12+25	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
455	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test- Filing 15 SS West Station: 13+00	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
456	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test- Filing 15 SS West Station: 13+80	-10.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
457	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West Stations: 11+50 to 14+50 and Services to Block 1 Lot 15 and Lot 16 Test- Filing 15 SS West Station: 14+25	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez



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 Phone: 303.996.2999

Soil Nuclear Gauge

Report Date: 9/9/2020
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

Remarks	Comments
DP/MP: 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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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 Comp. (%)	Remark
458		9/30/19	4533	A	A-7	17.1	111.6	18.0	109.7	129.5	8	98	95	DP/MP
459		9/30/19	4533	A	A-7	17.1	111.6	17.9	110.4	130.2	8	99	95	DP/MP
460		9/30/19	4533	A	A-7	17.1	111.6	17.1	108.2	126.7	8	97	95	DP/MP
461		9/30/19	4533	A	A-7	17.1	111.6	17.4	111.0	130.3	8	99	95	DP/MP
462		9/30/19	4533	A	A-7	17.1	111.6	19.0	106.4	126.6	8	95	95	DP/MP
463		9/30/19	4533	A	A-7	17.1	111.6	17.4	106.8	125.4	8	96	95	DP/MP
464		9/30/19	4533	A	A-7	17.1	111.6	17.5	109.9	129.1	8	98	95	DP/MP
465		9/30/19	4533	A	A-7	17.1	111.6	18.0	109.4	129.1	8	98	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
458	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 2' N of SS MH-27 Sta:10+99.25	-11.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
459	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: N of SS MH-27 Sta:11+02	-9.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
460	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: N of SS MH-27 Sta:11+04	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
461	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: N of SS MH-27 Sta:11+04	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
462	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: S of SS MH-29 Sta:13+55	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
463	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: S of SS MH-29 Sta:13+55	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
464	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: S of SS MH-29 Sta:13+56	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
465	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: S of SS MH-29 Sta:13+57	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
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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 Comp. (%)	Remark
466		9/30/19	4533	A	A-7	17.1	111.6	19.1	106.4	126.7	8	95	95	DP/MP
467		9/30/19	4533	A	A-7	17.1	111.6	17.1	108.6	127.2	8	97	95	DP/MP
468		9/30/19	4533	A	A-7	17.1	111.6	17.1	106.1	124.2	8	95	95	DP/MP
469		9/30/19	4533	A	A-7	17.1	111.6	17.3	108.2	126.9	8	97	95	DP/MP
470		9/30/19	4533	A	A-7	17.1	111.6	17.1	109.4	128.1	8	98	95	DP/MP
471		9/30/19	4533	A	A-7	17.1	111.6	17.1	110.2	129.1	8	99	95	DP/MP
472		9/30/19	5121	A	A-6	13.2	115.8	15.1	112.6	129.6	8	97	95	DP/MP
473		9/30/19	5121	A	A-6	13.2	115.8	13.2	109.7	124.2	8	95	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
466	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: S of SS MH-29 Sta:13+60	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
467	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: S of SS MH-29 Sta:13+61	-0.5	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
468	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: S of SS MH-12 Sta:15+77.25	-13.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
469	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: S of SS MH-12 Sta:15+79	-11.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
470	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: Service to Block 1 Lot 5	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
471	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: Service to Block 1 Lot 5	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
472	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' W of SSMH-12	-9.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
473	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' W of SSMH-12	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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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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 Comp. (%)	Remark
474		9/30/19	5121	A	A-6	13.2	115.8	15.0	112.3	129.1	8	97	95	DP/MP
475		9/30/19	5121	A	A-6	13.2	115.8	13.6	114.2	129.7	8	99	95	DP/MP
476		10/1/19	5121	A	A-6	13.2	115.8	15.0	109.5	125.9	8	95	95	DP/MP
477		10/1/19	4533	A	A-7	17.1	111.6	17.7	110.6	130.2	8	99	95	DP/MP
478		10/1/19	4533	A	A-7	17.1	111.6	17.1	111.9	131.0	8	100	95	DP/MP
479		10/1/19	4533	A	A-7	17.1	111.6	17.1	108.6	127.2	8	97	95	DP/MP
480		10/1/19	4533	A	A-7	17.1	111.6	17.1	106.1	124.3	8	95	95	DP/MP
481		10/1/19	5121	A	A-6	13.2	115.8	14.2	113.0	129.1	8	98	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
474	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' W of SSMH-12	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
475	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: W of SSMH-12	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
476	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: W of SSMH-12	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
477	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: W of SSMH-12	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
478	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: W of SSMH-12	-0.5	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
479	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' N of SMH-27 Station: 10+00	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
480	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' N of SMH-27 Station: 10+00	-4.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
481	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' N of SMH-27 Station: 10+00	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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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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 Comp. (%)	Remark
482		10/1/19	5121	A	A-6	13.2	115.8	15.2	109.6	126.3	8	95	95	DP/MP
483		10/1/19	5121	A	A-6	13.2	115.8	14.4	112.0	128.1	8	97	95	DP/MP
484		10/1/19	5121	A	A-6	13.2	115.8	15.2	113.0	130.2	8	98	95	DP/MP
485		10/1/19	5121	A	A-6	13.2	115.8	14.7	113.3	129.9	8	98	95	DP/MP
486		10/1/19	5121	A	A-6	13.2	115.8	14.2	113.0	129.0	8	98	95	DP/MP
487		10/1/19	5121	A	A-6	13.2	115.8	15.2	113.5	130.8	8	98	95	DP/MP
488		10/1/19	5121	A	A-6	13.2	115.8	15.2	113.0	130.2	8	98	95	DP/MP
489		10/1/19	5121	A	A-6	13.2	115.8	15.0	110.3	126.8	8	95	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
482	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: N of SMH-27 Station: 10+00	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
483	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: N of SMH-27 Station: 10+00	-0.5	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
484	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: Service to Block 1 Lot 11	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
485	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: Service to Block 1 Lot 11	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
486	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' W of SSMH-28 Station: 10+37.50	-9.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
487	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' W of SSMH-28 Station: 10+37.50	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
488	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' W of SSMH-28 Station: 10+37.50	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
489	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test: 5' W of SSMH-28 Station: 10+37.50	-5.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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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Test Results														
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490		10/2/19	5121	A	A-6	13.2	115.8	13.7	111.0	126.2	8	96	95	DP/MP
491		10/2/19	5121	A	A-6	13.2	115.8	13.2	112.2	127.0	8	97	95	DP/MP
492		10/2/19	5121	A	A-6	13.2	115.8	13.5	113.5	128.8	8	98	95	DP/MP
498		10/1/19	4533	A	A-7	17.1	111.6	17.9	106.4	125.5	8	95	95	DP/MP
499		10/1/19	4533	A	A-7	17.1	111.6	17.2	107.7	126.2	8	97	95	DP/MP
500		10/1/19	4533	A	A-7	17.1	111.6	17.3	106.3	124.7	8	95	95	DP/MP
503		10/1/19	4533	A	A-7	17.1	111.6	17.5	109.1	128.2	8	98	95	DP/MP
504		10/1/19	4533	A	A-7	17.1	111.6	18.8	106.9	127.0	8	96	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
490	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 TO 15+50 Test: 2' E of SSMH-28 Station: 10+37.50	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
491	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 TO 15+50 Test: 2' E of SSMH-28 Station: 10+37.50	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
492	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 TO 15+50 Test: 2' E of SSMH-28 Station: 10+37.50	-0.5	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
498	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- 4' N of SSMH-26	-9.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
499	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- 4' N of SSMH-26	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
500	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- N of SSMH-26	-6.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
503	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- 5' s from MH-11 Station: 16+98.25	-8.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
504	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- S of MH-11 Station: 16+98.25	-7.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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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501		10/2/19	4533	A	A-7	17.1	111.6	17.5	109.1	128.2	8	98	95	DP/MP
502		10/2/19	4533	A	A-7	17.1	111.6	18.3	109.0	129.0	8	98	95	DP/MP
505		10/2/19	5121	A	A-6	13.2	115.8	14.6	113.3	129.8	8	98	95	DP/MP
506		10/2/19	5121	A	A-6	13.2	115.8	13.8	111.7	127.1	8	96	95	DP/MP
507		10/2/19	5121	A	A-6	13.2	115.8	13.2	114.9	130.1	8	99	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
501	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- N of SSMH-26	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
502	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- N of SSMH-26	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
505	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- S of MH-11 Station: 16+98.25	-3.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
506	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- S of MH-11 Station: 16+98.25	-2.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
507	23 - Utility Backfill - Sanitary Sewer: Filing 15 SS West STA: 9+50 to 15+50 Test- S of MH-11 Station: 16+98.25	-0.5	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: 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.



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

Soil Nuclear Gauge

Report Date: 9/9/2020
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 Comp. (%)	Remark
628		2/14/20	5196		A-2	10.8	119.0	12.1	115.9	129.9	8	97	95	DP/MP
629		2/14/20	5196		A-2	10.8	119.0	11.9	103.2	115.5	8	87	95	DF/MP
630	629	2/17/20	5196		A-2	10.8	119.0	11.9	116.6	130.5	8	98	95	DP/MP
631		2/17/20	5196		A-2	10.8	119.0	12.4	116.6	131.1	8	98	95	DP/MP
632		2/17/20	5196		A-2	10.8	119.0	12.1	118.0	132.3	8	99	95	DP/MP
633		2/17/20	5196		A-2	10.8	119.0	11.4	117.5	130.9	8	99	95	DP/MP
634		2/17/20	5196		A-2	10.8	119.0	12.8	117.1	132.1	8	98	95	DP/MP
635		2/17/20	5196		A-2	10.8	119.0	11.6	117.5	131.1	8	99	95	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
628	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+75	-1.0	FG	Instrotek / Explorer 3500 / 1899 /	Aaron Smith
629	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+80	-4.0	FG	Instrotek / Explorer 3500 / 1899 /	Aaron Smith
630	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+80	-4.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
631	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+82	-3.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
632	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+84	-2.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
633	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+88	-0.5	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
634	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+25	2.0	From Top of Pipe	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
635	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+27	3.0	From Top of Pipe	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez

Remarks	Comments
DP/MP: Density Pass / Moisture Pass DF/MP: Density Fail / 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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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 Comp. (%)	Remark
636		2/17/20	5196		A-2	10.8	119.0	12.8	116.9	131.9	8	98	95	DP/MP
637		2/17/20	5196		A-2	10.8	119.0	12.0	116.7	130.7	8	98	95	DP/MP
645		2/20/20	5196		A-2	10.8	119.0	9.7	118.4	129.9	8	99	95	DP/MP
646		2/20/20	5196		A-2	10.8	119.0	12.8	113.1	127.6	8	95	95	DP/MP
647		2/20/20	5196		A-2	10.8	119.0	10.7	118.0	130.6	8	99	95	DP/MP
648		2/20/20	5196		A-2	10.8	119.0	11.5	114.9	128.1	8	97	95	DP/MP
649		2/21/20	5196		A-2	10.8	119.0	10.9	115.6	128.2	8	97	95	DP/MP
650		2/21/20	5196		A-2	10.8	119.0	10.8	116.8	129.4	8	98	95	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
636	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+29	4.0	From Top of Pipe	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
637	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave Sanitary Line from stations 13+10 to 14+20. Tested at 13+31	5.0	From Top of Pipe	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
645	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave. Stations: 12+80 to 13+15, Backfill for SSMH-13 (13+11.00) and SSMH-25 (12+85.69). Test- S of SSMH-25, Station:12+87	2.0	From top of Pipe	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
646	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave. Stations: 12+80 to 13+15, Backfill for SSMH-13 (13+11.00) and SSMH-25 (12+85.69). Test- E of SSMH-25, Station:12+88	4.0	From top of Pipe	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
647	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave. Stations: 12+80 to 13+15, Backfill for SSMH-13 (13+11.00) and SSMH-25 (12+85.69). Test- E of SSMH-13, Station:13+12	2.0	From top of Pipe	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
648	23 - Utility Backfill - Sanitary Sewer: Mock Orange Ave. Stations: 12+80 to 13+15, Backfill for SSMH-13 (13+11.00) and SSMH-25 (12+85.69). Test- S of SSMH-13, Station:13+13	3.0	From top of Pipe	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
649	23 - Utility Backfill - Sanitary Sewer: 2' East of Sanitary Sewer Manhole 13	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Dale Griest
650	23 - Utility Backfill - Sanitary Sewer: 2' East of Sanitary Sewer Manhole 25	-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019	Dale Griest

Remarks	Comments
DP/MP: 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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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 Comp. (%)	Remark
651		2/21/20	5196		A-2	10.8	119.0	11.2	115.6	128.6	8	97	95	DP/MP
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
651	23 - Utility Backfill - Sanitary Sewer: At Station 13+79 on Mock Orange Ave						-1.0	Down from FG	Troxler / 3440 / 63528 / 2/1/2019			Dale Griest		
Remarks					Comments									
DP/MP: 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.									