

June 5, 2023

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, Colorado 80112

Attention: Mr. Michael F. Harty

Subject: Declaration Letter
59 Lots, Trails at Crowfoot, Filing 11
Parker, Colorado
Project No. DN50626.004F

CTL|Thompson, Inc provided testing and observation services during site development for 59 Lots, Trails at Crowfoot, Filing 11 in Parker, Colorado. Services were provided on a part to full-time, on-call basis.

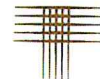
We performed compaction testing of sub-excavation during our observations completed between January 19 through March 30, 2021. The compaction tests and our observations indicated the fill was placed in general conformance with compaction recommendations.

We performed compaction testing of sanitary sewer trench backfill during our observations completed between August 21 through November 19, 2021. The compaction tests and our observations indicated the fill was placed in general conformance with compaction recommendations.

We performed compaction testing of waterline trench backfill during our observations completed between November 20, 2021 through September 28, 2022. The compaction tests and our observations indicated the fill was placed in general conformance with compaction recommendations with the exception of test No.'s 168-173.

We performed compaction testing of storm sewer trench backfill, manhole and inlets during our observations completed between October 5, 2021 through March 29, 2023. The compaction tests and our observations indicated the fill was placed in general conformance with compaction recommendations with the exception of test No. 118.

We performed compaction testing of street subgrade, dry utility trench backfill, sidewalks, curb and gutter and crosspans during our observations completed between March 12, 2022 through April 20, 2023. The compaction tests and our observations indicated the subgrade was prepared in general conformance with compaction recommendations with the exceptions of Test No.'s 80, 81, 88-96, and 98-110.



We performed asphalt testing during our observations completed between April 22, 2022 to April 20, 2023. Our observations indicated the asphalt was placed in general conformance with asphalt recommendations.

We performed concrete testing of inlets, manhole, sidewalk, and curb and gutter during our observations completed between September 29, 2021 through April 7, 2023. The test results indicated the average 28-day compressive strengths achieved specified strengths with the exception of Sample No.'s 98213, 99959, and 109045 did not meet strength at 28-days however strength was achieved at 56-days. Sample No.'s 96540 did not meet strength at 28 or 56 days. Sample No. 113693 did not meet strength at 28-days and has not yet been tested at 56-days.

If we can be of further assistance, please contact us at your convenience.

Very truly yours,

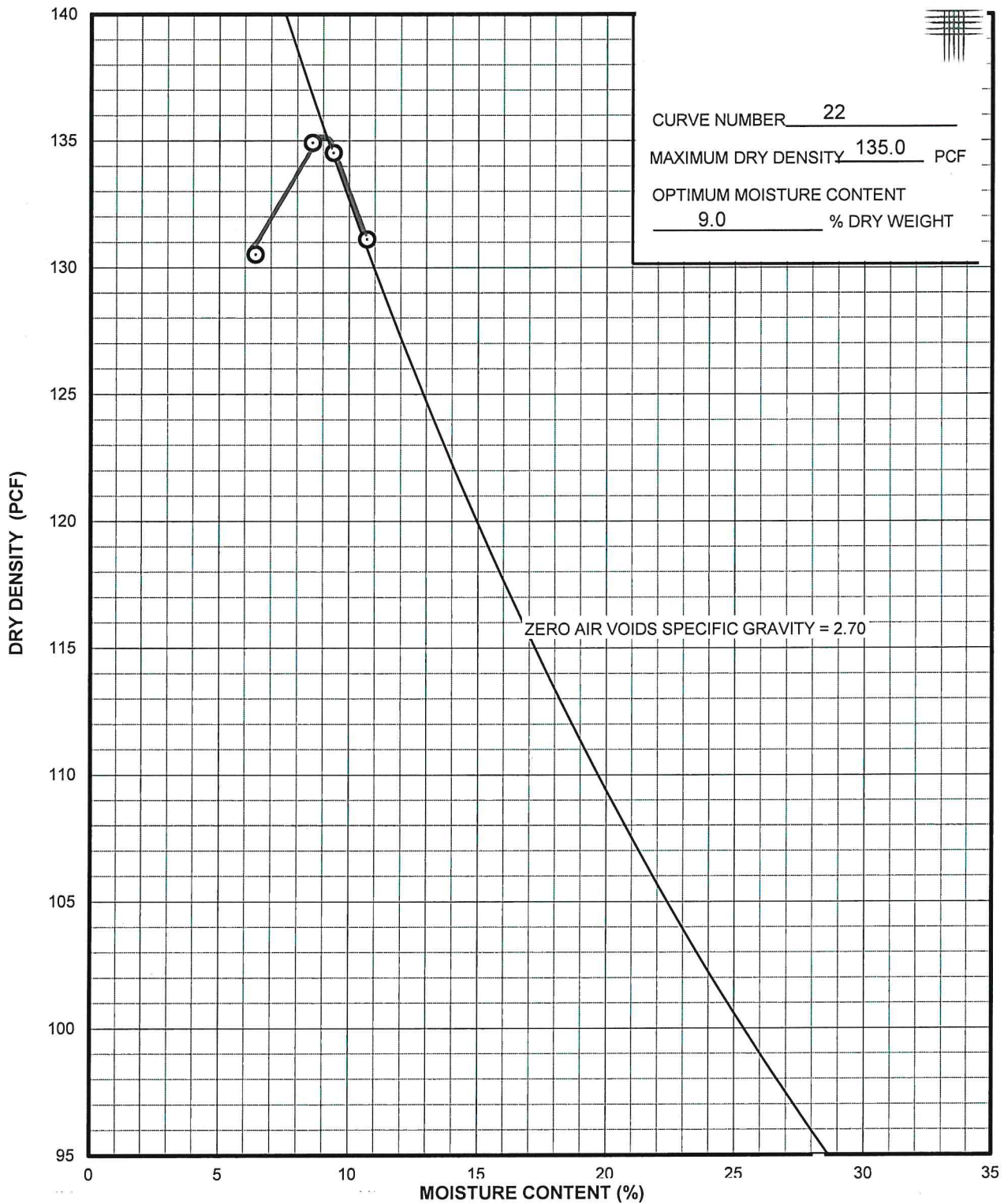
CTL|THOMPSON, INC

Spencer Hrubula
Staff Engineer
SH:ER/mk

Reviewed by,

Ezekiel R. Robles, P.E.
Project Manager





SAMPLE DESCRIPTION ROAD BASE

LOCATION ON-SITE

COMPACTION TEST PROCEDURE ASTM D698-12
METHOD C

LIQUID LIMIT NL %

PLASTICITY INDEX NP %

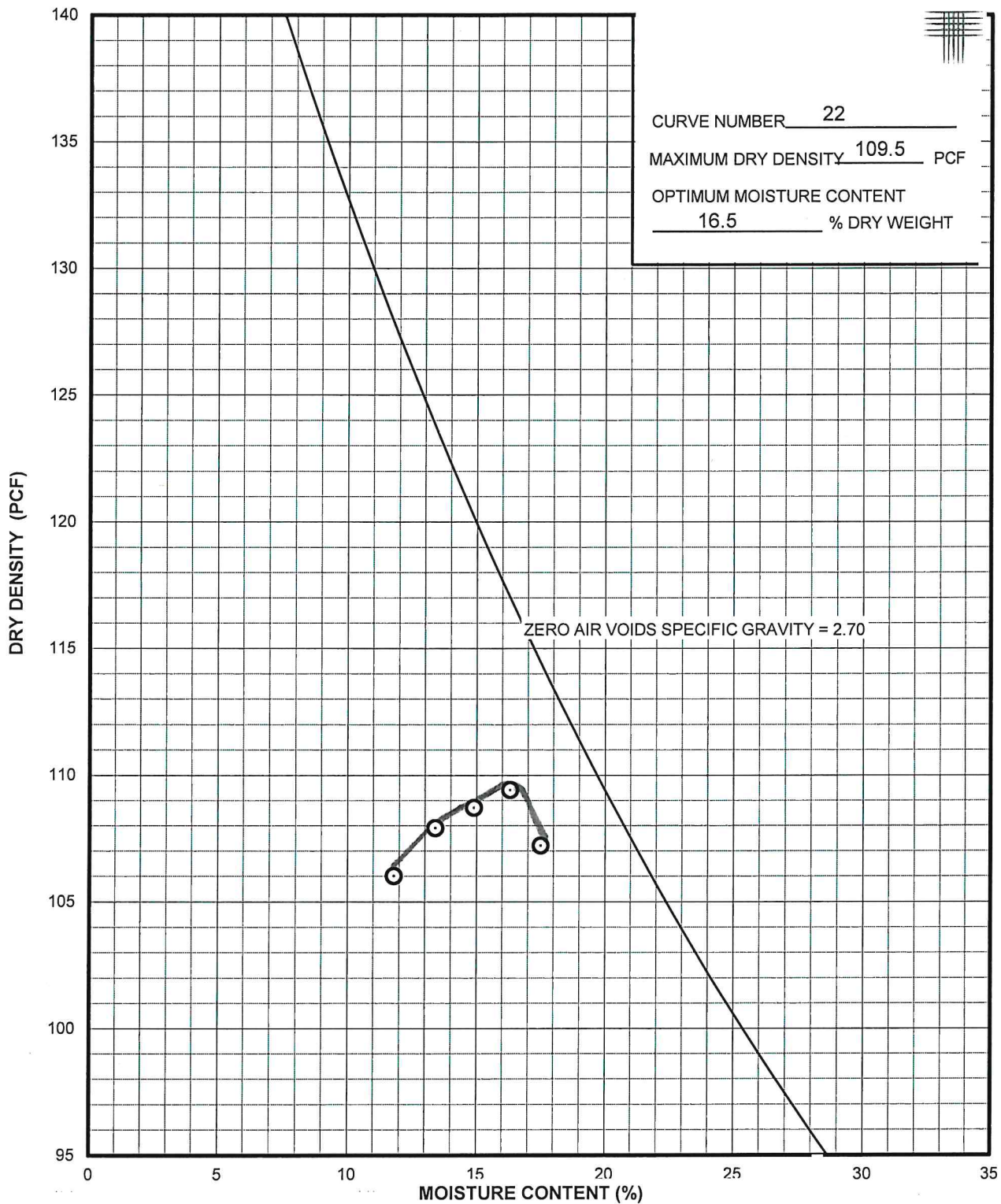
GRAVEL %

SAND %

SILT AND CLAY 10.4 %

Laboratory Compaction Test Results

PROJECT NO: DN50626.004F
PROJECT NAME: 59 LOTS, TRAILS AT CROWFOOT, FILING 11



SAMPLE DESCRIPTION BC, RECYCLED CONCRETE

LOCATION IMPORT
BEEBALM LOOP

COMPACTION TEST PROCEDURE ASTM D698-12
METHOD C

LIQUID LIMIT NL %

PLASTICITY INDEX NP %

GRAVEL %

SAND %

SILT AND CLAY 6 %

Laboratory Compaction Test Results

PROJECT NO: DN50626.004F
PROJECT NAME: 59 LOTS, TRAILS AT CROWFOOT, FILING 11



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000001
01/19/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
1		01/19/21	18	698A	CL	16.0	111.0	17.8	110.5	130.2	8	100	95	1 / 4	A
2		01/19/21	18	698A	CL	16.0	111.0	17.0	110.7	129.5	8	100	95	1 / 4	A
3		01/19/21	18	698A	CL	16.0	111.0	17.6	112.0	131.7	8	101	95	1 / 4	A
4		01/19/21	18	698A	CL	16.0	111.0	18.3	111.2	131.5	8	100	95	1 / 4	A
5		01/19/21	18	698A	CL	16.0	111.0	18.3	109.7	129.8	8	99	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
1	Sub-Excavation and Backfill: Lot 1 Block 4 Filing 11, Field Mint Avenue						18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
2	Sub-Excavation and Backfill: Lot 3 Block 4 Filing 11, Field Mint Avenue						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
3	Sub-Excavation and Backfill: Lot 2 Block 4 Filing 11, Field Mint Avenue						17.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
4	Sub-Excavation and Backfill: Lot 4 Block 4 Filing 11, Field Mint Avenue						15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
5	Sub-Excavation and Backfill: Lot 1 Block 4 Filing 11, Field Mint Avenue						14.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000002
01/20/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
6		01/20/21	16	698A	CL	15.5	111.0	17.5	109.6	128.8	8	99	95	1 / 4	A
7		01/20/21	16	698A	CL	15.5	111.0	17.6	109.7	129.0	8	99	95	1 / 4	A
8		01/20/21	16	698A	CL	15.5	111.0	16.6	109.7	127.9	8	99	95	1 / 4	A
9		01/20/21	16	698A	CL	15.5	111.0	18.0	110.3	130.2	8	99	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
6	Sub-Excavation and Backfill: Lot 2 Block 4 Filing 11, Field Mint Avenue							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
7	Sub-Excavation and Backfill: Lot 1 Block 4 Filing 11, Field Mint Avenue							11.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
8	Sub-Excavation and Backfill: Lot 3 Block 4 Filing 11, Field Mint Avenue							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
9	Sub-Excavation and Backfill: Lot 4 Block 4 Filing 11, Field Mint Avenue							10.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000003
01/21/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
10		01/21/21	7	698A	CL	16.5	107.5	19.1	107.0	127.4	8	100	95	1 / 4	A
11		01/21/21	7	698A	CL	16.5	107.5	18.5	107.3	127.1	8	100	95	1 / 4	A
12		01/21/21	7	698A	CL	16.5	107.5	18.6	108.0	128.1	8	100	95	1 / 4	A
13		01/21/21	7	698A	CL	16.5	107.5	18.4	107.3	127.0	8	100	95	1 / 4	A
14		01/21/21	7	698A	CL	16.5	107.5	18.1	106.9	126.2	8	99	95	1 / 4	A
15		01/21/21	7	698A	CL	16.5	107.5	18.7	108.5	128.8	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
10	Sub-Excavation and Backfill: Lot 2 Block 4 Filing 11, Field Mint Avenue							9.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
11	Sub-Excavation and Backfill: Lot 4 Block 4 Filing 11, Field Mint Avenue							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
12	Sub-Excavation and Backfill: Lot 1 Block 4 Filing 11, Field Mint Avenue							5.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
13	Sub-Excavation and Backfill: Lot 3 Block 4 Filing 11, Field Mint Avenue							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
14	Sub-Excavation and Backfill: Lot 2 Block 4 Filing 11, Field Mint Avenue							6.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
15	Sub-Excavation and Backfill: Lot 3 Block 4 Filing 11, Field Mint Avenue							4.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 15: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with the tractor.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000004
01/22/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
16		01/22/21	3	ASTM D698B	SC	12.5	117.0	14.1	116.4	132.8	8	99	95	-2 / 2	A
17		01/22/21	3	ASTM D698B	SC	12.5	117.0	13.6	116.5	132.3	8	100	95	-2 / 2	A
18		01/22/21	3	ASTM D698B	SC	12.5	117.0	14.2	115.9	132.3	8	99	95	-2 / 2	A
19		01/22/21	3	ASTM D698B	SC	12.5	117.0	13.4	117.4	133.1	8	100	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
16	Sub-Excavation and Backfill: Lot 1 Block 4 Filing 11, Field Mint Avenue						2.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
17	Sub-Excavation and Backfill: Lot 2 Block 4 Filing 11, Field Mint Avenue						1.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
18	Sub-Excavation and Backfill: Lot 4 Block 4 Filing 11, Field Mint Avenue						3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
19	Sub-Excavation and Backfill: Lot 3 Block 4 Filing 11, Field Mint Avenue						1.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 19: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with the tractor.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000005
01/26/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
20		01/26/21	7	698A	CL	16.5	107.5	16.1	105.9	123.0	6	99	95	1 / 4	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
20	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							5.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas	
Remarks						Comments									
B: Test results do not comply with specifications.						Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.									



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000006
01/29/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
22		01/29/21	5	698A	SC	13.5	114.5	15.3	114.1	131.6	10	100	95	-2 / 2	A
23		01/29/21	16	698A	CL	15.5	111.0	16.6	106.7	124.4	8	96	95	1 / 4	A
24		01/29/21	16	698A	CL	15.5	111.0	18.9	107.5	127.8	8	97	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
22	Sub-Excavation and Backfill: S of Lot 12 Block 3							7.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas	
23	Sub-Excavation and Backfill: S of Lot 14 Block 3							5.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas	
24	Sub-Excavation and Backfill: S of Lot 16 Block 3							6.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000007
02/01/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
25		02/01/21	1	ASTM D698C	SC	10.5	122.0	11.7	116.5	130.1	8	95	95	-2 / 2	A
26		02/01/21	1	ASTM D698C	SC	10.5	122.0	9.4	120.2	131.5	8	99	95	-2 / 2	A
27		02/01/21	4	ASTM D698B	SC	12.0	118.5	12.9	116.3	131.3	8	98	95	-2 / 2	A
28		02/01/21	1	ASTM D698C	SC	10.5	122.0	9.2	120.6	131.7	8	99	95	-2 / 2	A
29		02/01/21	2	ASTM D698C	SC	10.5	121.0	10.3	117.5	129.6	8	97	95	-2 / 2	A
30		02/01/21	2	ASTM D698C	SC	10.5	121.0	9.1	116.9	127.5	8	97	95	-2 / 2	A
31		02/01/21	1	ASTM D698C	SC	10.5	122.0	9.1	120.9	131.9	8	99	95	-2 / 2	A
32		02/01/21	2	ASTM D698C	SC	10.5	121.0	8.7	115.1	125.1	8	95	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
25	Sub-Excavation and Backfill: Lot 17 Block 3 Filing 11						1.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
26	Sub-Excavation and Backfill: Lot 13 Block 3 Filing 11						1.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
27	Sub-Excavation and Backfill: Lot 14 Block 3 Filing 11						2.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
28	Sub-Excavation and Backfill: Lot 12 Block 3 Filing 11						1.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
29	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						16.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
30	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11						16.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
31	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11						17.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
32	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11						18.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000007
02/01/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
33		02/01/21	2	ASTM D698C	SC	10.5	121.0	9.1	125.1	136.5	8	103	95	-2 / 2	A
34		02/01/21	1	ASTM D698C	SC	10.5	122.0	10.1	123.3	135.7	8	101	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
33	Sub-Excavation and Backfill: Lot 11 Block 2 Filing 11						20.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
34	Sub-Excavation and Backfill: Lot 9 Block 2 Filing 11						19.0	BG		XPLOER / 3500 / 2417 / 04/20/2020			Meritt, Nicolas		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 34: As requested by Mike with Kelley Trucking, site visits were made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scrapers, water truck, and tractor with discs.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000008
02/04/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
35		02/04/21	16	698A	CL	15.5	111.0	17.7	111.0	130.7	8	100	95	1 / 4	A
36		02/04/21	16	698A	CL	15.5	111.0	17.4	110.0	129.1	8	99	95	1 / 4	A
37		02/04/21	16	698A	CL	15.5	111.0	17.6	109.7	129.0	8	99	95	1 / 4	A
38		02/04/21	16	698A	CL	15.5	111.0	17.0	109.8	128.5	8	99	95	1 / 4	A
39		02/04/21	16	698A	CL	15.5	111.0	16.8	111.9	130.7	8	101	95	1 / 4	A
40		02/04/21	16	698A	CL	15.5	111.0	17.1	112.0	131.2	8	101	95	1 / 4	A
41		02/04/21	16	698A	CL	15.5	111.0	16.8	109.0	127.3	8	98	95	1 / 4	A
42		02/04/21	16	698A	CL	15.5	111.0	17.0	109.4	128.0	8	99	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
35	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11						17.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
36	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
37	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
38	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11						15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
39	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11						15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
40	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11						15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
41	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
42	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						14.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 42: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with the tractor.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000009
02/05/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
43		02/05/21	10	ASTM D698B	CL	18.0	107.0	21.1	104.5	126.6	8	98	95	1 / 4	A
44		02/05/21	10	ASTM D698B	CL	18.0	107.0	20.3	106.4	128.0	8	99	95	1 / 4	A
45		02/05/21	10	ASTM D698B	CL	18.0	107.0	19.1	105.6	125.8	8	99	95	1 / 4	A
46		02/05/21	10	ASTM D698B	CL	18.0	107.0	20.7	105.3	127.1	8	98	95	1 / 4	A
47		02/05/21	10	ASTM D698B	CL	18.0	107.0	19.5	107.4	128.3	8	100	95	1 / 4	A
48		02/05/21	10	ASTM D698B	CL	18.0	107.0	19.2	107.0	127.5	8	100	95	1 / 4	A
49		02/05/21	10	ASTM D698B	CL	18.0	107.0	19.6	105.9	126.7	8	99	95	1 / 4	A
50		02/05/21	10	ASTM D698B	CL	18.0	107.0	20.1	105.8	127.1	8	99	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
43	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
44	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
45	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							14.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
46	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
47	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
48	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							14.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
49	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
50	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000009
02/05/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
51		02/05/21	10	ASTM D698B	CL	18.0	107.0	19.0	106.4	126.6	8	99	95	1 / 4	A
52		02/05/21	10	ASTM D698B	CL	18.0	107.0	20.7	106.3	128.3	8	99	95	1 / 4	A
53		02/05/21	10	ASTM D698B	CL	18.0	107.0	20.2	105.7	127.0	8	99	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
51	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							14.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
52	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
53	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 53: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with the tractor.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000010
02/08/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
54		02/08/21	7	698A	CL	16.5	107.5	19.3	108.4	129.3	8	101	95	1 / 4	A
55		02/08/21	7	698A	CL	16.5	107.5	19.8	107.2	128.4	8	100	95	1 / 4	A
56		02/08/21	7	698A	CL	16.5	107.5	19.0	108.4	129.0	8	101	95	1 / 4	A
57		02/08/21	7	698A	CL	16.5	107.5	20.1	108.4	130.2	8	101	95	1 / 4	A
58		02/08/21	7	698A	CL	16.5	107.5	19.1	108.1	128.8	8	101	95	1 / 4	A
59		02/08/21	7	698A	CL	16.5	107.5	18.7	107.4	127.5	8	100	95	1 / 4	A
60		02/08/21	7	698A	CL	16.5	107.5	20.1	106.6	128.0	8	99	95	1 / 4	A
61		02/08/21	7	698A	CL	16.5	107.5	20.2	106.7	128.3	8	99	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
54	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							11.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
55	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							10.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
56	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
57	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							11.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
58	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							10.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
59	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
60	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							11.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
61	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							10.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000010
02/08/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
62		02/08/21	7	698A	CL	16.5	107.5	19.5	108.0	129.1	8	100	95	1 / 4	A
63		02/08/21	7	698A	CL	16.5	107.5	18.6	109.0	129.3	8	101	95	1 / 4	A
64		02/08/21	7	698A	CL	16.5	107.5	19.2	107.9	128.6	8	100	95	1 / 4	A
65		02/08/21	7	698A	CL	16.5	107.5	17.9	107.3	126.5	8	100	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated				Field Technician		
62	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11						9.0	BG	XPLOER / 3500 / 2026 / 04/14/2020				Eaton, Jesse		
63	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020				Eaton, Jesse		
64	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						10.0	BG	XPLOER / 3500 / 2026 / 04/14/2020				Eaton, Jesse		
65	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						9.0	BG	XPLOER / 3500 / 2026 / 04/14/2020				Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 65: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with the tractor.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000011
02/09/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
66		02/09/21	16	698A	CL	15.5	111.0	17.4	111.1	130.4	8	100	95	1 / 4	A
67		02/09/21	16	698A	CL	15.5	111.0	17.7	111.0	130.6	8	100	95	1 / 4	A
68		02/09/21	16	698A	CL	15.5	111.0	17.8	110.6	130.3	8	100	95	1 / 4	A
69		02/09/21	16	698A	CL	15.5	111.0	18.0	109.9	129.7	8	99	95	1 / 4	A
70		02/09/21	16	698A	CL	15.5	111.0	18.2	110.9	131.1	8	100	95	1 / 4	A
71		02/09/21	16	698A	CL	15.5	111.0	18.0	109.8	129.6	8	99	95	1 / 4	A
72		02/09/21	16	698A	CL	15.5	111.0	17.9	109.3	128.9	8	98	95	1 / 4	A
73		02/09/21	16	698A	CL	15.5	111.0	17.6	109.7	129.0	8	99	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
66	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
67	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
68	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11							6.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
69	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
70	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
71	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							6.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
72	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
73	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000011
02/09/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
74		02/09/21	16	698A	CL	15.5	111.0	18.4	111.3	131.8	8	100	95	1 / 4	A
75		02/09/21	16	698A	CL	15.5	111.0	18.0	110.3	130.1	8	99	95	1 / 4	A
76		02/09/21	16	698A	CL	15.5	111.0	17.2	109.7	128.6	8	99	95	1 / 4	A
77		02/09/21	16	698A	CL	15.5	111.0	18.2	109.7	129.7	8	99	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
74	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
75	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							8.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
76	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
77	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 77: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with the tractor.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000012
02/10/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
78		02/10/21	10	ASTM D698B	CL	18.0	107.0	21.0	106.3	128.6	8	99	95	1 / 4	A
79		02/10/21	10	ASTM D698B	CL	18.0	107.0	20.0	105.7	126.8	8	99	95	1 / 4	A
80		02/10/21	10	ASTM D698B	CL	18.0	107.0	21.6	106.2	129.1	8	99	95	1 / 4	A
81		02/10/21	10	ASTM D698B	CL	18.0	107.0	19.2	105.7	126.0	8	99	95	1 / 4	A
82		02/10/21	10	ASTM D698B	CL	18.0	107.0	20.8	104.7	126.5	8	98	95	1 / 4	A
83		02/10/21	10	ASTM D698B	CL	18.0	107.0	21.0	107.0	129.5	8	100	95	1 / 4	A
84		02/10/21	10	ASTM D698B	CL	18.0	107.0	19.3	105.5	125.9	8	99	95	1 / 4	A
85		02/10/21	10	ASTM D698B	CL	18.0	107.0	20.1	106.8	128.3	8	100	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
78	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11						5.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
79	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
80	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11						3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
81	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11						5.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
82	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
83	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11						3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
84	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11						5.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
85	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000012
02/10/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
86		02/10/21	10	ASTM D698B	CL	18.0	107.0	19.4	106.8	127.5	8	100	95	1 / 4	A
87		02/10/21	10	ASTM D698B	CL	18.0	107.0	19.4	105.5	126.0	8	99	95	1 / 4	A
88		02/10/21	10	ASTM D698B	CL	18.0	107.0	20.0	105.7	126.8	8	99	95	1 / 4	A
89		02/10/21	10	ASTM D698B	CL	18.0	107.0	19.4	107.5	128.4	8	100	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
86	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11						3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
87	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						5.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
88	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
89	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11						3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 89: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with the tractor.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000013
02/11/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
90		02/11/21	16	698A	CL	15.5	111.0	17.0	111.3	130.2	8	100	95	1 / 4	A
91		02/11/21	16	698A	CL	15.5	111.0	17.5	110.5	129.8	8	100	95	1 / 4	A
92		02/11/21	16	698A	CL	15.5	111.0	17.4	109.7	128.8	8	99	95	1 / 4	A
93		02/11/21	16	698A	CL	15.5	111.0	17.2	109.6	128.5	8	99	95	1 / 4	A
94		02/11/21	16	698A	CL	15.5	111.0	18.0	109.7	129.5	8	99	95	1 / 4	A
95		02/11/21	16	698A	CL	15.5	111.0	18.6	110.1	130.6	8	99	95	1 / 4	A
96		02/11/21	16	698A	CL	15.5	111.0	18.0	109.4	129.1	8	99	95	1 / 4	A
97		02/11/21	16	698A	CL	15.5	111.0	18.8	108.5	128.9	8	98	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
90	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
91	Sub-Excavation and Backfill: Lot 4 Block 2 Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
92	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
93	Sub-Excavation and Backfill: Lot 6 Block 2 Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
94	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
95	Sub-Excavation and Backfill: Lot 8 Block 2 Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
96	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
97	Sub-Excavation and Backfill: Lot 10 Block 2 Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 97: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with the tractor.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
02/16/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
21	20	02/16/21	7	698A	CL	16.5	107.5	18.5	106.9	126.7	8	99	95	1 / 4	A
98		02/16/21	7	698A	CL	16.5	107.5	17.8	108.7	128.1	8	101	95	1 / 4	A
99		02/16/21	7	698A	CL	16.5	107.5	18.3	107.9	127.6	8	100	95	1 / 4	A
100		02/16/21	7	698A	CL	16.5	107.5	20.1	108.2	129.9	8	101	95	1 / 4	A
101		02/16/21	7	698A	CL	16.5	107.5	17.7	109.0	128.3	8	101	95	1 / 4	A
102		02/16/21	7	698A	CL	16.5	107.5	18.2	107.7	127.3	8	100	95	1 / 4	A
103		02/16/21	7	698A	CL	16.5	107.5	18.8	107.8	128.1	8	100	95	1 / 4	A
104		02/16/21	7	698A	CL	16.5	107.5	18.7	108.8	129.1	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
21	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							5.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
98	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							4.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
99	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							3.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
100	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
101	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
102	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11							19.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
103	Sub-Excavation and Backfill: Lot 3 Block 5 Filing 11							19.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
104	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11							19.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
02/16/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
105		02/16/21	7	698A	CL	16.5	107.5	19.5	108.0	129.1	8	100	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
105	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11							19.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 105: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015
02/17/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
106		02/17/21	7	698A	CL	16.5	107.5	20.2	108.4	130.3	8	101	95	1 / 4	A
107		02/17/21	7	698A	CL	16.5	107.5	18.8	108.1	128.4	8	101	95	1 / 4	A
108		02/17/21	7	698A	CL	16.5	107.5	17.8	108.7	128.1	8	101	95	1 / 4	A
109		02/17/21	7	698A	CL	16.5	107.5	17.8	108.4	127.7	8	101	95	1 / 4	A
110		02/17/21	7	698A	CL	16.5	107.5	17.8	107.6	126.8	8	100	95	1 / 4	A
111		02/17/21	7	698A	CL	16.5	107.5	18.1	108.0	127.6	8	100	95	1 / 4	A
112		02/17/21	7	698A	CL	16.5	107.5	18.2	108.4	128.1	8	101	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
106	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11						18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
107	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11						18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
108	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11						17.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
109	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11						17.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
110	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
111	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
112	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 112: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000016
02/19/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
113		02/19/21	7	698A	CL	16.5	107.5	17.7	107.9	127.0	8	100	95	1 / 4	A
114		02/19/21	7	698A	CL	16.5	107.5	18.2	108.8	128.6	8	101	95	1 / 4	A
115		02/19/21	7	698A	CL	16.5	107.5	19.1	108.6	129.3	8	101	95	1 / 4	A
116		02/19/21	7	698A	CL	16.5	107.5	18.3	107.9	127.6	8	100	95	1 / 4	A
117		02/19/21	7	698A	CL	16.5	107.5	17.8	108.7	128.1	8	101	95	1 / 4	A
118		02/19/21	7	698A	CL	16.5	107.5	19.2	107.8	128.5	8	100	95	1 / 4	A
119		02/19/21	7	698A	CL	16.5	107.5	18.3	108.1	127.9	8	101	95	1 / 4	A
120		02/19/21	7	698A	CL	16.5	107.5	19.1	108.4	129.1	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
113	Sub-Excavation and Backfill: Lot 3 Block 5 Filing 11							15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
114	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11							15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
115	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11							14.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
116	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11							14.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
117	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
118	Sub-Excavation and Backfill: Lot 3 Block 5 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
119	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
120	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000016
02/19/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
121		02/19/21	7	698A	CL	16.5	107.5	19.2	109.0	129.9	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
121	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 121: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000017
02/20/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
122		02/20/21	7	698A	CL	16.5	107.5	20.3	106.4	128.0	8	99	95	1 / 4	A
123		02/20/21	7	698A	CL	16.5	107.5	18.2	108.9	128.7	8	101	95	1 / 4	A
124		02/20/21	7	698A	CL	16.5	107.5	19.0	108.8	129.5	8	101	95	1 / 4	A
125		02/20/21	7	698A	CL	16.5	107.5	19.7	108.8	130.2	8	101	95	1 / 4	A
126		02/20/21	7	698A	CL	16.5	107.5	18.3	108.7	128.6	8	101	95	1 / 4	A
127		02/20/21	7	698A	CL	16.5	107.5	18.2	108.4	128.1	8	101	95	1 / 4	A
128		02/20/21	7	698A	CL	16.5	107.5	19.0	108.8	129.5	8	101	95	1 / 4	A
129		02/20/21	7	698A	CL	16.5	107.5	19.3	107.7	128.5	8	100	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
122	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11							11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
123	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11							11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
124	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11							11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
125	Sub-Excavation and Backfill: Lot 3 Block 5 Filing 11							10.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
126	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11							10.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
127	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11							9.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
128	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11							9.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
129	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11							9.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000017
02/20/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
130		02/20/21	7	698A	CL	16.5	107.5	19.3	107.9	128.7	8	100	95	1 / 4	A
131		02/20/21	7	698A	CL	16.5	107.5	19.2	107.2	127.8	8	100	95	1 / 4	A
132		02/20/21	7	698A	CL	16.5	107.5	18.4	107.7	127.5	8	100	95	1 / 4	A
133		02/20/21	7	698A	CL	16.5	107.5	19.9	106.9	128.2	8	99	95	1 / 4	A
134		02/20/21	7	698A	CL	16.5	107.5	18.1	108.1	127.7	8	101	95	1 / 4	A
135		02/20/21	7	698A	CL	16.5	107.5	19.1	107.9	128.5	8	100	95	1 / 4	A
136		02/20/21	7	698A	CL	16.5	107.5	19.0	108.4	129.0	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
130	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
131	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
132	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
133	Sub-Excavation and Backfill: Lot 3 Block 5 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
134	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
135	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11							6.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
136	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11							6.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 136: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000018
02/22/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
137		02/22/21	10	ASTM D698B	CL	18.0	107.0	20.5	106.0	127.7	8	99	95	1 / 4	A
138		02/22/21	10	ASTM D698B	CL	18.0	107.0	19.5	107.4	128.3	8	100	95	1 / 4	A
139		02/22/21	10	ASTM D698B	CL	18.0	107.0	19.2	106.7	127.2	8	100	95	1 / 4	A
140		02/22/21	10	ASTM D698B	CL	18.0	107.0	19.6	106.0	126.8	8	99	95	1 / 4	A
141		02/22/21	10	ASTM D698B	CL	18.0	107.0	19.6	106.7	127.6	8	100	95	1 / 4	A
142		02/22/21	10	ASTM D698B	CL	18.0	107.0	20.0	105.8	127.0	8	99	95	1 / 4	A
143		02/22/21	7	698A	CL	16.5	107.5	19.4	107.4	128.2	8	100	95	1 / 4	A
144		02/22/21	7	698A	CL	16.5	107.5	18.9	108.7	129.2	8	101	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
137	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11						5.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
138	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11						5.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
139	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
140	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
141	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11						3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
142	Sub-Excavation and Backfill: Lot 3 Block 5 Filing 11						3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
143	Sub-Excavation and Backfill: Lot 13 Block 3 Filing 11						18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
144	Sub-Excavation and Backfill: Lot 10 Block 3 Filing 11						18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000018
02/22/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
145		02/22/21	7	698A	CL	16.5	107.5	18.3	107.9	127.6	8	100	95	1 / 4	A
146		02/22/21	7	698A	CL	16.5	107.5	18.6	109.4	129.8	8	102	95	1 / 4	A
147		02/22/21	7	698A	CL	16.5	107.5	19.6	106.2	127.0	8	99	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
145	Sub-Excavation and Backfill: Lot 8 Block 3 Filing 11						18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
146	Sub-Excavation and Backfill: Lot 11 Block 3 Filing 11						17.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
147	Sub-Excavation and Backfill: Lot 9 Block 3 Filing 11						17.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 147: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000019
02/23/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
148		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.4	107.6	128.5	8	101	95	1 / 4	A
149		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.3	108.2	129.1	8	101	95	1 / 4	A
150		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.2	107.1	127.7	8	100	95	1 / 4	A
151		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.7	107.0	128.1	8	100	95	1 / 4	A
152		02/23/21	10	ASTM D698B	CL	18.0	107.0	20.1	106.5	127.9	8	100	95	1 / 4	A
153		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.7	107.6	128.8	8	101	95	1 / 4	A
154		02/23/21	10	ASTM D698B	CL	18.0	107.0	20.4	107.6	129.6	8	101	95	1 / 4	A
155		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.1	106.9	127.3	8	100	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
148	Sub-Excavation and Backfill: Lot 2 Block 5 Filing 11						2.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
149	Sub-Excavation and Backfill: Lot 4 Block 5 Filing 11						2.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
150	Sub-Excavation and Backfill: Lot 1 Block 5 Filing 11						1.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
151	Sub-Excavation and Backfill: Lot 3 Block 5 Filing 11						1.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
152	Sub-Excavation and Backfill: Lot 5 Block 5 Filing 11						1.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
153	Sub-Excavation and Backfill: Lot 12 Block 3 Filing 11						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
154	Sub-Excavation and Backfill: Lot 11 Block 3 Filing 11						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
155	Sub-Excavation and Backfill: Lot 7 Block 3 Filing 11						16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000019
02/23/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
156		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.9	107.3	128.6	8	100	95	1 / 4	A
157		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.2	106.9	127.4	8	100	95	1 / 4	A
158		02/23/21	10	ASTM D698B	CL	18.0	107.0	20.1	107.7	129.3	8	101	95	1 / 4	A
159		02/23/21	10	ASTM D698B	CL	18.0	107.0	19.4	106.9	127.6	8	100	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
156	Sub-Excavation and Backfill: Lot 14 Block 3 Filing 11						15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
157	Sub-Excavation and Backfill: Lot 9 Block 3 Filing 11						15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
158	Sub-Excavation and Backfill: Lot 13 Block 3 Filing 11						13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
159	Sub-Excavation and Backfill: Lot 8 Block 3 Filing 11						13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 159: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000020
02/24/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
160		02/24/21	7	698A	CL	16.5	107.5	18.4	107.1	126.8	8	100	95	1 / 4	A
161		02/24/21	7	698A	CL	16.5	107.5	18.2	108.0	127.7	8	100	95	1 / 4	A
162		02/24/21	7	698A	CL	16.5	107.5	18.3	107.5	127.2	8	100	95	1 / 4	A
163		02/24/21	7	698A	CL	16.5	107.5	17.6	107.5	126.4	8	100	95	1 / 4	A
164		02/24/21	7	698A	CL	16.5	107.5	18.3	108.5	128.4	8	101	95	1 / 4	A
165		02/24/21	7	698A	CL	16.5	107.5	19.0	107.4	127.8	8	100	95	1 / 4	A
166		02/24/21	7	698A	CL	16.5	107.5	17.5	107.7	126.6	8	100	95	1 / 4	A
167		02/24/21	7	698A	CL	16.5	107.5	19.0	107.6	128.0	8	100	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
160	Sub-Excavation and Backfill: Lot 14 Block 3 Filing 11							12.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
161	Sub-Excavation and Backfill: Lot 10 Block 3 Filing 11							12.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
162	Sub-Excavation and Backfill: Lot 9 Block 3 Filing 11							12.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
163	Sub-Excavation and Backfill: Lot 12 Block 3 Filing 11							11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
164	Sub-Excavation and Backfill: Lot 8 Block 3 Filing 11							11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
165	Sub-Excavation and Backfill: Lot 8 Block 3 Filing 11							10.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
166	Sub-Excavation and Backfill: Lot 10 Block 3 Filing 11							10.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
167	Sub-Excavation and Backfill: Lot 13 Block 3 Filing 11							10.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000020
02/24/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
168		02/24/21	7	698A	CL	16.5	107.5	19.6	105.9	126.7	8	99	95	1 / 4	A
169		02/24/21	7	698A	CL	16.5	107.5	17.5	107.5	126.3	8	100	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
168	Sub-Excavation and Backfill: Lot 12 Block 3 Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
169	Sub-Excavation and Backfill: Lot 9 Block 3 Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 169: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000021
02/25/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
170		02/25/21	7	698A	CL	16.5	107.5	9.8	122.0	134.0	8	113	95	NA	D
Test Information															
Test #	Test Location							Elevation	Reference			Gauge Make / Model / SN / Calibrated		Field Technician	
170	Cancelled on Site: Sub-excavation and backfill											XPLOER / 3500 / 2026 / 04/14/2020		Eaton, Jesse	
Remarks					Comments										
D: Test result is considered acceptable with no moisture requirement.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 170: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. Testing was cancelled on site due to inclement weather.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000022
02/26/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
171		02/26/21	7	698A	CL	16.5	107.5	18.0	108.4	127.9	8	101	95	1 / 4	A
172		02/26/21	7	698A	CL	16.5	107.5	17.9	107.4	126.6	8	100	95	1 / 4	A
173		02/26/21	7	698A	CL	16.5	107.5	17.5	109.0	128.1	8	101	95	1 / 4	A
174		02/26/21	10	ASTM D698B	CL	18.0	107.0	19.3	107.5	128.2	8	100	95	1 / 4	A
175		02/26/21	10	ASTM D698B	CL	18.0	107.0	19.0	107.0	127.3	8	100	95	1 / 4	A
176		02/26/21	10	ASTM D698B	CL	18.0	107.0	19.7	107.8	129.0	8	101	95	1 / 4	A
177		02/26/21	10	ASTM D698B	CL	18.0	107.0	20.3	106.0	127.5	8	99	95	1 / 4	A
178		02/26/21	10	ASTM D698B	CL	18.0	107.0	20.2	106.3	127.8	8	99	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
171	Sub-Excavation and Backfill: Lot 16 Block 3 Filing 11							18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
172	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
173	Sub-Excavation and Backfill: Lot 4 Block 3 Filing 11							18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
174	Sub-Excavation and Backfill: Lot 12 Block 3 Filing 11							8.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
175	Sub-Excavation and Backfill: Lot 13 Block 3 Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
176	Sub-Excavation and Backfill: Lot 13 Block 3 Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
177	Sub-Excavation and Backfill: Lot 10 Block 3 Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
178	Sub-Excavation and Backfill: Lot 8 Block 3 Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000022
02/26/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
179		02/26/21	10	ASTM D698B	CL	18.0	107.0	19.7	105.5	126.3	8	99	95	1 / 4	A
180		02/26/21	10	ASTM D698B	CL	18.0	107.0	20.7	105.2	127.0	8	98	95	1 / 4	A
181		02/26/21	10	ASTM D698B	CL	18.0	107.0	19.4	106.2	126.8	8	99	95	1 / 4	A
182		02/26/21	10	ASTM D698B	CL	18.0	107.0	20.5	105.9	127.6	8	99	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
179	Sub-Excavation and Backfill: Lot 7 Block 3 Filing 11							5.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
180	Sub-Excavation and Backfill: Lot 7 Block 3 Filing 11							5.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
181	Sub-Excavation and Backfill: Lot 9 Block 3 Filing 11							4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
182	Sub-Excavation and Backfill: Lot 11 Block 3 Filing 11							4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 182: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000023
03/01/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
183		03/01/21	5	698A	SC	13.5	114.5	14.8	113.1	129.8	8	99	95	-2 / 2	A
184		03/01/21	5	698A	SC	13.5	114.5	13.9	113.4	129.2	8	99	95	-2 / 2	A
185		03/01/21	5	698A	SC	13.5	114.5	14.2	112.8	128.8	8	99	95	-2 / 2	A
186		03/01/21	5	698A	SC	13.5	114.5	13.5	113.0	128.2	8	99	95	-2 / 2	A
187		03/01/21	5	698A	SC	13.5	114.5	14.2	111.8	127.7	8	98	95	-2 / 2	A
188		03/01/21	5	698A	SC	13.5	114.5	14.7	112.9	129.5	8	99	95	-2 / 2	A
189		03/01/21	5	698A	SC	13.5	114.5	12.5	113.1	127.2	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
183	Sub-Excavation and Backfill: Lot 17 Block 3 Filing 11							17.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
184	Sub-Excavation and Backfill: Lot 3 Block 3 Filing 11							16.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
185	Sub-Excavation and Backfill: Lot 6 Block 3 Filing 11							15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
186	Sub-Excavation and Backfill: Lot 15 Block 3 Filing 11							15.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
187	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							14.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
188	Sub-Excavation and Backfill: Lot 4 Block 3 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
189	Sub-Excavation and Backfill: Lot 1 Block 3 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 189: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000024
03/02/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
190		03/02/21	5	698A	SC	13.5	114.5	12.9	112.8	127.4	8	99	95	-2 / 2	A
191		03/02/21	5	698A	SC	13.5	114.5	13.4	112.9	128.0	8	99	95	-2 / 2	A
192		03/02/21	5	698A	SC	13.5	114.5	12.7	113.5	127.9	8	99	95	-2 / 2	A
193		03/02/21	5	698A	SC	13.5	114.5	13.4	111.9	126.9	8	98	95	-2 / 2	A
194		03/02/21	5	698A	SC	13.5	114.5	12.3	112.5	126.3	8	98	95	-2 / 2	A
195		03/02/21	5	698A	SC	13.5	114.5	12.5	112.8	126.9	8	99	95	-2 / 2	A
196		03/02/21	7	698A	CL	16.5	107.5	18.0	109.1	128.7	8	101	95	1 / 4	A
197		03/02/21	7	698A	CL	16.5	107.5	19.8	108.3	129.7	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
190	Sub-Excavation and Backfill: Lot 17 Block 3 Filing 11							12.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
191	Sub-Excavation and Backfill: Lot 4 Block 3 Filing 11							12.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
192	Sub-Excavation and Backfill: Lot 1 Block 3 Filing 11							11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
193	Sub-Excavation and Backfill: Lot 2 Block 3 Filing 11							11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
194	Sub-Excavation and Backfill: Lot 6 Block 3 Filing 11							11.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
195	Sub-Excavation and Backfill: Lot 5 Block 3 Filing 11							10.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
196	Sub-Excavation and Backfill: Lot 15 Block 3 Filing 11							10.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
197	Sub-Excavation and Backfill: Lot 11 Block 3 Filing 11							5.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000024
03/02/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
198		03/02/21	7	698A	CL	16.5	107.5	18.0	108.6	128.1	8	101	95	1 / 4	A
199		03/02/21	7	698A	CL	16.5	107.5	17.8	108.7	128.0	8	101	95	1 / 4	A
200		03/02/21	7	698A	CL	16.5	107.5	17.6	107.6	126.5	8	100	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
198	Sub-Excavation and Backfill: Lot 12 Block 3 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
199	Sub-Excavation and Backfill: Lot 10 Block 3 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
200	Sub-Excavation and Backfill: Lot 7 Block 3 Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 200: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
03/03/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
201		03/03/21	5	698A	SC	13.5	114.5	14.0	113.1	128.9	8	99	95	-2 / 2	A
202		03/03/21	5	698A	SC	13.5	114.5	14.3	112.2	128.3	8	98	95	-2 / 2	A
203		03/03/21	5	698A	SC	13.5	114.5	14.8	112.3	128.9	8	98	95	-2 / 2	A
204		03/03/21	5	698A	SC	13.5	114.5	12.5	112.3	126.3	8	98	95	-2 / 2	A
205		03/03/21	5	698A	SC	13.5	114.5	13.7	113.3	128.8	8	99	95	-2 / 2	A
206		03/03/21	5	698A	SC	13.5	114.5	14.5	111.8	128.0	8	98	95	-2 / 2	A
207		03/03/21	5	698A	SC	13.5	114.5	12.5	111.8	125.8	8	98	95	-2 / 2	A
208		03/03/21	5	698A	SC	13.5	114.5	13.5	111.8	126.9	8	98	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
201	Sub-Excavation and Backfill: Lot 1 Block 1 Filing 11							18.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
202	Sub-Excavation and Backfill: Lot 4 Block 1 Filing 11							18.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
203	Sub-Excavation and Backfill: Lot 7 Block 1 Filing 11							18.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
204	Sub-Excavation and Backfill: Lot 2 Block 1 Filing 11							17.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
205	Sub-Excavation and Backfill: Lot 5 Block 1 Filing 11							17.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
206	Sub-Excavation and Backfill: Lot 7 Block 1 Filing 11							16.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
207	Sub-Excavation and Backfill: Lot 9 Block 1 Filing 11							16.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
208	Sub-Excavation and Backfill: Lot 1 Block 1 Filing 11							15.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
03/03/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
209		03/03/21	5	698A	SC	13.5	114.5	14.0	112.1	127.8	8	98	95	-2 / 2	A
210		03/03/21	5	698A	SC	13.5	114.5	13.2	112.2	127.0	8	98	95	-2 / 2	A
211		03/03/21	5	698A	SC	13.5	114.5	14.0	113.2	129.1	8	99	95	-2 / 2	A
212		03/03/21	7	698A	CL	16.5	107.5	19.4	107.2	128.0	8	100	95	1 / 4	A
213		03/03/21	7	698A	CL	16.5	107.5	18.1	108.4	128.0	8	101	95	1 / 4	A
214		03/03/21	7	698A	CL	16.5	107.5	18.7	109.0	129.4	8	101	95	1 / 4	A
215		03/03/21	7	698A	CL	16.5	107.5	19.4	107.8	128.7	8	100	95	1 / 4	A
216		03/03/21	7	698A	CL	16.5	107.5	18.3	108.2	128.0	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
209	Sub-Excavation and Backfill: Lot 3 Block 1 Filing 11							15.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
210	Sub-Excavation and Backfill: Lot 4 Block 1 Filing 11							14.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
211	Sub-Excavation and Backfill: Lot 8 Block 1 Filing 11							14.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
212	Sub-Excavation and Backfill: Lot 16 Block 3 Filing 11							9.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
213	Sub-Excavation and Backfill: Lot 4 Block 3 Filing 11							9.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
214	Sub-Excavation and Backfill: Lot 1 Block 3 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
215	Sub-Excavation and Backfill: Lot 5 Block 3 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
216	Sub-Excavation and Backfill: Lot 17 Block 3 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
03/03/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
217		03/03/21	7	698A	CL	16.5	107.5	19.5	107.2	128.1	8	100	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
217	Sub-Excavation and Backfill: Lot 3 Block 3 Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 217: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000026
03/04/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
219		03/04/21	5	698A	SC	13.5	114.5	14.5	114.6	131.2	8	100	95	-2 / 2	A
220		03/04/21	5	698A	SC	13.5	114.5	13.9	114.0	129.8	8	100	95	-2 / 2	A
221		03/04/21	5	698A	SC	13.5	114.5	13.6	116.0	131.8	8	101	95	-2 / 2	A
222		03/04/21	5	698A	SC	13.5	114.5	13.8	115.8	131.8	8	101	95	-2 / 2	A
223		03/04/21	5	698A	SC	13.5	114.5	14.8	114.6	131.6	8	100	95	-2 / 2	A
224		03/04/21	5	698A	SC	13.5	114.5	14.2	113.5	129.6	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
219	Sub-Excavation and Backfill: Lot 2 Block 1 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
220	Sub-Excavation and Backfill: Lot 5 Block 1 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
221	Sub-Excavation and Backfill: Lot 8 Block 1 Filing 11							13.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
222	Sub-Excavation and Backfill: Lot 1 Block 1 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
223	Sub-Excavation and Backfill: Lot 4 Block 1 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
224	Sub-Excavation and Backfill: Lot 8 Block 1 Filing 11							12.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 224: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process/compact the fill with the tractor with discs.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000027
03/05/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
218		03/05/21	5	698A	SC	13.5	114.5	14.1	115.3	131.5	8	101	95	-2 / 2	A
225		03/05/21	16	698A	CL	15.5	111.0	17.1	111.4	130.5	8	100	95	1 / 4	A
226		03/05/21	5	698A	SC	13.5	114.5	12.9	112.9	127.5	8	99	95	-2 / 2	A
227		03/05/21	5	698A	SC	13.5	114.5	14.7	114.6	131.5	8	100	95	-2 / 2	A
228		03/05/21	3	ASTM D698B	SC	12.5	117.0	10.6	114.0	126.1	8	97	95	-2 / 2	A
229		03/05/21	3	ASTM D698B	SC	12.5	117.0	12.7	115.4	130.0	8	99	95	-2 / 2	A
230		03/05/21	5	698A	SC	13.5	114.5	13.5	114.4	129.9	8	100	95	-2 / 2	A
231		03/05/21	17	698A	SC	12.5	117.5	11.2	116.5	129.6	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
218	Sub-Excavation and Backfill: Lot 1A Block 3 Filing 11							7.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew	
225	Sub-Excavation and Backfill: Lot 2A Block 3 Filing 11							7.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew	
226	Sub-Excavation and Backfill: Lot 3A Block 3 Filing 11							6.5	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew	
227	Sub-Excavation and Backfill: Lot 4B Block 3 Filing 11							8.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew	
228	Sub-Excavation and Backfill: Lot 5B Block 3 Filing 11							7.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew	
229	Sub-Excavation and Backfill: Lot 6B Block 3 Filing 11							7.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew	
230	Street Sub-Excavation and Backfill: Filing 11 Block 3, Field Mint Point N of Lot 2A							7.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew	
231	Street Sub-Excavation and Backfill: Filing 11 Block 3, Field Mint Point N of Lot 3A							7.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000027
03/05/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
232		03/05/21	5	698A	SC	13.5	114.5	13.7	115.4	131.2	8	101	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference			Gauge Make / Model / SN / Calibrated		Field Technician	
232	Street Sub-Excavation and Backfill: Filing 11 Block 3, Field Mint Point N of Lot 5B							7.0	BG			XPLOER / 3500 / 3184 / 03/18/2020		Murphy, Andrew	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 232: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor remove snow from the testing area prior to the placement of new fill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000028
03/08/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
233		03/08/21	5	698A	SC	13.5	114.5	15.4	111.1	128.2	8	97	95	-2 / 2	A
234		03/08/21	3	ASTM D698B	SC	12.5	117.0	12.6	114.1	128.5	8	98	95	-2 / 2	A
235		03/08/21	16	698A	CL	15.5	111.0	18.6	109.9	130.3	8	99	95	1 / 4	A
236		03/08/21	5	698A	SC	13.5	114.5	14.1	111.7	127.4	8	98	95	-2 / 2	A
237		03/08/21	9	698A	CL	20.5	103.5	21.5	101.0	122.7	8	98	95	1 / 4	A
238		03/08/21	10	ASTM D698B	CL	18.0	107.0	19.3	102.0	121.7	8	95	95	1 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
233	Sub-Excavation and Backfill: Lot 1A Block 3 Filing 11						5.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew		
234	Sub-Excavation and Backfill: Lot 2A Block 3 Filing 11						5.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew		
235	Sub-Excavation and Backfill: Lot 3A Block 3 Filing 11						5.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew		
236	Sub-Excavation and Backfill: Lot 4B Block 3 Filing 11						4.5	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew		
237	Sub-Excavation and Backfill: Lot 5B Block 3 Filing 11						4.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew		
238	Sub-Excavation and Backfill: Lot 6B Block 3 Filing 11						4.0	BG		XPLOER / 3500 / 3184 / 03/18/2020			Murphy, Andrew		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 238: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process the fill with the tractor with discs. Compactive effort was applied with equipment traffic.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000029
03/09/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
239		03/09/21	5	698A	SC	13.5	114.5	13.7	115.1	130.9	8	101	95	-2 / 2	A
240		03/09/21	5	698A	SC	13.5	114.5	14.9	112.4	129.1	8	98	95	-2 / 2	A
241		03/09/21	5	698A	SC	13.5	114.5	15.0	114.3	131.5	8	100	95	-2 / 2	A
242		03/09/21	7	698A	CL	16.5	107.5	18.9	109.1	129.7	8	101	95	1 / 4	A
243		03/09/21	7	698A	CL	16.5	107.5	18.7	108.5	128.8	8	101	95	1 / 4	A
244		03/09/21	7	698A	CL	16.5	107.5	19.5	108.2	129.3	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
239	Sub-Excavation and Backfill: Lot 17 Block 3 Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
240	Sub-Excavation and Backfill: Lot 3 Block 3 Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
241	Sub-Excavation and Backfill: Lot 6 Block 3 Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
242	Sub-Excavation and Backfill: Lot 8 Block 3 Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
243	Sub-Excavation and Backfill: Lot 10 Block 3 Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
244	Sub-Excavation and Backfill: Lot 13 Block 3 Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 244: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process/compact the fill with the tractor with discs.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000030
03/10/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
245		03/10/21	7	698A	CL	16.5	107.5	19.5	107.4	128.3	8	100	95	1 / 4	A
246		03/10/21	7	698A	CL	16.5	107.5	20.2	107.1	128.7	8	100	95	1 / 4	A
247		03/10/21	7	698A	CL	16.5	107.5	19.0	108.4	129.0	8	101	95	1 / 4	A
248		03/10/21	7	698A	CL	16.5	107.5	19.3	107.1	127.8	8	100	95	1 / 4	A
249		03/10/21	7	698A	CL	16.5	107.5	18.2	108.4	128.1	8	101	95	1 / 4	A
250		03/10/21	7	698A	CL	16.5	107.5	17.9	108.5	127.9	8	101	95	1 / 4	A
251		03/10/21	7	698A	CL	16.5	107.5	18.3	107.9	127.6	8	100	95	1 / 4	A
252		03/10/21	7	698A	CL	16.5	107.5	19.3	107.3	128.0	8	100	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
245	Sub-Excavation and Backfill: Lot 6 Block 3 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
246	Sub-Excavation and Backfill: Lot 10 Block 3 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
247	Sub-Excavation and Backfill: Lot 14 Block 3 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
248	Sub-Excavation and Backfill: Lot 11 Block 3 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
249	Sub-Excavation and Backfill: Lot 9 Block 3 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
250	Sub-Excavation and Backfill: Lot 8 Block 3 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
251	Sub-Excavation and Backfill: Lot 6 Block 3 Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
252	Sub-Excavation and Backfill: Lot 9 Block 3 Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000030
03/10/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
253		03/10/21	7	698A	CL	16.5	107.5	19.4	107.6	128.5	8	100	95	1 / 4	A
254		03/10/21	7	698A	CL	16.5	107.5	18.8	108.3	128.7	8	101	95	1 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
253	Sub-Excavation and Backfill: Lot 10 Block 3 Filing 11							1.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
254	Sub-Excavation and Backfill: Lot 13 Block 3 Filing 11							1.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 254: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process/compact the fill with the tractor with discs.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000031
03/11/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
255		03/11/21	5	698A	SC	13.5	114.5	15.4	111.7	128.9	8	98	95	-2 / 2	A
256		03/11/21	5	698A	SC	13.5	114.5	15.0	112.3	129.1	8	98	95	-2 / 2	A
257		03/11/21	5	698A	SC	13.5	114.5	14.0	113.0	128.8	8	99	95	-2 / 2	A
258		03/11/21	5	698A	SC	13.5	114.5	14.0	113.0	128.8	8	99	95	-2 / 2	A
259		03/11/21	5	698A	SC	13.5	114.5	13.3	112.5	127.5	8	98	95	-2 / 2	A
260		03/11/21	5	698A	SC	13.5	114.5	15.1	112.8	129.8	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
255	Sub-Excavation and Backfill: Lot 1 Block 1 Filing 11							11.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
256	Sub-Excavation and Backfill: Lot 3 Block 1 Filing 11							11.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
257	Sub-Excavation and Backfill: Lot 7 Block 1 Filing 11							11.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
258	Sub-Excavation and Backfill: Lot 9 Block 1 Filing 11							10.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
259	Sub-Excavation and Backfill: Lot 6 Block 1 Filing 11							10.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
260	Sub-Excavation and Backfill: Lot 2 Block 1 Filing 11							10.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 260: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process/compact the fill with the tractor with discs.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000032
03/12/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
261		03/12/21	17	698A	SC	12.5	117.5	12.9	114.7	129.5	8	98	95	-2 / 2	A
262		03/12/21	17	698A	SC	12.5	117.5	12.3	115.9	130.2	8	99	95	-2 / 2	A
263		03/12/21	17	698A	SC	12.5	117.5	12.6	114.7	129.1	8	98	95	-2 / 2	A
264		03/12/21	17	698A	SC	12.5	117.5	12.4	116.3	130.7	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
261	Sub-Excavation and Backfill: Lot 10 Block 1 Filing 11						9.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
262	Sub-Excavation and Backfill: Lot 7 Block 1 Filing 11						9.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
263	Sub-Excavation and Backfill: Lot 4 Block 1 Filing 11						9.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
264	Sub-Excavation and Backfill: Lot 1 Block 1 Filing 11						9.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 264: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process/compact the fill with the tractor with discs.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000033
03/18/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
265		03/18/21	5	698A	SC	13.5	114.5	12.9	113.6	128.2	8	99	95	-2 / 2	A
266		03/18/21	5	698A	SC	13.5	114.5	13.4	114.2	129.5	8	100	95	-2 / 2	A
267		03/18/21	5	698A	SC	13.5	114.5	13.1	112.6	127.4	8	98	95	-2 / 2	A
268		03/18/21	5	698A	SC	13.5	114.5	12.7	112.3	126.6	8	98	95	-2 / 2	A
269		03/18/21	5	698A	SC	13.5	114.5	13.5	112.8	128.0	8	99	95	-2 / 2	A
270		03/18/21	5	698A	SC	13.5	114.5	14.1	113.0	128.9	8	99	95	-2 / 2	A
271		03/18/21	5	698A	SC	13.5	114.5	14.4	113.5	129.9	8	99	95	-2 / 2	A
272		03/18/21	5	698A	SC	13.5	114.5	13.2	113.7	128.7	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
265	Sub-Excavation and Backfill: Lot 3 Block 1 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
266	Sub-Excavation and Backfill: Lot 6 Block 1 Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
267	Sub-Excavation and Backfill: Lot 9 Block 1 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
268	Sub-Excavation and Backfill: Lot 8 Block 1 Filing 11							6.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
269	Sub-Excavation and Backfill: Lot 5 Block 1 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
270	Sub-Excavation and Backfill: Lot 2 Block 1 Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
271	Sub-Excavation and Backfill: Lot 1 Block 1 Filing 11							6.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
272	Sub-Excavation and Backfill: Lot 4 Block 1 Filing 11							6.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000033
03/18/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
273		03/18/21	5	698A	SC	13.5	114.5	13.5	112.1	127.2	8	98	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
273	Sub-Excavation and Backfill: Lot 4 Block 1 Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks						Comments									
A: Test results comply with specifications.						Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 273: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process/compact the fill with the tractor with discs.									



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000034
03/20/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
274		03/20/21	5	698A	SC	13.5	114.5	13.5	112.9	128.1	8	99	95	-2 / 2	A
275		03/20/21	5	698A	SC	13.5	114.5	13.3	112.8	127.8	8	99	95	-2 / 2	A
276		03/20/21	5	698A	SC	13.5	114.5	14.1	113.4	129.4	8	99	95	-2 / 2	A
277		03/20/21	5	698A	SC	13.5	114.5	12.4	113.6	127.7	8	99	95	-2 / 2	A
278		03/20/21	5	698A	SC	13.5	114.5	12.8	113.5	128.0	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
274	Sub-Excavation and Backfill: Lot 1 Block 6 Filing 11							19.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
275	Sub-Excavation and Backfill: Lot 2 Block 6 Filing 11							19.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
276	Sub-Excavation and Backfill: Lot 5 Block 6 Filing 11							19.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
277	Sub-Excavation and Backfill: Lot 6 Block 6 Filing 11							18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
278	Sub-Excavation and Backfill: Lot 3 Block 6 Filing 11							18.0	BG		XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 278: As requested by Mike with Kelley Trucking, a site visit was made to observe and test sub-excavation and backfill. We observed the contractor place fill with the scraper, add moisture with the water truck, and process/compact the fill with the tractor with discs.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000035
03/30/2021
Report Date: 07/28/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-310
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
279		03/30/21	5	698A	SC	13.5	114.5	14.0	113.7	129.6	8	99	95	-2 / 2	A
280		03/30/21	5	698A	SC	13.5	114.5	13.1	112.9	127.7	8	99	95	-2 / 2	A
281		03/30/21	5	698A	SC	13.5	114.5	14.1	113.6	129.6	8	99	95	-2 / 2	A
282		03/30/21	5	698A	SC	13.5	114.5	13.3	111.9	126.8	8	98	95	-2 / 2	A
283		03/30/21	5	698A	SC	13.5	114.5	13.0	112.8	127.5	8	99	95	-2 / 2	A
284		03/30/21	5	698A	SC	13.5	114.5	13.6	113.5	128.9	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
279	Sub-Excavation and Backfill: Lot 3 Block 1 Filing 11							5.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
280	Sub-Excavation and Backfill: Lot 6 Block 1 Filing 11							4.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
281	Sub-Excavation and Backfill: Lot 8 Block 1 Filing 11							4.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
282	Sub-Excavation and Backfill: Lot 2 Block 1 Filing 11							3.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
283	Sub-Excavation and Backfill: Lot 5 Block 1 Filing 11							3.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
284	Sub-Excavation and Backfill: Lot 7 Block 1 Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/14/2020			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000001
08/21/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
1		08/21/21	7	698A	CL	16.5	107.5	17.5	107.8	126.7	8	100	95	0 / 4	A
2		08/21/21	7	698A	CL	16.5	107.5	17.3	107.8	126.4	8	100	95	0 / 4	A
3		08/21/21	7	698A	CL	16.5	107.5	16.6	108.1	126.0	8	101	95	0 / 4	A
4		08/21/21	7	698A	CL	16.5	107.5	17.5	107.0	125.7	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
1	Sanitary Trench Backfill: Mainline Lot 9 Block 1 Filing 11 Field Mint Point.						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
2	Sanitary Trench Backfill: Mainline Lot 9 Block 1 Filing 11 Field Mint Point						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
3	Sanitary Trench Backfill: Mainline Lot 9 Block 1 Filing 11 Field Mint Point						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
4	Sanitary Trench Backfill: Mainline. Lot 10 Block 1 Filing 11 Field Mint Point						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 4: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000002
08/25/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
5		08/25/21	8	698A	CL	18.0	109.0	20.1	106.1	127.4	8	97	95	0 / 4	A
6		08/25/21	8	698A	CL	18.0	109.0	20.8	106.2	128.3	8	97	95	0 / 4	A
7		08/25/21	8	698A	CL	18.0	109.0	20.1	106.2	127.5	8	97	95	0 / 4	A
8		08/25/21	8	698A	CL	18.0	109.0	19.7	106.3	127.2	8	98	95	0 / 4	A
9		08/25/21	8	698A	CL	18.0	109.0	20.5	106.1	127.8	8	97	95	0 / 4	A
10		08/25/21	8	698A	CL	18.0	109.0	20.7	106.3	128.3	8	98	95	0 / 4	A
11		08/25/21	8	698A	CL	18.0	109.0	19.1	106.6	127.0	8	98	95	0 / 4	A
12		08/25/21	8	698A	CL	18.0	109.0	20.6	105.7	127.5	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
5	Sanitary Trench Backfill: Lot 3 Block 2							3.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
6	Sanitary Trench Backfill: Lot 3 Block 2							2.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
7	Sanitary Trench Backfill: Lot 3 Block 2							1.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
8	Sanitary Trench Backfill: Lot 7 Block 1							3.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
9	Sanitary Trench Backfill: Lot 7 Block 1							2.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
10	Sanitary Trench Backfill: Lot 7 Block 1							1.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
11	Sanitary Trench Backfill: Adjacent to Lot 7 Block 1							3.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
12	Sanitary Trench Backfill: Adjacent to Lot 7 Block 1							2.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000002
08/25/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
13		08/25/21	8	698A	CL	18.0	109.0	20.8	106.1	128.2	8	97	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
13	Sanitary Trench Backfill: Adjacent to Lot 7 Block 1						1.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 13: As requested by JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place the fill with the loader, add moisture with the water wagon, and apply compactive effort with the rex roller.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000003
08/26/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
14		08/26/21	16	698A	CL	15.5	111.0	17.4	107.7	126.4	8	97	95	0 / 4	A
15		08/26/21	16	698A	CL	15.5	111.0	17.8	108.1	127.3	8	97	95	0 / 4	A
16		08/26/21	16	698A	CL	15.5	111.0	17.0	107.3	125.5	8	97	95	0 / 4	A
17		08/26/21	16	698A	CL	15.5	111.0	17.1	107.9	126.4	8	97	95	0 / 4	A
18		08/26/21	16	698A	CL	15.5	111.0	16.5	109.3	127.3	8	98	95	0 / 4	A
19		08/26/21	16	698A	CL	15.5	111.0	16.7	107.5	125.4	8	97	95	0 / 4	A
20		08/26/21	16	698A	CL	15.5	111.0	18.0	107.3	126.6	8	97	95	0 / 4	A
21		08/26/21	16	698A	CL	15.5	111.0	18.2	107.8	127.4	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
14	Sanitary Trench Backfill: Adjacent to Lot 1 Block 1							12.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
15	Sanitary Trench Backfill: Adjacent to Lot 2 Block 1							11.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
16	Sanitary Trench Backfill: Adjacent to Lot 1 Block 1							10.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
17	Sanitary Trench Backfill: Lot 6 Block 1							3.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
18	Sanitary Trench Backfill: Lot 6 Block 1							2.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
19	Sanitary Trench Backfill: Lot 6 Block 1							1.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
20	Sanitary Trench Backfill: Lot 5 Block 1							3.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
21	Sanitary Trench Backfill: Lot 5 Block 1							2.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000003
08/26/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
22		08/26/21	16	698A	CL	15.5	111.0	17.0	107.5	125.8	8	97	95	0 / 4	A
23		08/26/21	16	698A	CL	15.5	111.0	17.8	107.7	126.9	8	97	95	0 / 4	A
24		08/26/21	16	698A	CL	15.5	111.0	16.6	107.6	125.5	8	97	95	0 / 4	A
25		08/26/21	16	698A	CL	15.5	111.0	17.4	108.6	127.5	8	98	95	0 / 4	A
26		08/26/21	16	698A	CL	15.5	111.0	16.1	108.3	125.7	8	98	95	0 / 4	A
27		08/26/21	16	698A	CL	15.5	111.0	17.9	107.6	126.9	8	97	95	0 / 4	A
28		08/26/21	16	698A	CL	15.5	111.0	17.3	107.6	126.2	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
22	Sanitary Trench Backfill: Lot 5 Block 1							1.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
23	Sanitary Trench Backfill: Lot 2 Block 2							3.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
24	Sanitary Trench Backfill: Lot 2 Block 2							2.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
25	Sanitary Trench Backfill: Lot 2 Block 2							1.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
26	Sanitary Trench Backfill: Lot 1 Block 2							3.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
27	Sanitary Trench Backfill: Lot 1 Block 2							2.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
28	Sanitary Trench Backfill: Lot 1 Block 2							1.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 28: As requested by JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place the fill with the loader, add moisture with the water wagon, and apply compactive effort with the rex roller.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000004
08/27/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
29		08/27/21	16	698A	CL	15.5	111.0	16.9	109.1	127.5	8	98	95	0 / 4	A
30		08/27/21	16	698A	CL	15.5	111.0	17.6	108.1	127.1	8	97	95	0 / 4	A
31		08/27/21	16	698A	CL	15.5	111.0	17.1	107.2	125.5	8	97	95	0 / 4	A
32		08/27/21	16	698A	CL	15.5	111.0	17.9	108.0	127.3	8	97	95	0 / 4	A
33		08/27/21	16	698A	CL	15.5	111.0	17.9	108.2	127.6	8	97	95	0 / 4	A
34		08/27/21	16	698A	CL	15.5	111.0	16.1	108.9	126.4	8	98	95	0 / 4	A
35		08/27/21	16	698A	CL	15.5	111.0	17.8	107.2	126.3	8	97	95	0 / 4	A
36		08/27/21	16	698A	CL	15.5	111.0	17.8	107.6	126.8	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
29	Sanitary Trench Backfill: Adjacent to Lot 1 Block 2							2.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
30	Sanitary Trench Backfill: Adjacent to Lot 1 Block 2							1.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
31	Sanitary Trench Backfill: Adjacent to Lot 1 Block 1							9.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
32	Sanitary Trench Backfill: Adjacent to Lot 2 Block 1							8.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
33	Sanitary Trench Backfill: Adjacent to Lot 1 Block 1							7.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
34	Sanitary Trench Backfill: Adjacent to Lot 2 Block 1							6.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
35	Sanitary Trench Backfill: Lot 4 Block 1							3.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
36	Sanitary Trench Backfill: Lot 4 Block 1							2.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000004
08/27/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
37		08/27/21	16	698A	CL	15.5	111.0	18.1	107.7	127.2	8	97	95	0 / 4	A
38		08/27/21	16	698A	CL	15.5	111.0	17.5	108.1	127.0	8	97	95	0 / 4	A
39		08/27/21	16	698A	CL	15.5	111.0	18.0	108.0	127.4	8	97	95	0 / 4	A
40		08/27/21	16	698A	CL	15.5	111.0	16.2	108.2	125.7	8	97	95	0 / 4	A
41		08/27/21	16	698A	CL	15.5	111.0	18.5	108.1	128.1	8	97	95	0 / 4	A
42		08/27/21	16	698A	CL	15.5	111.0	16.3	109.1	126.9	8	98	95	0 / 4	A
43		08/27/21	16	698A	CL	15.5	111.0	16.0	108.9	126.3	8	98	95	0 / 4	A
44		08/27/21	16	698A	CL	15.5	111.0	17.7	108.2	127.3	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
37	Sanitary Trench Backfill: Lot 4 Block 1							1.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
38	Sanitary Trench Backfill: Lot 3 Block 1							12.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
39	Sanitary Trench Backfill: Lot 3 Block 1							11.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
40	Sanitary Trench Backfill: Lot 3 Block 1							10.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
41	Sanitary Trench Backfill: Lot 3 Block 1							9.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
42	Sanitary Trench Backfill: Lot 3 Block 1							8.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
43	Sanitary Trench Backfill: Lot 2 Block 1							12.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
44	Sanitary Trench Backfill: Lot 2 Block 1							11.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000004
08/27/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
45		08/27/21	16	698A	CL	15.5	111.0	16.8	107.5	125.6	8	97	95	0 / 4	A
46		08/27/21	16	698A	CL	15.5	111.0	17.1	107.9	126.3	8	97	95	0 / 4	A
47		08/27/21	16	698A	CL	15.5	111.0	18.1	107.3	126.7	8	97	95	0 / 4	A
48		08/27/21	16	698A	CL	15.5	111.0	17.0	107.4	125.7	8	97	95	0 / 4	A
49		08/27/21	16	698A	CL	15.5	111.0	17.6	108.3	127.4	8	98	95	0 / 4	A
50		08/27/21	16	698A	CL	15.5	111.0	16.6	109.1	127.2	8	98	95	0 / 4	A
51		08/27/21	16	698A	CL	15.5	111.0	17.2	107.2	125.6	8	97	95	0 / 4	A
52		08/27/21	16	698A	CL	15.5	111.0	18.0	107.5	126.9	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
45	Sanitary Trench Backfill: Lot 2 Block 1							10.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
46	Sanitary Trench Backfill: Lot 2 Block 1							9.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
47	Sanitary Trench Backfill: Lot 2 Block 1							8.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
48	Sanitary Trench Backfill: Lot 1 Block 1							12.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
49	Sanitary Trench Backfill: Lot 1 Block 1							11.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
50	Sanitary Trench Backfill: Lot 1 Block 1							10.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
51	Sanitary Trench Backfill: Lot 1 Block 1							9.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
52	Sanitary Trench Backfill: Lot 1 Block 1							8.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 52: As requested by JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place the fill with the loader, add moisture with the water wagon, and apply compactive effort with the rex roller.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000005
08/30/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
53		08/30/21	16	698A	CL	15.5	111.0	17.5	108.2	127.1	8	97	95	0 / 4	A
54		08/30/21	16	698A	CL	15.5	111.0	16.9	108.2	126.5	8	97	95	0 / 4	A
55		08/30/21	16	698A	CL	15.5	111.0	17.4	107.5	126.2	8	97	95	0 / 4	A
56		08/30/21	16	698A	CL	15.5	111.0	17.7	107.4	126.4	8	97	95	0 / 4	A
57		08/30/21	16	698A	CL	15.5	111.0	16.7	109.1	127.3	8	98	95	0 / 4	A
58		08/30/21	16	698A	CL	15.5	111.0	17.0	107.6	125.9	8	97	95	0 / 4	A
59		08/30/21	16	698A	CL	15.5	111.0	18.0	107.4	126.7	8	97	95	0 / 4	A
60		08/30/21	16	698A	CL	15.5	111.0	16.7	108.5	126.6	8	98	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
53	Sanitary Trench Backfill: Lot 8 Block 1							6.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
54	Sanitary Trench Backfill: Lot 8 Block 1							5.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
55	Sanitary Trench Backfill: Lot 8 Block 1							4.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
56	Sanitary Trench Backfill: Lot 8 Block 1							3.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
57	Sanitary Trench Backfill: Lot 8 Block 1							2.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
58	Sanitary Trench Backfill: Lot 8 Block 1							1.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
59	Sanitary Trench Backfill: Lot 9 Block 1							6.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
60	Sanitary Trench Backfill: Lot 9 Block 1							5.0	BG	XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000005
08/30/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
61		08/30/21	16	698A	CL	15.5	111.0	16.8	107.9	126.0	8	97	95	0 / 4	A
62		08/30/21	16	698A	CL	15.5	111.0	17.4	108.0	126.8	8	97	95	0 / 4	A
63		08/30/21	16	698A	CL	15.5	111.0	18.3	107.8	127.5	8	97	95	0 / 4	A
64		08/30/21	16	698A	CL	15.5	111.0	18.0	107.8	127.2	8	97	95	0 / 4	A
65		08/30/21	16	698A	CL	15.5	111.0	17.4	107.9	126.7	8	97	95	0 / 4	A
66		08/30/21	16	698A	CL	15.5	111.0	18.1	107.9	127.4	8	97	95	0 / 4	A
67		08/30/21	16	698A	CL	15.5	111.0	16.8	108.3	126.5	8	98	95	0 / 4	A
68		08/30/21	16	698A	CL	15.5	111.0	16.7	108.1	126.2	8	97	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
61	Sanitary Trench Backfill: Lot 9 block 1						4.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
62	Sanitary Trench Backfill: Lot 9 block 1						3.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
63	Sanitary Trench Backfill: Lot 9 block 1						2.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
64	Sanitary Trench Backfill: Lot 9 block 1						1.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
65	Sanitary Trench Backfill: Adjacent to Lot 8 Block 1						6.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
66	Sanitary Trench Backfill: Adjacent to Lot 9 Block 1						5.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
67	Sanitary Trench Backfill: Adjacent to Lot 8 Block 1						4.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
68	Sanitary Trench Backfill: Adjacent to Lot 9 Block 1						3.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000005
08/30/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
69		08/30/21	16	698A	CL	15.5	111.0	17.8	107.9	127.1	8	97	95	0 / 4	A
70		08/30/21	16	698A	CL	15.5	111.0	18.3	107.9	127.6	8	97	95	0 / 4	A
71		08/30/21	16	698A	CL	15.5	111.0	17.7	107.9	127.0	8	97	95	0 / 4	A
72		08/30/21	16	698A	CL	15.5	111.0	16.4	108.8	126.6	8	98	95	0 / 4	A
73		08/30/21	16	698A	CL	15.5	111.0	17.9	108.1	127.4	8	97	95	0 / 4	A
74		08/30/21	16	698A	CL	15.5	111.0	17.1	107.9	126.3	8	97	95	0 / 4	A
75		08/30/21	16	698A	CL	15.5	111.0	17.1	108.2	126.7	8	97	95	0 / 4	A
76		08/30/21	16	698A	CL	15.5	111.0	16.6	108.3	126.3	8	98	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
69	Sanitary Trench Backfill: Adjacent to Lot 8 Block 1							2.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
70	Sanitary Trench Backfill: Adjacent to Lot 8 Block 1							1.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
71	Sanitary Trench Backfill: Lot 3 Block 1							7.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
72	Sanitary Trench Backfill: Lot 3 Block 1							6.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
73	Sanitary Trench Backfill: Lot 3 Block 1							5.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
74	Sanitary Trench Backfill: Lot 3 Block 1							4.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
75	Sanitary Trench Backfill: Lot 2 Block 1							7.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
76	Sanitary Trench Backfill: Lot 2 Block 1							6.0	BG		XPLOER / 3500 / 2418 / 04/20/2021			Abbott, Bay	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000005
08/30/2021
Report Date: 09/17/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
77		08/30/21	16	698A	CL	15.5	111.0	17.8	108.0	127.2	8	97	95	0 / 4	A
78		08/30/21	16	698A	CL	15.5	111.0	17.8	107.7	126.9	8	97	95	0 / 4	A
79		08/30/21	16	698A	CL	15.5	111.0	18.0	107.6	127.0	8	97	95	0 / 4	A
80		08/30/21	16	698A	CL	15.5	111.0	16.4	108.4	126.2	8	98	95	0 / 4	A
81		08/30/21	16	698A	CL	15.5	111.0	18.4	107.8	127.6	8	97	95	0 / 4	A
82		08/30/21	16	698A	CL	15.5	111.0	16.8	108.5	126.7	8	98	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
77	Sanitary Trench Backfill: Lot 2 Block 1	5.0	BG	XPLOER / 3500 / 2418 / 04/20/2021	Abbott, Bay
78	Sanitary Trench Backfill: Lot 2 Block 1	4.0	BG	XPLOER / 3500 / 2418 / 04/20/2021	Abbott, Bay
79	Sanitary Trench Backfill: Lot 1 Block 1	7.0	BG	XPLOER / 3500 / 2418 / 04/20/2021	Abbott, Bay
80	Sanitary Trench Backfill: Lot 1 Block 1	6.0	BG	XPLOER / 3500 / 2418 / 04/20/2021	Abbott, Bay
81	Sanitary Trench Backfill: Lot 1 Block 1	5.0	BG	XPLOER / 3500 / 2418 / 04/20/2021	Abbott, Bay
82	Sanitary Trench Backfill: Lot 1 Block 1	4.0	BG	XPLOER / 3500 / 2418 / 04/20/2021	Abbott, Bay

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 82: As requested by JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place the fill with the loader, add moisture with the water wagon, and apply compactive effort with the rex roller.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000006
08/23/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
83		08/23/21	16	698A	CL	15.5	111.0	15.9	109.6	127.0	8	99	95	0 / 3	A
84		08/23/21	16	698A	CL	15.5	111.0	15.9	110.3	127.8	8	99	95	0 / 3	A
85		08/23/21	16	698A	CL	15.5	111.0	16.5	110.0	128.1	8	99	95	0 / 3	A
86		08/23/21	16	698A	CL	15.5	111.0	16.3	110.5	128.5	8	100	95	0 / 3	A
87		08/23/21	16	698A	CL	15.5	111.0	16.1	110.2	127.9	8	99	95	0 / 3	A
88		08/23/21	16	698A	CL	15.5	111.0	16.3	110.1	128.0	8	99	95	0 / 3	A
89		08/23/21	16	698A	CL	15.5	111.0	15.8	111.5	129.1	8	100	95	0 / 3	A
90		08/23/21	16	698A	CL	15.5	111.0	15.7	111.1	128.5	8	100	95	0 / 3	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
83	Sanitary Trench Backfill: Service line. Lot 9 Block 1 Filing 11. Field Mint Point							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
84	Sanitary Trench Backfill: Service line. Lot 9 Block 1 Filing 11. Field Mint Point							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
85	Sanitary Trench Backfill: Service line. Lot 9 Block 1 Filing 11. Field Mint Point							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
86	Sanitary Trench Backfill: Service line. Lot 9 Block 1 Filing 11. Field Mint Point							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
87	Sanitary Trench Backfill: Service line. Lot 9 Block 1 Filing 11. Field Mint Point							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
88	Sanitary Trench Backfill: Service line. Lot 9 Block 1 Filing 11. Field Mint Point							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
89	Sanitary Trench Backfill: Service line. Lot 9 Block 1 Filing 11. Field Mint Point							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
90	Sanitary Trench Backfill: Service line. Lot 10 Block 1 Filing 11. Field Mint Point							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000006
08/23/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
91		08/23/21	16	698A	CL	15.5	111.0	16.5	111.0	129.3	8	100	95	0 / 3	A
92		08/23/21	16	698A	CL	15.5	111.0	16.3	110.4	128.4	8	99	95	0 / 3	A
93		08/23/21	16	698A	CL	15.5	111.0	15.9	112.1	129.9	8	101	95	0 / 3	A
94		08/23/21	16	698A	CL	15.5	111.0	16.7	109.9	128.2	8	99	95	0 / 3	A
95		08/23/21	16	698A	CL	15.5	111.0	16.8	110.5	129.1	8	100	95	0 / 3	A
96		08/23/21	16	698A	CL	15.5	111.0	16.8	110.7	129.3	8	100	95	0 / 3	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
91	Sanitary Trench Backfill: Service line. Lot 10 Block 1 Filing 11. Field Mint Point							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
92	Sanitary Trench Backfill: Service line. Lot 10 Block 1 Filing 11. Field Mint Point							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
93	Sanitary Trench Backfill: Service line. Lot 10 Block 1 Filing 11. Field Mint Point							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
94	Sanitary Trench Backfill: Service line. Lot 10 Block 1 Filing 11. Field Mint Point							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
95	Sanitary Trench Backfill: Service line. Lot 10 Block 1 Filing 11. Field Mint Point							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
96	Sanitary Trench Backfill: Service line. Lot 10 Block 1 Filing 11. Field Mint Point							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 96: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000007
08/24/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
97		08/24/21	16	698A	CL	15.5	111.0	15.7	111.7	129.2	8	101	95	0 / 3	A
98		08/24/21	16	698A	CL	15.5	111.0	16.3	112.0	130.2	8	101	95	0 / 3	A
99		08/24/21	16	698A	CL	15.5	111.0	16.5	110.7	129.0	8	100	95	0 / 3	A
100		08/24/21	16	698A	CL	15.5	111.0	16.4	111.5	129.8	8	100	95	0 / 3	A
101		08/24/21	16	698A	CL	15.5	111.0	16.1	110.9	128.8	8	100	95	0 / 3	A
102		08/24/21	16	698A	CL	15.5	111.0	17.0	111.3	130.2	8	100	95	0 / 3	A
103		08/24/21	16	698A	CL	15.5	111.0	16.9	111.7	130.6	8	101	95	0 / 3	A
104		08/24/21	16	698A	CL	15.5	111.0	16.6	110.7	129.1	8	100	95	0 / 3	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
97	Sanitary Trench Backfill: Service line. Lot 5 Block 3 Filing 11. Field Mint Point							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
98	Sanitary Trench Backfill: Service line. Lot 5 Block 3 Filing 11. Field Mint Point							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
99	Sanitary Trench Backfill: Service line. Lot 5 Block 3 Filing 11. Field Mint Point							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
100	Sanitary Trench Backfill: Service line. Lot 5 Block 3 Filing 11. Field Mint Point							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
101	Sanitary Trench Backfill: Service line. Lot 5 Block 3 Filing 11. Field Mint Point							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
102	Sanitary Trench Backfill: Service line. Lot 5 Block 3 Filing 11. Field Mint Point							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
103	Sanitary Trench Backfill: Service line. Lot 5 Block 3 Filing 11. Field Mint Point							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
104	Sanitary Trench Backfill: Service line. Lot 6 Block 3 Filing 11. Field Mint Point							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000007
08/24/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
105		08/24/21	16	698A	CL	15.5	111.0	16.4	110.2	128.3	8	99	95	0 / 3	A
106		08/24/21	16	698A	CL	15.5	111.0	16.3	110.5	128.5	8	100	95	0 / 3	A
107		08/24/21	16	698A	CL	15.5	111.0	16.2	111.4	129.4	8	100	95	0 / 3	A
108		08/24/21	16	698A	CL	15.5	111.0	16.7	112.2	130.9	8	101	95	0 / 3	A
109		08/24/21	16	698A	CL	15.5	111.0	16.6	111.6	130.1	8	101	95	0 / 3	A
110		08/24/21	16	698A	CL	15.5	111.0	16.0	111.0	128.8	8	100	95	0 / 3	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
105	Sanitary Trench Backfill: Service line. Lot 6 Block 3 Filing 11. Field Mint Point							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
106	Sanitary Trench Backfill: Service line. Lot 6 Block 3 Filing 11. Field Mint Point							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
107	Sanitary Trench Backfill: Service line. Lot 6 Block 3 Filing 11. Field Mint Point							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
108	Sanitary Trench Backfill: Service line. Lot 6 Block 3 Filing 11. Field Mint Point							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
109	Sanitary Trench Backfill: Service line. Lot 6 Block 3 Filing 11. Field Mint Point							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
110	Sanitary Trench Backfill: Service line. Lot 6 Block 3 Filing 11. Field Mint Point							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 110: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000008
08/31/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
114		08/31/21	7	698A	CL	16.5	107.5	16.8	108.2	126.4	8	101	95	0 / 4	A
115		08/31/21	7	698A	CL	16.5	107.5	16.5	108.7	126.6	8	101	95	0 / 4	A
116		08/31/21	7	698A	CL	16.5	107.5	16.5	107.7	125.5	8	100	95	0 / 4	A
117		08/31/21	7	698A	CL	16.5	107.5	16.8	107.3	125.3	8	100	95	0 / 4	A
118		08/31/21	7	698A	CL	16.5	107.5	17.1	107.7	126.1	8	100	95	0 / 4	A
119		08/31/21	7	698A	CL	16.5	107.5	17.5	108.0	126.9	8	100	95	0 / 4	A
120		08/31/21	7	698A	CL	16.5	107.5	17.2	108.4	127.0	8	101	95	0 / 4	A
121		08/31/21	7	698A	CL	16.5	107.5	17.1	106.9	125.2	8	99	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
114	Sanitary Trench Backfill: Field Mint Pt. Lot 3. Block 1. Filing 11							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
115	Sanitary Trench Backfill: Field Mint Pt. Lot 3. Block 1. Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
116	Sanitary Trench Backfill: Field Mint Pt. Lot 3. Block 1. Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
117	Sanitary Trench Backfill: Field Mint Pt. Lot 2. Block 1. Filing 11							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
118	Sanitary Trench Backfill: Field Mint Pt. Lot 2. Block 1. Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
119	Sanitary Trench Backfill: Field Mint Pt. Lot 2. Block 1. Filing 11							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
120	Sanitary Trench Backfill: Field Mint Pt. Lot 1. Block 1. Filing 11							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
121	Sanitary Trench Backfill: Field Mint Pt. Lot 1. Block 1. Filing 11							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000008
08/31/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
122		08/31/21	7	698A	CL	16.5	107.5	17.5	108.9	128.0	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
122	Sanitary Trench Backfill: Field Mint Pt. Lot 1. Block 1. Filing 11							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 122: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000009
09/01/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
123		09/01/21	7	698A	CL	16.5	107.5	17.5	107.9	126.8	8	100	95	0 / 4	A
124		09/01/21	7	698A	CL	16.5	107.5	17.7	108.0	127.1	8	100	95	0 / 4	A
125		09/01/21	7	698A	CL	16.5	107.5	17.5	109.4	128.5	8	102	95	0 / 4	A
126		09/01/21	7	698A	CL	16.5	107.5	17.6	108.6	127.7	8	101	95	0 / 4	A
127		09/01/21	7	698A	CL	16.5	107.5	17.2	107.3	125.8	8	100	95	0 / 4	A
128		09/01/21	7	698A	CL	16.5	107.5	16.7	107.2	125.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
123	Sanitary Trench Backfill: Mainline. Adjacent to Lot 17. Block 3. Filing 11. Alpine Phlox Lane.						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
124	Sanitary Trench Backfill: Mainline. Adjacent to Lot 17. Block 3. Filing 11. Alpine Phlox Lane.						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
125	Sanitary Trench Backfill: Mainline. Adjacent to Lot 17. Block 3. Filing 11. Alpine Phlox Lane.						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
126	Sanitary Trench Backfill: Mainline. Adjacent to Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
127	Sanitary Trench Backfill: Mainline. Adjacent to Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
128	Sanitary Trench Backfill: Mainline. Adjacent to Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 128: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000010
09/02/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
129		09/02/21	16	698A	CL	15.5	111.0	16.0	111.1	128.9	8	100	95	0 / 4	A
130		09/02/21	16	698A	CL	15.5	111.0	16.2	111.4	129.4	8	100	95	0 / 4	A
131		09/02/21	16	698A	CL	15.5	111.0	15.7	110.5	127.8	8	100	95	0 / 4	A
132		09/02/21	16	698A	CL	15.5	111.0	15.9	112.3	130.2	8	101	95	0 / 4	A
133		09/02/21	16	698A	CL	15.5	111.0	16.1	110.6	128.4	8	100	95	0 / 4	A
134		09/02/21	16	698A	CL	15.5	111.0	16.2	111.7	129.8	8	101	95	0 / 4	A
135		09/02/21	16	698A	CL	15.5	111.0	15.8	110.9	128.4	8	100	95	0 / 4	A
136		09/02/21	16	698A	CL	15.5	111.0	16.8	110.5	129.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
129	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
130	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
131	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
132	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
133	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
134	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
135	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
136	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000010
09/02/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
137		09/02/21	16	698A	CL	15.5	111.0	16.1	110.8	128.6	8	100	95	0 / 4	A
138		09/02/21	16	698A	CL	15.5	111.0	16.7	111.6	130.2	8	101	95	0 / 4	A
139		09/02/21	16	698A	CL	15.5	111.0	15.8	110.8	128.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
137	Sanitary Trench Backfill: Service line. Lot 17. Block 3. Filing 11. Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
138	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
139	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 139: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000011
09/03/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
140		09/03/21	16	698A	CL	15.5	111.0	16.1	110.6	128.4	8	100	95	0 / 4	A
141		09/03/21	16	698A	CL	15.5	111.0	16.3	110.9	129.0	8	100	95	0 / 4	A
142		09/03/21	16	698A	CL	15.5	111.0	16.3	112.6	131.0	8	101	95	0 / 4	A
143		09/03/21	16	698A	CL	15.5	111.0	16.9	112.2	131.2	8	101	95	0 / 4	A
144		09/03/21	16	698A	CL	15.5	111.0	16.0	110.8	128.5	8	100	95	0 / 4	A
145		09/03/21	16	698A	CL	15.5	111.0	16.4	112.4	130.8	8	101	95	0 / 4	A
146		09/03/21	16	698A	CL	15.5	111.0	15.7	110.5	127.9	8	100	95	0 / 4	A
147		09/03/21	16	698A	CL	15.5	111.0	15.7	110.7	128.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
140	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
141	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
142	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
143	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
144	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
145	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
146	Sanitary Trench Backfill: Service line. Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
147	Sanitary Trench Backfill: Mainline. Adjacent to Lot 16. Block 3. Filing 11. Alpine Phlox Lane.						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000011
09/03/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
148		09/03/21	16	698A	CL	15.5	111.0	17.0	110.9	129.8	8	100	95	0 / 4	A
149		09/03/21	16	698A	CL	15.5	111.0	16.7	110.5	128.9	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
148	Sanitary Trench Backfill: Mainline. Adjacent to Lot 16. Block 3. Filing 11. Alpine Phlox Lane.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
149	Sanitary Trench Backfill: Mainline. Adjacent to Lot 16. Block 3. Filing 11. Alpine Phlox Lane.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 149: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000012
09/07/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
150		09/07/21	3	ASTM D698B	SC	12.5	117.0	12.2	116.7	130.9	8	100	100	-2 / 2	A
151		09/07/21	3	ASTM D698B	SC	12.5	117.0	11.7	117.5	131.3	8	100	100	-2 / 2	A
152		09/07/21	3	ASTM D698B	SC	12.5	117.0	10.5	117.0	129.3	8	100	100	-2 / 2	A
153		09/07/21	3	ASTM D698B	SC	12.5	117.0	12.6	117.0	131.8	8	100	100	-2 / 2	A
154		09/07/21	3	ASTM D698B	SC	12.5	117.0	12.8	117.6	132.6	8	101	100	-2 / 2	A
155		09/07/21	3	ASTM D698B	SC	12.5	117.0	11.0	117.2	130.1	8	100	100	-2 / 2	A
156		09/07/21	3	ASTM D698B	SC	12.5	117.0	12.6	117.9	132.8	8	101	100	-2 / 2	A
157		09/07/21	3	ASTM D698B	SC	12.5	117.0	11.2	117.5	130.7	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
150	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
151	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
152	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
153	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
154	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
155	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
156	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
157	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000012
09/07/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
158		09/07/21	3	ASTM D698B	SC	12.5	117.0	12.4	117.5	132.1	8	100	100	-2 / 2	A
159		09/07/21	3	ASTM D698B	SC	12.5	117.0	11.1	116.9	129.9	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
158	Sanitary Trench Backfill: Service line. Lot 15. Block 3. Filing 11. Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
159	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 159: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000013
09/08/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
160		09/08/21	3	ASTM D698B	SC	12.5	117.0	11.1	116.7	129.6	8	100	100	-2 / 2	A
161		09/08/21	3	ASTM D698B	SC	12.5	117.0	10.9	117.0	129.7	8	100	100	-2 / 2	A
162		09/08/21	3	ASTM D698B	SC	12.5	117.0	11.6	116.9	130.5	8	100	100	-2 / 2	A
163		09/08/21	3	ASTM D698B	SC	12.5	117.0	10.6	116.7	129.1	8	100	100	-2 / 2	A
164		09/08/21	3	ASTM D698B	SC	12.5	117.0	12.5	117.5	132.2	8	100	100	-2 / 2	A
165		09/08/21	3	ASTM D698B	SC	12.5	117.0	12.8	116.9	131.9	8	100	100	-2 / 2	A
166		09/08/21	3	ASTM D698B	SC	12.5	117.0	12.5	118.0	132.8	8	101	100	-2 / 2	A
167		09/08/21	3	ASTM D698B	SC	12.5	117.0	11.2	116.6	129.7	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
160	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
161	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
162	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
163	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
164	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
165	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
166	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
167	Sanitary Trench Backfill: Service line. Lot 14. Block 3. Filing 11. Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000013
09/08/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
168		09/08/21	3	ASTM D698B	SC	12.5	117.0	12.1	117.0	131.1	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
168	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 168: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
09/09/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
169		09/09/21	3	ASTM D698B	SC	12.5	117.0	12.4	117.8	132.4	8	101	100	-2 / 2	A
170		09/09/21	3	ASTM D698B	SC	12.5	117.0	11.1	116.6	129.5	8	100	100	-2 / 2	A
171		09/09/21	3	ASTM D698B	SC	12.5	117.0	11.6	116.6	130.1	8	100	100	-2 / 2	A
172		09/09/21	3	ASTM D698B	SC	12.5	117.0	11.9	117.3	131.3	8	100	100	-2 / 2	A
173		09/09/21	3	ASTM D698B	SC	12.5	117.0	11.1	116.6	129.6	8	100	100	-2 / 2	A
174		09/09/21	3	ASTM D698B	SC	12.5	117.0	11.9	116.6	130.5	8	100	100	-2 / 2	A
175		09/09/21	3	ASTM D698B	SC	12.5	117.0	13.2	117.6	133.1	8	101	100	-2 / 2	A
176		09/09/21	3	ASTM D698B	SC	12.5	117.0	10.8	118.0	130.8	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference			Gauge Make / Model / SN / Calibrated		Field Technician		
169	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.						8.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse		
170	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.						7.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse		
171	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.						6.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse		
172	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.						5.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse		
173	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.						4.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse		
174	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.						3.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse		
175	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.						2.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse		
176	Sanitary Trench Backfill: Service line. Lot 13. Block 3. Filing 11. Alpine Phlox Lane.						1.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse		

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
09/09/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 176: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015
09/10/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
111		09/10/21	7	698A	CL	16.5	107.5	17.8	107.4	126.5	8	100	95	0 / 3	A
177		09/10/21	3	ASTM D698B	SC	12.5	117.0	12.1	118.1	132.4	8	101	100	-2 / 2	A
178		09/10/21	3	ASTM D698B	SC	12.5	117.0	10.9	116.9	129.7	8	100	100	-2 / 2	A
179		09/10/21	3	ASTM D698B	SC	12.5	117.0	11.7	116.9	130.6	8	100	100	-2 / 2	A
180		09/10/21	3	ASTM D698B	SC	12.5	117.0	12.2	118.4	132.9	8	101	100	-2 / 2	A
181		09/10/21	3	ASTM D698B	SC	12.5	117.0	11.9	117.2	131.1	8	100	100	-2 / 2	A
182		09/10/21	3	ASTM D698B	SC	12.5	117.0	11.8	118.8	132.8	8	102	100	-2 / 2	A
183		09/10/21	3	ASTM D698B	SC	12.5	117.0	12.0	117.9	132.0	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
111	Sanitary Trench Backfill: SSMH 203. Alpine phlox lane.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
177	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
178	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
179	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
180	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
181	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
182	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
183	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015
09/10/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
184		09/10/21	3	ASTM D698B	SC	12.5	117.0	12.7	117.7	132.6	8	101	100	-2 / 2	A
185		09/10/21	3	ASTM D698B	SC	12.5	117.0	11.8	116.6	130.4	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
184	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
185	Sanitary Trench Backfill: Service line. Lot 12. Block 3. Filing 11. Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 185: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000016
09/11/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
112		09/11/21	7	698A	CL	16.5	107.5	17.4	108.3	127.1	8	101	95	0 / 3	A
113		09/11/21	5	698A	SC	13.5	114.5	13.8	114.1	129.9	8	100	95	0 / 3	A
186		09/11/21	5	698A	SC	13.5	114.5	14.4	114.2	130.6	8	100	95	0 / 3	A
187		09/11/21	5	698A	SC	13.5	114.5	14.9	114.2	131.2	8	100	95	0 / 3	A
188		09/11/21	5	698A	SC	13.5	114.5	13.7	114.2	129.9	8	100	95	0 / 3	A
189		09/11/21	5	698A	SC	13.5	114.5	14.5	114.2	130.8	8	100	95	0 / 3	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
112	Sanitary Trench Backfill: SSMH 68. Alpine phlox lane.							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
113	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
186	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
187	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
188	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
189	Sanitary Trench Backfill: SSMH 68 Alpine Phlox Lane							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 189: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000017
09/13/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
190		09/13/21	16	698A	CL	15.5	111.0	15.7	110.5	127.9	8	100	95	0 / 4	A
191		09/13/21	16	698A	CL	15.5	111.0	16.1	110.6	128.4	8	100	95	0 / 4	A
192		09/13/21	16	698A	CL	15.5	111.0	15.8	111.3	128.9	8	100	95	0 / 4	A
193		09/13/21	16	698A	CL	15.5	111.0	16.0	111.0	128.8	8	100	95	0 / 4	A
194		09/13/21	16	698A	CL	15.5	111.0	16.8	110.9	129.5	8	100	95	0 / 4	A
195		09/13/21	16	698A	CL	15.5	111.0	16.3	111.0	129.1	8	100	95	0 / 4	A
196		09/13/21	16	698A	CL	15.5	111.0	16.1	110.7	128.5	8	100	95	0 / 4	A
197		09/13/21	16	698A	CL	15.5	111.0	15.7	110.6	128.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
190	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane. Filing 11.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
191	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane. Filing 11.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
192	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane. Filing 11.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
193	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane. Filing 11.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
194	Sanitary Trench Backfill: SSMH 203 Alpine Phlox Lane. Filing 11.							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
195	Sanitary Trench Backfill: SSMH 68 Alpine Phlox Lane. Filing 11.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
196	Sanitary Trench Backfill: SSMH 68 Alpine Phlox Lane. Filing 11.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
197	Sanitary Trench Backfill: SSMH 68 Alpine Phlox Lane. Filing 11.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000017
09/13/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
198		09/13/21	16	698A	CL	15.5	111.0	16.3	111.1	129.2	8	100	95	0 / 4	A
199		09/13/21	16	698A	CL	15.5	111.0	16.1	111.1	129.0	8	100	95	0 / 4	A
200		09/13/21	16	698A	CL	15.5	111.0	16.4	111.1	129.3	8	100	95	0 / 4	A
201		09/13/21	16	698A	CL	15.5	111.0	16.2	110.5	128.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated				Field Technician		
198	Sanitary Trench Backfill: SSMH 68 Alpine Phlox Lane. Filing 11.						4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
199	Sanitary Trench Backfill: SSMH 68 Alpine Phlox Lane. Filing 11.						3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
200	Sanitary Trench Backfill: SSMH 68 Alpine Phlox Lane. Filing 11.						2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
201	Sanitary Trench Backfill: SSMH 68 Alpine Phlox Lane. Filing 11.						1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 201: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000018
09/14/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
202		09/14/21	16	698A	CL	15.5	111.0	16.0	111.8	129.7	8	101	95	0 / 4	A
203		09/14/21	16	698A	CL	15.5	111.0	16.4	110.5	128.6	8	100	95	0 / 4	A
204		09/14/21	16	698A	CL	15.5	111.0	16.5	110.7	129.0	8	100	95	0 / 4	A
205		09/14/21	16	698A	CL	15.5	111.0	16.6	110.4	128.7	8	99	95	0 / 4	A
206		09/14/21	16	698A	CL	15.5	111.0	15.9	111.7	129.5	8	101	95	0 / 4	A
207		09/14/21	16	698A	CL	15.5	111.0	15.6	110.8	128.1	8	100	95	0 / 4	A
208		09/14/21	16	698A	CL	15.5	111.0	16.6	111.4	129.9	8	100	95	0 / 4	A
209		09/14/21	16	698A	CL	15.5	111.0	16.3	109.5	127.3	8	99	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
202	Sanitary Trench Backfill: Lot 21. Block 2. Fling 11. Black Sedge Cir.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
203	Sanitary Trench Backfill: Service line. Lot 21. Block 2. Fling 11. Black Sedge Cir.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
204	Sanitary Trench Backfill: Service line. Lot 21. Block 2. Fling 11. Black Sedge Cir.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
205	Sanitary Trench Backfill: Service line. Lot 21. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
206	Sanitary Trench Backfill: Service line. Lot 21. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
207	Sanitary Trench Backfill: Service line. Lot 21. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
208	Sanitary Trench Backfill: Service line. Lot 21. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
209	Sanitary Trench Backfill: Service line. Lot 21. Block 2. Fling 11. Black Sedge Cir.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000018
09/14/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
210		09/14/21	16	698A	CL	15.5	111.0	16.1	112.2	130.3	8	101	95	0 / 4	A
211		09/14/21	16	698A	CL	15.5	111.0	16.6	112.3	130.9	8	101	95	0 / 4	A
212		09/14/21	16	698A	CL	15.5	111.0	16.8	110.8	129.4	8	100	95	0 / 4	A
213		09/14/21	16	698A	CL	15.5	111.0	16.2	110.6	128.5	8	100	95	0 / 4	A
214		09/14/21	16	698A	CL	15.5	111.0	16.0	112.7	130.7	8	102	95	0 / 4	A
215		09/14/21	16	698A	CL	15.5	111.0	15.5	112.4	129.8	8	101	95	0 / 4	A
216		09/14/21	16	698A	CL	15.5	111.0	16.9	112.1	131.0	8	101	95	0 / 4	A
217		09/14/21	16	698A	CL	15.5	111.0	16.1	110.7	128.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
210	Sanitary Trench Backfill: Service line. Lot 21. Block 2. Fling 11. Black Sedge Cir.							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
211	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
212	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
213	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
214	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
215	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
216	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
217	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000018
09/14/2021
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
218		09/14/21	16	698A	CL	15.5	111.0	16.3	112.5	130.8	8	101	95	0 / 4	A
219		09/14/21	16	698A	CL	15.5	111.0	16.0	112.0	129.9	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
218	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
219	Sanitary Trench Backfill: Service line. Lot 20. Block 2. Fling 11. Black Sedge Cir.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 219: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and apply compactive effort with a sheepsfoot roller and loader wheel rolling.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000019
09/15/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
220		09/15/21	16	698A	CL	15.5	111.0	15.8	111.3	128.9	8	100	95	0 / 4	A
221		09/15/21	16	698A	CL	15.5	111.0	15.7	111.1	128.5	8	100	95	0 / 4	A
222		09/15/21	16	698A	CL	15.5	111.0	16.5	110.9	129.2	8	100	95	0 / 4	A
223		09/15/21	16	698A	CL	15.5	111.0	16.0	111.7	129.6	8	101	95	0 / 4	A
224		09/15/21	16	698A	CL	15.5	111.0	16.7	111.5	130.1	8	100	95	0 / 4	A
225		09/15/21	16	698A	CL	15.5	111.0	15.7	110.8	128.2	8	100	95	0 / 4	A
226		09/15/21	16	698A	CL	15.5	111.0	16.0	111.2	129.0	8	100	95	0 / 4	A
227		09/15/21	16	698A	CL	15.5	111.0	16.4	111.9	130.3	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
220	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
221	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
222	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
223	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
224	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
225	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
226	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
227	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000019
09/15/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
228		09/15/21	16	698A	CL	15.5	111.0	15.5	110.8	128.0	8	100	95	0 / 4	A
229		09/15/21	16	698A	CL	15.5	111.0	16.4	111.5	129.8	8	100	95	0 / 4	A
230		09/15/21	16	698A	CL	15.5	111.0	16.3	110.7	128.7	8	100	95	0 / 4	A
231		09/15/21	16	698A	CL	15.5	111.0	17.5	111.4	130.9	8	100	95	0 / 4	A
232		09/15/21	16	698A	CL	15.5	111.0	15.9	112.1	129.9	8	101	95	0 / 4	A
233		09/15/21	16	698A	CL	15.5	111.0	17.3	111.2	130.4	8	100	95	0 / 4	A
234		09/15/21	16	698A	CL	15.5	111.0	16.4	110.9	129.1	8	100	95	0 / 4	A
235		09/15/21	16	698A	CL	15.5	111.0	15.9	110.9	128.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
228	Sanitary Trench Backfill: Service line. Lot 19. Block 2. Fling 11. Black Sedge Cir.						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
229	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
230	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
231	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
232	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
233	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
234	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
235	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000019

09/15/2021

Report Date: 10/12/2021

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
236		09/15/21	16	698A	CL	15.5	111.0	16.3	110.7	128.7	8	100	95	0 / 4	A
237		09/15/21	16	698A	CL	15.5	111.0	16.2	112.3	130.5	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
236	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
237	Sanitary Trench Backfill: Service line. Lot 18. Block 2. Fling 11. Black Sedge Cir.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 237: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000020
09/16/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
238		09/16/21	16	698A	CL	15.5	111.0	15.9	110.7	128.3	8	100	95	0 / 4	A
239		09/16/21	16	698A	CL	15.5	111.0	16.7	110.7	129.2	8	100	95	0 / 4	A
240		09/16/21	16	698A	CL	15.5	111.0	16.1	110.1	127.8	8	99	95	0 / 4	A
241		09/16/21	16	698A	CL	15.5	111.0	16.3	111.0	129.1	8	100	95	0 / 4	A
242		09/16/21	16	698A	CL	15.5	111.0	16.9	111.6	130.5	8	101	95	0 / 4	A
243		09/16/21	16	698A	CL	15.5	111.0	15.9	111.6	129.4	8	101	95	0 / 4	A
244		09/16/21	16	698A	CL	15.5	111.0	17.0	111.2	130.1	8	100	95	0 / 4	A
245		09/16/21	16	698A	CL	15.5	111.0	16.6	110.2	128.5	8	99	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
238	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
239	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
240	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
241	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
242	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
243	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
244	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
245	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000020
09/16/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
246		09/16/21	16	698A	CL	15.5	111.0	15.6	111.7	129.1	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
246	Sanitary Trench Backfill: Service line. Lot 17. Block 2. Fling 11. Black Sedge Cir.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 246: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000021
09/17/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
247		09/17/21	5	698A	SC	13.5	114.5	13.6	116.0	131.8	8	101	100	-2 / 2	A
248		09/17/21	5	698A	SC	13.5	114.5	14.6	115.0	131.8	8	100	100	-2 / 2	A
249		09/17/21	5	698A	SC	13.5	114.5	13.8	115.6	131.5	8	101	100	-2 / 2	A
250		09/17/21	5	698A	SC	13.5	114.5	13.4	115.5	131.0	8	101	100	-2 / 2	A
251		09/17/21	5	698A	SC	13.5	114.5	14.2	114.6	130.9	8	100	100	-2 / 2	A
252		09/17/21	5	698A	SC	13.5	114.5	14.6	115.2	132.0	8	101	100	-2 / 2	A
253		09/17/21	5	698A	SC	13.5	114.5	12.5	115.4	129.8	8	101	100	-2 / 2	A
254		09/17/21	5	698A	SC	13.5	114.5	13.9	114.4	130.3	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
247	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
248	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
249	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
250	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
251	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
252	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
253	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
254	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000021
09/17/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
255		09/17/21	5	698A	SC	13.5	114.5	14.6	114.9	131.7	8	100	100	-2 / 2	A
256		09/17/21	5	698A	SC	13.5	114.5	14.6	115.7	132.6	8	101	100	-2 / 2	A
257		09/17/21	5	698A	SC	13.5	114.5	13.5	114.6	130.1	8	100	100	-2 / 2	A
258		09/17/21	5	698A	SC	13.5	114.5	12.9	115.9	130.9	8	101	100	-2 / 2	A
259		09/17/21	5	698A	SC	13.5	114.5	13.9	115.4	131.4	8	101	100	-2 / 2	A
260		09/17/21	5	698A	SC	13.5	114.5	13.2	114.7	129.8	8	100	100	-2 / 2	A
261		09/17/21	5	698A	SC	13.5	114.5	14.0	114.6	130.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
255	Sanitary Trench Backfill: Service line. Lot 16. Block 2. Fling 11. Black Sedge Cir.							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
256	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
257	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
258	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
259	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
260	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
261	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 261: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000022
09/20/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
262		09/20/21	5	698A	SC	13.5	114.5	14.0	114.5	130.5	8	100	100	-2 / 2	A
263		09/20/21	5	698A	SC	13.5	114.5	13.7	115.3	131.1	8	101	100	-2 / 2	A
264		09/20/21	5	698A	SC	13.5	114.5	13.2	114.5	129.6	8	100	100	-2 / 2	A
265		09/20/21	5	698A	SC	13.5	114.5	14.6	115.9	132.8	8	101	100	-2 / 2	A
266		09/20/21	5	698A	SC	13.5	114.5	12.9	115.0	129.8	8	100	100	-2 / 2	A
267		09/20/21	5	698A	SC	13.5	114.5	12.8	114.2	128.8	8	100	100	-2 / 2	A
268		09/20/21	5	698A	SC	13.5	114.5	12.6	114.2	128.6	8	100	100	-2 / 2	A
269		09/20/21	5	698A	SC	13.5	114.5	13.8	114.2	130.0	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
262	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
263	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
264	Sanitary Trench Backfill: Service line. Lot 15. Block 2. Fling 11. Black Sedge Cir.							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
265	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
266	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
267	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
268	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
269	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000022
09/20/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
270		09/20/21	5	698A	SC	13.5	114.5	13.7	115.8	131.7	8	101	100	-2 / 2	A
271		09/20/21	5	698A	SC	13.5	114.5	14.3	115.0	131.5	8	100	100	-2 / 2	A
272		09/20/21	5	698A	SC	13.5	114.5	14.6	114.8	131.6	8	100	100	-2 / 2	A
273		09/20/21	5	698A	SC	13.5	114.5	12.8	115.9	130.7	8	101	100	-2 / 2	A
274		09/20/21	5	698A	SC	13.5	114.5	14.6	115.1	131.9	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
270	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
271	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
272	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
273	Sanitary Trench Backfill: Service line. Lot 14. Block 2. Fling 11. Black Sedge Cir.							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
274	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 274: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000023
09/21/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
275		09/21/21	5	698A	SC	13.5	114.5	13.4	114.1	129.4	8	100	100	-2 / 2	A
276		09/21/21	5	698A	SC	13.5	114.5	13.8	114.3	130.1	8	100	100	-2 / 2	A
277		09/21/21	5	698A	SC	13.5	114.5	13.1	116.1	131.3	8	101	100	-2 / 2	A
278		09/21/21	5	698A	SC	13.5	114.5	13.6	116.1	131.9	8	101	100	-2 / 2	A
279		09/21/21	5	698A	SC	13.5	114.5	14.2	115.7	132.1	8	101	100	-2 / 2	A
280		09/21/21	5	698A	SC	13.5	114.5	12.8	116.0	130.8	8	101	100	-2 / 2	A
281		09/21/21	5	698A	SC	13.5	114.5	13.4	114.1	129.4	8	100	100	-2 / 2	A
282		09/21/21	5	698A	SC	13.5	114.5	15.1	114.6	131.9	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
275	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
276	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
277	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
278	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
279	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
280	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
281	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
282	Sanitary Trench Backfill: Service line. Lot 13. Block 2. Fling 11. Black Sedge Cir.							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000023
09/21/2021
Report Date: 10/12/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
283		09/21/21	5	698A	SC	13.5	114.5	15.2	114.9	132.4	8	100	100	-2 / 2	A
284		09/21/21	5	698A	SC	13.5	114.5	15.5	115.0	132.8	8	100	100	-2 / 2	A
285		09/21/21	5	698A	SC	13.5	114.5	13.3	114.6	129.8	8	100	100	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
283	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.	9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
284	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.	8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
285	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.	7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
285: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000024
09/22/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
286		09/22/21	16	698A	CL	15.5	111.0	15.9	112.3	130.2	8	101	95	0 / 4	A
287		09/22/21	16	698A	CL	15.5	111.0	16.2	111.7	129.8	8	101	95	0 / 4	A
288		09/22/21	16	698A	CL	15.5	111.0	15.7	111.8	129.3	8	101	95	0 / 4	A
289		09/22/21	16	698A	CL	15.5	111.0	15.6	111.4	128.8	8	100	95	0 / 4	A
290		09/22/21	16	698A	CL	15.5	111.0	15.9	110.5	128.1	8	100	95	0 / 4	A
291		09/22/21	16	698A	CL	15.5	111.0	15.9	111.8	129.6	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
286	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
287	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
288	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
289	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
290	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
291	Sanitary Trench Backfill: Service line. Lot 12. Block 2. Fling 11. Black Sedge Cir.							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
09/23/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
292		09/23/21	16	698A	CL	15.5	111.0	15.9	111.1	128.8	8	100	95	0 / 4	A
293		09/23/21	16	698A	CL	15.5	111.0	16.3	110.8	128.9	8	100	95	0 / 4	A
294		09/23/21	16	698A	CL	15.5	111.0	16.5	110.8	129.1	8	100	95	0 / 4	A
295		09/23/21	16	698A	CL	15.5	111.0	16.7	111.1	129.6	8	100	95	0 / 4	A
296		09/23/21	16	698A	CL	15.5	111.0	16.3	111.7	129.9	8	101	95	0 / 4	A
297		09/23/21	16	698A	CL	15.5	111.0	15.8	112.4	130.2	8	101	95	0 / 4	A
298		09/23/21	16	698A	CL	15.5	111.0	15.8	111.1	128.7	8	100	95	0 / 4	A
299		09/23/21	16	698A	CL	15.5	111.0	16.5	110.7	129.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
292	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
293	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
294	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
295	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
296	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
297	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
298	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
299	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
09/23/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
300		09/23/21	16	698A	CL	15.5	111.0	15.7	111.0	128.4	8	100	95	0 / 4	A
301		09/23/21	16	698A	CL	15.5	111.0	16.8	110.6	129.2	8	100	95	0 / 4	A
302		09/23/21	16	698A	CL	15.5	111.0	17.2	110.5	129.5	8	100	95	0 / 4	A
303		09/23/21	16	698A	CL	15.5	111.0	15.6	110.9	128.2	8	100	95	0 / 4	A
304		09/23/21	16	698A	CL	15.5	111.0	15.8	112.4	130.2	8	101	95	0 / 4	A
305		09/23/21	16	698A	CL	15.5	111.0	16.3	112.6	130.9	8	101	95	0 / 4	A
306		09/23/21	16	698A	CL	15.5	111.0	16.4	112.5	131.0	8	101	95	0 / 4	A
307		09/23/21	16	698A	CL	15.5	111.0	17.2	112.4	131.7	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
300	Sanitary Trench Backfill: Service line. Lot 7. Block 3. Filing 11. Field mint Ave.							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
301	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
302	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
303	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
304	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
305	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
306	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
307	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
09/23/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
308		09/23/21	16	698A	CL	15.5	111.0	16.8	110.8	129.4	8	100	95	0 / 4	A
309		09/23/21	16	698A	CL	15.5	111.0	16.6	111.1	129.5	8	100	95	0 / 4	A
310		09/23/21	16	698A	CL	15.5	111.0	16.7	111.3	129.9	8	100	95	0 / 4	A
311		09/23/21	16	698A	CL	15.5	111.0	16.7	111.2	129.8	8	100	95	0 / 4	A
312		09/23/21	16	698A	CL	15.5	111.0	15.7	110.8	128.2	8	100	95	0 / 4	A
313		09/23/21	16	698A	CL	15.5	111.0	17.0	111.4	130.3	8	100	95	0 / 4	A
314		09/23/21	16	698A	CL	15.5	111.0	16.1	111.5	129.4	8	100	95	0 / 4	A
315		09/23/21	16	698A	CL	15.5	111.0	16.9	111.9	130.8	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
308	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
309	Sanitary Trench Backfill: Service line. Lot 8. Block 3. Filing 11. Field mint Ave.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
310	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
311	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
312	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
313	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
314	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
315	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
09/23/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
316		09/23/21	16	698A	CL	15.5	111.0	17.2	109.9	128.8	8	99	95	0 / 4	A
317		09/23/21	16	698A	CL	15.5	111.0	17.5	112.0	131.6	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
316	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
317	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 317: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000026
09/24/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
318		09/24/21	16	698A	CL	15.5	111.0	16.6	111.0	129.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
318	Sanitary Trench Backfill: Service line. Lot 9. Block 3. Filing 11. Field mint Ave.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 318: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000027
09/27/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
319		09/27/21	5	698A	SC	13.5	114.5	13.2	115.9	131.2	8	101	100	-2 / 2	A
320		09/27/21	5	698A	SC	13.5	114.5	13.1	115.7	130.8	8	101	100	-2 / 2	A
321		09/27/21	5	698A	SC	13.5	114.5	13.3	114.6	129.8	8	100	100	-2 / 2	A
322		09/27/21	5	698A	SC	13.5	114.5	13.6	114.0	129.5	8	100	100	-2 / 2	A
323		09/27/21	5	698A	SC	13.5	114.5	12.8	116.0	130.8	8	101	100	-2 / 2	A
324		09/27/21	5	698A	SC	13.5	114.5	13.7	115.4	131.2	8	101	100	-2 / 2	A
325		09/27/21	5	698A	SC	13.5	114.5	14.0	114.6	130.6	8	100	100	-2 / 2	A
326		09/27/21	5	698A	SC	13.5	114.5	12.8	115.0	129.7	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
319	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							9.0	BG	XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse		
320	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							8.0	BG	XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse		
321	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							7.0	BG	XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse		
322	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							6.0	BG	XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse		
323	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							5.0	BG	XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse		
324	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							4.0	BG	XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse		
325	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							3.0	BG	XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse		
326	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							2.0	BG	XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000027
09/27/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
327		09/27/21	5	698A	SC	13.5	114.5	13.8	115.6	131.5	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
327	Sanitary Trench Backfill: Service line. Lot 10. Block 3. Filing 11. Field mint Ave.							1.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 327: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000028
09/28/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
328		09/28/21	5	698A	SC	13.5	114.5	12.9	114.3	129.0	8	100	100	-2 / 2	A
329		09/28/21	5	698A	SC	13.5	114.5	13.2	116.0	131.3	8	101	100	-2 / 2	A
330		09/28/21	5	698A	SC	13.5	114.5	13.6	115.1	130.7	8	101	100	-2 / 2	A
331		09/28/21	5	698A	SC	13.5	114.5	12.6	115.3	129.8	8	101	100	-2 / 2	A
332		09/28/21	5	698A	SC	13.5	114.5	12.8	115.8	130.6	8	101	100	-2 / 2	A
333		09/28/21	5	698A	SC	13.5	114.5	13.7	116.0	131.9	8	101	100	-2 / 2	A
334		09/28/21	5	698A	SC	13.5	114.5	13.8	115.1	131.0	8	101	100	-2 / 2	A
335		09/28/21	5	698A	SC	13.5	114.5	14.4	116.0	132.7	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
328	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
329	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
330	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
331	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
332	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
333	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
334	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
335	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000028
09/28/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
336		09/28/21	5	698A	SC	13.5	114.5	13.3	116.1	131.5	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference			Gauge Make / Model / SN / Calibrated		Field Technician	
336	Sanitary Trench Backfill: Service line. Lot 11. Block 3. Filing 11. Field mint Ave.							1.0	BG			XPLOER / 3500 / 2026 / 04/21/2021		Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 336: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000029
09/29/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
337		09/29/21	16	698A	CL	15.5	111.0	15.6	111.5	128.9	8	100	95	0 / 4	A
338		09/29/21	16	698A	CL	15.5	111.0	16.1	111.1	129.0	8	100	95	0 / 4	A
339		09/29/21	16	698A	CL	15.5	111.0	16.2	110.3	128.2	8	99	95	0 / 4	A
340		09/29/21	16	698A	CL	15.5	111.0	15.6	109.8	126.9	8	99	95	0 / 4	A
341		09/29/21	16	698A	CL	15.5	111.0	16.4	110.7	128.9	8	100	95	0 / 4	A
342		09/29/21	16	698A	CL	15.5	111.0	16.3	110.9	129.0	8	100	95	0 / 4	A
343		09/29/21	16	698A	CL	15.5	111.0	15.7	110.7	128.1	8	100	95	0 / 4	A
344		09/29/21	16	698A	CL	15.5	111.0	15.9	111.6	129.4	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
337	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
338	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
339	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
340	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
341	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
342	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
343	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
344	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000029
09/29/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
345		09/29/21	16	698A	CL	15.5	111.0	16.2	110.7	128.6	8	100	95	0 / 4	A
346		09/29/21	16	698A	CL	15.5	111.0	15.7	110.5	127.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
345	Sanitary Trench Backfill: Service line. Lot 1. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
346	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 346: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000030
09/30/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
347		09/30/21	16	698A	CL	15.5	111.0	16.2	111.1	129.1	8	100	95	0 / 4	A
348		09/30/21	16	698A	CL	15.5	111.0	15.9	110.7	128.3	8	100	95	0 / 4	A
349		09/30/21	16	698A	CL	15.5	111.0	16.1	110.7	128.5	8	100	95	0 / 4	A
350		09/30/21	16	698A	CL	15.5	111.0	15.6	111.3	128.7	8	100	95	0 / 4	A
351		09/30/21	16	698A	CL	15.5	111.0	16.2	109.6	127.4	8	99	95	0 / 4	A
352		09/30/21	16	698A	CL	15.5	111.0	15.9	110.9	128.5	8	100	95	0 / 4	A
353		09/30/21	16	698A	CL	15.5	111.0	17.2	110.0	128.9	8	99	95	0 / 4	A
354		09/30/21	16	698A	CL	15.5	111.0	15.7	110.6	128.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
347	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
348	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
349	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
350	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
351	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
352	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
353	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
354	Sanitary Trench Backfill: Service line. Lot 2. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000030
09/30/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
355		09/30/21	16	698A	CL	15.5	111.0	16.9	110.7	129.4	8	100	95	0 / 4	A
356		09/30/21	16	698A	CL	15.5	111.0	16.5	110.7	129.0	8	100	95	0 / 4	A
357		09/30/21	16	698A	CL	15.5	111.0	16.6	110.9	129.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
355	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
356	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
357	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 357: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000031
10/01/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
358		10/01/21	5	698A	SC	13.5	114.5	13.8	115.7	131.7	8	101	100	-2 / 2	A
359		10/01/21	5	698A	SC	13.5	114.5	14.2	114.5	130.8	8	100	100	-2 / 2	A
360		10/01/21	5	698A	SC	13.5	114.5	13.5	116.1	131.8	8	101	100	-2 / 2	A
361		10/01/21	5	698A	SC	13.5	114.5	13.6	114.8	130.4	8	100	100	-2 / 2	A
362		10/01/21	5	698A	SC	13.5	114.5	13.5	116.1	131.8	8	101	100	-2 / 2	A
363		10/01/21	5	698A	SC	13.5	114.5	14.0	116.1	132.3	8	101	100	-2 / 2	A
364		10/01/21	5	698A	SC	13.5	114.5	14.6	115.4	132.2	8	101	100	-2 / 2	A
365		10/01/21	5	698A	SC	13.5	114.5	14.3	114.3	130.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
358	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
359	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
360	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
361	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
362	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
363	Sanitary Trench Backfill: Service line. Lot 3. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
364	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
365	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 365: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000032
10/02/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
366		10/02/21	16	698A	CL	15.5	111.0	16.1	110.9	128.7	8	100	95	0 / 4	A
367		10/02/21	16	698A	CL	15.5	111.0	15.7	110.5	127.9	8	100	95	0 / 4	A
368		10/02/21	16	698A	CL	15.5	111.0	15.7	110.5	127.8	8	100	95	0 / 4	A
369		10/02/21	16	698A	CL	15.5	111.0	16.4	110.8	129.0	8	100	95	0 / 4	A
370		10/02/21	16	698A	CL	15.5	111.0	16.0	111.0	128.8	8	100	95	0 / 4	A
371		10/02/21	16	698A	CL	15.5	111.0	16.4	110.5	128.6	8	100	95	0 / 4	A
372		10/02/21	16	698A	CL	15.5	111.0	16.4	110.7	128.8	8	100	95	0 / 4	A
373		10/02/21	16	698A	CL	15.5	111.0	15.9	110.5	128.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
366	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
367	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
368	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
369	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
370	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
371	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
372	Sanitary Trench Backfill: Service line. Lot 4. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
373	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000032

10/02/2021

Report Date: 10/29/2021

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
374		10/02/21	16	698A	CL	15.5	111.0	15.6	110.6	127.8	8	100	95	0 / 4	A
375		10/02/21	16	698A	CL	15.5	111.0	16.4	111.1	129.3	8	100	95	0 / 4	A
376		10/02/21	16	698A	CL	15.5	111.0	16.6	111.1	129.5	8	100	95	0 / 4	A
377		10/02/21	16	698A	CL	15.5	111.0	15.8	110.7	128.2	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
374	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
375	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
376	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
377	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 377: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000033
10/04/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
378		10/04/21	16	698A	CL	15.5	111.0	15.9	111.6	129.4	8	101	95	0 / 4	A
379		10/04/21	16	698A	CL	15.5	111.0	15.7	110.7	128.1	8	100	95	0 / 4	A
380		10/04/21	16	698A	CL	15.5	111.0	16.1	110.9	128.8	8	100	95	0 / 4	A
381		10/04/21	16	698A	CL	15.5	111.0	15.6	110.6	127.9	8	100	95	0 / 4	A
382		10/04/21	16	698A	CL	15.5	111.0	16.1	111.4	129.3	8	100	95	0 / 4	A
383		10/04/21	16	698A	CL	15.5	111.0	16.2	111.1	129.1	8	100	95	0 / 4	A
384		10/04/21	16	698A	CL	15.5	111.0	16.6	111.8	130.4	8	101	95	0 / 4	A
385		10/04/21	16	698A	CL	15.5	111.0	15.9	110.6	128.2	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
378	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
379	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
380	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
381	Sanitary Trench Backfill: Service line. Lot 5. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
382	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
383	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
384	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
385	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000033

10/04/2021

Report Date: 10/29/2021

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
386		10/04/21	16	698A	CL	15.5	111.0	16.6	111.2	129.7	8	100	95	0 / 4	A
387		10/04/21	16	698A	CL	15.5	111.0	16.3	110.9	129.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
386	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
387	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 387: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000034
10/05/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
388		10/05/21	16	698A	CL	15.5	111.0	16.5	111.4	129.8	8	100	95	0 / 4	A
389		10/05/21	16	698A	CL	15.5	111.0	16.9	110.6	129.3	8	100	95	0 / 4	A
390		10/05/21	16	698A	CL	15.5	111.0	15.5	110.6	127.7	8	100	95	0 / 4	A
391		10/05/21	16	698A	CL	15.5	111.0	15.6	110.5	127.7	8	100	95	0 / 4	A
392		10/05/21	16	698A	CL	15.5	111.0	16.3	110.6	128.6	8	100	95	0 / 4	A
393		10/05/21	16	698A	CL	15.5	111.0	16.4	111.3	129.5	8	100	95	0 / 4	A
394		10/05/21	16	698A	CL	15.5	111.0	16.1	110.9	128.7	8	100	95	0 / 4	A
395		10/05/21	16	698A	CL	15.5	111.0	17.0	111.3	130.2	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
388	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
389	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
390	Sanitary Trench Backfill: Service line. Lot 6. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
391	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
392	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
393	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
394	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
395	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000034
10/05/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
396		10/05/21	16	698A	CL	15.5	111.0	17.1	110.5	129.4	8	100	95	0 / 4	A
397		10/05/21	16	698A	CL	15.5	111.0	15.9	111.6	129.3	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
396	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
397	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 397: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000035
10/06/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
398		10/06/21	16	698A	CL	15.5	111.0	16.1	110.9	128.7	8	100	95	0 / 4	A
399		10/06/21	16	698A	CL	15.5	111.0	16.1	110.9	128.7	8	100	95	0 / 4	A
400		10/06/21	16	698A	CL	15.5	111.0	17.0	111.4	130.3	8	100	95	0 / 4	A
401		10/06/21	16	698A	CL	15.5	111.0	15.8	110.7	128.2	8	100	95	0 / 4	A
402		10/06/21	16	698A	CL	15.5	111.0	16.3	110.5	128.5	8	100	95	0 / 4	A
403		10/06/21	16	698A	CL	15.5	111.0	16.6	111.7	130.2	8	101	95	0 / 4	A
404		10/06/21	16	698A	CL	15.5	111.0	15.7	110.6	128.0	8	100	95	0 / 4	A
405		10/06/21	16	698A	CL	15.5	111.0	16.1	112.5	130.6	8	101	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated				Field Technician		
398	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln						2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
399	Sanitary Trench Backfill: Service line. Lot 7. Block 2. Filing 11. Alpine Phlox Ln						1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
400	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
401	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
402	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
403	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
404	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
405	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000035
10/06/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
406		10/06/21	16	698A	CL	15.5	111.0	16.1	111.6	129.6	8	101	95	0 / 4	A
407		10/06/21	16	698A	CL	15.5	111.0	16.7	111.5	130.1	8	100	95	0 / 4	A
408		10/06/21	16	698A	CL	15.5	111.0	17.0	110.9	129.7	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
406	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
407	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
408	Sanitary Trench Backfill: Service line. Lot 8. Block 2. Filing 11. Alpine Phlox Ln						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 408: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000036
10/11/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
409		10/11/21	5	698A	SC	13.5	114.5	13.8	114.1	129.8	8	100	100	-2 / 2	A
410		10/11/21	5	698A	SC	13.5	114.5	13.8	114.3	130.1	8	100	100	-2 / 2	A
411		10/11/21	5	698A	SC	13.5	114.5	14.0	114.2	130.2	8	100	100	-2 / 2	A
412		10/11/21	5	698A	SC	13.5	114.5	13.3	114.3	129.5	8	100	100	-2 / 2	A
413		10/11/21	5	698A	SC	13.5	114.5	14.1	115.3	131.5	8	101	100	-2 / 2	A
414		10/11/21	5	698A	SC	13.5	114.5	13.5	115.0	130.5	8	100	100	-2 / 2	A
415		10/11/21	5	698A	SC	13.5	114.5	13.4	114.6	129.9	8	100	100	-2 / 2	A
416		10/11/21	5	698A	SC	13.5	114.5	13.8	114.5	130.3	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
409	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
410	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
411	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
412	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
413	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
414	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
415	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
416	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000036
10/11/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
417		10/11/21	5	698A	SC	13.5	114.5	14.0	115.4	131.5	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
417	Sanitary Trench Backfill: Service line. Lot 9. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 417: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000037
10/12/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
418		10/12/21	5	698A	SC	13.5	114.5	14.1	115.7	132.0	8	101	100	-2 / 2	A
419		10/12/21	16	698A	CL	15.5	111.0	16.1	110.7	128.5	8	100	95	0 / 4	A
420		10/12/21	16	698A	CL	15.5	111.0	15.8	110.9	128.4	8	100	95	0 / 4	A
421		10/12/21	16	698A	CL	15.5	111.0	15.6	111.9	129.4	8	101	95	0 / 4	A
422		10/12/21	16	698A	CL	15.5	111.0	16.2	111.5	129.6	8	100	95	0 / 4	A
423		10/12/21	16	698A	CL	15.5	111.0	16.4	110.6	128.7	8	100	95	0 / 4	A
424		10/12/21	16	698A	CL	15.5	111.0	16.1	111.5	129.4	8	100	95	0 / 4	A
425		10/12/21	16	698A	CL	15.5	111.0	16.6	110.7	129.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
418	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
419	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
420	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
421	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
422	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
423	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
424	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
425	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000037
10/12/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
426		10/12/21	16	698A	CL	15.5	111.0	17.0	110.8	129.6	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
426	Sanitary Trench Backfill: Service line. Lot 10. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 426: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000038
10/13/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
427		10/13/21	16	698A	CL	15.5	111.0	16.2	110.8	128.8	8	100	95	0 / 4	A
428		10/13/21	16	698A	CL	15.5	111.0	17.0	111.5	130.4	8	100	95	0 / 4	A
429		10/13/21	16	698A	CL	15.5	111.0	16.7	111.6	130.2	8	101	95	0 / 4	A
430		10/13/21	16	698A	CL	15.5	111.0	16.4	111.6	129.9	8	101	95	0 / 4	A
431		10/13/21	16	698A	CL	15.5	111.0	15.8	110.7	128.2	8	100	95	0 / 4	A
432		10/13/21	16	698A	CL	15.5	111.0	16.5	111.6	130.0	8	101	95	0 / 4	A
433		10/13/21	16	698A	CL	15.5	111.0	17.7	111.6	131.3	8	101	95	0 / 4	A
434		10/13/21	16	698A	CL	15.5	111.0	16.6	111.0	129.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
427	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
428	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
429	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
430	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
431	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
432	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
433	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
434	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000038
10/13/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
435		10/13/21	16	698A	CL	15.5	111.0	17.5	111.7	131.3	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
435	Sanitary Trench Backfill: Service line. Lot 11. Block 2. Filing 11. Alpine Phlox Ln							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 435: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000039
10/14/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
436		10/14/21	16	698A	CL	15.5	111.0	17.2	111.3	130.4	8	100	95	0 / 4	A
437		10/14/21	16	698A	CL	15.5	111.0	16.5	111.3	129.7	8	100	95	0 / 4	A
438		10/14/21	16	698A	CL	15.5	111.0	16.9	111.4	130.2	8	100	95	0 / 4	A
439		10/14/21	16	698A	CL	15.5	111.0	16.1	112.1	130.2	8	101	95	0 / 4	A
440		10/14/21	16	698A	CL	15.5	111.0	16.1	111.1	129.0	8	100	95	0 / 4	A
441		10/14/21	16	698A	CL	15.5	111.0	16.8	112.4	131.3	8	101	95	0 / 4	A
442		10/14/21	16	698A	CL	15.5	111.0	17.1	111.8	130.9	8	101	95	0 / 4	A
443		10/14/21	16	698A	CL	15.5	111.0	17.3	112.1	131.5	8	101	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
436	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.	9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
437	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.	8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
438	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.	7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
439	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.	6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
440	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.	5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
441	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.	4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
442	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.	3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
443	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.	2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000039
10/14/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
444		10/14/21	16	698A	CL	15.5	111.0	16.5	111.8	130.2	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
444	Sanitary Trench Backfill: Alpine phlox lane. SSMH 68.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 444: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000040
10/18/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
445		10/18/21	16	698A	CL	15.5	111.0	17.4	111.7	131.1	8	101	95	0 / 4	A
446		10/18/21	16	698A	CL	15.5	111.0	16.5	111.3	129.7	8	100	95	0 / 4	A
447		10/18/21	16	698A	CL	15.5	111.0	15.8	112.0	129.7	8	101	95	0 / 4	A
448		10/18/21	16	698A	CL	15.5	111.0	16.9	111.5	130.3	8	100	95	0 / 4	A
449		10/18/21	16	698A	CL	15.5	111.0	16.9	111.6	130.5	8	101	95	0 / 4	A
450		10/18/21	16	698A	CL	15.5	111.0	16.9	112.6	131.6	8	101	95	0 / 4	A
451		10/18/21	16	698A	CL	15.5	111.0	16.1	110.7	128.5	8	100	95	0 / 4	A
452		10/18/21	16	698A	CL	15.5	111.0	16.9	111.9	130.8	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
445	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
446	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
447	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
448	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
449	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
450	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
451	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
452	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000040
10/18/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
453		10/18/21	16	698A	CL	15.5	111.0	17.5	111.8	131.4	8	101	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
453	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #69						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 453: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000041
10/19/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
454		10/19/21	16	698A	CL	15.5	111.0	16.9	111.0	129.8	8	100	95	0 / 4	A
455		10/19/21	16	698A	CL	15.5	111.0	16.7	111.7	130.3	8	101	95	0 / 4	A
456		10/19/21	16	698A	CL	15.5	111.0	16.8	111.6	130.3	8	101	95	0 / 4	A
457		10/19/21	16	698A	CL	15.5	111.0	16.1	111.2	129.1	8	100	95	0 / 4	A
458		10/19/21	16	698A	CL	15.5	111.0	16.1	110.7	128.5	8	100	95	0 / 4	A
459		10/19/21	16	698A	CL	15.5	111.0	15.9	110.7	128.3	8	100	95	0 / 4	A
460		10/19/21	16	698A	CL	15.5	111.0	15.9	110.6	128.2	8	100	95	0 / 4	A
461		10/19/21	16	698A	CL	15.5	111.0	16.7	111.1	129.7	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
454	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
455	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
456	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
457	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
458	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
459	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
460	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
461	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000041
10/19/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
462		10/19/21	16	698A	CL	15.5	111.0	16.2	112.3	130.5	8	101	95	0 / 4	A
463		10/19/21	16	698A	CL	15.5	111.0	16.7	112.4	131.2	8	101	95	0 / 4	A
464		10/19/21	16	698A	CL	15.5	111.0	15.7	111.1	128.5	8	100	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
462	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #203	1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
463	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204	9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
464	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204	8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
464: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000042
10/20/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
465		10/20/21	16	698A	CL	15.5	111.0	15.5	110.9	128.1	8	100	95	0 / 4	A
466		10/20/21	16	698A	CL	15.5	111.0	16.1	111.1	129.0	8	100	95	0 / 4	A
467		10/20/21	16	698A	CL	15.5	111.0	16.1	111.6	129.6	8	101	95	0 / 4	A
468		10/20/21	16	698A	CL	15.5	111.0	16.2	111.8	129.9	8	101	95	0 / 4	A
469		10/20/21	16	698A	CL	15.5	111.0	16.8	110.9	129.5	8	100	95	0 / 4	A
470		10/20/21	16	698A	CL	15.5	111.0	16.2	110.5	128.4	8	100	95	0 / 4	A
471		10/20/21	16	698A	CL	15.5	111.0	16.5	111.5	129.9	8	100	95	0 / 4	A
472		10/20/21	16	698A	CL	15.5	111.0	16.2	110.6	128.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
465	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
466	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
467	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
468	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
469	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
470	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
471	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #204							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
472	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000042
10/20/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
473		10/20/21	16	698A	CL	15.5	111.0	16.3	111.2	129.3	8	100	95	0 / 4	A
474		10/20/21	16	698A	CL	15.5	111.0	16.0	112.2	130.1	8	101	95	0 / 4	A
475		10/20/21	16	698A	CL	15.5	111.0	16.5	111.0	129.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
473	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
474	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
475	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 475: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000043
10/21/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
476		10/21/21	7	698A	CL	16.5	107.5	17.6	107.4	126.3	8	100	95	0 / 4	A
477		10/21/21	7	698A	CL	16.5	107.5	17.9	107.0	126.1	8	100	95	0 / 4	A
478		10/21/21	7	698A	CL	16.5	107.5	16.9	107.4	125.5	8	100	95	0 / 4	A
479		10/21/21	7	698A	CL	16.5	107.5	17.5	107.2	126.0	8	100	95	0 / 4	A
480		10/21/21	7	698A	CL	16.5	107.5	17.2	107.0	125.4	8	100	95	0 / 4	A
481		10/21/21	7	698A	CL	16.5	107.5	16.8	107.2	125.2	8	100	95	0 / 4	A
482		10/21/21	7	698A	CL	16.5	107.5	17.4	108.1	126.9	8	101	95	0 / 4	A
483		10/21/21	7	698A	CL	16.5	107.5	17.7	107.3	126.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
476	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
477	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
478	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
479	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
480	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #201							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
481	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
482	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
483	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000043
10/21/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
484		10/21/21	7	698A	CL	16.5	107.5	17.9	107.2	126.4	8	100	95	0 / 4	A
485		10/21/21	7	698A	CL	16.5	107.5	16.9	107.0	125.1	8	100	95	0 / 4	A
486		10/21/21	7	698A	CL	16.5	107.5	17.3	108.0	126.7	8	100	95	0 / 4	A
487		10/21/21	7	698A	CL	16.5	107.5	16.5	107.2	124.9	8	100	95	0 / 4	A
488		10/21/21	7	698A	CL	16.5	107.5	16.8	107.9	126.0	8	100	95	0 / 4	A
489		10/21/21	7	698A	CL	16.5	107.5	16.5	108.9	126.9	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
484	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
485	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
486	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
487	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
488	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
489	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #200							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 489: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000044
10/22/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
490		10/22/21	7	698A	CL	16.5	107.5	17.9	107.7	127.0	8	100	95	0 / 4	A
491		10/22/21	7	698A	CL	16.5	107.5	17.0	108.0	126.4	8	100	95	0 / 4	A
492		10/22/21	7	698A	CL	16.5	107.5	16.7	107.3	125.2	8	100	95	0 / 4	A
493		10/22/21	7	698A	CL	16.5	107.5	17.9	107.0	126.1	8	100	95	0 / 4	A
494		10/22/21	7	698A	CL	16.5	107.5	17.1	107.3	125.7	8	100	95	0 / 4	A
495		10/22/21	7	698A	CL	16.5	107.5	17.6	107.3	126.2	8	100	95	0 / 4	A
496		10/22/21	7	698A	CL	16.5	107.5	16.6	108.8	126.9	8	101	95	0 / 4	A
497		10/22/21	7	698A	CL	16.5	107.5	18.2	107.4	127.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
490	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
491	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
492	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
493	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
494	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
495	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
496	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
497	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000044
10/22/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
498		10/22/21	7	698A	CL	16.5	107.5	16.9	107.2	125.3	8	100	95	0 / 4	A
499		10/22/21	7	698A	CL	16.5	107.5	17.7	107.0	125.9	8	100	95	0 / 4	A
500		10/22/21	7	698A	CL	16.5	107.5	16.9	107.1	125.2	8	100	95	0 / 4	A
501		10/22/21	7	698A	CL	16.5	107.5	17.5	107.6	126.4	8	100	95	0 / 4	A
502		10/22/21	7	698A	CL	16.5	107.5	16.6	107.0	124.8	8	100	95	0 / 4	A
503		10/22/21	7	698A	CL	16.5	107.5	16.9	108.6	127.0	8	101	95	0 / 4	A
504		10/22/21	7	698A	CL	16.5	107.5	16.7	108.7	126.9	8	101	95	0 / 4	A
505		10/22/21	7	698A	CL	16.5	107.5	18.4	107.9	127.7	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
498	Sanitary Trench Backfill: Alpine Phlox Lane. SSMH #103							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
499	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
500	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
501	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
502	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
503	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
504	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
505	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000044
10/22/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
506		10/22/21	7	698A	CL	16.5	107.5	17.0	108.4	126.8	8	101	95	0 / 4	A
507		10/22/21	7	698A	CL	16.5	107.5	17.0	107.1	125.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
506	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
507	Sanitary Trench Backfill: Field Mint Ave. SSMH #64							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 507: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000045
10/23/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
508		10/23/21	7	698A	CL	16.5	107.5	17.0	107.9	126.2	8	100	95	0 / 4	A
509		10/23/21	7	698A	CL	16.5	107.5	17.4	107.2	125.8	8	100	95	0 / 4	A
510		10/23/21	7	698A	CL	16.5	107.5	16.6	108.0	125.9	8	100	95	0 / 4	A
511		10/23/21	7	698A	CL	16.5	107.5	17.1	108.5	127.0	8	101	95	0 / 4	A
512		10/23/21	7	698A	CL	16.5	107.5	17.1	107.7	126.1	8	100	95	0 / 4	A
513		10/23/21	7	698A	CL	16.5	107.5	17.3	108.4	127.1	8	101	95	0 / 4	A
514		10/23/21	7	698A	CL	16.5	107.5	17.7	107.0	125.9	8	100	95	0 / 4	A
515		10/23/21	7	698A	CL	16.5	107.5	17.4	107.8	126.6	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
508	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
509	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
510	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
511	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
512	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
513	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
514	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
515	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000045
10/23/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
516		10/23/21	7	698A	CL	16.5	107.5	17.2	108.6	127.3	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
516	Sanitary Trench Backfill: Field Mint Ave. SSMH #65							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 516: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000046
11/15/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
517		11/15/21	16	698A	CL	15.5	111.0	15.5	110.5	127.6	8	100	95	0 / 4	A
518		11/15/21	16	698A	CL	15.5	111.0	15.7	110.7	128.1	8	100	95	0 / 4	A
519		11/15/21	16	698A	CL	15.5	111.0	15.9	111.1	128.8	8	100	95	0 / 4	A
520		11/15/21	16	698A	CL	15.5	111.0	15.8	111.7	129.3	8	101	95	0 / 4	A
521		11/15/21	16	698A	CL	15.5	111.0	16.3	110.8	128.9	8	100	95	0 / 4	A
522		11/15/21	16	698A	CL	15.5	111.0	16.6	111.1	129.5	8	100	95	0 / 4	A
523		11/15/21	16	698A	CL	15.5	111.0	16.3	111.1	129.2	8	100	95	0 / 4	A
524		11/15/21	16	698A	CL	15.5	111.0	16.7	111.7	130.4	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
517	Sanitary Trench Backfill: Field Mint Ave. SSMH #104							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
518	Sanitary Trench Backfill: Field Mint Ave. SSMH #104							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
519	Sanitary Trench Backfill: Field Mint Ave. SSMH #104							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
520	Sanitary Trench Backfill: Field Mint Ave. SSMH #104							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
521	Sanitary Trench Backfill: Field Mint Ave. SSMH #104							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
522	Sanitary Trench Backfill: Field Mint Ave. SSMH #104							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
523	Sanitary Trench Backfill: Field Mint Ave. SSMH #104							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
524	Sanitary Trench Backfill: Field Mint Ave. SSMH #104							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000046
11/15/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
525		11/15/21	16	698A	CL	15.5	111.0	15.9	111.9	129.7	8	101	95	0 / 4	A
526		11/15/21	16	698A	CL	15.5	111.0	15.8	111.4	129.0	8	100	95	0 / 4	A
527		11/15/21	16	698A	CL	15.5	111.0	15.7	111.1	128.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
525	Sanitary Trench Backfill: Field Mint Ave. SSMH #104						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
526	Sanitary Trench Backfill: Field Mint Ave. SSMH #105						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
527	Sanitary Trench Backfill: Field Mint Ave. SSMH #105						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 527: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary sewer trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000047
11/18/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
528		11/18/21	16	698A	CL	15.5	111.0	16.6	110.9	129.3	8	100	95	0 / 4	A
529		11/18/21	16	698A	CL	15.5	111.0	16.0	111.3	129.1	8	100	95	0 / 4	A
530		11/18/21	16	698A	CL	15.5	111.0	16.6	111.6	130.1	8	101	95	0 / 4	A
531		11/18/21	16	698A	CL	15.5	111.0	16.1	110.9	128.7	8	100	95	0 / 4	A
532		11/18/21	16	698A	CL	15.5	111.0	16.5	111.0	129.3	8	100	95	0 / 4	A
533		11/18/21	16	698A	CL	15.5	111.0	16.7	111.2	129.8	8	100	95	0 / 4	A
534		11/18/21	16	698A	CL	15.5	111.0	16.1	110.9	128.8	8	100	95	0 / 4	A
535		11/18/21	5	698A	SC	13.5	114.5	14.7	114.6	131.4	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
528	Sanitary Trench Backfill: Field Mint Ave. SSMH #105							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
529	Sanitary Trench Backfill: Field Mint Ave. SSMH #105							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
530	Sanitary Trench Backfill: Field Mint Ave. SSMH #105							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
531	Sanitary Trench Backfill: Field Mint Ave. SSMH #105							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
532	Sanitary Trench Backfill: Field Mint Ave. SSMH #105							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
533	Sanitary Trench Backfill: Field Mint Ave. SSMH #105							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
534	Sanitary Trench Backfill: Field Mint Ave. SSMH #105							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
535	Sanitary Trench Backfill: Field Mint Ave. SSMH #106							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000047
11/18/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
536		11/18/21	5	698A	SC	13.5	114.5	13.5	114.0	129.4	8	100	100	-2 / 2	A
537		11/18/21	5	698A	SC	13.5	114.5	14.6	114.7	131.5	8	100	100	-2 / 2	A
538		11/18/21	5	698A	SC	13.5	114.5	14.3	114.5	130.9	8	100	100	-2 / 2	A
539		11/18/21	5	698A	SC	13.5	114.5	14.1	114.7	130.9	8	100	100	-2 / 2	A
540		11/18/21	5	698A	SC	13.5	114.5	13.5	114.3	129.7	8	100	100	-2 / 2	A
541		11/18/21	5	698A	SC	13.5	114.5	14.1	115.5	131.8	8	101	100	-2 / 2	A
542		11/18/21	5	698A	SC	13.5	114.5	14.1	114.5	130.6	8	100	100	-2 / 2	A
543		11/18/21	5	698A	SC	13.5	114.5	14.4	115.1	131.7	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
536	Sanitary Trench Backfill: Field Mint Ave. SSMH #106						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
537	Sanitary Trench Backfill: Field Mint Ave. SSMH #106						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
538	Sanitary Trench Backfill: Field Mint Ave. SSMH #106						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
539	Sanitary Trench Backfill: Field Mint Ave. SSMH #106						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
540	Sanitary Trench Backfill: Field Mint Ave. SSMH #106						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
541	Sanitary Trench Backfill: Field Mint Ave. SSMH #106						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
542	Sanitary Trench Backfill: Field Mint Ave. SSMH #106						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
543	Sanitary Trench Backfill: Field Mint Ave. SSMH #106						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000047
11/18/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
544		11/18/21	5	698A	SC	13.5	114.5	14.5	114.8	131.5	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
544	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 544: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary sewer trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000048
11/19/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
545		11/19/21	5	698A	SC	13.5	114.5	14.3	114.1	130.4	8	100	100	-2 / 2	A
546		11/19/21	5	698A	SC	13.5	114.5	14.1	114.9	131.1	8	100	100	-2 / 2	A
547		11/19/21	5	698A	SC	13.5	114.5	13.5	114.0	129.4	8	100	100	-2 / 2	A
548		11/19/21	5	698A	SC	13.5	114.5	14.6	115.1	131.9	8	101	100	-2 / 2	A
549		11/19/21	5	698A	SC	13.5	114.5	14.0	114.4	130.4	8	100	100	-2 / 2	A
550		11/19/21	5	698A	SC	13.5	114.5	15.1	114.7	132.0	8	100	100	-2 / 2	A
551		11/19/21	5	698A	SC	13.5	114.5	15.2	115.2	132.7	8	101	100	-2 / 2	A
552		11/19/21	5	698A	SC	13.5	114.5	14.1	115.3	131.6	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
545	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
546	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
547	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
548	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
549	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
550	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
551	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
552	Sanitary Trench Backfill: Field Mint Ave. SSMH #107							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000048
11/19/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
553		11/19/21	5	698A	SC	13.5	114.5	13.8	114.0	129.7	8	100	100	-2 / 2	A
554		11/19/21	5	698A	SC	13.5	114.5	14.0	115.4	131.6	8	101	100	-2 / 2	A
555		11/19/21	5	698A	SC	13.5	114.5	14.8	114.5	131.4	8	100	100	-2 / 2	A
556		11/19/21	5	698A	SC	13.5	114.5	13.9	114.9	130.9	8	100	100	-2 / 2	A
557		11/19/21	5	698A	SC	13.5	114.5	13.9	114.0	129.8	8	100	100	-2 / 2	A
558		11/19/21	5	698A	SC	13.5	114.5	14.2	114.9	131.2	8	100	100	-2 / 2	A
559		11/19/21	5	698A	SC	13.5	114.5	14.6	115.4	132.3	8	101	100	-2 / 2	A
560		11/19/21	5	698A	SC	13.5	114.5	13.3	114.0	129.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
553	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
554	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
555	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
556	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
557	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
558	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
559	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
560	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000048
11/19/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
561		11/19/21	5	698A	SC	13.5	114.5	13.7	115.0	130.8	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
561	Sanitary Trench Backfill: Field Mint Ave. SSMH #108							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 561: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary sewer trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000049
09/22/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
562		09/22/21	16	698A	CL	15.5	111.0	16.2	110.7	128.6	8	100	95	0 / 4	A
563		09/22/21	16	698A	CL	15.5	111.0	16.1	110.9	128.8	8	100	95	0 / 4	A
564		09/22/21	16	698A	CL	15.5	111.0	16.0	110.7	128.4	8	100	95	0 / 4	A
565		09/22/21	16	698A	CL	15.5	111.0	16.3	111.0	129.1	8	100	95	0 / 4	A
566		09/22/21	16	698A	CL	15.5	111.0	16.2	111.4	129.5	8	100	95	0 / 4	A
567		09/22/21	16	698A	CL	15.5	111.0	15.8	111.2	128.8	8	100	95	0 / 4	A
568		09/22/21	16	698A	CL	15.5	111.0	16.0	111.5	129.3	8	100	95	0 / 4	A
569		09/22/21	16	698A	CL	15.5	111.0	16.7	111.0	129.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
562	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
563	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
564	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
565	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
566	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
567	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
568	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
569	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000049
09/22/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
570		09/22/21	16	698A	CL	15.5	111.0	15.8	110.9	128.4	8	100	95	0 / 4	A
571		09/22/21	16	698A	CL	15.5	111.0	16.1	111.5	129.4	8	100	95	0 / 4	A
572		09/22/21	16	698A	CL	15.5	111.0	16.4	110.8	129.0	8	100	95	0 / 4	A
573		09/22/21	16	698A	CL	15.5	111.0	15.7	110.5	127.9	8	100	95	0 / 4	A
574		09/22/21	16	698A	CL	15.5	111.0	16.7	111.5	130.1	8	100	95	0 / 4	A
575		09/22/21	16	698A	CL	15.5	111.0	16.2	112.1	130.3	8	101	95	0 / 4	A
576		09/22/21	16	698A	CL	15.5	111.0	16.2	110.6	128.5	8	100	95	0 / 4	A
577		09/22/21	16	698A	CL	15.5	111.0	15.9	110.6	128.2	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
570	Sanitary Trench Backfill: Service line. Lot 1. Block 4. Filing 11							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
571	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
572	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
573	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
574	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
575	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
576	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
577	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000049
09/22/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
578		09/22/21	16	698A	CL	15.5	111.0	16.8	111.8	130.6	8	101	95	0 / 4	A
579		09/22/21	16	698A	CL	15.5	111.0	15.7	112.4	130.1	8	101	95	0 / 4	A
580		09/22/21	16	698A	CL	15.5	111.0	16.9	112.2	131.2	8	101	95	0 / 4	A
581		09/22/21	16	698A	CL	15.5	111.0	15.7	110.5	127.9	8	100	95	0 / 4	A
582		09/22/21	16	698A	CL	15.5	111.0	15.6	110.6	127.9	8	100	95	0 / 4	A
583		09/22/21	16	698A	CL	15.5	111.0	15.7	110.6	128.0	8	100	95	0 / 4	A
584		09/22/21	16	698A	CL	15.5	111.0	15.6	111.6	129.0	8	101	95	0 / 4	A
585		09/22/21	16	698A	CL	15.5	111.0	16.1	110.5	128.3	8	100	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
578	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11	2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
579	Sanitary Trench Backfill: Service line. Lot 2. Block 4. Filing 11	1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
580	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11	9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
581	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11	8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
582	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11	7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
583	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11	6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
584	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11	5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
585	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11	4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000049
09/22/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
586		09/22/21	16	698A	CL	15.5	111.0	16.8	111.1	129.8	8	100	95	0 / 4	A
587		09/22/21	16	698A	CL	15.5	111.0	17.0	110.9	129.7	8	100	95	0 / 4	A
588		09/22/21	16	698A	CL	15.5	111.0	16.5	111.1	129.4	8	100	95	0 / 4	A
589		09/22/21	16	698A	CL	15.5	111.0	16.4	110.8	129.0	8	100	95	0 / 4	A
590		09/22/21	16	698A	CL	15.5	111.0	15.8	110.6	128.1	8	100	95	0 / 4	A
591		09/22/21	16	698A	CL	15.5	111.0	17.0	110.6	129.4	8	100	95	0 / 4	A
592		09/22/21	16	698A	CL	15.5	111.0	16.7	111.3	129.9	8	100	95	0 / 4	A
593		09/22/21	16	698A	CL	15.5	111.0	16.0	111.0	128.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
586	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
587	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
588	Sanitary Trench Backfill: Service line. Lot 3. Block 4. Filing 11							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
589	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
590	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
591	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
592	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
593	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000049

09/22/2021

Report Date: 03/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
594		09/22/21	16	698A	CL	15.5	111.0	16.6	110.6	129.0	8	100	95	0 / 4	A
595		09/22/21	16	698A	CL	15.5	111.0	17.0	111.3	130.2	8	100	95	0 / 4	A
596		09/22/21	16	698A	CL	15.5	111.0	16.2	111.4	129.4	8	100	95	0 / 4	A
597		09/22/21	16	698A	CL	15.5	111.0	16.0	110.6	128.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
594	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
595	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
596	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
597	Sanitary Trench Backfill: Service line. Lot 4. Block 4. Filing 11						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000050
09/23/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
598		09/23/21	7	698A	CL	16.5	107.5	17.6	107.1	125.9	8	100	95	0 / 4	A
599		09/23/21	7	698A	CL	16.5	107.5	17.1	107.7	126.1	8	100	95	0 / 4	A
600		09/23/21	7	698A	CL	16.5	107.5	16.6	108.0	125.9	8	100	95	0 / 4	A
601		09/23/21	7	698A	CL	16.5	107.5	17.2	108.4	127.0	8	101	95	0 / 4	A
602		09/23/21	7	698A	CL	16.5	107.5	17.5	108.0	126.9	8	100	95	0 / 4	A
603		09/23/21	7	698A	CL	16.5	107.5	16.7	107.7	125.7	8	100	95	0 / 4	A
604		09/23/21	7	698A	CL	16.5	107.5	16.9	108.0	126.3	8	100	95	0 / 4	A
605		09/23/21	7	698A	CL	16.5	107.5	17.7	107.9	127.0	8	100	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
598	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11	9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
599	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11	8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
600	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11	7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
601	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11	6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
602	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11	5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
603	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11	4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
604	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11	3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
605	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11	2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000050
09/23/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
606		09/23/21	7	698A	CL	16.5	107.5	16.8	107.5	125.6	8	100	95	0 / 4	A
607		09/23/21	7	698A	CL	16.5	107.5	16.7	107.5	125.4	8	100	95	0 / 4	A
608		09/23/21	7	698A	CL	16.5	107.5	18.3	108.6	128.5	8	101	95	0 / 4	A
609		09/23/21	7	698A	CL	16.5	107.5	16.5	107.8	125.6	8	100	95	0 / 4	A
610		09/23/21	7	698A	CL	16.5	107.5	16.9	107.8	126.0	8	100	95	0 / 4	A
611		09/23/21	7	698A	CL	16.5	107.5	17.4	107.9	126.7	8	100	95	0 / 4	A
612		09/23/21	7	698A	CL	16.5	107.5	16.7	107.9	125.9	8	100	95	0 / 4	A
613		09/23/21	7	698A	CL	16.5	107.5	17.2	107.6	126.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
606	Sanitary Trench Backfill: Service line. Lot 1. Block 5. Filing 11							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
607	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
608	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
609	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
610	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
611	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
612	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
613	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000050
09/23/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remarks
614		09/23/21	7	698A	CL	16.5	107.5	17.5	108.3	127.2	8	101	95	0 / 4	A
615		09/23/21	7	698A	CL	16.5	107.5	17.3	107.8	126.5	8	100	95	0 / 4	A
616		09/23/21	7	698A	CL	16.5	107.5	18.2	107.9	127.5	8	100	95	0 / 4	A
617		09/23/21	7	698A	CL	16.5	107.5	16.9	107.4	125.5	8	100	95	0 / 4	A
618		09/23/21	7	698A	CL	16.5	107.5	17.0	107.5	125.8	8	100	95	0 / 4	A
619		09/23/21	7	698A	CL	16.5	107.5	18.2	108.0	127.7	8	100	95	0 / 4	A
620		09/23/21	7	698A	CL	16.5	107.5	16.6	107.9	125.8	8	100	95	0 / 4	A
621		09/23/21	7	698A	CL	16.5	107.5	17.1	107.8	126.2	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
614	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
615	Sanitary Trench Backfill: Service line. Lot 2. Block 5. Filing 11							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
616	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
617	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
618	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
619	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
620	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
621	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000050
09/23/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
622		09/23/21	7	698A	CL	16.5	107.5	16.5	107.6	125.4	8	100	95	0 / 4	A
623		09/23/21	7	698A	CL	16.5	107.5	18.4	107.9	127.8	8	100	95	0 / 4	A
624		09/23/21	7	698A	CL	16.5	107.5	17.5	107.8	126.7	8	100	95	0 / 4	A
625		09/23/21	7	698A	CL	16.5	107.5	16.6	107.6	125.5	8	100	95	0 / 4	A
626		09/23/21	7	698A	CL	16.5	107.5	16.7	107.8	125.8	8	100	95	0 / 4	A
627		09/23/21	7	698A	CL	16.5	107.5	17.5	107.5	126.3	8	100	95	0 / 4	A
628		09/23/21	7	698A	CL	16.5	107.5	18.6	107.9	128.0	8	100	95	0 / 4	A
629		09/23/21	7	698A	CL	16.5	107.5	16.5	108.0	125.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
622	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
623	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
624	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
625	Sanitary Trench Backfill: Service line. Lot 3. Block 5. Filing 11						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
626	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
627	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
628	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
629	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000050
09/23/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
630		09/23/21	7	698A	CL	16.5	107.5	17.5	107.7	126.6	8	100	95	0 / 4	A
631		09/23/21	7	698A	CL	16.5	107.5	16.7	107.9	125.9	8	100	95	0 / 4	A
632		09/23/21	7	698A	CL	16.5	107.5	16.8	107.1	125.1	8	100	95	0 / 4	A
633		09/23/21	7	698A	CL	16.5	107.5	17.5	108.2	127.1	8	101	95	0 / 4	A
634		09/23/21	7	698A	CL	16.5	107.5	17.7	107.4	126.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
630	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
631	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
632	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
633	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
634	Sanitary Trench Backfill: Service line. Lot 4. Block 5. Filing 11							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000051
09/27/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
635		09/27/21	7	698A	CL	16.5	107.5	17.0	108.0	126.4	8	100	95	0 / 4	A
636		09/27/21	7	698A	CL	16.5	107.5	16.6	107.8	125.7	8	100	95	0 / 4	A
637		09/27/21	7	698A	CL	16.5	107.5	17.1	107.9	126.4	8	100	95	0 / 4	A
638		09/27/21	7	698A	CL	16.5	107.5	17.5	108.1	127.0	8	101	95	0 / 4	A
639		09/27/21	7	698A	CL	16.5	107.5	17.1	107.4	125.8	8	100	95	0 / 4	A
640		09/27/21	7	698A	CL	16.5	107.5	17.5	107.9	126.8	8	100	95	0 / 4	A
641		09/27/21	7	698A	CL	16.5	107.5	18.4	107.8	127.6	8	100	95	0 / 4	A
642		09/27/21	7	698A	CL	16.5	107.5	16.7	107.7	125.7	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
635	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 10+50.							10.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
636	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 13+00.							9.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
637	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 12+00. Filing 11							8.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
638	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 11+00. Filing 11							8.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
639	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 12+50. Filing 11							7.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
640	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 13+00. Filing 11							6.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
641	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 10+75. Filing 11							5.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
642	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 11+50. Filing 11							4.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000051
09/27/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
643		09/27/21	7	698A	CL	16.5	107.5	17.2	107.8	126.3	8	100	95	0 / 4	A
644		09/27/21	7	698A	CL	16.5	107.5	17.3	108.1	126.8	8	101	95	0 / 4	A
645		09/27/21	7	698A	CL	16.5	107.5	16.7	108.9	127.1	8	101	95	0 / 4	A
646		09/27/21	7	698A	CL	16.5	107.5	18.1	108.0	127.6	8	100	95	0 / 4	A
647		09/27/21	7	698A	CL	16.5	107.5	18.2	108.0	127.7	8	100	95	0 / 4	A
648		09/27/21	7	698A	CL	16.5	107.5	17.5	107.9	126.8	8	100	95	0 / 4	A
649		09/27/21	7	698A	CL	16.5	107.5	16.9	108.7	127.1	8	101	95	0 / 4	A
650		09/27/21	7	698A	CL	16.5	107.5	16.9	107.7	125.9	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
643	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 12+25. Filing 11							3.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
644	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 12+75. Filing 11							2.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
645	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 11+00. Filing 11							1.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
646	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 13+50. Filing 11							10.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
647	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 14+25. Filing 11							9.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
648	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 15+50. Filing 11							8.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
649	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 13+75. Filing 11							7.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
650	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 15+00. Filing 11							6.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000051
09/27/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
651		09/27/21	7	698A	CL	16.5	107.5	17.9	107.6	126.9	8	100	95	0 / 4	A
652		09/27/21	7	698A	CL	16.5	107.5	16.5	108.0	125.8	8	100	95	0 / 4	A
653		09/27/21	7	698A	CL	16.5	107.5	16.6	107.5	125.3	8	100	95	0 / 4	A
654		09/27/21	7	698A	CL	16.5	107.5	17.0	108.1	126.5	8	101	95	0 / 4	A
655		09/27/21	7	698A	CL	16.5	107.5	17.3	107.8	126.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
651	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 14+50. Filing 11							5.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
652	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 13+50. Filing 11							4.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
653	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 14+00. Filing 11							3.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
654	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 15+25. Filing 11							2.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
655	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 14+50. Filing 11							1.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000052
09/28/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remarks
656		09/28/21	7	698A	CL	16.5	107.5	17.4	107.5	126.2	8	100	95	0 / 4	A
657		09/28/21	7	698A	CL	16.5	107.5	17.0	107.3	125.5	8	100	95	0 / 4	A
658		09/28/21	7	698A	CL	16.5	107.5	17.2	108.2	126.8	8	101	95	0 / 4	A
659		09/28/21	7	698A	CL	16.5	107.5	16.7	107.2	125.1	8	100	95	0 / 4	A
660		09/28/21	7	698A	CL	16.5	107.5	17.6	108.1	127.1	8	101	95	0 / 4	A
661		09/28/21	7	698A	CL	16.5	107.5	17.4	107.4	126.1	8	100	95	0 / 4	A
662		09/28/21	7	698A	CL	16.5	107.5	16.9	107.2	125.3	8	100	95	0 / 4	A
663		09/28/21	7	698A	CL	16.5	107.5	17.7	108.2	127.4	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
656	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 14+50. Filing 11							10.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
657	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 14+70. Filing 11							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
658	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 14+90. Filing 11							8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
659	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 15+10. Filing 11							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
660	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 15+30. Filing 11							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
661	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 15+50. Filing 11							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
662	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 15+70. Filing 11							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
663	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 15+90. Filing 11							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000052
09/28/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
664		09/28/21	7	698A	CL	16.5	107.5	18.8	108.1	128.4	8	101	95	0 / 4	A
665		09/28/21	7	698A	CL	16.5	107.5	16.5	107.5	125.2	8	100	95	0 / 4	A
666		09/28/21	7	698A	CL	16.5	107.5	17.0	107.8	126.1	8	100	95	0 / 4	A
667		09/28/21	7	698A	CL	16.5	107.5	16.6	107.6	125.5	8	100	95	0 / 4	A
668		09/28/21	7	698A	CL	16.5	107.5	17.4	107.8	126.6	8	100	95	0 / 4	A
669		09/28/21	7	698A	CL	16.5	107.5	17.1	107.5	125.9	8	100	95	0 / 4	A
670		09/28/21	7	698A	CL	16.5	107.5	18.3	107.5	127.2	8	100	95	0 / 4	A
671		09/28/21	7	698A	CL	16.5	107.5	17.2	108.9	127.6	8	101	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
664	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 16+10. Filing 11						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
665	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 16+30. Filing 11						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
666	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 16+25. Filing 11						10.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
667	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 17+00. Filing 11						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
668	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 17+50. Filing 11						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
669	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 18+25. Filing 11						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
670	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 17+00. Filing 11						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
671	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 17+50. Filing 11						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000052
09/28/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-315
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
672		09/28/21	7	698A	CL	16.5	107.5	16.9	107.3	125.4	8	100	95	0 / 4	A
673		09/28/21	7	698A	CL	16.5	107.5	18.2	107.9	127.5	8	100	95	0 / 4	A
674		09/28/21	7	698A	CL	16.5	107.5	17.4	107.8	126.6	8	100	95	0 / 4	A
675		09/28/21	7	698A	CL	16.5	107.5	16.7	107.5	125.4	8	100	95	0 / 4	A
676		09/28/21	7	698A	CL	16.5	107.5	17.0	107.7	126.0	8	100	95	0 / 4	A
677		09/28/21	7	698A	CL	16.5	107.5	17.5	107.8	126.7	8	100	95	0 / 4	A
678		09/28/21	7	698A	CL	16.5	107.5	17.2	107.9	126.5	8	100	95	0 / 4	A
679		09/28/21	7	698A	CL	16.5	107.5	16.6	108.0	125.9	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated				Field Technician		
672	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 18+25. Filing 11						5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
673	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 16+25. Filing 11						3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
674	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 17+50. Filing 11						2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
675	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 18+00. Filing 11						1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
676	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 18+75. Filing 11						7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
677	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 19+00. Filing 11						3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
678	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 19+50. Filing 11						5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
679	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 19+75. Filing 11						2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000052
09/28/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
680		09/28/21	7	698A	CL	16.5	107.5	17.4	108.6	127.5	8	101	95	0 / 4	A
681		09/28/21	7	698A	CL	16.5	107.5	17.3	108.3	127.0	8	101	95	0 / 4	A
682		09/28/21	7	698A	CL	16.5	107.5	16.8	107.2	125.2	8	100	95	0 / 4	A
683		09/28/21	7	698A	CL	16.5	107.5	17.7	107.4	126.4	8	100	95	0 / 4	A
684		09/28/21	7	698A	CL	16.5	107.5	18.4	107.9	127.8	8	100	95	0 / 4	A
685		09/28/21	7	698A	CL	16.5	107.5	17.3	107.1	125.6	8	100	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
680	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 20+25. Filing 11	4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
681	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 20+00. Filing 11	7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
682	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 20+50. Filing 11	8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
683	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 21+25. Filing 11	9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
684	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 21+25. Filing 11	2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
685	Sanitary Trench Backfill: Mainline. Field Mint Ave. Station 21+50. Filing 11	1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 685: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the sheepsfoot roller.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000053

10/13/2021

Report Date: 03/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
686		10/13/21	7	698A	CL	16.5	107.5	16.7	107.3	125.2	8	100	95	0 / 4	A
687		10/13/21	7	698A	CL	16.5	107.5	17.0	107.5	125.8	8	100	95	0 / 4	A
688		10/13/21	7	698A	CL	16.5	107.5	17.4	107.8	126.6	8	100	95	0 / 4	A
689		10/13/21	7	698A	CL	16.5	107.5	17.5	108.0	126.9	8	100	95	0 / 4	A
690		10/13/21	7	698A	CL	16.5	107.5	17.4	107.3	126.0	8	100	95	0 / 4	A
691		10/13/21	7	698A	CL	16.5	107.5	17.2	107.1	125.5	8	100	95	0 / 4	A
692		10/13/21	7	698A	CL	16.5	107.5	17.4	108.1	126.9	8	101	95	0 / 4	A
693		10/13/21	7	698A	CL	16.5	107.5	17.2	107.2	125.6	8	100	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
686	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 29+50. Filing 11	10.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
687	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 29+70. Filing 11	9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
688	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 29+90. Filing 11	8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
689	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 30+10. Filing 11	7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
690	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 30+30. Filing 11	6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
691	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 30+50. Filing 11	5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
692	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 30+80. Filing 11	4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse
693	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 31+10. Filing 11	3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021	Eaton, Jesse

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000053
10/13/2021
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
694		10/13/21	7	698A	CL	16.5	107.5	17.9	108.0	127.3	8	100	95	0 / 4	A
695		10/13/21	7	698A	CL	16.5	107.5	16.9	107.2	125.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
694	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 31+30. Filing 11						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
695	Sanitary Trench Backfill: Mainline. Beebalm Ave. Station 31+50. Filing 11						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 695: As requested by Sheryl with JBS, a site visit was made to observe and test sanitary trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the sheepsfoot roller.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000054
09/14/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
746		09/14/21	7	698A	CL	16.5	107.5	17.3	107.8	126.4	8	100	95	0 / 4	A
747		09/14/21	7	698A	CL	16.5	107.5	16.8	107.8	125.9	8	100	95	0 / 4	A
748		09/14/21	7	698A	CL	16.5	107.5	16.5	107.9	125.7	8	100	95	0 / 4	A
749		09/14/21	7	698A	CL	16.5	107.5	17.2	108.0	126.6	8	100	95	0 / 4	A
750		09/14/21	7	698A	CL	16.5	107.5	16.6	107.6	125.5	8	100	95	0 / 4	A
751		09/14/21	7	698A	CL	16.5	107.5	16.9	107.8	126.0	8	100	95	0 / 4	A
752		09/14/21	7	698A	CL	16.5	107.5	16.6	108.0	125.9	8	100	95	0 / 4	A
753		09/14/21	7	698A	CL	16.5	107.5	17.3	107.8	126.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
746	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 9+50						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
747	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 9+60						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
748	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 9+80						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
749	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 10+00						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
750	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 10+20						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
751	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 10+40						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
752	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 10+60						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
753	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 10+80						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000054

09/14/2021

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-315

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
754		09/14/21	7	698A	CL	16.5	107.5	17.5	108.2	127.1	8	101	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
754	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 10+80						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000055
09/15/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
755		09/15/21	7	698A	CL	16.5	107.5	17.6	107.5	126.4	8	100	95	0 / 4	A
756		09/15/21	7	698A	CL	16.5	107.5	16.8	107.8	125.9	8	100	95	0 / 4	A
757		09/15/21	7	698A	CL	16.5	107.5	16.8	107.9	126.0	8	100	95	0 / 4	A
758		09/15/21	7	698A	CL	16.5	107.5	16.6	107.8	125.7	8	100	95	0 / 4	A
759		09/15/21	7	698A	CL	16.5	107.5	17.3	107.7	126.3	8	100	95	0 / 4	A
760		09/15/21	7	698A	CL	16.5	107.5	16.8	107.6	125.7	8	100	95	0 / 4	A
761		09/15/21	7	698A	CL	16.5	107.5	17.4	107.7	126.4	8	100	95	0 / 4	A
762		09/15/21	7	698A	CL	16.5	107.5	17.3	107.8	126.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
755	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 10+00						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
756	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 11+20						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
757	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 11+40						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
758	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 11+60						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
759	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 11+80						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
760	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 12+00						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
761	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 12+20						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
762	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 12+40						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000055
09/15/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
763		09/15/21	7	698A	CL	16.5	107.5	17.7	107.9	127.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
763	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 12+60						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000056
09/16/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
764		09/16/21	7	698A	CL	16.5	107.5	17.3	107.8	126.5	8	100	95	0 / 4	A
765		09/16/21	7	698A	CL	16.5	107.5	17.3	107.7	126.3	8	100	95	0 / 4	A
766		09/16/21	7	698A	CL	16.5	107.5	16.5	108.1	125.9	8	101	95	0 / 4	A
767		09/16/21	7	698A	CL	16.5	107.5	16.9	107.4	125.5	8	100	95	0 / 4	A
768		09/16/21	7	698A	CL	16.5	107.5	17.3	107.2	125.7	8	100	95	0 / 4	A
769		09/16/21	7	698A	CL	16.5	107.5	17.2	107.8	126.3	8	100	95	0 / 4	A
770		09/16/21	7	698A	CL	16.5	107.5	16.8	107.4	125.4	8	100	95	0 / 4	A
771		09/16/21	7	698A	CL	16.5	107.5	17.0	107.7	126.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
764	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 12+80						9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
765	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 13+00						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
766	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 13+20						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
767	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 13+40						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
768	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 13+60						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
769	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 13+80						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
770	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 14+00						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
771	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 14+25						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000056
09/16/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
772		09/16/21	7	698A	CL	16.5	107.5	17.7	108.0	127.1	8	100	95	0 / 4	A
773		09/16/21	7	698A	CL	16.5	107.5	17.4	108.0	126.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
772	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 14+25							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
773	Sanitary Trench Backfill: Mainline. Black Sedge Cir. Filing 11. STA: 14+50							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000057
09/30/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
696		09/30/21	16	698A	CL	15.5	111.0	16.9	111.1	129.9	8	100	95	0 / 4	A
697		09/30/21	16	698A	CL	15.5	111.0	16.7	110.9	129.4	8	100	95	0 / 4	A
698		09/30/21	16	698A	CL	15.5	111.0	16.4	110.7	128.9	8	100	95	0 / 4	A
699		09/30/21	16	698A	CL	15.5	111.0	16.5	110.7	129.0	8	100	95	0 / 4	A
700		09/30/21	16	698A	CL	15.5	111.0	16.1	110.9	128.8	8	100	95	0 / 4	A
701		09/30/21	16	698A	CL	15.5	111.0	16.0	110.8	128.5	8	100	95	0 / 4	A
702		09/30/21	16	698A	CL	15.5	111.0	16.2	110.8	128.7	8	100	95	0 / 4	A
703		09/30/21	16	698A	CL	15.5	111.0	16.5	110.8	129.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
696	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
697	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
698	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
699	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
700	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
701	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
702	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
703	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 2, Block 3							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000057

09/30/2021

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-315

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
704		09/30/21	16	698A	CL	15.5	111.0	15.8	110.9	128.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
704	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000058
10/01/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
705		10/01/21	16	698A	CL	15.5	111.0	15.6	110.5	127.7	8	100	95	0 / 4	A
706		10/01/21	16	698A	CL	15.5	111.0	15.5	110.7	127.9	8	100	95	0 / 4	A
707		10/01/21	16	698A	CL	15.5	111.0	15.9	110.9	128.5	8	100	95	0 / 4	A
708		10/01/21	16	698A	CL	15.5	111.0	15.7	111.8	129.4	8	101	95	0 / 4	A
709		10/01/21	16	698A	CL	15.5	111.0	15.5	110.5	127.6	8	100	95	0 / 4	A
710		10/01/21	16	698A	CL	15.5	111.0	16.5	111.3	129.7	8	100	95	0 / 4	A
711		10/01/21	16	698A	CL	15.5	111.0	16.9	110.8	129.5	8	100	95	0 / 4	A
712		10/01/21	16	698A	CL	15.5	111.0	15.5	110.5	127.6	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
705	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
706	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
707	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
708	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
709	Sanitary Trench Backfill: Sanitary Service. Field Mint PT, Lot 5, Block 1							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
710	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							10.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
711	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
712	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000058

10/01/2021

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-315

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
713		10/01/21	16	698A	CL	15.5	111.0	15.8	110.9	128.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
713	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000059
10/04/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
714		10/04/21	16	698A	CL	15.5	111.0	16.4	110.8	129.0	8	100	95	0 / 4	A
715		10/04/21	16	698A	CL	15.5	111.0	15.7	110.5	127.9	8	100	95	0 / 4	A
716		10/04/21	16	698A	CL	15.5	111.0	15.6	111.2	128.5	8	100	95	0 / 4	A
717		10/04/21	16	698A	CL	15.5	111.0	15.8	111.1	128.7	8	100	95	0 / 4	A
718		10/04/21	16	698A	CL	15.5	111.0	16.3	110.5	128.5	8	100	95	0 / 4	A
719		10/04/21	16	698A	CL	15.5	111.0	16.8	110.7	129.3	8	100	95	0 / 4	A
720		10/04/21	16	698A	CL	15.5	111.0	17.1	110.7	129.6	8	100	95	0 / 4	A
721		10/04/21	16	698A	CL	15.5	111.0	16.3	110.9	129.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
714	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
715	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
716	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
717	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
718	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
719	Sanitary Trench Backfill: Alpine Phlox Lane. Filing 11. SSMH-205							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
720	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							10.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
721	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							9.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000059

10/04/2021

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-315

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
722		10/04/21	16	698A	CL	15.5	111.0	16.1	110.9	128.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
722	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000060
10/05/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
723		10/05/21	16	698A	CL	15.5	111.0	15.5	110.7	127.9	8	100	95	0 / 4	A
724		10/05/21	16	698A	CL	15.5	111.0	15.6	110.7	128.0	8	100	95	0 / 4	A
725		10/05/21	16	698A	CL	15.5	111.0	15.8	111.1	128.6	8	100	95	0 / 4	A
726		10/05/21	16	698A	CL	15.5	111.0	16.2	110.8	128.7	8	100	95	0 / 4	A
727		10/05/21	16	698A	CL	15.5	111.0	16.5	110.8	129.1	8	100	95	0 / 4	A
728		10/05/21	16	698A	CL	15.5	111.0	15.7	111.1	128.5	8	100	95	0 / 4	A
729		10/05/21	16	698A	CL	15.5	111.0	16.8	110.8	129.4	8	100	95	0 / 4	A
730		10/05/21	16	698A	CL	15.5	111.0	16.0	110.7	128.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
723	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
724	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
725	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
726	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
727	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
728	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
729	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-187 and SSMH-188							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
730	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000060

Report Date: 10/05/2021

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
731		10/05/21	16	698A	CL	15.5	111.0	17.0	110.7	129.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
731	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000061
10/06/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
732		10/06/21	16	698A	CL	15.5	111.0	15.6	110.6	127.8	8	100	95	0 / 4	A
733		10/06/21	16	698A	CL	15.5	111.0	15.9	111.0	128.7	8	100	95	0 / 4	A
734		10/06/21	16	698A	CL	15.5	111.0	16.4	111.0	129.2	8	100	95	0 / 4	A
735		10/06/21	16	698A	CL	15.5	111.0	15.9	110.8	128.4	8	100	95	0 / 4	A
736		10/06/21	16	698A	CL	15.5	111.0	15.8	110.6	128.1	8	100	95	0 / 4	A
737		10/06/21	16	698A	CL	15.5	111.0	15.7	110.5	127.8	8	100	95	0 / 4	A
738		10/06/21	16	698A	CL	15.5	111.0	15.9	110.8	128.4	8	100	95	0 / 4	A
739		10/06/21	16	698A	CL	15.5	111.0	17.1	110.7	129.6	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
732	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
733	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
734	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
735	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
736	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
737	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
738	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-191 and SSMH-192							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
739	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-190							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000061

10/06/2021

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-315

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
740		10/06/21	16	698A	CL	15.5	111.0	16.9	111.0	129.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
740	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-190						8.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000062
10/07/2021
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-315
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
741		10/07/21	16	698A	CL	15.5	111.0	15.5	110.8	128.0	8	100	95	0 / 4	A
742		10/07/21	16	698A	CL	15.5	111.0	15.8	110.8	128.3	8	100	95	0 / 4	A
743		10/07/21	16	698A	CL	15.5	111.0	17.2	111.2	130.3	8	100	95	0 / 4	A
744		10/07/21	16	698A	CL	15.5	111.0	15.7	110.5	127.9	8	100	95	0 / 4	A
745		10/07/21	16	698A	CL	15.5	111.0	15.6	111.0	128.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
741	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-190						7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
742	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-190						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
743	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-190						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
744	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-190						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
745	Sanitary Trench Backfill: Black Sedge Cir. Filing 11. SSMH-190						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000001
11/20/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
1		11/20/21	5	698A	SC	13.5	114.5	12.3	114.3	128.4	8	100	100	-2 / 2	A
2		11/20/21	5	698A	SC	13.5	114.5	12.7	114.2	128.7	8	100	100	-2 / 2	A
3		11/20/21	5	698A	SC	13.5	114.5	12.9	114.3	129.1	8	100	100	-2 / 2	A
4		11/20/21	5	698A	SC	13.5	114.5	12.1	114.7	128.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
1	Waterline Trench Backfill: Filing 11. Field Mint Ave. East of Lot 13. Block 6.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
2	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Ave. East of Lot 10. Block 6.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
3	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Point. South of Lot 9. Block 1							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
4	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Point. South of Lot 8. Block 1							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 4: As requested by Ken with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the excavator, add moisture with the water truck, and apply compactive effort with the excavator.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000002
11/22/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
5		11/22/21	5	698A	SC	13.5	114.5	13.1	114.3	129.3	8	100	100	-2 / 2	A
6		11/22/21	5	698A	SC	13.5	114.5	12.5	114.9	129.3	8	100	100	-2 / 2	A
7		11/22/21	5	698A	SC	13.5	114.5	12.9	114.3	129.1	8	100	100	-2 / 2	A
8		11/22/21	5	698A	SC	13.5	114.5	13.0	114.0	128.8	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
5	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Point. South of Lot 6. Block 1							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
6	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Point. South of Lot 4. Block 1							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
7	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Point. South of Lot 3. Block 1							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
8	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Point. South of Lot 1. Block 1							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 8: As requested by Ken with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the excavator, add moisture with the water truck, and apply compactive effort with the excavator.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000003
11/29/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
9		11/29/21	5	698A	SC	13.5	114.5	13.3	114.4	129.6	8	100	100	-2 / 2	A
10		11/29/21	5	698A	SC	13.5	114.5	12.2	114.5	128.5	8	100	100	-2 / 2	A
11		11/29/21	5	698A	SC	13.5	114.5	12.1	114.1	127.9	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
9	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Ave. East of Lot 7. Block 3						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
10	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Ave. East of Lot 8. Block 3						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
11	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Ave. South of Lot 9. Block 3						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 11: As requested by Ken with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the excavator, add moisture with the water truck, and apply compactive effort with the excavator.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000004
12/01/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
15		12/01/21	5	698A	SC	13.5	114.5	13.0	114.2	129.0	8	100	100	-2 / 2	A
16		12/01/21	5	698A	SC	13.5	114.5	12.4	114.0	128.1	8	100	100	-2 / 2	A
17		12/01/21	5	698A	SC	13.5	114.5	12.5	114.4	128.7	8	100	100	-2 / 2	A
18		12/01/21	5	698A	SC	13.5	114.5	12.4	114.1	128.3	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
15	Waterline Trench Backfill: Mainline. Filing 11. Alpine Phlox lane. West of Lot 14. Block 3							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
16	Waterline Trench Backfill: Mainline. Filing 11. Alpine Phlox lane. West of Lot 15. Block 3							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
17	Waterline Trench Backfill: Mainline. Filing 11. Alpine Phlox lane. West of Lot 16. Block 3							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
18	Waterline Trench Backfill: Mainline. Filing 11. Alpine Phlox lane. West of Lot 17. Block 3							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 18: As requested by Ken with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the excavator, add moisture with the water truck, and apply compactive effort with the excavator.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000005

11/30/2021

Report Date: 01/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
12		11/30/21	5	698A	SC	13.5	114.5	12.4	114.8	129.0	8	100	100	-2 / 2	A
13		11/30/21	5	698A	SC	13.5	114.5	12.7	114.1	128.6	8	100	100	-2 / 2	A
14		11/30/21	5	698A	SC	13.5	114.5	12.3	114.6	128.7	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
12	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Ave. South of Lot 10. Block 3							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
13	Waterline Trench Backfill: Mainline. Filing 11. Field Mint Ave. South of Lot 11. Block 3							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
14	Waterline Trench Backfill: Mainline. Filing 11. Alpine Phlox lane. West of Lot 12. Block 3							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 14: As requested by Sheryl with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the sheepsfoot roller.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000006

12/29/2021

Report Date: 01/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
19		12/29/21	16	698A	CL	15.5	111.0	16.6	110.8	129.2	8	100	95	0 / 4	A
20		12/29/21	16	698A	CL	15.5	111.0	16.4	110.9	129.1	8	100	95	0 / 4	A
21		12/29/21	16	698A	CL	15.5	111.0	15.9	112.4	130.3	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
19	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 12. Block 2.							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
20	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 12. Block 2.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
21	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 13. Block 2.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 21: As requested by Sheryl with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the loader.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000007

12/30/2021

Report Date: 01/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
22		12/30/21	16	698A	CL	15.5	111.0	17.0	112.3	131.4	8	101	95	0 / 4	A
23		12/30/21	16	698A	CL	15.5	111.0	16.5	111.1	129.4	8	100	95	0 / 4	A
24		12/30/21	16	698A	CL	15.5	111.0	16.9	110.8	129.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
22	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 14. Block 2.							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
23	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 15. Block 2.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
24	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 15. Block 2.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 24: As requested by Sheryl with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the loader										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000008

01/03/2022

Report Date: 01/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
25		01/03/22	16	698A	CL	15.5	111.0	16.3	111.4	129.6	8	100	95	0 / 4	A
26		01/03/22	16	698A	CL	15.5	111.0	16.1	111.7	129.7	8	101	95	0 / 4	A
27		01/03/22	16	698A	CL	15.5	111.0	17.1	112.2	131.4	8	101	95	0 / 4	A
28		01/03/22	16	698A	CL	15.5	111.0	16.7	111.8	130.5	8	101	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
25	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 16. Block 2.						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
26	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 16. Block 2.						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
27	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 17. Block 2.						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
28	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 18. Block 2.						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 28: As requested by Sheryl with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the loader.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000009
01/04/2022
Report Date: 01/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
29		01/04/22	16	698A	CL	15.5	111.0	15.9	111.4	129.1	8	100	95	0 / 4	A
30		01/04/22	16	698A	CL	15.5	111.0	16.9	110.8	129.5	8	100	95	0 / 4	A
31		01/04/22	16	698A	CL	15.5	111.0	17.5	112.2	131.8	8	101	95	0 / 4	A
32		01/04/22	16	698A	CL	15.5	111.0	16.9	111.7	130.6	8	101	95	0 / 4	A
33		01/04/22	16	698A	CL	15.5	111.0	16.5	110.9	129.2	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
29	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 19. Block 2.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
30	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 19. Block 2.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
31	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 20. Block 2.							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
32	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 21. Block 2.							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
33	Waterline Trench Backfill: Mainline. Black Sedge Cir. Filing 11. Adjacent to Lot 21. Block 2.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 33: As requested by Sheryl with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the loader.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000010
03/03/2022
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-320
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remarks
34		03/03/22	7	698A	CL	16.5	107.5	16.7	105.5	123.1	8	98	95	0 / 4	A
35		03/03/22	7	698A	CL	16.5	107.5	18.0	104.0	122.7	8	97	95	0 / 4	A
36		03/03/22	7	698A	CL	16.5	107.5	17.7	109.5	128.9	8	102	95	0 / 4	A
37		03/03/22	7	698A	CL	16.5	107.5	18.9	106.2	126.3	8	99	95	0 / 4	A
38		03/03/22	7	698A	CL	16.5	107.5	20.4	103.0	124.0	8	96	95	0 / 4	A
39		03/03/22	7	698A	CL	16.5	107.5	16.8	103.4	120.8	8	96	95	0 / 4	A
40		03/03/22	7	698A	CL	16.5	107.5	17.7	102.2	120.3	8	95	95	0 / 4	A
41		03/03/22	7	698A	CL	16.5	107.5	19.0	101.9	121.3	8	95	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
34	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 21.							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
35	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 20.							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
36	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 19.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
37	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 18.							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
38	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 17.							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
39	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 16.							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
40	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 15.							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
41	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 14.							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000010
03/03/2022
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-320
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remarks
42		03/03/22	7	698A	CL	16.5	107.5	20.3	102.8	123.7	8	96	95	0 / 4	A
43		03/03/22	7	698A	CL	16.5	107.5	18.7	104.7	124.3	8	97	95	0 / 4	A
44		03/03/22	7	698A	CL	16.5	107.5	17.1	103.2	120.8	8	96	95	0 / 4	A
45		03/03/22	7	698A	CL	16.5	107.5	20.1	101.6	122.0	8	95	95	0 / 4	A
46		03/03/22	7	698A	CL	16.5	107.5	18.1	106.2	125.4	8	99	95	0 / 4	A
47		03/03/22	7	698A	CL	16.5	107.5	18.5	103.5	122.6	8	96	95	0 / 4	A
48		03/03/22	7	698A	CL	16.5	107.5	19.5	101.6	121.4	8	95	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
42	Waterline Trench Backfill: Black Sedge Circle. Waterline service lot 13.							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
43	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 1, Block 4							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
44	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 2, Block 4							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
45	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 3, Block 4							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
46	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 4, Block 4							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
47	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 1, Block 5							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
48	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 2, Block 5							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 48: As requested by Sheryl with JBS, a site visit was made to observe and test waterline service trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the loader with a full bucket. Tests were conducted at an air temperature of 38° degrees fahrenheit.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000011
03/11/2022
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-320
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
49		03/11/22	3	ASTM D698B	SC	12.5	117.0	12.0	118.1	132.3	8	101	100	-2 / 2	A
50		03/11/22	3	ASTM D698B	SC	12.5	117.0	14.0	117.2	133.6	8	100	100	-2 / 2	A
51		03/11/22	3	ASTM D698B	SC	12.5	117.0	12.2	119.5	134.1	8	102	100	-2 / 2	A
52		03/11/22	3	ASTM D698B	SC	12.5	117.0	11.9	118.6	132.7	8	101	100	-2 / 2	A
53		03/11/22	3	ASTM D698B	SC	12.5	117.0	12.2	119.3	133.9	8	102	100	-2 / 2	A
54		03/11/22	3	ASTM D698B	SC	12.5	117.0	12.0	121.2	135.8	8	104	100	-2 / 2	A
55		03/11/22	3	ASTM D698B	SC	12.5	117.0	10.9	123.3	136.7	8	105	100	-2 / 2	A
56		03/11/22	3	ASTM D698B	SC	12.5	117.0	12.2	119.4	134.0	8	102	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
49	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 3, Block 5							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
50	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 4, Block 5							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
51	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 5, Block 5							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
52	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 11, Block 3							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
53	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 10, Block 3							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
54	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 9, Block 3							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
55	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 1, Block 6							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
56	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 2, Block 6							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000011
03/11/2022
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
57		03/11/22	3	ASTM D698B	SC	12.5	117.0	12.3	117.4	131.8	8	100	100	-2 / 2	A
58		03/11/22	3	ASTM D698B	SC	12.5	117.0	12.6	118.1	133.0	8	101	100	-2 / 2	A
59		03/11/22	3	ASTM D698B	SC	12.5	117.0	12.6	117.5	132.3	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
57	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 8, Block 3							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
58	Waterline Trench Backfill: Water service. Field Mint Ave. Lot 7, Block 3							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
59	Waterline Trench Backfill: Water service. North side of Field Mint Avenue, lot 11.							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 59: As requested by Sheryl with JBS, a site visit was made to observe and test waterline service trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the loader with full bucket. Tests were conducted at an air temperature of 38° degrees farenheit.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000012
03/12/2022
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
60		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.8	117.3	131.1	8	100	100	-2 / 2	A
61		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.9	116.8	130.7	8	100	100	-2 / 2	A
62		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.6	116.6	130.1	8	100	100	-2 / 2	A
63		03/12/22	3	ASTM D698B	SC	12.5	117.0	12.6	117.6	132.4	8	101	100	-2 / 2	A
64		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.5	118.0	131.6	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
60	Dry Utilities: Center of intersection of Field Mint Avenue and Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
61	Dry Utilities: 10' N of center of intersection of Field Mint Avenue and Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
62	Dry Utilities: S side of Mint Avenue. 100' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
63	Dry Utilities: S side of Mint Avenue. 150' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
64	Dry Utilities: N side of Mint Avenue. 100' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 64: As requested by Sheryl with JBS, a site visit was made to observe and test dry utilities. We observed the contractor place fill with the front end loader, add moisture with the water truck, and apply compactive effort with the excavator using the sheepsfoot attachment. Tests were conducted at an air temperature of 46° degrees fahrenheit.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000013
03/14/2022
Report Date: 03/30/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
65		03/14/22	3	ASTM D698B	SC	12.5	117.0	12.7	116.9	131.8	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
65	Dry Utilities: 10' S of center of intersection of Field Mint Ave and Alpine Phlox Ln.							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
					65: As requested by Sheryl with JBS, a site visit was made to observe and test dry utilities. We observed the contractor place fill with the front end loader, add moisture with the water truck, and apply compactive effort with the excavator using the sheepsfoot attachment. Tests were conducted at an air temperature of 41° degrees farenheit.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
04/01/2022
Report Date: 04/11/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-320
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remarks
60		04/01/22	8	698A	CL	18.0	109.0	18.4	103.3	122.3	8	95	95	0 / 4	A
61		04/01/22	8	698A	CL	18.0	109.0	18.4	105.2	124.6	8	97	95	0 / 4	A
62		04/01/22	8	698A	CL	18.0	109.0	18.2	115.1	136.1	8	106	95	0 / 4	A
63		04/01/22	8	698A	CL	18.0	109.0	18.0	115.3	136.1	8	106	95	0 / 4	A
64		04/01/22	8	698A	CL	18.0	109.0	18.1	115.3	136.2	8	106	95	0 / 4	A
65		04/01/22	8	698A	CL	18.0	109.0	18.5	114.9	136.2	8	105	95	0 / 4	A
66		04/01/22	8	698A	CL	18.0	109.0	18.0	105.6	124.6	8	97	95	0 / 4	A
67		04/01/22	8	698A	CL	18.0	109.0	19.3	105.7	126.1	8	97	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
60	Waterline Trench Backfill: Water service. Field Mint Ter. Block 3, lot 1						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
61	Waterline Trench Backfill: Water service. Field Mint Ter. Block 3, lot 1						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
62	Waterline Trench Backfill: Water service. Field Mint Ter. Block 3, lot 2						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
63	Waterline Trench Backfill: Water service. Field Mint Ter. Block 3, lot 2						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
64	Waterline Trench Backfill: Water service. Field Mint Ter. Block 1, lot 4						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
65	Waterline Trench Backfill: Water service. Field Mint Ter. Block 1, lot 4						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
66	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 12						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
67	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 12						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
04/01/2022
Report Date: 04/11/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

DN50626.004F-320
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remarks
68		04/01/22	8	698A	CL	18.0	109.0	18.8	103.2	122.6	8	95	95	0 / 4	A
69		04/01/22	8	698A	CL	18.0	109.0	18.9	103.5	123.1	8	95	95	0 / 4	A
70		04/01/22	8	698A	CL	18.0	109.0	19.7	103.4	123.8	8	95	95	0 / 4	A
71		04/01/22	8	698A	CL	18.0	109.0	20.4	103.1	124.1	8	95	95	0 / 4	A
72		04/01/22	8	698A	CL	18.0	109.0	18.2	106.9	126.4	8	98	95	0 / 4	A
73		04/01/22	8	698A	CL	18.0	109.0	18.8	106.7	126.8	8	98	95	0 / 4	A
74		04/01/22	8	698A	CL	18.0	109.0	20.7	105.6	127.5	8	97	95	0 / 4	A
75		04/01/22	8	698A	CL	18.0	109.0	19.6	105.9	126.7	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
68	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 13							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
69	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 13							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
70	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 14							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
71	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 14							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
72	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 15							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
73	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 15							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
74	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 16							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
75	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 16							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
04/01/2022
Report Date: 04/11/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
76		04/01/22	8	698A	CL	18.0	109.0	19.6	106.5	127.4	8	98	95	0 / 4	A
77		04/01/22	8	698A	CL	18.0	109.0	18.2	107.6	127.2	8	99	95	0 / 4	A
78		04/01/22	8	698A	CL	18.0	109.0	21.2	105.2	127.5	8	97	95	0 / 4	A
79		04/01/22	8	698A	CL	18.0	109.0	19.8	105.8	126.7	8	97	95	0 / 4	A
80		04/01/22	8	698A	CL	18.0	109.0	18.5	107.6	127.5	8	99	95	0 / 4	A
81		04/01/22	8	698A	CL	18.0	109.0	19.9	105.3	126.3	8	97	95	0 / 4	A
82		04/01/22	8	698A	CL	18.0	109.0	21.3	104.8	127.1	8	96	95	0 / 4	A
83		04/01/22	8	698A	CL	18.0	109.0	19.9	105.2	126.1	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
76	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 17							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
77	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 3, lot 17							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
78	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 2, lot 6							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
79	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 2, lot 6							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
80	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 2, lot 7							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
81	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 2, lot 7							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
82	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 2, lot 5							2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
83	Waterline Trench Backfill: Water service. Alpine Phlox Ln. Block 2, lot 5							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 83: As requested by Sheryl with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the loaded loader. All tests were conducted at an air temperature of 41° degrees fahrenheit.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015

04/20/2022

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
84		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.8	108.1	128.4	8	97	95	0 / 4	A
85		04/20/22	15	ASTM D698A	CL	16.5	111.5	19.3	107.2	127.9	8	96	95	0 / 4	A
86		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.8	108.5	128.9	8	97	95	0 / 4	A
87		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.6	109.1	129.4	8	98	95	0 / 4	A
88		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.7	111.6	131.4	8	100	95	0 / 4	A
89		04/20/22	15	ASTM D698A	CL	16.5	111.5	16.6	111.8	130.4	8	100	95	0 / 4	A
90		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.2	113.1	132.5	8	101	95	0 / 4	A
91		04/20/22	15	ASTM D698A	CL	16.5	111.5	19.4	108.4	129.4	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
84	Waterline Trench Backfill: Water service. Block 1. Lot 1							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
85	Waterline Trench Backfill: Water service. Block 1. Lot 1							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
86	Waterline Trench Backfill: Water service. Block 1. Lot 2							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
87	Waterline Trench Backfill: Water service. Block 1. Lot 2							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
88	Waterline Trench Backfill: Water service. Block 1. Lot 2							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
89	Waterline Trench Backfill: Water service. Block 1. Lot 3							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
90	Waterline Trench Backfill: Water service. Block 1. Lot 3							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
91	Waterline Trench Backfill: Water service. Block 1. Lot 4							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015
Report Date: 04/20/2022
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-320
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
92		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.5	112.3	133.1	8	101	95	0 / 4	A
93		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.6	113.2	134.2	8	102	95	0 / 4	A
94		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.4	111.4	130.8	8	100	95	0 / 4	A
95		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.5	112.2	131.8	8	101	95	0 / 4	A
96		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.9	110.6	130.4	8	99	95	0 / 4	A
97		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.0	110.5	130.4	8	99	95	0 / 4	A
98		04/20/22	15	ASTM D698A	CL	16.5	111.5	19.2	108.9	129.8	8	98	95	0 / 4	A
99		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.5	110.7	130.1	8	99	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
92	Waterline Trench Backfill: Water service. Block 1. Lot 4							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
93	Waterline Trench Backfill: Water service. Block 1. Lot 5							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
94	Waterline Trench Backfill: Water service. Block 1. Lot 5							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
95	Waterline Trench Backfill: Water service. Block 1. Lot 6							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
96	Waterline Trench Backfill: Water service. Block 1. Lot 6							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
97	Waterline Trench Backfill: Water service. Block 1. Lot 7							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
98	Waterline Trench Backfill: Water service. Block 1. Lot 7							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
99	Waterline Trench Backfill: Water service. Block 1. Lot 8							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015
04/20/2022
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
100		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.0	109.7	128.4	8	98	95	0 / 4	A
101		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.8	108.9	129.4	8	98	95	0 / 4	A
102		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.6	110.0	129.4	8	99	95	0 / 4	A
103		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.9	110.2	131.0	8	99	95	0 / 4	A
104		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.2	112.6	132.0	8	101	95	0 / 4	A
105		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.7	109.9	129.3	8	99	95	0 / 4	A
106		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.0	108.8	128.4	8	98	95	0 / 4	A
107		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.0	111.8	130.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
100	Waterline Trench Backfill: Water service. Block 1. Lot 8							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
101	Waterline Trench Backfill: Water service. Block 1. Lot 9							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
102	Waterline Trench Backfill: Water service. Block 1. Lot 9							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
103	Waterline Trench Backfill: Water service. Block 1. Lot 10							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
104	Waterline Trench Backfill: Water service. Block 1. Lot 10							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
105	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 1							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
106	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 1							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
107	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 2							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015

04/20/2022

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
108		04/20/22	15	ASTM D698A	CL	16.5	111.5	16.9	108.7	127.1	8	97	95	0 / 4	A
109		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.1	113.7	133.1	8	102	95	0 / 4	A
110		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.5	110.0	130.4	8	99	95	0 / 4	A
111		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.9	110.9	130.7	8	99	95	0 / 4	A
112		04/20/22	15	ASTM D698A	CL	16.5	111.5	20.2	106.8	128.4	8	96	95	0 / 4	A
113		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.4	110.6	131.0	8	99	95	0 / 4	A
114		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.1	110.5	129.4	8	99	95	0 / 4	A
115		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.6	109.5	129.9	8	98	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
108	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 2							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
109	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 3							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
110	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 3							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
111	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 4							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
112	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 4							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
113	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 5							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
114	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 5							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
115	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 6							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015
04/20/2022
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
116		04/20/22	15	ASTM D698A	CL	16.5	111.5	20.2	107.2	128.9	8	96	95	0 / 4	A
117		04/20/22	15	ASTM D698A	CL	16.5	111.5	19.1	109.8	130.8	8	98	95	0 / 4	A
118		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.5	111.8	131.4	8	100	95	0 / 4	A
119		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.3	110.3	129.4	8	99	95	0 / 4	A
120		04/20/22	15	ASTM D698A	CL	16.5	111.5	17.3	112.4	131.8	8	101	95	0 / 4	A
121		04/20/22	15	ASTM D698A	CL	16.5	111.5	19.9	107.7	129.1	8	97	95	0 / 4	A
122		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.5	110.3	130.7	8	99	95	0 / 4	A
123		04/20/22	15	ASTM D698A	CL	16.5	111.5	19.8	107.9	129.3	8	97	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
116	Waterline Trench Backfill: Field Mint PT. Water service. Block 3. Lot 6							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
117	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 12							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
118	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 12							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
119	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 13							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
120	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 13							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
121	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 14							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
122	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 14							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
123	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 15							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015

04/20/2022

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
124		04/20/22	15	ASTM D698A	CL	16.5	111.5	19.0	110.4	131.4	8	99	95	0 / 4	A
125		04/20/22	15	ASTM D698A	CL	16.5	111.5	16.9	109.8	128.4	8	98	95	0 / 4	A
126		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.2	110.4	130.5	8	99	95	0 / 4	A
127		04/20/22	15	ASTM D698A	CL	16.5	111.5	20.3	107.9	129.8	8	97	95	0 / 4	A
128		04/20/22	15	ASTM D698A	CL	16.5	111.5	18.9	110.2	131.0	8	99	95	0 / 4	A
129		04/20/22	10	ASTM D698B	CL	18.0	107.0	21.4	107.9	131.0	8	101	95	0 / 4	A
130		04/20/22	10	ASTM D698B	CL	18.0	107.0	18.4	111.9	132.5	8	105	95	0 / 4	A
131		04/20/22	10	ASTM D698B	CL	18.0	107.0	19.3	109.5	130.6	8	102	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
124	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 15							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
125	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 16							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
126	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 16							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
127	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 17							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
128	Waterline Trench Backfill: Alpine Phlox. Water service. Block 3. Lot 17							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
129	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 1							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
130	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 1							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
131	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 1							2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015

04/20/2022

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
132		04/20/22	10	ASTM D698B	CL	18.0	107.0	19.0	109.9	130.8	8	103	95	0 / 4	A
133		04/20/22	10	ASTM D698B	CL	18.0	107.0	19.1	109.3	130.2	8	102	95	0 / 4	A
134		04/20/22	10	ASTM D698B	CL	18.0	107.0	18.0	108.0	127.4	8	101	95	0 / 4	A
135		04/20/22	10	ASTM D698B	CL	18.0	107.0	19.4	106.5	127.2	8	100	95	0 / 4	A
136		04/20/22	10	ASTM D698B	CL	18.0	107.0	19.8	107.4	128.7	8	100	95	0 / 4	A
137		04/20/22	10	ASTM D698B	CL	18.0	107.0	18.7	109.0	129.4	8	102	95	0 / 4	A
138		04/20/22	10	ASTM D698B	CL	18.0	107.0	18.8	107.7	127.9	8	101	95	0 / 4	A
139		04/20/22	10	ASTM D698B	CL	18.0	107.0	21.2	105.1	127.4	8	98	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
132	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 2						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
133	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 3						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
134	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 3						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
135	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 4						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
136	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 4						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
137	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 8						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
138	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 8						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
139	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 9						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015

04/20/2022

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
140		04/20/22	10	ASTM D698B	CL	18.0	107.0	19.9	108.4	130.0	8	101	95	0 / 4	A
141		04/20/22	10	ASTM D698B	CL	18.0	107.0	18.6	108.0	128.1	8	101	95	0 / 4	A
142		04/20/22	10	ASTM D698B	CL	18.0	107.0	20.2	107.3	129.0	8	100	95	0 / 4	A
143		04/20/22	10	ASTM D698B	CL	18.0	107.0	18.6	110.9	131.5	8	104	95	0 / 4	A
144		04/20/22	10	ASTM D698B	CL	18.0	107.0	19.8	107.8	129.1	8	101	95	0 / 4	A
145		04/20/22	10	ASTM D698B	CL	18.0	107.0	18.8	109.8	130.4	8	103	95	0 / 4	A
146		04/20/22	10	ASTM D698B	CL	18.0	107.0	18.5	110.3	130.7	8	103	95	0 / 4	A
147		04/20/22	16	698A	CL	15.5	111.0	18.6	108.3	128.4	8	98	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
140	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 9	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
141	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 10	2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
142	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 10	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
143	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 11	2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
144	Waterline Trench Backfill: Alpine Phlox. Water service. Block 2. Lot 11	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
145	Waterline Trench Backfill: Alpine Phlox. Main line. Block 2. 18+50	3.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
146	Waterline Trench Backfill: Alpine Phlox. Main line. Block 2. 19+50	2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
147	Waterline Trench Backfill: Alpine Phlox. Main line. Block 2. 20+50	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015

04/20/2022

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
148		04/20/22	16	698A	CL	15.5	111.0	18.7	109.0	129.4	8	98	95	0 / 4	A
149		04/20/22	16	698A	CL	15.5	111.0	16.6	111.8	130.4	8	101	95	0 / 4	A
150		04/20/22	16	698A	CL	15.5	111.0	15.8	110.4	127.8	8	99	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
148	Waterline Trench Backfill: Alpine Phlox. Main line. 21+50	3.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
149	Waterline Trench Backfill: Alpine Phlox. Main line. 22+50	2.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
150	Waterline Trench Backfill: Alpine Phlox. Main line. 24+00	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

150: As requested by Sheryl with JBS, a site visit was made to observe and test waterline trench backfill. The subgrade was prepared prior to our arrival.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000016

06/24/2022

Report Date: 08/15/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
151		06/24/22	4	ASTM D698B	SC	12.0	118.5	8.9	114.4	124.6	8	97	100	-2 / 2	B
152		06/24/22	4	ASTM D698B	SC	12.0	118.5	9.5	110.4	120.9	8	93	100	-2 / 2	B

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
151	Waterline Trench Backfill: Service, Lot 5, Block 5, Field Mint Ave	1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022	Harder, Matthew
152	Waterline Trench Backfill: Service, Lot 4, Block 5, Field Mint Ave	1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022	Harder, Matthew

Remarks	Comments
B: Test results do not comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 152: As requested by JBS, a site visit was made to observe and test waterline trench backfill. The backfill was prepared prior to our arrival. The contractor was informed of the failing test results.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000017
06/27/2022
Report Date: 08/15/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
153		06/27/22	4	ASTM D698B	SC	12.0	118.5	11.0	119.1	132.2	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
153	Cancelled on Site: Beebalm ave							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 153: As requested by JBS, a site visit was made to observe and test waterline trench backfill. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000018
06/28/2022
Report Date: 08/15/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
154	151	06/28/22	4	ASTM D698B	SC	12.0	118.5	11.0	118.4	131.4	8	100	100	-2 / 2	A
155	152	06/28/22	4	ASTM D698B	SC	12.0	118.5	10.4	120.5	133.0	8	102	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
154	Waterline Trench Backfill: Service, Lot 5, Block 5, Field Mint Ave							1.0	BG		XPLOER / 3500 / 1989 / 05/24/2022			Harder, Matthew	
155	Waterline Trench Backfill: Service, Lot 4, Block 5, Field Mint Ave							1.0	BG		XPLOER / 3500 / 1989 / 05/24/2022			Harder, Matthew	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
					155: As requested by JBS, a site visit was made to observe and test waterline trench backfill. The backfill was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000019

06/29/2022

Report Date: 08/15/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-320

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
156		06/29/22	3	ASTM D698B	SC	12.5	117.0	13.9	118.7	135.2	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
156	Cancelled on Site: Waterline trench backfill						1.0	BG		TROXLER / 3430 / 33971 / 03/31/2022			Harder, Matthew		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 156: As requested by Javier with JBS, a site visit was made to observe and test waterline trench backfill. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000020

07/07/2022

Report Date: 08/15/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-320

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
157		07/07/22	1	ASTM D698C	SC	10.5	122.0	10.5	121.5	134.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
157	Cancelled on Site: Waterline trench backfill						2.0	BG		XPLOER / 3500 / 1987 / 06/30/2022			Garcia, Eliud		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 157: As Requested by Javier with JBS, site visits were made to observe and test waterline trench backfill. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000021

08/26/2022

Report Date: 09/12/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-320

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
158		08/26/22	3	ASTM D698B	SC	12.5	117.0	13.1	117.4	132.8	8	100	100	-2 / 2	A
159		08/26/22	3	ASTM D698B	SC	12.5	117.0	11.6	116.8	130.4	8	100	100	-2 / 2	A
160		08/26/22	3	ASTM D698B	SC	12.5	117.0	11.8	111.6	124.8	8	95	95	-2 / 2	A
161		08/26/22	3	ASTM D698B	SC	12.5	117.0	11.7	111.5	124.6	8	95	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
158	Waterline Trench Backfill: Water Sampling Valve Box. STA: 1+20						3.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
159	Waterline Trench Backfill: Water Sampling Valve Box. STA: 1+20						2.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
160	Waterline Trench Backfill: Water Sampling Valve Box. STA: 1+20						4.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
161	Waterline Trench Backfill: Water Sampling Valve Box. STA: 1+20						1.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 161: As requested by Javier with D.R. Horton, site visits were made to observe and test waterline trench backfill. We observed the contractor place fill with the loader and apply compactive effort with the excavator and vibratory drum roller.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000022
09/01/2022
Report Date: 09/12/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
162		09/01/22	4	ASTM D698B	SC	12.0	118.5	12.7	119.9	135.1	8	101	95	-2 / 2	A
163		09/01/22	2	ASTM D698C	SC	10.5	121.0	8.8	114.9	125.0	8	95	95	-2 / 2	A
164		09/01/22	2	ASTM D698C	SC	10.5	121.0	11.3	117.3	130.6	8	97	95	-2 / 2	A
165		09/01/22	3	ASTM D698B	SC	12.5	117.0	13.4	117.2	132.9	8	100	95	-2 / 2	A
166		09/01/22	3	ASTM D698B	SC	12.5	117.0	10.6	114.8	127.0	8	98	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
162	Waterline Trench Backfill: Field Mint Point. Block 1, lot 2. STA: 11+30						6.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
163	Waterline Trench Backfill: Field Mint Point. Block 1, lot 2. STA: 11+30						5.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
164	Waterline Trench Backfill: Field Mint Point. Block 1, lot 5. STA: 12+70						6.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
165	Waterline Trench Backfill: Field Mint Point. Block 1, lot 5. STA: 12+70						5.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
166	Waterline Trench Backfill: Field Mint Point. Block 1, lot 9. STA: 15+20						6.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 166: As requested by Bob with JBS, site visits were made to observe and test waterline trench backfill. We observed the contractor place fill and apply compactive effort with the excavator.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000023
09/07/2022
Report Date: 09/28/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
167		09/07/22	5	698A	SC	13.5	114.5	11.8	114.5	128.0	8	100	100	-2 / 2	E
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
167	Observation Only: Waterline trench backfill							BG		XPLOER / 3500 / 1988 / 08/11/2022			Rees, Andrew		
Remarks					Comments										
E: Test number for data entry purposes only.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 167: As requested by Javier with JBS, a site visit was made to observe and test waterline trench backfill. Not enough backfill was placed, no testing was performed.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000024

09/08/2022

Report Date: 09/28/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
168		09/08/22	4	ASTM D698B	SC	12.0	118.5	9.8	103.5	113.6	8	87	100	-2 / 2	B
169		09/08/22	4	ASTM D698B	SC	12.0	118.5	9.2	114.5	125.0	8	97	100	-2 / 2	B
170		09/08/22	4	ASTM D698B	SC	12.0	118.5	11.7	116.0	129.6	8	98	100	-2 / 2	B
171		09/08/22	5	698A	SC	13.5	114.5	12.4	93.3	104.9	8	81	100	-2 / 2	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
168	Waterline Trench Backfill: Field Mint Point, lot 7, block 1							3.0	BG		XPLOER / 3500 / 1988 / 08/11/2022			Rees, Andrew	
169	Waterline Trench Backfill: Field Mint Point, lot 8, block 1							3.0	BG		XPLOER / 3500 / 1988 / 08/11/2022			Rees, Andrew	
170	Waterline Trench Backfill: Field Mint Point, lot 9, block 1							3.0	BG		XPLOER / 3500 / 1988 / 08/11/2022			Rees, Andrew	
171	Waterline Trench Backfill: Field Mint Point, lot 7, block 1							3.0	BG		XPLOER / 3500 / 1988 / 08/11/2022			Rees, Andrew	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 171: As requested by Javier with JBS, a site visit was made to observe and test waterline trench backfill. The backfill was prepared prior to our arrival. We recommended the contractor add additional moisture to the fill and reapply compactive effort. The contractor did not follow our recommendation. The contractor was notified of the failing test results.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
09/09/2022
Report Date: 09/28/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
172		09/09/22	5	698A	SC	13.5	114.5	11.8	112.4	125.7	8	98	100	-2 / 2	B
173		09/09/22	5	698A	SC	13.5	114.5	10.6	101.5	112.3	8	89	100	-2 / 2	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
172	Waterline Trench Backfill: Lot 9, block 1							3.0	BG		XPLOER / 3500 / 1988 / 08/11/2022			Rees, Andrew	
173	Waterline Trench Backfill: Lot 8, block 1							3.0	BG		XPLOER / 3500 / 1988 / 08/11/2022			Rees, Andrew	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 173: As requested by Javier with JBS, a site visit was made to observe and test waterline trench backfill. The backfill was prepared prior to our arrival. We recommended the contractor add additional moisture and reapply compactive effort to the fill. The contractor was informed of the failing test results.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000030
09/23/2022
Report Date: 10/03/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
226		09/23/22	5	698A	SC	13.5	114.5	11.9	114.7	128.4	8	100	100	-2 / 2	A
227		09/23/22	5	698A	SC	13.5	114.5	12.3	114.0	128.0	8	100	100	-2 / 2	A
228		09/23/22	5	698A	SC	13.5	114.5	11.7	114.3	127.7	8	100	100	-2 / 2	A
229		09/23/22	5	698A	SC	13.5	114.5	12.4	114.4	128.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
226	Waterline Trench Backfill: Alpine Phlox In. Block 3, Lot 6							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
227	Waterline Trench Backfill: Alpine Phlox In. Block 3, Lot 6							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
228	Waterline Trench Backfill: Alpine Phlox In. Block 1, Lot 1							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
229	Waterline Trench Backfill: Alpine Phlox In. Block 1, Lot 1							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 229: As requested by Javier with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place the fill with the excavator, add moisture with the water hose attached to the hydrant, and apply compactive effort by the excavator with the sheepsfoot attachment.										

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000031
09/27/2022
Report Date: 10/03/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
203		09/27/22	5	698A	SC	13.5	114.5	13.8	114.3	130.1	8	100	100	-2 / 2	A
204		09/27/22	5	698A	SC	13.5	114.5	13.6	114.6	130.2	8	100	100	-2 / 2	A
205		09/27/22	5	698A	SC	13.5	114.5	14.5	114.5	131.1	8	100	100	-2 / 2	A
206		09/27/22	5	698A	SC	13.5	114.5	11.9	115.4	129.1	8	101	100	-2 / 2	A
207		09/27/22	5	698A	SC	13.5	114.5	12.8	114.1	128.7	8	100	100	-2 / 2	A
208		09/27/22	5	698A	SC	13.5	114.5	13.8	114.1	129.9	8	100	100	-2 / 2	A
209		09/27/22	5	698A	SC	13.5	114.5	12.6	114.7	129.2	8	100	100	-2 / 2	A
210		09/27/22	5	698A	SC	13.5	114.5	14.1	116.3	132.7	8	102	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
203	Waterline Trench Backfill: Water Service Lot 12, Block 2 on Black Sledge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
204	Waterline Trench Backfill: Water Service Lot 14, Block 2 on Black Sledge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
205	Waterline Trench Backfill: Water Service Lot 16, Block 2 on Black Sledge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
206	Waterline Trench Backfill: Water Service Lot 17, Block 2 on Black Sedge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
207	Waterline Trench Backfill: Water Service Lot 18, Block 2 on Black Sedge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
208	Waterline Trench Backfill: Water Service Lot 13, Block 2 on Black Sedge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
209	Waterline Trench Backfill: Water Service Lot 15, Block 2 on Black Sedge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
210	Waterline Trench Backfill: Water Service Lot 14, Block 2 on Black Sedge Circle							1.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000031
09/27/2022
Report Date: 10/03/2022
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-320
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
211		09/27/22	5	698A	SC	13.5	114.5	14.1	116.3	132.7	8	102	100	-2 / 2	A
212		09/27/22	5	698A	SC	13.5	114.5	13.9	115.3	131.3	8	101	100	-2 / 2	A
213		09/27/22	5	698A	SC	13.5	114.5	12.9	116.5	131.5	8	102	100	-2 / 2	A
214		09/27/22	5	698A	SC	13.5	114.5	12.3	114.2	128.3	8	100	100	-2 / 2	A
215		09/27/22	5	698A	SC	13.5	114.5	11.7	115.2	128.7	8	101	100	-2 / 2	A
216		09/27/22	5	698A	SC	13.5	114.5	11.5	114.3	127.4	8	100	100	-2 / 2	A
217		09/27/22	5	698A	SC	13.5	114.5	11.5	116.1	129.4	8	101	100	-2 / 2	A
218		09/27/22	5	698A	SC	13.5	114.5	11.5	118.4	132.0	8	103	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
211	Waterline Trench Backfill: Water Service Lot 12, Block 2 on Black Sedge Circle							1.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
212	Waterline Trench Backfill: Water Service Lot 13, Block 2 on Black Sedge Circle							1.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
213	Waterline Trench Backfill: Water Service Lot 16, Block 2 on Black Sedge Circle							1.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
214	Waterline Trench Backfill: Water Service Lot 16, Block 2 on Black Sedge Circle							1.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
215	Waterline Trench Backfill: Water Service Lot 17, Block 2 on Black Sedge Circle							1.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
216	Waterline Trench Backfill: Water Service Lot 20, Block 2 on Black Sedge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
217	Waterline Trench Backfill: Water Service Lot 19, Block 2 on Black Sedge Circle							2.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
218	Waterline Trench Backfill: Water Service Lot 19, Block 2 on Black Sedge Circle							1.0	BG	XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000031
09/27/2022
Report Date: 10/03/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
219		09/27/22	5	698A	SC	13.5	114.5	13.2	117.2	132.7	8	102	100	-2 / 2	A
220		09/27/22	5	698A	SC	13.5	114.5	13.1	114.1	129.1	8	100	100	-2 / 2	A
221		09/27/22	5	698A	SC	13.5	114.5	13.2	116.9	132.3	8	102	100	-2 / 2	A
222		09/27/22	3	ASTM D698B	SC	12.5	117.0	10.9	117.0	129.8	8	100	100	-2 / 2	A
223		09/27/22	3	ASTM D698B	SC	12.5	117.0	11.0	118.6	131.6	8	101	100	-2 / 2	A
224		09/27/22	3	ASTM D698B	SC	12.5	117.0	10.5	120.2	132.8	8	103	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
219	Waterline Trench Backfill: Water Service Lot 20, Block 2 on Black Sedge Circle							1.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton	
220	Waterline Trench Backfill: Water Service Lot 21, Block 2 on Black Sedge Circle							2.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton	
221	Waterline Trench Backfill: Water Service Lot 18, Block 2 on Black Sedge Circle							1.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton	
222	Waterline Trench Backfill: STA 11+50 on Alpine Phlox Lane, Service Repair Trench							3.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton	
223	Waterline Trench Backfill: STA 11+50 on Alpine Phlox Lane, Service Repair Trench							2.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton	
224	Waterline Trench Backfill: STA 11+50 on Alpine Phlox Lane, Service Repair Trench							1.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 224: As requested by Javier with JVS Pipeline, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water hose attached to the hydrant, and apply compactive effort by the excavator with the sheepsfoot wheel.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000032

09/28/2022

Report Date: 10/03/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-320

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
225		09/28/22	5	698A	SC	13.5	114.5	12.4	117.4	131.9	8	103	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
225	Waterline Trench Backfill: Water Service Lot 21, Block 2 on Black Sedge Circle							1.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Okamura, Quinton	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 225: As requested by Javier at JVS Pipeline, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water hose attached to the hydrant, and apply compactive effort by the excavator with the sheepsfoot wheel.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000033
09/14/2023
Report Date: 05/18/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
174		09/14/22	5	698A	SC	13.5	114.5	12.2	115.0	129.0	8	100	100	-2 / 2	A
175		09/14/22	5	698A	SC	13.5	114.5	12.0	114.3	128.0	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
174	Waterline Trench Backfill: Alpine Phlox Ln. Lot 4							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
175	Waterline Trench Backfill: Alpine Phlox Ln. Lot 4							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 175: As requested by Javier with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, process fill with the excavator, and apply compactive effort by the excavator with the sheepsfoot attachment.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000034
09/15/2022
Report Date: 05/18/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-320
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
176		09/15/22	5	698A	SC	13.5	114.5	12.3	114.2	128.3	8	100	100	-2 / 2	A
177		09/15/22	5	698A	SC	13.5	114.5	12.5	114.8	129.1	8	100	100	-2 / 2	A
178		09/15/22	5	698A	SC	13.5	114.5	13.4	114.5	129.9	8	100	100	-2 / 2	A
179		09/15/22	5	698A	SC	13.5	114.5	12.9	114.3	129.0	8	100	100	-2 / 2	A
180		09/15/22	5	698A	SC	13.5	114.5	12.1	114.2	128.0	8	100	100	-2 / 2	A
181		09/15/22	5	698A	SC	13.5	114.5	12.6	114.9	129.4	8	100	100	-2 / 2	A
182		09/15/22	5	698A	SC	13.5	114.5	13.2	114.8	130.0	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
176	Waterline Trench Backfill: Alpine Phlox Ln. Lot 11							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
177	Waterline Trench Backfill: Alpine Phlox Ln. Lot 10							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
178	Waterline Trench Backfill: Alpine Phlox Ln. Lot 9							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
179	Waterline Trench Backfill: Alpine Phlox Ln. Lot 8							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
180	Waterline Trench Backfill: Alpine Phlox Ln. Lot 7							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
181	Waterline Trench Backfill: Alpine Phlox Ln. Lot 6							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
182	Waterline Trench Backfill: Alpine Phlox Ln. Lot 6							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000001
10/06/2021
Report Date: 10/29/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
1		10/06/21	16	698A	CL	15.5	111.0	16.4	110.7	128.8	8	100	95	0 / 4	A
2		10/06/21	16	698A	CL	15.5	111.0	16.1	110.7	128.5	8	100	95	0 / 4	A
3		10/06/21	16	698A	CL	15.5	111.0	17.0	110.6	129.4	8	100	95	0 / 4	A
4		10/06/21	16	698A	CL	15.5	111.0	17.1	111.4	130.4	8	100	95	0 / 4	A
5		10/06/21	16	698A	CL	15.5	111.0	16.6	110.6	129.0	8	100	95	0 / 4	A
6		10/06/21	16	698A	CL	15.5	111.0	16.1	110.9	128.7	8	100	95	0 / 4	A
7		10/06/21	16	698A	CL	15.5	111.0	16.7	111.7	130.3	8	101	95	0 / 4	A
8		10/06/21	16	698A	CL	15.5	111.0	16.2	111.3	129.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
1	Storm Sewer Trench Backfill: Field Mint point. Station 16+00							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
2	Storm Sewer Trench Backfill: Field Mint point. Station 15+75							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
3	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 15+50							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
4	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 15+25							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
5	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 15+00							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
6	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 14+75							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
7	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 14+50							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
8	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 14+25							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 8: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000002

10/15/2021

Report Date: 10/29/2021

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
9		10/15/21	16	698A	CL	15.5	111.0	16.5	110.6	128.9	8	100	95	0 / 4	A
10		10/15/21	16	698A	CL	15.5	111.0	17.2	111.0	130.1	8	100	95	0 / 4	A
11		10/15/21	16	698A	CL	15.5	111.0	17.6	111.4	131.0	8	100	95	0 / 4	A
12		10/15/21	16	698A	CL	15.5	111.0	16.4	110.7	128.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
9	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 13+50							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
10	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 13+25							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
11	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 13+00							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
12	Storm Sewer Trench Backfill: Field Mint point. Filing 11. Station 12+00							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 12: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. Our office will be contacted when additional testing is needed.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000003
10/22/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
13		10/22/21	16	698A	CL	15.5	111.0	17.0	111.3	130.2	8	100	95	0 / 4	A
14		10/22/21	16	698A	CL	15.5	111.0	16.7	111.1	129.7	8	100	95	0 / 4	A
15		10/22/21	16	698A	CL	15.5	111.0	16.3	112.6	130.9	8	101	95	0 / 4	A
16		10/22/21	16	698A	CL	15.5	111.0	17.7	111.4	131.1	8	100	95	0 / 4	A
17		10/22/21	16	698A	CL	15.5	111.0	16.8	111.9	130.7	8	101	95	0 / 4	A
18		10/22/21	16	698A	CL	15.5	111.0	16.1	111.4	129.3	8	100	95	0 / 4	A
19		10/22/21	16	698A	CL	15.5	111.0	16.5	111.2	129.5	8	100	95	0 / 4	A
20		10/22/21	16	698A	CL	15.5	111.0	15.5	111.4	128.7	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
13	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 55. STA: 21+10.38							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
14	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 55. STA: 21+10.38							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
15	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 55. STA: 21+10.38							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
16	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 55. STA: 21+10.38							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
17	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 55. STA: 21+10.38							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
18	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 55. STA: 21+10.38							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
19	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 56. STA: 9+91.95							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
20	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 56. STA: 9+91.95							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000003
10/22/2021
Report Date: 11/24/2021
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
21		10/22/21	16	698A	CL	15.5	111.0	16.2	111.2	129.2	8	100	95	0 / 4	A
22		10/22/21	16	698A	CL	15.5	111.0	15.7	110.7	128.1	8	100	95	0 / 4	A
23		10/22/21	16	698A	CL	15.5	111.0	15.7	112.4	130.1	8	101	95	0 / 4	A
24		10/22/21	16	698A	CL	15.5	111.0	16.5	111.0	129.3	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
21	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 56. STA: 9+91.95							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
22	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 56. STA: 9+91.95							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
23	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 56. STA: 9+91.95							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
24	Storm Manhole Backfill: Field Mint Point. Filing 11. SDMH 56. STA: 9+91.95							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 24: As requested by Sheryl with JBS, a site visit was made to observe and test storm sewer trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the sheepsfoot..										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000004
10/05/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
43		10/05/21	16	698A	CL	15.5	111.0	16.9	111.8	130.7	8	101	95	0 / 4	A
44		10/05/21	16	698A	CL	15.5	111.0	16.0	111.9	129.8	8	101	95	0 / 4	A
45		10/05/21	16	698A	CL	15.5	111.0	15.7	110.7	128.1	8	100	95	0 / 4	A
46		10/05/21	16	698A	CL	15.5	111.0	16.7	111.9	130.6	8	101	95	0 / 4	A
47		10/05/21	16	698A	CL	15.5	111.0	16.8	112.4	131.3	8	101	95	0 / 4	A
48		10/05/21	16	698A	CL	15.5	111.0	16.2	111.5	129.6	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
43	Storm Sewer Trench Backfill: Beebalm Ave. Filing 11. STA - 31+00							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
44	Storm Sewer Trench Backfill: Beebalm Ave. Filing 11. STA - 31+50							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
45	Storm Manhole Backfill: Beebalm Ave. Filing 11. SDMH 52. STA - 16+30.15							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
46	Storm Manhole Backfill: Beebalm Ave. Filing 11. SDMH 52. STA - 16+30.15							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
47	Storm Manhole Backfill: Beebalm Ave. Filing 11. SDMH 53. STA - 15+91.98							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
48	Storm Manhole Backfill: Beebalm Ave. Filing 11. SDMH 53. STA - 15+91.98							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 48: As requested by Sheryl with JBS, a site visit was made to observe and test storm sewer trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000005
10/18/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
49		10/18/21	16	698A	CL	15.5	111.0	16.8	112.3	131.2	8	101	95	0 / 4	A
50		10/18/21	16	698A	CL	15.5	111.0	17.6	111.9	131.6	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
49	Storm Manhole Backfill: Field Mint Pt. Filing 11. SDMH 54. STA - 14+46.49							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
50	Storm Manhole Backfill: Field Mint Pt. Filing 11. SDMH 54. STA - 14+46.49							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 50: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000006
10/19/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
51		10/19/21	16	698A	CL	15.5	111.0	16.4	111.2	129.4	8	100	95	0 / 4	A
52		10/19/21	16	698A	CL	15.5	111.0	16.0	110.9	128.6	8	100	95	0 / 4	A
53		10/19/21	16	698A	CL	15.5	111.0	16.0	111.7	129.6	8	101	95	0 / 4	A
54		10/19/21	16	698A	CL	15.5	111.0	16.3	112.4	130.7	8	101	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
51	Storm Sewer Trench Backfill: Alpine Phlox Ln. SDMH 57. Between Inlet and Manhole. Filing 11.							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
52	Storm Sewer Trench Backfill: Alpine Phlox Ln. SDMH 57. Between Inlet and Manhole. Filing 11.							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
53	Storm Sewer Trench Backfill: Coppermallow Trail. Filing 11. STA - 11+25							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
54	Storm Sewer Trench Backfill: Coppermallow Trail. Filing 11. STA - 12+00							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 54: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000007
11/12/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
55		11/12/21	7	698A	CL	16.5	107.5	17.8	107.3	126.4	8	100	95	0 / 4	A
56		11/12/21	7	698A	CL	16.5	107.5	18.0	107.6	127.0	8	100	95	0 / 4	A
57		11/12/21	7	698A	CL	16.5	107.5	17.6	107.1	126.0	8	100	95	0 / 4	A
58		11/12/21	7	698A	CL	16.5	107.5	17.6	107.1	126.0	8	100	95	0 / 4	A
59		11/12/21	7	698A	CL	16.5	107.5	16.9	107.7	125.9	8	100	95	0 / 4	A
60		11/12/21	7	698A	CL	16.5	107.5	17.5	107.4	126.2	8	100	95	0 / 4	A
61		11/12/21	7	698A	CL	16.5	107.5	16.5	107.5	125.2	8	100	95	0 / 4	A
62		11/12/21	7	698A	CL	16.5	107.5	17.7	107.7	126.8	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated				Field Technician		
55	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 20+00						1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
56	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 19+50						3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
57	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 19+00						5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
58	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 18+50						8.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
59	Storm Sewer Trench Backfill: West of field mint lane. Filing 11. STA: 17+25						3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
60	Storm Sewer Trench Backfill: West of field mint lane. Filing 11. STA: 16+50						1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
61	Storm Sewer Trench Backfill: West of field mint lane. Filing 11. STA: 16+00						2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
62	Storm Sewer Trench Backfill: West of field mint lane. Filing 11. STA: 15+50						1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021				Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000007
11/12/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
63		11/12/21	7	698A	CL	16.5	107.5	18.0	107.4	126.7	8	100	95	0 / 4	A
64		11/12/21	7	698A	CL	16.5	107.5	17.0	107.3	125.5	8	100	95	0 / 4	A
65		11/12/21	7	698A	CL	16.5	107.5	17.2	107.6	126.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
63	Storm Sewer Trench Backfill: West of field mint lane. Filing 11. STA: 15+00						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
64	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 14+50						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
65	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 14+00						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 65: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000008
11/15/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
66		11/15/21	7	698A	CL	16.5	107.5	18.2	107.4	127.0	8	100	95	0 / 4	A
67		11/15/21	7	698A	CL	16.5	107.5	17.5	107.1	125.8	8	100	95	0 / 4	A
68		11/15/21	7	698A	CL	16.5	107.5	17.2	107.8	126.3	8	100	95	0 / 4	A
69		11/15/21	7	698A	CL	16.5	107.5	17.0	107.6	125.9	8	100	95	0 / 4	A
70		11/15/21	7	698A	CL	16.5	107.5	16.7	107.3	125.2	8	100	95	0 / 4	A
71		11/15/21	7	698A	CL	16.5	107.5	17.0	107.7	126.0	8	100	95	0 / 4	A
72		11/15/21	7	698A	CL	16.5	107.5	17.7	107.5	126.5	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
66	Storm Sewer Trench Backfill: West of Alpine Phlox Lane. Filing 11. STA: 13+50						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
67	Storm Sewer Trench Backfill: West of Alpine Phlox Lane. Filing 11. STA: 13+00						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
68	Storm Sewer Trench Backfill: West of Alpine Phlox Lane. Filing 11. STA: 12+50						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
69	Storm Sewer Trench Backfill: West of Alpine Phlox Lane. Filing 11. STA: 12+00						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
70	Storm Sewer Trench Backfill: West of Alpine Phlox Lane. Filing 11. STA: 11+50						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
71	Storm Sewer Trench Backfill: West of Alpine Phlox Lane. Filing 11. STA: 11+00						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
72	Storm Sewer Trench Backfill: West of Alpine Phlox Lane. Filing 11. STA: 10+50						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 72: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000009
11/16/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
25		11/16/21	5	698A	SC	13.5	114.5	13.4	114.5	129.8	8	100	100	-2 / 2	A
26		11/16/21	5	698A	SC	13.5	114.5	13.3	114.2	129.4	8	100	100	-2 / 2	A
27		11/16/21	5	698A	SC	13.5	114.5	13.0	114.4	129.3	8	100	100	-2 / 2	A
28		11/16/21	5	698A	SC	13.5	114.5	13.8	114.7	130.5	8	100	100	-2 / 2	A
29		11/16/21	5	698A	SC	13.5	114.5	12.6	114.3	128.7	8	100	100	-2 / 2	A
30		11/16/21	5	698A	SC	13.5	114.5	12.9	114.9	129.7	8	100	100	-2 / 2	A
31		11/16/21	5	698A	SC	13.5	114.5	13.5	114.8	130.3	8	100	100	-2 / 2	A
32		11/16/21	5	698A	SC	13.5	114.5	13.6	114.6	130.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
25	Storm Inlet Backfill: Filing 11. #89 - STA - 38+24.23						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
26	Storm Inlet Backfill: Filing 11. #89 - STA - 38+24.23						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
27	Storm Inlet Backfill: Filing 11. #88 - STA - 39+25.81						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
28	Storm Manhole Backfill: Filing 11. #108 - STA - 39+25.81						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
29	Storm Manhole Backfill: Filing 11. #108 - STA - 39+25.81						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
30	Storm Manhole Backfill: Filing 11. #106 - STA - 38+24.23						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
31	Storm Manhole Backfill: Filing 11. #106 - STA - 38+24.23						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
32	Storm Sewer Trench Backfill: Filing 11. Scarlet Sage Ave. STA - 39+25. Mainline between inlet 88 and 89						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000009
11/16/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
33		11/16/21	5	698A	SC	13.5	114.5	13.8	115.4	131.3	8	101	100	-2 / 2	A
34		11/16/21	5	698A	SC	13.5	114.5	12.7	116.0	130.7	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
33	Storm Manhole Backfill: Filing 11. #171. STA - 10+90.12							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
34	Storm Manhole Backfill: Filing 11. #171. STA - 10+90.12							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 34: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000010
11/23/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
35		11/23/21	5	698A	SC	13.5	114.5	13.8	115.0	130.9	8	100	100	-2 / 2	A
36		11/23/21	5	698A	SC	13.5	114.5	13.9	115.2	131.2	8	101	100	-2 / 2	A
37		11/23/21	5	698A	SC	13.5	114.5	14.7	114.9	131.8	8	100	100	-2 / 2	A
38		11/23/21	5	698A	SC	13.5	114.5	14.3	114.3	130.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
35	Storm Inlet Backfill: Filing 11. #56. STA- 17+68.00							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
36	Storm Inlet Backfill: Filing 11. #56. STA- 17+68.00							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
37	Storm Inlet Backfill: Filing 11. #57. STA- 18+48.58							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
38	Storm Inlet Backfill: Filing 11. #57. STA- 18+48.58							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 38: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000011
11/24/2021
Report Date: 01/05/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
39		11/24/21	16	698A	CL	15.5	111.0	17.1	110.8	129.7	8	100	95	0 / 4	A
40		11/24/21	16	698A	CL	15.5	111.0	16.8	111.2	129.9	8	100	95	0 / 4	A
41		11/24/21	16	698A	CL	15.5	111.0	17.2	111.1	130.2	8	100	95	0 / 4	A
42		11/24/21	16	698A	CL	15.5	111.0	16.1	110.6	128.4	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
39	Storm Manhole Backfill: Filing 11. #58. STA- 13+26.08							2.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
40	Storm Manhole Backfill: Filing 11. #58. STA - 13+26.08							1.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
41	Storm Manhole Backfill: Filing 11. #59. STA - 12+88.33							2.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
42	Storm Manhole Backfill: Filing 11. #59. STA - 12+88.33							1.0	BG		XPLOER / 3500 / 2027 / 01/07/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 42: As requested by Sheryl with JBS, a site visit was made to observe and test storm trench backfill. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the sheepsfoot.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000012
11/12/2021
Report Date: 02/07/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
73		11/12/21	7	698A	CL	16.5	107.5	17.9	107.0	126.2	8	100	95	0 / 4	A
74		11/12/21	7	698A	CL	16.5	107.5	18.1	107.5	127.0	8	100	95	0 / 4	A
75		11/12/21	7	698A	CL	16.5	107.5	17.6	107.2	126.1	8	100	95	0 / 4	A
76		11/12/21	7	698A	CL	16.5	107.5	17.7	108.0	127.1	8	100	95	0 / 4	A
77		11/12/21	7	698A	CL	16.5	107.5	18.2	107.8	127.4	8	100	95	0 / 4	A
78		11/12/21	7	698A	CL	16.5	107.5	17.5	108.0	126.9	8	100	95	0 / 4	A
79		11/12/21	7	698A	CL	16.5	107.5	17.6	107.0	125.8	8	100	95	0 / 4	A
80		11/12/21	7	698A	CL	16.5	107.5	17.7	107.1	126.1	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
73	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 17+75							9.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
74	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 17+75							7.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
75	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 18+15							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
76	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 18+35							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
77	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 18+35							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
78	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 14+35							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
79	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 14+25							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
80	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 14+15							6.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000012
11/12/2021
Report Date: 02/07/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
81		11/12/21	7	698A	CL	16.5	107.5	17.0	107.3	125.5	8	100	95	0 / 4	A
82		11/12/21	7	698A	CL	16.5	107.5	16.5	108.0	125.8	8	100	95	0 / 4	A
83		11/12/21	7	698A	CL	16.5	107.5	17.3	107.6	126.2	8	100	95	0 / 4	A
84		11/12/21	7	698A	CL	16.5	107.5	17.1	107.0	125.3	8	100	95	0 / 4	A
85		11/12/21	7	698A	CL	16.5	107.5	17.7	107.6	126.6	8	100	95	0 / 4	A
91		11/12/21	7	698A	CL	16.5	107.5	17.9	107.5	126.7	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
81	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 14+05							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
82	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 13+85							7.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
83	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 13+75							6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
84	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 13+65							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
85	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 13+50							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
91	Storm Sewer Trench Backfill: East of field mint lane. Filing 11. STA: 18+75							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000013
11/15/2021
Report Date: 02/07/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
86		11/15/21	7	698A	CL	16.5	107.5	17.4	107.1	125.7	8	100	95	0 / 4	A
87		11/15/21	7	698A	CL	16.5	107.5	17.1	107.6	126.0	8	100	95	0 / 4	A
88		11/15/21	7	698A	CL	16.5	107.5	17.0	107.0	125.2	8	100	95	0 / 4	A
89		11/15/21	7	698A	CL	16.5	107.5	17.1	107.3	125.6	8	100	95	0 / 4	A
90		11/15/21	7	698A	CL	16.5	107.5	16.5	107.2	124.9	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
86	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 13+35						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
87	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 13+20						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
88	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 10+75						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
89	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 10+65						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
90	Storm Sewer Trench Backfill: East of alpine phlox lane. Filing 11. STA: 10+35						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
01/19/2022
Report Date: 02/21/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
97		01/19/22	16	698A	CL	15.5	111.0	16.5	110.7	129.0	8	100	95	0 / 4	A
98		01/19/22	16	698A	CL	15.5	111.0	15.6	110.9	128.2	8	100	95	0 / 4	A
99		01/19/22	16	698A	CL	15.5	111.0	16.1	111.2	129.1	8	100	95	0 / 4	A
100		01/19/22	16	698A	CL	15.5	111.0	15.7	110.5	127.9	8	100	95	0 / 4	A
101		01/19/22	16	698A	CL	15.5	111.0	16.2	110.9	128.9	8	100	95	0 / 4	A
102		01/19/22	5	698A	SC	13.5	114.5	13.3	115.8	131.2	8	101	100	-2 / 2	A
103		01/19/22	5	698A	SC	13.5	114.5	13.9	114.8	130.8	8	100	100	-2 / 2	A
104		01/19/22	5	698A	SC	13.5	114.5	14.1	115.2	131.5	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
97	Storm Manhole Backfill: Filing 11. #52. Sta - 16+30.15							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
98	Storm Manhole Backfill: Filing 11. #52. Sta - 16+30.15							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
99	Storm Manhole Backfill: Filing 11. #52. Sta - 16+30.15							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
100	Storm Manhole Backfill: Filing 11. #52. Sta - 16+30.15							2.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
101	Storm Manhole Backfill: Filing 11. #52. Sta - 16+30.15							1.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
102	Storm Manhole Backfill: Filing 11. #53. Sta - 15+91.98							5.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
103	Storm Manhole Backfill: Filing 11. #53. Sta - 15+91.98							4.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
104	Storm Manhole Backfill: Filing 11. #53. Sta - 15+91.98							3.0	BG	XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014
01/19/2022
Report Date: 02/21/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
105		01/19/22	5	698A	SC	13.5	114.5	13.9	114.0	129.8	8	100	100	-2 / 2	A
106		01/19/22	5	698A	SC	13.5	114.5	13.9	114.5	130.4	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
105	Storm Manhole Backfill: Filing 11. #53. Sta - 15+91.98						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
106	Storm Manhole Backfill: Filing 11. #53. Sta - 15+91.98						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 106: As requested by Sheryl with JBS, a site visit was made to observe and test storm manhole backfill. We observed the contractor place fill with the excavator, add moisture with the water truck, and apply compactive effort with the excavator.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015
01/20/2022
Report Date: 02/21/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
107		01/20/22	5	698A	SC	13.5	114.5	13.0	116.2	131.3	8	101	100	-2 / 2	A
108		01/20/22	5	698A	SC	13.5	114.5	14.0	114.2	130.2	8	100	100	-2 / 2	A
109		01/20/22	5	698A	SC	13.5	114.5	13.9	114.0	129.8	8	100	100	-2 / 2	A
110		01/20/22	5	698A	SC	13.5	114.5	13.9	114.4	130.3	8	100	100	-2 / 2	A
111		01/20/22	5	698A	SC	13.5	114.5	14.6	114.7	131.5	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
107	Storm Manhole Backfill: Filing 11. #54. Sta - 14+46.59							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
108	Storm Manhole Backfill: Filing 11. #54. Sta - 14+46.59							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
109	Storm Manhole Backfill: Filing 11. #54. Sta - 14+46.59							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
110	Storm Manhole Backfill: Filing 11. #54. Sta - 14+46.59							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
111	Storm Manhole Backfill: Filing 11. #54. Sta - 14+46.59							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 111: As requested by Sheryl with JBS, a site visit was made to observe and test waterline trench backfill. We observed the contractor place fill with the excavator, add moisture with the water truck, and apply compactive effort with the excavator.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000016

01/21/2022

Report Date: 02/21/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
92		01/21/22	16	698A	CL	15.5	111.0	16.1	111.3	129.2	8	100	95	0 / 4	A
93		01/21/22	16	698A	CL	15.5	111.0	16.1	110.9	128.7	8	100	95	0 / 4	A
94		01/21/22	16	698A	CL	15.5	111.0	15.8	110.6	128.1	8	100	95	0 / 4	A
95		01/21/22	16	698A	CL	15.5	111.0	15.5	110.7	127.9	8	100	95	0 / 4	A
96		01/21/22	16	698A	CL	15.5	111.0	16.1	111.1	129.0	8	100	95	0 / 4	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
92	Storm Manhole Backfill: Filing 11. #60. Sta - 9+90.97							5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
93	Storm Manhole Backfill: Filing 11. #60. Sta - 9+90.97							4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
94	Storm Manhole Backfill: Filing 11. #60. Sta - 9+90.97							3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
95	Storm Manhole Backfill: Filing 11. #60. Sta - 9+90.97							2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
96	Storm Manhole Backfill: Filing 11. #60. Sta - 9+90.97							1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 96: As requested by Sheryl with JBS, a site visit was made to observe and test storm manhole backfill. We observed the contractor place fill with the excavator, add moisture with the water truck, and apply compactive effort with the excavator.										



CTL | THOMPSON Compaction Test Report

INCORPORATED

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000017
01/24/2022
Report Date: 02/21/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
112		01/24/22	7	698A	CL	16.5	107.5	16.5	108.0	125.8	8	100	95	0 / 4	A
113		01/24/22	7	698A	CL	16.5	107.5	17.4	108.0	126.8	8	100	95	0 / 4	A
114		01/24/22	7	698A	CL	16.5	107.5	17.6	108.2	127.2	8	101	95	0 / 4	A
115		01/24/22	7	698A	CL	16.5	107.5	16.6	108.5	126.5	8	101	95	0 / 4	A
116		01/24/22	7	698A	CL	16.5	107.5	17.4	108.6	127.5	8	101	95	0 / 4	A
117		01/24/22	7	698A	CL	16.5	107.5	16.5	107.9	125.7	8	100	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
112	Storm Manhole Backfill: Filing 11. #55. Sta - 21+10.38						6.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
113	Storm Manhole Backfill: Filing 11. #55. Sta - 21+10.38						5.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
114	Storm Manhole Backfill: Filing 11. #55. Sta - 21+10.38						4.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
115	Storm Manhole Backfill: Filing 11. #55. Sta - 21+10.38						3.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
116	Storm Manhole Backfill: Filing 11. #55. Sta - 21+10.38						2.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
117	Storm Manhole Backfill: Filing 11. #55. Sta - 21+10.38						1.0	BG		XPLOER / 3500 / 2026 / 04/21/2021			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 117: As requested by Sheryl with JBS, a site visit was made to observe and test storm manhole backfill. We observed the contractor place fill with the excavator, add moisture with the water truck, and apply compactive effort with the excavator.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000018
06/30/2022
Report Date: 08/08/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
118		06/30/22	2	ASTM D698C	SC	10.5	121.0	9.1	105.4	115.0	8	87	100	-2 / 2	B
119		06/30/22	2	ASTM D698C	SC	10.5	121.0	4.5	102.1	106.7	8	84	100	-2 / 2	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
118	Storm Inlet Backfill: Base subgrade, Inlet 39 Beebalm Ave							6.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
119	Storm Inlet Backfill: Base subgrade, Inlet 31 Beebalm Ave							6.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 119: As requested by Anthony with JBS, a site visit was made to observe and test Inlet backfill. The backfill was prepared prior to our arrival. The contractor was notified of the failing test results.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000019

07/06/2022

Report Date: 08/08/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
120	119	07/06/22	2	ASTM D698C	SC	10.5	121.0	8.7	121.1	131.6	6	100	100	-2 / 2	A
121		07/06/22	2	ASTM D698C	SC	10.5	121.0	9.1	122.9	134.1	6	102	100	-2 / 2	E
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
120	Storm Inlet Backfill: Base subgrade, Inlet 31 Beebalm Ave							6.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
121	Observation Only: Base inlet backfill							6.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
E: Test number for data entry purposes only.					120: As requested by Anthony with JBS, a site visit was made to observe and test inlet backfill. The backfill was prepared prior to our arrival. 121: As requested by Anthony with JBS, a site visit was made to observe and test base inlet backfill. During our visit we observed the inlets were 7' deep with vertical walls. We requested a shoring box and they did not have any on the jobsite. JB's was ok with doing a visual observation on the subgrade which we observed to be hard, firm, and compacted. No testing was performed.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000020

03/15/2023

Report Date: 04/24/2023

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-325

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
122		03/15/23	4	ASTM D698B	SC	12.0	118.5	12.7	118.1	133.1	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
122	Inlet Backfill: Subgrade for inlet, SDIN-43 at station 21+10.31 on Alpine Phlox Lane							0.0	BG		XPLOER / 3500 / 3381 / 01/26/2023			Collins, William	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 122: As requested by Jesus with Three Sons, a site visit was made to observe and test inlet backfill. The backfill was prepared prior to our arrival. The contractor dug test holes beneath the 2 inches of previously placed base course for us to test.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000021
03/29/2023
Report Date: 04/24/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
123		03/29/23	6	698A	SC	11.0	120.5	11.8	120.7	135.0	8	100	100	-2 / 2	A
124		03/29/23	6	698A	SC	11.0	120.5	11.6	120.0	133.9	8	100	100	-2 / 2	A
125		03/29/23	6	698A	SC	11.0	120.5	12.9	120.0	135.5	8	100	100	-2 / 2	A
126		03/29/23	6	698A	SC	11.0	120.5	11.1	120.9	134.3	8	100	100	-2 / 2	A
127		03/29/23	6	698A	SC	11.0	120.5	12.5	119.9	134.9	8	100	100	-2 / 2	A
128		03/29/23	6	698A	SC	11.0	120.5	12.8	120.4	135.8	8	100	100	-2 / 2	A
129		03/29/23	6	698A	SC	11.0	120.5	12.7	120.7	136.0	8	100	100	-2 / 2	A
130		03/29/23	6	698A	SC	11.0	120.5	11.9	119.9	134.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician			
123	Storm Inlet Backfill: Field Mint Terrace and Alpine Phlox Lane Storm inlet STA 9+82.90, 8.59' R, 2'ft W of inlet						5.0	BG	XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff			
124	Storm Inlet Backfill: Field Mint Terrace and Alpine Phlox Lane Storm inlet STA 9+82.90, 8.59' R, 2'ft S of inlet						5.0	BG	XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff			
125	Storm Inlet Backfill: Field Mint Terrace and Alpine Phlox Lane Storm inlet STA 9+82.90, 8.59' R, 2'ft W of inlet						4.0	BG	XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff			
126	Storm Inlet Backfill: Field Mint Terrace and Alpine Phlox Lane Storm inlet STA 9+82.90, 8.59' R, 3'ft E of inlet						3.0	BG	XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff			
127	Storm Inlet Backfill: Field Mint Terrace and Alpine Phlox Lane Storm inlet STA 9+82.90, 8.59' R, 4'ft S of inlet						2.0	BG	XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff			
128	Storm Inlet Backfill: Field Mint Terrace and Alpine Phlox Lane Storm inlet STA 9+82.90, 8.59' R, 3'ft N of inlet						1.0	BG	XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff			
129	Storm Inlet Backfill: Field Mint Terrace and Alpine Phlox Lane Storm inlet STA 9+82.90, 8.59' R, 4'ft W of inlet						0.0	BG	XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff			
130	Storm Inlet Backfill: Field Mint Terrace and Alpine Phlox Lane Storm inlet STA 9+82.90, 8.59' R, 4'ft E of inlet						0.0	BG	XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff			

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000021
03/29/2023
Report Date: 04/24/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 130: As requested by Jorge with Three Sons Construction, a site visit was made to observe and test storm inlet backfill. We observed the contactor place and process fill with the excavator and apply compactive effort by the excavator with the sheepsfoot attachment and jumping jack.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000022

09/13/2022

Report Date: 05/18/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
133		09/13/22	5	698A	SC	13.5	114.5	12.8	114.3	128.9	8	100	100	-2 / 2	A
134		09/13/22	5	698A	SC	13.5	114.5	13.3	114.2	129.4	8	100	100	-2 / 2	A
135		09/13/22	5	698A	SC	13.5	114.5	13.2	114.0	129.0	8	100	100	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
133	Inlet Backfill: Crownvetch Circle, STA 18+72	7.0	BG	XPLOER / 3500 / 1991 / 07/08/2022	Manzanero, Bianca
134	Inlet Backfill: Crownvetch Circle, STA 18+72	7.0	BG	XPLOER / 3500 / 1991 / 07/08/2022	Manzanero, Bianca
135	Inlet Backfill: Crownvetch Circle, STA 18+72	5.0	BG	XPLOER / 3500 / 1991 / 07/08/2022	Manzanero, Bianca

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
135: As requested by Javier with JBS, a site visit was made to observe and test inlet backfill. We observed the contractor place fill with the excavator, add moisture with the water hose, and apply compactive effort by the excavator with the sheepsfoot attachment.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000023
09/14/2022
Report Date: 05/18/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
136		09/14/22	5	698A	SC	13.5	114.5	12.8	114.3	128.9	8	100	100	-2 / 2	A
137		09/14/22	5	698A	SC	13.5	114.5	12.2	115.0	129.0	8	100	100	-2 / 2	A
138		09/14/22	5	698A	SC	13.5	114.5	12.1	114.2	128.0	8	100	100	-2 / 2	A
139		09/14/22	5	698A	SC	13.5	114.5	12.2	114.0	127.9	8	100	100	-2 / 2	A
140		09/14/22	5	698A	SC	13.5	114.5	12.8	114.4	129.0	8	100	100	-2 / 2	A
141		09/14/22	5	698A	SC	13.5	114.5	11.5	114.8	128.0	8	100	100	-2 / 2	A
142		09/14/22	5	698A	SC	13.5	114.5	12.3	114.9	129.0	8	100	100	-2 / 2	A
143		09/14/22	5	698A	SC	13.5	114.5	12.0	114.1	127.8	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
136	Inlet Backfill: Bee Balm Ave,STA 28+70							5.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
137	Inlet Backfill: Bee Balm Ave,STA 28+70							4.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
138	Inlet Backfill: Bee Balm Ave,STA 28+70							3.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
139	Inlet Backfill: Bee Balm Ave,STA 28+70							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
140	Inlet Backfill: Bee Balm Ave,STA 28+70							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
141	Inlet Backfill: Bee Balm Ave,STA 19+32							5.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
142	Inlet Backfill: Bee Balm Ave,STA 19+32							5.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
143	Inlet Backfill: Bee Balm Ave,STA 19+32							4.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000023

09/14/2022

Report Date: 05/18/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
144		09/14/22	5	698A	SC	13.5	114.5	12.3	114.5	128.6	8	100	100	-2 / 2	A
145		09/14/22	5	698A	SC	13.5	114.5	12.9	114.3	129.0	8	100	100	-2 / 2	A
146		09/14/22	5	698A	SC	13.5	114.5	12.8	114.4	129.0	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
144	Inlet Backfill: Bee Balm Ave,STA 19+32						3.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca		
145	Inlet Backfill: Bee Balm Ave,STA 19+32						2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca		
146	Inlet Backfill: Bee Balm Ave,STA 19+32						1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000024
09/15/2022
Report Date: 05/18/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
131		09/15/22	5	698A	SC	13.5	114.5	12.3	114.3	128.4	8	100	100	-2 / 2	A
147		09/15/22	5	698A	SC	13.5	114.5	11.8	114.5	128.0	8	100	100	-2 / 2	A
148		09/15/22	5	698A	SC	13.5	114.5	11.7	114.6	128.0	8	100	100	-2 / 2	A
149		09/15/22	5	698A	SC	13.5	114.5	12.9	114.3	129.0	8	100	100	-2 / 2	A
150		09/15/22	5	698A	SC	13.5	114.5	12.0	114.4	128.1	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
131	Inlet Backfill: Alpine Phlox Ln. STA 10+23							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
147	Inlet Backfill: Bee Balm Ave STA 28+70							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
148	Inlet Backfill: Bee Balm Ave STA 19+32							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
149	Inlet Backfill: Alpine Phlox Ln. STA 10+23							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
150	Inlet Backfill: Alpine Phlox Ln. STA 10+23							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 131: As requested by Javier with JBS, a site visit was made to observe and test Inlet and waterline trench backfill. We observed the contractor place the fill with the loader, add moisture with the water hose attached to the fire hydrant, and apply compactive effort by the mini excavator with the vibrating shaker head.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
09/16/2023
Report Date: 05/18/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-325
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
132		09/16/22	14	ASTM D698A	SC	11.0	120.5	9.2	120.1	131.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference			Gauge Make / Model / SN / Calibrated		Field Technician	
132	Inlet Backfill: STA 13+92 Crownvetch Circle							0.0	BG			XPLOER / 3500 / 1990 / 06/17/2022		Manzanero, Bianca	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 132: As requested by Javier with JBS, a site visit was made to observe and test inlet backfill. We observed the contractor place fill with the loader, add moisture with the water hose attached to the fire hydrant, and apply compactive effort by the mini excavator and the loader traffic.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000014

03/17/2022

Report Date: 04/04/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
16		03/17/22	4	ASTM D698B	SC	12.0	118.5	12.0	121.9	136.5	8	103	100	-2 / 2	A
17		03/17/22	4	ASTM D698B	SC	12.0	118.5	10.5	119.6	132.2	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
16	Cancelled on Site: Dry utilities							4.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Cole, Stephen	
17	Cancelled on Site: Dry utilities							4.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 16, 17: As requested by Sheryl with JBS, a site visit was made to observe and test dry utilities backfill. Testing was cancelled on site due to inclement weather.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000015
03/25/2022
Report Date: 04/04/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
3		03/25/22	3	ASTM D698B	SC	12.5	117.0	11.4	119.8	133.4	8	102	100	-2 / 2	A
4		03/25/22	3	ASTM D698B	SC	12.5	117.0	12.3	118.3	132.9	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
3	Street Subgrade: Field Mint Avenue, sanitary station 15+00						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
4	Street Subgrade: Field Mint Avenue, sanitary station 16+00						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 4: As requested by Casey with D.R. Horton, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000016

03/28/2022

Report Date: 04/04/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
5		03/28/22	7	698A	CL	16.5	107.5	7.5	109.2	117.4	8	102	95	0 / 4	B
6		03/28/22	7	698A	CL	16.5	107.5	11.1	107.7	119.7	8	100	95	0 / 4	B
7		03/28/22	7	698A	CL	16.5	107.5	8.4	116.2	126.0	8	108	95	0 / 4	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
5	Street Subgrade: Field Mint Ave. Station 20+00							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
6	Street Subgrade: Field Mint Ave. Station 18+00							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
7	Street Subgrade: Field Mint Ave. Station 16+00							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 7: As requested by Thoutt Brothers Concrete with D.R. Horton, a site visit was made to observe and test street subgrade. We observed the contractor place fill with the front end loader and the planer, add moisture with the water truck, and apply compactive effort with the sheepsfoot roller and the planer. Tests were conducted at an air temperature of 70° degrees farenheit.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000017
03/29/2022
Report Date: 04/04/2022
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-340
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
8	5	03/29/22	7	698A	CL	16.5	107.5	11.5	110.0	122.6	8	102	95	0 / 4	B
9	6	03/29/22	7	698A	CL	16.5	107.5	11.0	117.7	130.6	8	109	95	0 / 4	B
10	7	03/29/22	7	698A	CL	16.5	107.5	7.4	117.4	126.1	8	109	95	0 / 4	B
11		03/29/22	3	ASTM D698B	SC	12.5	117.0	8.6	121.7	132.2	8	104	100	-2 / 2	B
12	8	03/29/22	7	698A	CL	16.5	107.5	18.4	113.3	134.2	8	105	95	0 / 4	A
13	9	03/29/22	7	698A	CL	16.5	107.5	19.2	112.7	134.3	8	105	95	0 / 4	A
14	10	03/29/22	7	698A	CL	16.5	107.5	17.0	115.5	135.1	8	107	95	0 / 4	A
15	11	03/29/22	3	ASTM D698B	SC	12.5	117.0	14.1	117.1	133.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
8	Street Subgrade: Field Mint Ave, station 20+00							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
9	Street Subgrade: Field Mint Ave, station 18+00							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
10	Street Subgrade: Field Mint Ave, station 16+00							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
11	Street Subgrade: Field Mint Ave, station 14+00							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
12	Street Subgrade: Field Mint Ave, station 20+00							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
13	Street Subgrade: Field Mint Ave, station 18+00							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
14	Street Subgrade: Field Mint Ave, station 16+00							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
15	Street Subgrade: Field Mint Ave, station 14+00							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
A: Test results comply with specifications.					15: As requested by Thoutt Brothers Concrete with D.R. Horton, a site visit was made to observe and test street subgrade. We observed the contractor place fill with the front end loader and the planer, add moisture with the water truck, and apply compactive effort with the sheepsfoot roller and the planer. Tests were conducted at an air temperature of 48° degrees fahrenheit.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000018

03/31/2022

Report Date: 04/18/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
24		03/31/22	11	698C	BC	6.5	133.5	4.8	128.0	134.1	8	96	95	-2 / 2	A
25		03/31/22	11	698C	BC	6.5	133.5	4.6	132.9	139.0	8	100	95	-2 / 2	A
26		03/31/22	11	698C	BC	6.5	133.5	5.1	129.3	135.9	8	97	95	-2 / 2	A
27		03/31/22	11	698C	BC	6.5	133.5	6.1	128.2	136.0	8	96	95	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
24	Street Subgrade: Field Mint Ave. Station 20+00	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
25	Street Subgrade: Field Mint Ave. Station 18+00	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
26	Street Subgrade: Field Mint Ave. Station 16+00	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
27	Street Subgrade: Field Mint Ave. Station 14+00	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 27: As requested by Bob with JBS, a site visit was made to observe and test street subgrade. We observed the contractor place and process fill with the planer, add moisture with the water truck, and apply compactive effort with the sheepsfoot. All tests were conducted at an air temperature of 54° degrees fahrenheit.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000019
04/19/2022
Report Date: 04/25/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
28		04/19/22	8	698A	CL	18.0	109.0	15.4	105.3	121.5	8	97	95	0 / 4	B
29		04/19/22	8	698A	CL	18.0	109.0	15.6	106.1	122.6	8	97	95	0 / 4	B
30		04/19/22	8	698A	CL	18.0	109.0	14.2	106.2	121.3	8	97	95	0 / 4	B
31		04/19/22	8	698A	CL	18.0	109.0	13.1	112.5	127.2	8	103	95	0 / 4	B
32		04/19/22	8	698A	CL	18.0	109.0	18.1	105.8	125.0	8	97	95	0 / 4	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
28	Street Subgrade: S end of Black Sedge Cir.						1.0	Bg		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
29	Street Subgrade: 50' N of S end of Black Sedge Cir.						1.0	Bg		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
30	Street Subgrade: 50' S of N end of Black Sedge Cir.						1.0	Bg		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
31	Street Subgrade: S of N end of Black Sedge Cir.						1.0	Bg		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
32	Street Subgrade: S end of Black Sedge Cir.						1.0	Bg		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
A: Test results comply with specifications.															



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000020

04/20/2022

Report Date: 04/25/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
33	28	04/20/22	8	698A	CL	18.0	109.0	18.3	105.7	125.0	8	97	95	0 / 4	A
34	29	04/20/22	8	698A	CL	18.0	109.0	18.5	104.9	124.3	8	96	95	0 / 4	A
35	30	04/20/22	8	698A	CL	18.0	109.0	20.0	104.6	125.5	8	96	95	0 / 4	A
36	31	04/20/22	8	698A	CL	18.0	109.0	20.3	104.7	126.0	8	96	95	0 / 4	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
33	Street Subgrade: S end of Black Sedge Cir.	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
34	Street Subgrade: 50' N of S end of Black Sedge Cir.	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
35	Street Subgrade: 50' S of N end of Black Sedge Cir.	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen
36	Street Subgrade: S of N end of Black Sedge Cir.	1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022	Cole, Stephen

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 36: As requested by KC with Martin Marietta, a site visit was made to observe and test street subgrade. We observed the contractor place fill with a planer, apply moisture with the water truck, and compactive effort with a sheepsfoot roller. All tests were conducted at an air temperature of 45° degrees fahrenheit.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000021
03/25/2022
Report Date: 04/28/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
1		03/25/22	3	ASTM D698B	SC	12.5	117.0	10.8	118.0	130.7	8	101	100	-2 / 2	A
2		03/25/22	3	ASTM D698B	SC	12.5	117.0	13.6	117.3	133.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
1	Street Subgrade: Sanitary station 11+00							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
2	Street Subgrade: Sanitary station 13+00							1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 2: As requested by Casey with D.R. Horton, a site visit was made to observe and test street subgrade. We observed the contractor place fill with the front end loader and planer, add moisture with the water truck, and apply compactive effort with the sheepsfoot roller and planer. Tests were conducted at an air temperature of 35° degrees farenheit.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000022
04/21/2022
Report Date: 05/09/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
37		04/21/22	22		RC	11.0	128.0	12.0	128.8	144.2	8	101	100	-2 / 2	A
38		04/21/22	22		RC	11.0	128.0	11.1	129.1	143.4	8	101	100	-2 / 2	A
39		04/21/22	22		RC	11.0	128.0	10.6	129.7	143.5	8	101	100	-2 / 2	A
40		04/21/22	22		RC	11.0	128.0	9.2	128.1	139.9	8	100	100	-2 / 2	A
41		04/21/22	22		RC	11.0	128.0	10.5	129.1	142.7	8	101	100	-2 / 2	A
42		04/21/22	22		RC	11.0	128.0	10.9	129.3	143.4	8	101	100	-2 / 2	A
43		04/21/22	22		RC	11.0	128.0	10.9	128.2	142.2	8	100	100	-2 / 2	A
44		04/21/22	22		RC	11.0	128.0	11.9	129.5	144.9	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
37	Street Subgrade: Field Mint Ave. Station 19+00. W side.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
38	Street Subgrade: Field Mint Ave. Station 19+00. E side.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
39	Street Subgrade: Field Mint Ave. Station 17+00. W side.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
40	Street Subgrade: Field Mint Ave. Station 17+00. E side.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
41	Street Subgrade: Field Mint Ave. Station 16+00. W side.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
42	Street Subgrade: Field Mint Ave. Station 16+00. E side.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
43	Street Subgrade: Field Mint Ave. Station 15+00. N side.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
44	Street Subgrade: Field Mint Ave. Station 15+00. S side.							1.0	BG	XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000022
04/21/2022
Report Date: 05/09/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
45		04/21/22	22		RC	11.0	128.0	11.4	127.6	142.1	8	100	100	-2 / 2	A
46		04/21/22	22		RC	11.0	128.0	10.7	129.7	143.6	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
45	Street Subgrade: Field Mint Ave. Station 14+00. N side.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
46	Street Subgrade: Field Mint Ave. Station 14+00. S side.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 46: As requested by KC with Martin Marietta, a site visit was made to observe and test street subgrade. We observed the contractor place fill with the planer, add moisture with the water truck, and apply compactive effort with the smooth roller. All tests were conducted at an air temperature of 68°derees farenhiet.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000023
04/23/2022
Report Date: 05/09/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
47		04/23/22	1	ASTM D698C	SC	10.5	122.0	10.0	121.4	133.5	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference			Gauge Make / Model / SN / Calibrated		Field Technician	
47	Cancelled on Site: Street subgrade								BG			XPLOER / 3500 / 3180 / 08/02/2021		Cole, Stephen	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 47: As requested by KC with Martin Marietta, a site visit was made to observe and test street subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000024
5/11/2022
Report Date: 05/23/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
48		05/11/22	17	698A	SC	12.5	117.5	10.6	117.2	129.6	6	100	100	-2 / 2	A
49		05/11/22	17	698A	SC	12.5	117.5	11.7	120.7	134.8	6	103	100	-2 / 2	A
50		05/11/22	17	698A	SC	12.5	117.5	10.6	117.3	129.7	6	100	100	-2 / 2	A
51		05/11/22	17	698A	SC	12.5	117.5	10.5	120.0	132.6	6	102	100	-2 / 2	A
52		05/11/22	17	698A	SC	12.5	117.5	11.5	118.3	131.9	6	101	100	-2 / 2	A
53		05/11/22	17	698A	SC	12.5	117.5	11.9	117.8	131.8	6	100	100	-2 / 2	A
54		05/11/22	17	698A	SC	12.5	117.5	10.6	120.1	132.8	6	102	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
48	City Sidewalk Subgrade: Bee Balm Loop, NB lane, STA 30+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
49	City Sidewalk Subgrade: Bee Balm Loop, NB lane, STA 28+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
50	City Sidewalk Subgrade: Bee Balm Loop, NB lane, STA 26+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
51	City Sidewalk Subgrade: Field Mint, EB lane, STA 14+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
52	City Sidewalk Subgrade: Field Mint, EB lane, STA 16+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
53	City Sidewalk Subgrade: Field Mint, WB lane, STA 12+50							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
54	City Sidewalk Subgrade: Field Mint, WB lane, STA 16+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 54: As requested by Thoutt Bros Concrete, a site visit was made to observe and test city sidewalk subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000025
05/16/2022
Report Date: 05/23/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
55		05/16/22	3	ASTM D698B	SC	12.5	117.0	10.8	119.6	132.5	6	102	100	-2 / 2	A
56		05/16/22	3	ASTM D698B	SC	12.5	117.0	11.6	118.6	132.3	6	101	100	-2 / 2	A
57		05/16/22	3	ASTM D698B	SC	12.5	117.0	11.2	118.7	132.0	6	101	100	-2 / 2	A
58		05/16/22	3	ASTM D698B	SC	12.5	117.0	10.5	117.7	130.0	6	101	100	-2 / 2	A
59		05/16/22	3	ASTM D698B	SC	12.5	117.0	11.2	116.5	129.6	6	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
55	City Sidewalk Subgrade: Beebalm Loop, STA 9+50						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
56	City Sidewalk Subgrade: Beebalm Loop, STA 26+00						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
57	City Sidewalk Subgrade: Beebalm Loop, STA 28+00						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
58	City Sidewalk Subgrade: Beebalm Ave, STA 15+00						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
59	City Sidewalk Subgrade: Beebalm Ave, STA 19+00						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000026
05/18/2022
Report Date: 05/23/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
60		05/18/22	3	ASTM D698B	SC	12.5	117.0	11.2	119.9	133.3	6	102	100	-2 / 2	A
61		05/18/22	3	ASTM D698B	SC	12.5	117.0	11.3	119.5	133.0	6	102	100	-2 / 2	A
62		05/18/22	3	ASTM D698B	SC	12.5	117.0	12.6	117.4	132.2	6	100	100	-2 / 2	A
63		05/18/22	3	ASTM D698B	SC	12.5	117.0	12.4	118.2	132.8	6	101	100	-2 / 2	A
64		05/18/22	3	ASTM D698B	SC	12.5	117.0	10.6	116.5	128.8	6	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
60	City Sidewalk Subgrade: 28+00, outer sidewalk of loop.						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
61	City Sidewalk Subgrade: 26+00, outer sidewalk of loop.						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
62	City Sidewalk Subgrade: 26+00, inner sidewalk of loop.						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
63	City Sidewalk Subgrade: 12+50, outer sidewalk of loop, Beebalm loop						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
64	City Sidewalk Subgrade: 16+50, inner sidewalk of loop, Beebalm loop						0.0	Bg		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000027
06/06/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
52		06/06/22	5	698A	SC	13.5	114.5	11.6	114.1	127.3	6	100	100	-2 / 2	A
53		06/06/22	3	ASTM D698B	SC	12.5	117.0	10.6	118.0	130.5	6	101	100	-2 / 2	A
54		06/06/22	3	ASTM D698B	SC	12.5	117.0	10.5	116.7	129.0	6	100	100	-2 / 2	A
55		06/06/22	3	ASTM D698B	SC	12.5	117.0	10.6	117.8	130.3	6	101	100	-2 / 2	A
56		06/06/22	3	ASTM D698B	SC	12.5	117.0	10.8	116.6	129.2	6	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
52	City Sidewalk Subgrade: Field Mint Ave, STA 11+50							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
53	City Sidewalk Subgrade: Field Mint Ave, WB lane STA 12+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
54	City Sidewalk Subgrade: Field Mint Ave, WB lane STA 15+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
55	City Sidewalk Subgrade: Field Mint Ave, WB lane STA 17+50							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
56	City Sidewalk Subgrade: Field Mint Ave, EB lane STA 15+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 56: As requested by Thoutt, a site visit was made to observe and test sidewalk subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000028

06/20/2022

Report Date: 07/13/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
57		06/20/22	1	ASTM D698C	SC	10.5	122.0	9.8	122.0	134.0	6	100	100	-2 / 2	E
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
57	Moisture Check: Street subgrade							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
Remarks					Comments										
E: Test number for data entry purposes only.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 57: As requested by Dan with MMM, a site visit was made to perform a moisture check on street subgrade.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000029
06/21/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
58		06/21/22	5	698A	SC	13.5	114.5	11.7	114.0	127.3	6	100	100	-2 / 2	A
59		06/21/22	5	698A	SC	13.5	114.5	12.0	116.7	130.7	6	102	100	-2 / 2	A
60		06/21/22	5	698A	SC	13.5	114.5	11.5	114.0	127.1	6	100	100	-2 / 2	A
61		06/21/22	4	ASTM D698B	SC	12.0	118.5	10.2	118.0	130.0	6	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
58	Street Subgrade: Alpine Phlox Ln, STA 23+00							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
59	Street Subgrade: Field Mint PT, STA 12+50							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
60	Street Subgrade: Field Mint PT, STA 14+50							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
61	City Sidewalk Subgrade: Field Mint Ave, STA 10+50							0.0	BG		XPLOER / 3500 / 3394 / 08/13/2021			Hernandez, Jordan	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 61: As requested by Thoutt, a site visit was made to observe and test street and sidewalk subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000030
06/22/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
62		06/22/22	5	698A	SC	13.5	114.5	13.0	107.9	121.9	8	94	100	-2 / 2	B
63		06/22/22	5	698A	SC	13.5	114.5	11.3	111.3	123.9	8	97	100	-2 / 2	B
64		06/22/22	5	698A	SC	13.5	114.5	11.9	108.6	121.5	8	95	100	-2 / 2	B
65		06/22/22	5	698A	SC	13.5	114.5	11.5	104.7	116.7	8	91	100	-2 / 2	B
66		06/22/22	5	698A	SC	13.5	114.5	10.8	111.7	123.8	8	98	100	-2 / 2	B
67		06/22/22	5	698A	SC	13.5	114.5	11.5	110.8	123.5	8	97	100	-2 / 2	B
68		06/22/22	5	698A	SC	13.5	114.5	12.9	107.1	120.9	8	94	100	-2 / 2	B
69		06/22/22	5	698A	SC	13.5	114.5	12.3	110.5	124.1	8	97	100	-2 / 2	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
62	Street Subgrade: Alpine Philox Ln, West bound, sta 19+00							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
63	Street Subgrade: Alpine Philox Ln, West bound, sta 20+09.88							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
64	Street Subgrade: Alpine Philox Ln, West bound, sta 21+75							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
65	Street Subgrade: Alpine Philox Ln, West bound, sta 23+25							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
66	Street Subgrade: Alpine Philox Ln, West bound, sta 23+79.08							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
67	Street Subgrade: Alpine Philox Ln, East bound, sta 19+50							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
68	Street Subgrade: Alpine Philox Ln, East bound, sta 20+65.34							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
69	Street Subgrade: Alpine Philox Ln, East bound, sta 22+75							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000030
06/22/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
70		06/22/22	5	698A	SC	13.5	114.5	11.9	114.8	128.5	8	100	100	-2 / 2	A
71	62	06/22/22	5	698A	SC	13.5	114.5	12.6	114.3	128.7	8	100	100	-2 / 2	A
72	63	06/22/22	5	698A	SC	13.5	114.5	11.8	114.6	128.1	8	100	100	-2 / 2	A
73	64	06/22/22	5	698A	SC	13.5	114.5	11.7	114.6	128.0	8	100	100	-2 / 2	A
74	65	06/22/22	3	ASTM D698B	SC	12.5	117.0	10.9	117.0	129.7	8	100	100	-2 / 2	A
75	66	06/22/22	17	698A	SC	12.5	117.5	11.9	117.5	131.5	8	100	100	-2 / 2	A
76	67	06/22/22	17	698A	SC	12.5	117.5	11.0	118.1	131.1	8	101	100	-2 / 2	A
77	68	06/22/22	5	698A	SC	13.5	114.5	11.7	115.7	129.2	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician			
70	Street Subgrade: Alpine Philox Ln, East bound, sta 24+26.89						1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew			
71	Street Subgrade: Alpine Philox Ln, West bound, sta 19+00						1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew			
72	Street Subgrade: Alpine Philox Ln, West bound, sta 20+09.88						1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew			
73	Street Subgrade: Alpine Philox Ln, West bound, sta 21+75						1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew			
74	Street Subgrade: Alpine Philox Ln, West bound, sta 23+25						1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew			
75	Street Subgrade: Alpine Philox Ln, West bound, sta 23+79.08						1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew			
76	Street Subgrade: Alpine Philox Ln, East bound, sta 19+50						1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew			
77	Street Subgrade: Alpine Philox Ln, East bound, sta 20+65.34						1.0	BG	XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew			
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000030
06/22/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
78	69	06/22/22	5	698A	SC	13.5	114.5	12.9	114.4	129.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
78	Street Subgrade: Alpine Philox Ln, East bound, sta 22+75						1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 78: As requested by Dan with MMM, a site visit was made to observe and test street subgrade. We observed the contractor apply compactive effort with the steel drum roller.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000031

06/23/2022

Report Date: 07/13/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
79		06/23/22	5	698A	SC	13.5	114.5	8.1	111.2	120.2	8	97	100	-2 / 2	B
80		06/23/22	4	ASTM D698B	SC	12.0	118.5	7.4	124.8	134.0	8	105	100	-2 / 2	B
81		06/23/22	5	698A	SC	13.5	114.5	6.5	120.1	127.9	8	105	100	-2 / 2	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
79	Street Subgrade: Beebalm Ave, West side, sta 31+31.13							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
80	City Sidewalk Subgrade: North bound 63' E from intersection Scarlet Sage and Beebalm Ave.							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
81	City Sidewalk Subgrade: North bound 150' E from intersection Scarlet Sage and Beebalm Ave.							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 81: As requested by D.R. Horton, a site visit was made to observe and test street and city sidewalk subgrade. The subgrade was prepared prior to our arrival. Dan Aragon with Benesch and Thoutt Brothers was informed of the failing test results. Dan with Benesch informed us the concrete will be rejected.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000032
06/24/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
85		06/24/22	5	698A	SC	13.5	114.5	12.4	114.0	128.1	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
85	Cancelled on Site: Street subgrade							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 85: As requested by Dan with D.R. Horton, a site visit was made to observe and test street subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000033

06/27/2022

Report Date: 07/13/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remark
86	79	06/27/22	4	ASTM D698B	SC	12.0	118.5	11.5	118.7	132.4	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
86	Street Subgrade: Beebalm Ave, West side, sta 31+31.13							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 86: As requested by Dan with MMM, a site visit was made to observe and test street subgrade. During our visit we spoke with Eric with MMM informing him the test failed due to moisture. The contractor elected to resolve the issue at a later date.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000034
07/11/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
88		07/11/22	11	698C	BC	6.5	133.5	2.8	128.3	131.9	6	96	95	-2 / 2	B
89		07/11/22	11	698C	BC	6.5	133.5	2.4	132.9	136.1	6	100	95	-2 / 2	B
90		07/11/22	11	698C	BC	6.5	133.5	2.6	133.3	136.7	6	100	95	-2 / 2	B
91		07/11/22	11	698C	BC	6.5	133.5	3.6	123.7	128.1	6	93	95	-2 / 2	B
92		07/11/22	11	698C	BC	6.5	133.5	3.7	128.7	133.4	6	96	95	-2 / 2	B
93		07/11/22	11	698C	BC	6.5	133.5	4.0	130.4	135.6	6	98	95	-2 / 2	B
94		07/11/22	11	698C	BC	6.5	133.5	3.0	124.9	128.7	6	94	95	-2 / 2	B
95		07/11/22	11	698C	BC	6.5	133.5	3.5	132.4	137.1	6	99	95	-2 / 2	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
88	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 400' on West side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
89	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 200' on West side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
90	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 200' on East side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
91	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 600' on West side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
92	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 750' on West side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
93	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 900' on West side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
94	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 900' on East side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
95	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 750' on East side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000034
07/11/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
96		07/11/22	11	698C	BC	6.5	133.5	3.9	119.2	123.9	6	89	95	-2 / 2	B
97		07/11/22	11	698C	BC	6.5	133.5	4.5	128.4	134.2	6	96	95	-2 / 2	A
98		07/11/22	11	698C	BC	6.5	133.5	3.4	126.9	131.2	6	95	95	-2 / 2	B
99		07/11/22	11	698C	BC	6.5	133.5	3.4	123.0	127.2	6	92	95	-2 / 2	B
100		07/11/22	11	698C	BC	6.5	133.5	3.6	126.1	130.6	6	94	95	-2 / 2	B
101		07/11/22	11	698C	BC	6.5	133.5	3.2	123.2	127.1	6	92	95	-2 / 2	B
102		07/11/22	11	698C	BC	6.5	133.5	3.8	125.4	130.2	6	94	95	-2 / 2	B
103		07/11/22	11	698C	BC	6.5	133.5	4.1	126.4	131.6	6	95	95	-2 / 2	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
96	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 600' on East side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
97	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 450' on East side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
98	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 250' on East side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
99	Curb and Gutter Subgrade: From intersection of Beebalm Ave and Beebalm Loop, North 50' on East side of road							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
100	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 50' East on South side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
101	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 250' East on South side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
102	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 450' East on South side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
103	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 650' East on South side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
A: Test results comply with specifications.															

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000034
07/11/2022
Report Date: 07/13/2022
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-340
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remarks
104		07/11/22	11	698C	BC	6.5	133.5	3.5	123.5	127.8	6	93	95	-2 / 2	B
105		07/11/22	11	698C	BC	6.5	133.5	3.1	122.7	126.5	6	92	95	-2 / 2	B
106		07/11/22	11	698C	BC	6.5	133.5	3.1	129.1	133.1	6	97	95	-2 / 2	B
107		07/11/22	11	698C	BC	6.5	133.5	3.2	127.7	131.8	6	96	95	-2 / 2	B
108		07/11/22	11	698C	BC	6.5	133.5	4.0	120.8	125.6	6	90	95	-2 / 2	B
109		07/11/22	11	698C	BC	6.5	133.5	3.2	118.8	122.6	6	89	95	-2 / 2	B
110		07/11/22	11	698C	BC	6.5	133.5	3.4	124.9	129.1	6	94	95	-2 / 2	B
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
104	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 850' East on South side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
105	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 850' East on North side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
106	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 650' East on North side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
107	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 450' East on North side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
108	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 250' East on North side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
109	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 200' East on North side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
110	Curb and Gutter Subgrade: From intersection of Alpine Phlox Lane and Field Mint Point, 50' East on North side of street							0.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Koike, Tomoyuki	
Remarks					Comments										
B: Test results do not comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 110: As requested by Thoutt Bros Concrete, a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival. The contractor was informed of the failing test results. Andrew with Thoutt Bros acknowledged the failing test results and opted to pour the curb and gutter over the failing subgrade.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000035

06/24/2022

Report Date: 08/08/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
82		06/24/22	5	698A	SC	13.5	114.5	11.8	114.0	127.5	8	100	100	-2 / 2	A
83		06/24/22	1	ASTM D698C	SC	10.5	122.0	8.6	125.3	136.1	8	103	100	-2 / 2	A
84		06/24/22	14	ASTM D698A	SC	11.0	120.5	10.0	120.8	132.9	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
82	City Sidewalk Subgrade: North bound 200' E from intersection Scarlet Sage and Beebalm Ave.							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
83	City Sidewalk Subgrade: North bound 250' E from intersection Scarlet Sage and Beebalm Ave.							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
84	City Sidewalk Subgrade: North bound 261' E from intersection Scarlet Sage and Beebalm Ave.							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 84: As requested by Thoutt Bros Concrete, a site visit was made to observe and test city sidewalk subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000036

06/29/2022

Report Date: 08/08/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
87		06/29/22	11	698C	BC	6.5	133.5	6.6	126.4	134.8	6	95	95	-2 / 2	E
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
87	Informational Testing: Curb and Gutter Subgrade						1.0	BG		TROXLER / 3430 / 33971 / 03/31/2022			Harder, Matthew		
Remarks					Comments										
E: Test number for data entry purposes only.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 87: As requested by Dan with MMM, a site visit was made to perform informational testing on curb and gutter subgrade. The contractor was informed of the test results.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000037
07/12/2022
Report Date: 08/08/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
111		07/12/22	22		RC	11.0	128.0	10.3	127.6	140.7	8	100	100	-2 / 2	A
112		07/12/22	22		RC	11.0	128.0	9.7	127.5	139.9	8	100	100	-2 / 2	A
113		07/12/22	22		RC	11.0	128.0	10.0	127.4	140.2	8	100	100	-2 / 2	A
114		07/12/22	22		RC	11.0	128.0	10.5	127.6	141.0	8	100	100	-2 / 2	A
115		07/12/22	22		RC	11.0	128.0	9.9	127.6	140.2	8	100	100	-2 / 2	A
116		07/12/22	3	ASTM D698B	SC	12.5	117.0	12.2	116.6	130.8	8	100	100	-2 / 2	A
117		07/12/22	3	ASTM D698B	SC	12.5	117.0	11.5	116.9	130.3	8	100	100	-2 / 2	A
118		07/12/22	3	ASTM D698B	SC	12.5	117.0	11.9	117.2	131.1	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
111	Curb and Gutter Subgrade: Adjacent to Lot 8, block 1						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
112	Curb and Gutter Subgrade: Adjacent to Lot 10, block 1						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
113	Curb and Gutter Subgrade: Adjacent to Lot 6, block 3						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
114	Curb and Gutter Subgrade: Adjacent to Lot 3, block 3						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
115	Curb and Gutter Subgrade: N side Adjacent to Lot 17, block 3						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
116	Sidewalk Subgrade: SE corner of W intersection at Beebalm Loop and Beebalm Ave						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
117	Sidewalk Subgrade: SW corner of W intersection at Beebalm Loop and Beebalm Ave						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
118	Sidewalk Subgrade: SW corner of E intersection at Beebalm Loop and Beebalm Ave						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 118: As requested by Thoutt Brothers Concrete, a site visit was made to observe and test curb and gutter and sidewalk subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000038

07/18/2022

Report Date: 08/08/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
119		07/18/22	7	698A	CL	16.5	107.5	18.6	105.0	124.5	8	98	95	0 / 4	E
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
119	Cancelled on Site: Subgrade at Alpine Phlox Ln. and Field Mint Ave.							1.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Harder, Matthew	
Remarks					Comments										
E: Test number for data entry purposes only.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 119: As requested by JBS Pipeline, a site visit was made to observe and test subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000039
08/19/2022
Report Date: 09/12/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
126		08/19/22	22		RC	11.0	128.0	10.3	127.4	140.5	8	100	100	-2 / 2	A
127		08/19/22	22		RC	11.0	128.0	9.6	127.6	139.8	8	100	100	-2 / 2	A
128		08/19/22	22		RC	11.0	128.0	10.2	127.6	140.6	8	100	100	-2 / 2	A
129		08/19/22	22		RC	11.0	128.0	10.5	127.8	141.2	8	100	100	-2 / 2	A
130		08/19/22	22		RC	11.0	128.0	9.9	127.6	140.2	8	100	100	-2 / 2	A
131		08/19/22	22		RC	11.0	128.0	10.3	128.1	141.3	8	100	100	-2 / 2	A
132		08/19/22	22		RC	11.0	128.0	10.5	128.5	142.0	8	100	100	-2 / 2	A
133		08/19/22	22		RC	11.0	128.0	10.4	128.3	141.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
126	Curb and Gutter Subgrade: NW corner of W intersection at Beebalm Loop and Beebalm Ave						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
127	Curb and Gutter Subgrade: NE corner of W intersection at Beebalm Loop and Beebalm Ave						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
128	Curb and Gutter Subgrade: W curb of intersection at Alpine Phlox Ln and Field Mint Pt						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
129	Curb and Gutter Subgrade: W curb of intersection at Alpine Phlox Ln and Field Mint Pt						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
130	Curb and Gutter Subgrade: W curb of intersection at Alpine Phlox Ln and Field Mint Pt						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
131	Curb and Gutter Subgrade: SE corner of intersection at Alpine Phlox Ln and Field Mint Pt						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
132	Curb and Gutter Subgrade: NE corner of intersection at Alpine Phlox Ln and Field Mint Pt						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
133	Curb and Gutter Subgrade: SE corner of parking loop located N of Scarlett Sage and Beebalm Ave						0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000039

08/19/2022

Report Date: 09/12/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
134		08/19/22	22		RC	11.0	128.0	10.1	128.2	141.1	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
134	Curb and Gutter Subgrade: NE corner of parking loop located N of Scarlett Sage and Beebalm Ave							0.0	BG		XPLOER / 3500 / 2418 / 05/03/2022			Abbott, Bay	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 134: As requested by Thoutt, a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000040
08/25/2022
Report Date: 09/12/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
120		08/25/22	6	698A	SC	11.0	120.5	9.7	124.3	136.4	8	103	100	-2 / 2	A
121		08/25/22	6	698A	SC	11.0	120.5	13.0	120.9	136.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
120	Sidewalk Subgrade: Fieldmint Pt, STA 11+50						0.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Talbert, Kimberly		
121	Sidewalk Subgrade: Fieldmint Pt, STA 11+75						0.0	BG		XPLOER / 3500 / 3404 / 12/13/2021			Talbert, Kimberly		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 121: As requested by Thoutt Bros Concrete, a site visit was made to observe and test sidewalk subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000041

08/26/2022

Report Date: 09/12/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
122		08/26/22	6	698A	SC	11.0	120.5	10.0	120.0	132.0	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
122	Cancelled on Site: Alpine Plox Lane & Beebalm Trial						0.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 122: As requested by Thoutt Bros Concrete with D.R. Horton, site visits were made to observe and test subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000042

08/29/2022

Report Date: 09/12/2022

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
123		08/29/22	22		RC	11.0	128.0	9.0	127.5	139.0	8	100	100	-2 / 2	A
124		08/29/22	22		RC	11.0	128.0	9.1	128.0	139.7	8	100	100	-2 / 2	A
125		08/29/22	22		RC	11.0	128.0	9.2	127.7	139.4	8	100	100	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
123	Curb and Gutter Subgrade: Fieldmint Pt, STA 11+50, N side of street	0.0	BG	XPLOER / 3500 / 3404 / 12/13/2021	Talbert, Kimberly
124	Curb and Gutter Subgrade: Fieldmint Pt, STA 11+75, N side of street	0.0	BG	XPLOER / 3500 / 3404 / 12/13/2021	Talbert, Kimberly
125	Curb and Gutter Subgrade: Fieldmint Pt, STA 12+00, N side of street	0.0	BG	XPLOER / 3500 / 3404 / 12/13/2021	Talbert, Kimberly

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
125: As requested by Thoutt Bros, a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000043
09/16/2022
Report Date: 10/10/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
135		09/16/22	5	698A	SC	13.5	114.5	12.6	114.6	129.0	8	100	100	-2 / 2	A
136		09/16/22	5	698A	SC	13.5	114.5	12.9	114.1	128.8	8	100	100	-2 / 2	A
137		09/16/22	5	698A	SC	13.5	114.5	12.4	114.9	129.1	8	100	100	-2 / 2	A
138		09/16/22	5	698A	SC	13.5	114.5	12.9	114.7	129.5	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
135	Street Subgrade: Alpine Phlox Ln, in front of lot 12							3.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
136	Street Subgrade: Alpine Phlox Ln, in front of lot 12							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
137	Street Subgrade: Alpine Phlox Ln, in front of lot 2							3.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
138	Street Subgrade: Alpine Phlox Ln, in front of lot 2							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 138: As requested by Javier with JBS, a site visit was made to observe and test street subgrade. We observed the contractor place fill with the loader, add moisture with the water hose attached to the fire hydrant, and apply compactive effort by the mini excavator and the loader traffic.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000044
09/23/2022
Report Date: 10/10/2022
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-340
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
139		09/23/22	5	698A	SC	13.5	114.5	11.9	114.7	128.4	8	100	100	-2 / 2	A
140		09/23/22	5	698A	SC	13.5	114.5	12.3	114.0	128.0	8	100	100	-2 / 2	A
141		09/23/22	5	698A	SC	13.5	114.5	11.7	114.3	127.7	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
139	Street Subgrade: Alpine Phlox in middle of street between Block 1, lot 1 and block 3, lot 7							4.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
140	Street Subgrade: Alpine Phlox in middle of street between Block 1, lot 1 and block 3, lot 7							2.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
141	Street Subgrade: Alpine Phlox in middle of street between Block 1, lot 1 and block 3, lot 7							0.0	BG		XPLOER / 3500 / 1990 / 06/17/2022			Manzanero, Bianca	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 141: As requested by Javier with JBS, a site visit was made to observe and test street subgrade. We observed the contractor place fill with the excavator, add moisture with the water hose attached to the hydrant, and apply compactive effort by the excavator with the sheepsfoot attachment										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000045
10/10/2022
Report Date: 10/17/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
142		10/10/22	11	698C	BC	6.5	133.5	4.6	129.2	135.1	8	97	95	-2 / 2	A
143		10/10/22	11	698C	BC	6.5	133.5	5.6	127.6	134.8	8	96	95	-2 / 2	A
144		10/10/22	11	698C	BC	6.5	133.5	5.1	133.1	139.9	8	100	95	-2 / 2	A
145		10/10/22	11	698C	BC	6.5	133.5	5.5	135.0	142.4	8	101	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
142	Sample Pick-up: Alpine Phlox Ln and Field Mint Pt.							0.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya	
143	Street Subgrade: Curb gutter at Field Mint Ave. STA: 20+00.							0.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya	
144	Street Subgrade: Cross pan at Field Mint Pt.							0.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya	
145	Street Subgrade: Radius at Field Mint Pt.							0.0	BG		XPLOER / 3500 / 3392 / 02/14/2022			Said, Sadiya	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 145: As requested by Thoutt Bros Concrete with D.R. Horton, site visits were made to observe and test street subgrade. We observed the contractor place fill with the loader, add moisture with the water truck, and apply compactive effort with the jumping jack. We obtained two samples and delivered them to our lab for gradation analysis.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000046
10/11/2022
Report Date: 11/04/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
146		10/11/22	11	698C	BC	6.5	133.5	4.8	128.1	134.3	8	96	95	-2 / 2	A
147		10/11/22	11	698C	BC	6.5	133.5	4.7	132.4	138.6	8	99	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
146	Crossspan: SE corner of Field Mint Avenue and Crownvetch Circle						0.0	BG		XPLOER / 3500 / 2025 / 01/10/2022			Fiore, Shayne		
147	Crossspan: NE corner of Field Mint Avenue and Crownvetch Circle						0.0	BG		XPLOER / 3500 / 2025 / 01/10/2022			Fiore, Shayne		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 147: As requested by Joanne with Thoutt Bros, a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000047

10/12/2022

Report Date: 11/04/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks	
148		10/12/22	1	ASTM D698C	SC	10.5	122.0	9.8	123.0	135.0	3	101	100	-2 / 2	A	
Test Information																
Test #	Test Location							Elevation	Reference			Gauge Make / Model / SN / Calibrated			Field Technician	
148	Cancelled on Site: Various subgrade								BG			XPLOER / 3500 / 1987 / 06/30/2022			Sleight, Jared	
Remarks					Comments											
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 148: As requested by Thoutt Bros, a site visit was made to observe and test various subgrade. Testing was cancelled on site.											



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000048

10/18/2022

Report Date: 11/04/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
149		10/18/22	1	ASTM D698C	SC	10.5	122.0	9.9	121.4	133.4	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
149	Cancelled on Site: Street subgrade							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 149: As requested by Erik with Martin Marietta, a site visit was made to observe and test street subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000049
10/25/2022
Report Date: 11/14/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
150		10/25/22	22		RC	11.0	128.0	9.1	127.6	139.2	8	100	100	-2 / 2	A
151		10/25/22	22		RC	11.0	128.0	9.4	127.6	139.6	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
150	Curb and Gutter Subgrade: Field Mint Point, STA: 12+50, N side of street						0.0	BG		XPLOER / 3500 / 3403 / 01/26/2022			Kramer, Quinn		
151	Curb and Gutter Subgrade: Field Mint Point, STA: 13+50, N side of street						0.0	BG		XPLOER / 3500 / 3403 / 01/26/2022			Kramer, Quinn		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 151: As requested by Thoutt Bros, a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000050

11/14/2022

Report Date: 12/13/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
152		11/14/22	11	698C	BC	6.5	133.5	5.3	133.0	140.0	8	100	95	-2 / 2	E
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
152	Cancelled on Site: Street subgrade						0.0	BG		XPLOER / 3500 / 3385 / 01/26/2018			Lonnquist, Michael		
Remarks					Comments										
E: Test number for data entry purposes only.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 152: As requested by Eric with Martin Marietta, a site visit was made to observe and test street subgrade. Testing was cancelled on site due to inclement weather.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000051
11/21/2022
Report Date: 12/13/2022
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-340
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
153		11/21/22	11	698C	BC	6.5	133.5	5.6	127.7	134.8	8	96	95	-2 / 2	A
154		11/21/22	11	698C	BC	6.5	133.5	7.5	129.1	138.8	8	97	95	-2 / 2	A
155		11/21/22	5	698A	SC	13.5	114.5	8.0	106.1	114.6	8	93	100	-2 / 2	B
156		11/21/22	5	698A	SC	13.5	114.5	12.1	109.6	122.9	8	96	100	-2 / 2	B
157		11/21/22	11	698C	BC	6.5	133.5	5.5	129.7	136.8	8	97	95	-2 / 2	A
158		11/21/22	11	698C	BC	6.5	133.5	6.8	128.2	136.9	8	96	95	-2 / 2	A
159		11/21/22	11	698C	BC	6.5	133.5	5.4	128.9	135.9	8	97	95	-2 / 2	A
160		11/21/22	11	698C	BC	6.5	133.5	7.1	127.4	136.4	8	95	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
153	Curb and Gutter Subgrade: Beeblam Ave. Sta 31+00, E curb							0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
154	Curb and Gutter Subgrade: Beeblam Ave. Sta 32+00, E curb							0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
155	Sidewalk Subgrade: Alpine Phlox Ln. STA 24+00 E side.							0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
156	Sidewalk Subgrade: Field Mint Pt. STA 11+00 S side.							0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
157	Curb and Gutter Subgrade: Field Mint Pt. STA 11+00 S side.							0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
158	Curb and Gutter Subgrade: Field Mint Pt. STA 11+00 N side.							0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
159	Curb and Gutter Subgrade: Field Mint Pt. STA 13+00 N side.							0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
160	Curb and Gutter Subgrade: Field Mint Pt. STA 15+00 N side.							0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
B: Test results do not comply with specifications.					160: As requested by Eric with Martin Marietta, a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival. The contractor was notified of the failing test results and stated they will rework the fill.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000052
11/22/2022
Report Date: 12/13/2022
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
161	155	11/22/22	5	698A	SC	13.5	114.5	12.9	110.5	124.7	8	97	100	-2 / 2	B
162	156	11/22/22	5	698A	SC	13.5	114.5	12.7	110.5	124.5	8	97	100	-2 / 2	B
163		11/22/22	2	ASTM D698C	SC	10.5	121.0	9.4	121.9	133.4	8	101	100	-2 / 2	A
164		11/22/22	2	ASTM D698C	SC	10.5	121.0	9.6	121.3	132.9	8	100	100	-2 / 2	A
165		11/22/22	11	698C	BC	6.5	133.5	4.6	127.0	132.8	4	95	95	-2 / 2	A
166		11/22/22	11	698C	BC	6.5	133.5	4.7	129.0	135.0	4	97	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
161	Sidewalk Subgrade: Alpine Phlox Ln. STA 24+00 E side.							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
162	Sidewalk Subgrade: Field Mint Pt. STA 11+00 S side.							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
163	Street Subgrade: Beebalm Ave. Sta 30+00 E side							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
164	Street Subgrade: Beebalm Ave. Sta 30+00 W side							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
165	Street Subgrade: Beebalm Ave. Sta 30+10 W side Roadbase course							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
166	Street Subgrade: Beebalm Ave. Sta 30+20 E side Roadbase course							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
Remarks					Comments										
B: Test results do not comply with specifications. A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
					166: As requested by Thoutt Bros and Eric with Martin Marietta, site visits were made to observe and test sidewalk, curb, gutter, and street subgrade. We observed the contractor place and process fill with the blade, add moisture with the water wagon, and apply compactive effort with the steel drum roller. The sidewalk, curb and gutter subgrade was prepared prior to our arrival. We discussed low moisture readings with the foreman, the contractor will rework the fill. The contractor was notified of the failing test results.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000053

11/23/2022

Report Date: 12/13/2022

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remark
167	161	11/23/22	5	698A	SC	13.5	114.5	12.6	115.4	129.9	8	101	100	-2 / 2	A
168		11/23/22	5	698A	SC	13.5	114.5	12.8	115.4	130.2	8	101	100	-2 / 2	A
169	162	11/23/22	5	698A	SC	13.5	114.5	12.2	115.7	129.8	8	101	100	-2 / 2	A
170		11/23/22	5	698A	SC	13.5	114.5	12.4	115.6	129.9	8	101	100	-2 / 2	A
171		11/23/22	5	698A	SC	13.5	114.5	12.1	115.8	129.8	8	101	100	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
167	Sidewalk Subgrade: Alpine Phlox Ln. STA 24+00 E side.	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
168	Sidewalk Subgrade: Alpine Phlox Ln. STA 22+00 E side.	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
169	Sidewalk Subgrade: Field Mint Pt. STA 11+00 S side.	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
170	Sidewalk Subgrade: Field Mint Pt. STA 13+00 S side.	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
171	Sidewalk Subgrade: Field Mint Pt. STA 15+00 S side.	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael

Remarks

Comments

A: Test results comply with specifications.

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

171: As requested by Andrew with Thoutt Bros., a site visit was made to observe and test sidewalk subgrade. We observed the contractor place and process fill with the blade, add moisture with the water wagon, and apply compactive effort with the loaded loader traffic.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000054
11/28/2022
Report Date: 12/13/2022
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
172		11/28/22	2	ASTM D698C	SC	10.5	121.0	11.6	121.3	135.4	8	100	100	-2 / 2	A
173		11/28/22	2	ASTM D698C	SC	10.5	121.0	11.7	121.1	135.3	8	100	100	-2 / 2	A
174		11/28/22	2	ASTM D698C	SC	10.5	121.0	12.1	121.4	136.1	8	100	100	-2 / 2	A
175		11/28/22	2	ASTM D698C	SC	10.5	121.0	9.3	122.7	134.1	8	101	100	-2 / 2	A
176		11/28/22	2	ASTM D698C	SC	10.5	121.0	9.3	122.7	134.1	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
172	Sidewalk Subgrade: Field Mint Pt. Sta 13+00. N sidewalk						0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
173	Sidewalk Subgrade: Field Mint Pt. Sta 15+00. N sidewalk						0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
174	Sidewalk Subgrade: Alpine Phlox Ave. 20+50 W sidewalk						0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
175	Sidewalk Subgrade: Alpine Phlox Ave. Sta 22+50 W sidewalk						0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
176	Sidewalk Subgrade: Alpine Phlox Ave. Sta 24+50 W sidewalk						0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 176: As requested by Andrew with Thoutt Bros., a site visit was made to observe and test sidewalk subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000055
11/30/2022
Report Date: 01/03/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
177		11/30/22	11	698C	BC	6.5	133.5	6.1	132.0	140.0	4	99	95	-2 / 2	A
178		11/30/22	11	698C	BC	6.5	133.5	6.1	130.6	138.6	4	98	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
177	Curb and Gutter Subgrade: Sta 16+25 Field Mint Pt. N curb						0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
178	Curb and Gutter Subgrade: Sta 14+25 Field Mint Pt. N Curb						0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 178: As requested by Andrew with Thoutt Bros, a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000056

12/01/2022

Report Date: 01/03/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
179		12/01/22	11	698C	BC	6.5	133.5	5.1	126.7	133.2	4	95	95	-2 / 2	A
180		12/01/22	11	698C	BC	6.5	133.5	5.2	126.2	132.8	4	95	95	-2 / 2	A
181		12/01/22	11	698C	BC	6.5	133.5	5.0	126.8	133.1	4	95	95	-2 / 2	A
182		12/01/22	11	698C	BC	6.5	133.5	4.7	126.8	132.8	4	95	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
179	Curb and Gutter Subgrade: Sta 11+00 Field Mint Pt. N Curb						0.0	BG		XPLOER / 3500 / 3385 / 01/26/2018			Lonnquist, Michael		
180	Curb and Gutter Subgrade: Sta 11+00 Field Mint Pt. S Curb						0.0	BG		XPLOER / 3500 / 3385 / 01/26/2018			Lonnquist, Michael		
181	Curb and Gutter Subgrade: Sta 20+50 Alpine Phlox Ave. E Curb						0.0	BG		XPLOER / 3500 / 3385 / 01/26/2018			Lonnquist, Michael		
182	Curb and Gutter Subgrade: Sta 21+50 Alpine Phlox Ave. E Curb						0.0	BG		XPLOER / 3500 / 3385 / 01/26/2018			Lonnquist, Michael		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 182: As requested by Andrew with Thoutt Bros., a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000057

12/02/2022

Report Date: 01/03/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
183		12/02/22	5	698A	SC	13.5	114.5	14.3	114.4	130.8	4	100	100	-2 / 2	A
184		12/02/22	5	698A	SC	13.5	114.5	11.8	114.7	128.2	4	100	100	-2 / 2	A
185		12/02/22	11	698C	BC	6.5	133.5	10.1	104.3	114.8	4	78	95	-2 / 2	B
186		12/02/22	11	698C	BC	6.5	133.5	9.4	106.4	116.4	4	80	95	-2 / 2	B

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
183	Curb and Gutter Subgrade: NE corner ramp of Alpine Phlox Ave. and Field Mint Pt.	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
184	Curb and Gutter Subgrade: SE corner ramp of Alpine Phlox Ave. and Field Mint Pt.	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
185	Curb and Gutter Subgrade: SE corner ramp of Alpine Phlox Ave. and Field Mint Pt. Base course	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
186	Curb and Gutter Subgrade: NE corner ramp of Alpine Phlox Ave. and Field Mint Pt. Base course	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael

Remarks	Comments
A: Test results comply with specifications. B: Test results do not comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 186: As requested by Andrew with Thoutt Bros., a site visit was made to observe and test sidewalk, curb and gutter subgrade. We observed the contractor scarify the subgrade and add moisture and compactive effort to the fill with the loaded loader. The contractor was notified of the failing tests results.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000058

12/05/2022

Report Date: 01/16/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
187	185	12/05/22	11	698C	BC	6.5	133.5	5.8	133.4	141.2	4	100	95	-2 / 2	A
188	186	12/05/22	11	698C	BC	6.5	133.5	6.4	132.8	141.3	4	99	95	-2 / 2	A
189		12/05/22	3	ASTM D698B	SC	12.5	117.0	10.8	117.7	130.4	8	101	100	-2 / 2	A
190		12/05/22	3	ASTM D698B	SC	12.5	117.0	11.1	116.6	129.5	8	100	100	-2 / 2	A
191		12/05/22	3	ASTM D698B	SC	12.5	117.0	11.5	117.0	130.5	8	100	100	-2 / 2	A
192		12/05/22	3	ASTM D698B	SC	12.5	117.0	10.8	116.8	129.4	8	100	100	-2 / 2	A
193		12/05/22	3	ASTM D698B	SC	12.5	117.0	10.6	116.5	128.9	8	100	100	-2 / 2	A
194		12/05/22	3	ASTM D698B	SC	12.5	117.0	10.9	116.7	129.4	8	100	100	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
187	Curb and Gutter Subgrade: SE corner ramp of Alpine Phlox Ave. and Field Mint Pt. Base course	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
188	Curb and Gutter Subgrade: NE corner ramp of Alpine Phlox Ave. and Field Mint Pt. Base course	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
189	Sidewalk Subgrade: Alpine Phlox Ave. sidewalk sta 20+00 E side	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
190	Sidewalk Subgrade: Alpine Phlox Ave. sidewalk sta 22+00 E side	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
191	Sidewalk Subgrade: Field Mint Pt. sidewalk sta 10+50 N side	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
192	Sidewalk Subgrade: Field Mint Pt. sidewalk sta 10+50 S side	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
193	Sidewalk Subgrade: Beebalm Ave sidewalk sta 31+00 W side	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael
194	Sidewalk Subgrade: Beebalm Ave sidewalk sta 32+50 W side	0.0	BG	XPLOER / 3500 / 3187 / 05/16/2022	Lonnquist, Michael

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 194: As requested by Andrew with Thoutt Bros., a site visit was made to observe and test sidewalk, curb, and gutter subgrade. The subgrade was prepared prior to our arrival.

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000059

12/06/2022

Report Date: 01/16/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
195		12/06/22	3	ASTM D698B	SC	12.5	117.0	11.1	117.0	130.0	8	100	100	-2 / 2	E
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
195	Cancelled on Site: Sidewalk subgrade							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
Remarks					Comments										
E: Test number for data entry purposes only.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 195: As requested by Mike with D.R. Horton, a site visit was made to observe and test sidewalk subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000060

03/15/2023

Report Date: 04/10/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
196		03/15/23	6	698A	SC	11.0	120.5	11.2	120.1	133.6	8	100	100	-2 / 2	A
197		03/15/23	1	ASTM D698C	SC	10.5	122.0	11.6	121.6	135.7	8	100	100	-2 / 2	A
198		03/15/23	6	698A	SC	11.0	120.5	10.0	120.1	132.1	8	100	100	-2 / 2	A
199		03/15/23	4	ASTM D698B	SC	12.0	118.5	11.0	118.4	131.4	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
196	Sidewalk Subgrade: Sidewalk at radius at the NE corner of intersection at Beebalm Avenue and Alpine Phlox Lane						1.0	BG		XPLOER / 3500 / 3381 / 01/26/2023			Collins, William		
197	Sidewalk Subgrade: Sidewalk at radius at the NW corner of intersection at Beebalm Avenue and Alpine Phlox Lane						1.0	BG		XPLOER / 3500 / 3381 / 01/26/2023			Collins, William		
198	Sidewalk Subgrade: Sidewalk at radius at the NE corner of intersection at Beebalm Avenue and Alpine Phlox Lane						0.0	BG		XPLOER / 3500 / 3381 / 01/26/2023			Collins, William		
199	Sidewalk Subgrade: Sidewalk at radius at the NW corner of intersection at Beebalm Avenue and Alpine Phlox Lane						0.0	BG		XPLOER / 3500 / 3381 / 01/26/2023			Collins, William		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 199: As requested by Mike with D.R. Horton, site visits were made to observe and test sidewalk subgrade. We observed the contractor place fill with the mini excavator and apply compactive effort with the jumping jack.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000061
03/23/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
200		03/23/23	2	ASTM D698C	SC	10.5	121.0	11.3	121.3	135.0	6	100	100	-2 / 2	A
201		03/23/23	4	ASTM D698B	SC	12.0	118.5	10.7	118.0	130.6	6	100	100	-2 / 2	A
202		03/23/23	5	698A	SC	13.5	114.5	12.1	114.3	128.1	6	100	100	-2 / 2	A
203		03/23/23	6	698A	SC	11.0	120.5	12.7	120.8	136.1	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
200	Sidewalk Subgrade: NE corner Beebalm Ave and Beebalm Loop, 5'ft NE of fire hydrant						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
201	Sidewalk Subgrade: NW corner Beebalm Ave and Beebalm Loop						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
202	Sidewalk Subgrade: E side sidewalk, 80'ft S of Beebalm Ave and Field Mint Point						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
203	Informational Testing: Street subgrade, Field Mint Pt, STA 16+00						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 202: As requested by Andrew with Thoutt Bros Concrete, a site visit was made to observe and test sidewalk subgrade. The subgrade was prepared prior to our arrival. 203: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The contractor requested informational testing; the contractor was informed of the results.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000062
03/24/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
204		03/24/23	2	ASTM D698C	SC	10.5	121.0	11.0	120.4	133.6	8	100	100	-2 / 2	A
205		03/24/23	2	ASTM D698C	SC	10.5	121.0	10.0	121.6	133.8	8	100	100	-2 / 2	A
206		03/24/23	2	ASTM D698C	SC	10.5	121.0	10.0	121.6	133.7	8	100	100	-2 / 2	A
207		03/24/23	2	ASTM D698C	SC	10.5	121.0	9.4	121.2	132.6	8	100	100	-2 / 2	A
208		03/24/23	2	ASTM D698C	SC	10.5	121.0	9.7	121.4	133.2	8	100	100	-2 / 2	A
209		03/24/23	2	ASTM D698C	SC	10.5	121.0	11.4	121.5	135.3	8	100	100	-2 / 2	A
210		03/24/23	2	ASTM D698C	SC	10.5	121.0	10.8	121.4	134.5	8	100	100	-2 / 2	A
211		03/24/23	2	ASTM D698C	SC	10.5	121.0	9.0	121.3	132.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
204	Street Subgrade: N side Field Mint Pt, STA 15+20						0.5	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
205	Street Subgrade: S side Field Mint Pt, STA 13+50						0.5	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
206	Street Subgrade: N side Field Mint Pt, STA 11+60						0.5	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
207	Street Subgrade: S side Field Mint Pt, STA 10+75						0.5	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
208	Street Subgrade: S side of Field Mint Pt, STA 11+00						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
209	Street Subgrade: N side of Field Mint Pt, STA 12+00						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
210	Street Subgrade: N side of Field Mint Pt, STA 14+00						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
211	Street Subgrade: S side of Field Mint Pt, STA 15+50						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000062
03/24/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
212		03/24/23	2	ASTM D698C	SC	10.5	121.0	10.1	121.3	133.6	8	100	100	-2 / 2	A
213		03/24/23	2	ASTM D698C	SC	10.5	121.0	10.5	121.4	134.2	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
212	Street Subgrade: W side of Beebalm Ave, STA 30+30						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
213	Street Subgrade: E side of Beebalm Ave, STA 32+00						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 213: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000063
03/25/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
214		03/25/23	1	ASTM D698C	SC	10.5	122.0	10.7	122.0	135.0	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
214	Cancelled on Site: Street subgrade						0.0	BG		XPLOER / 3500 / 2415 / 09/22/2022			Haynes, Donovan		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 214: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. Testing was cancelled on site due to inclement weather.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000064

03/30/2023

Report Date: 04/10/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
215		03/30/23	2	ASTM D698C	SC	10.5	121.0	12.2	120.5	135.2	6	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
215	Informational Testing: Street subgrade, Black Sedge Circle, STA 12+00							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										
					215: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival. Only informational tests were requested. We took 7 tests for informational purposes only. The contractor was informed of the test results.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000065
03/31/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
216		03/31/23	1	ASTM D698C	SC	10.5	122.0	9.0	122.5	133.5	6	100	100	-2 / 2	A
217		03/31/23	1	ASTM D698C	SC	10.5	122.0	10.2	122.0	134.5	6	100	100	-2 / 2	A
218		03/31/23	1	ASTM D698C	SC	10.5	122.0	9.4	123.0	134.6	6	101	100	-2 / 2	A
219		03/31/23	1	ASTM D698C	SC	10.5	122.0	8.6	122.5	133.0	6	100	100	-2 / 2	A
220		03/31/23	1	ASTM D698C	SC	10.5	122.0	9.6	122.4	134.1	6	100	100	-2 / 2	A
221		03/31/23	1	ASTM D698C	SC	10.5	122.0	9.0	122.0	133.0	6	100	100	-2 / 2	A
222		03/31/23	1	ASTM D698C	SC	10.5	122.0	8.6	122.6	133.2	6	100	100	-2 / 2	A
223		03/31/23	1	ASTM D698C	SC	10.5	122.0	8.9	122.8	133.7	6	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
216	Street Subgrade: Alpine Phlox Lane, STA 19+00, W side of road						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
217	Street Subgrade: Alpine Phlox Lane, STA 20+25, E side of road						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
218	Street Subgrade: Alpine Phlox Lane, STA 22+00, E side of road						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
219	Street Subgrade: Alpine Phlox Lane, STA 23+00, W side of road						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
220	Street Subgrade: Alpine Phlox Lane, STA 24+25, E side of road						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
221	Street Subgrade: Beebalm Ave, STA 32+25, E side of road						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
222	Street Subgrade: Beebalm Ave, STA 30+25, W side of road						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
223	Street Subgrade: Beebalm Ave, STA 29+50, W side of road						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 223: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000066
04/03/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-340
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
224		04/03/23	2	ASTM D698C	SC	10.5	121.0	8.8	122.8	133.6	6	101	100	-2 / 2	A
225		04/03/23	2	ASTM D698C	SC	10.5	121.0	12.1	122.2	137.0	6	101	100	-2 / 2	A
226		04/03/23	2	ASTM D698C	SC	10.5	121.0	8.9	122.2	133.1	6	101	100	-2 / 2	A
227		04/03/23	2	ASTM D698C	SC	10.5	121.0	12.3	121.5	136.5	6	100	100	-2 / 2	A
228		04/03/23	2	ASTM D698C	SC	10.5	121.0	8.8	122.4	133.2	6	101	100	-2 / 2	A
229		04/03/23	2	ASTM D698C	SC	10.5	121.0	8.7	121.0	131.5	6	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
224	Street Subgrade: Field Mint Pt, STA 16+00, N lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
225	Street Subgrade: Field Mint Pt, STA 13+50, S lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
226	Street Subgrade: Field Mint Pt, STA 11+75, N lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
227	Street Subgrade: Beebalm Ave, STA 32+50, E lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
228	Street Subgrade: Beebalm Ave, STA 30+00, E lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
229	Street Subgrade: Beebalm Ave, STA 28+00, W lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 229: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000067
04/05/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
230		04/05/23	1	ASTM D698C	SC	10.5	122.0	10.3	121.7	134.2	6	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
230	Cancelled on Site: Street subgrade							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 230: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000068
04/06/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
231		04/06/23	11	698C	BC	6.5	133.5	6.1	133.2	141.3	4	100	95	-2 / 2	A
232		04/06/23	11	698C	BC	6.5	133.5	7.0	130.4	139.5	4	98	95	-2 / 2	A
233		04/06/23	2	ASTM D698C	SC	10.5	121.0	10.0	120.5	132.6	4	100	100	-2 / 2	A
234		04/06/23	2	ASTM D698C	SC	10.5	121.0	12.4	121.3	136.3	4	100	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
231	Curb and Gutter Subgrade: 10'ft N of storm inlet 43, Field Mint Pt and Alpine Phlox Lane.							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
232	Curb and Gutter Subgrade: 10'ft S of storm inlet 43, Field Mint Pt and Alpine Phlox Lane.							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
233	Sidewalk Subgrade: 4'ft SW of storm inlet 43, Field Mint Pt and Alpine Phlox Lane.							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
234	Cancelled on Site: Street subgrade							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 233: As requested by Jorge with Three Sons, a site visit was made to observe and test sidewalk, curb, and gutter subgrade. The subgrade was prepared prior to our arrival. 234: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000069
04/07/2023
Report Date: 04/10/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
235		04/07/23	11	698C	BC	6.5	133.5	4.6	129.3	135.3	4	97	95	-2 / 2	A
236		04/07/23	11	698C	BC	6.5	133.5	4.8	131.7	138.0	4	99	95	-2 / 2	A
237		04/07/23	50	1557A	BC	6.7	137.7	4.7	137.5	144.0	4	100	95	-2 / 2	A
238		04/07/23	50	1557A	BC	6.7	137.7	4.7	134.5	140.8	4	98	95	-2 / 2	A
239		04/07/23	50	1557A	BC	6.7	137.7	4.7	136.1	142.5	4	99	95	-2 / 2	A
240		04/07/23	50	1557A	BC	6.7	137.7	4.8	135.5	142.0	4	98	95	-2 / 2	A
241		04/07/23	50	1557A	BC	6.7	137.7	4.8	136.1	142.6	4	99	95	-2 / 2	A
242		04/07/23	50	1557A	BC	6.7	137.7	4.7	133.9	140.2	4	97	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
235	Curb and Gutter Subgrade: Alpine Phlox Lane, STA 22+50, N side						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
236	Curb and Gutter Subgrade: Alpine Phlox Lane, STA 23+25, NE side						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
237	Street Subgrade: Field Mint PT, STA 12+10, S lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
238	Street Subgrade: Field Mint PT, STA 13+25, N lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
239	Street Subgrade: Field Mint PT, STA 14+25, S lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
240	Street Subgrade: Field Mint PT, STA 15+50, N lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
241	Street Subgrade: Beebalm Ave, STA 32+25, E lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
242	Street Subgrade: Beebalm Ave, STA 30+50, W lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 236: As requested by Joanna with Thoutt Bros, a site visit was made to observe and test curb and gutter subgrade. The subgrade was prepared prior to our arrival. 242: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000070
04/11/2023
Report Date: 04/24/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
246		04/11/23	2	ASTM D698C	SC	10.5	121.0	9.1	122.4	133.5	4	101	100	-2 / 2	A
247		04/11/23	2	ASTM D698C	SC	10.5	121.0	8.6	122.1	132.6	4	101	100	-2 / 2	A
248		04/11/23	2	ASTM D698C	SC	10.5	121.0	8.5	121.8	132.1	4	101	100	-2 / 2	A
249		04/11/23	2	ASTM D698C	SC	10.5	121.0	9.0	122.8	133.8	4	101	100	-2 / 2	A
250		04/11/23	2	ASTM D698C	SC	10.5	121.0	10.0	122.7	135.0	4	101	100	-2 / 2	A
251		04/11/23	2	ASTM D698C	SC	10.5	121.0	9.9	122.2	134.3	4	101	100	-2 / 2	A
252		04/11/23	2	ASTM D698C	SC	10.5	121.0	8.8	122.8	133.6	4	101	100	-2 / 2	A
253		04/11/23	2	ASTM D698C	SC	10.5	121.0	8.5	122.8	133.2	4	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
246	Street Subgrade: Alpine Phlox Lane, STA 19+50, E lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
247	Street Subgrade: Alpine Phlox Lane, STA 19+50, W lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
248	Street Subgrade: Alpine Phlox Lane, STA 21+50, W lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
249	Street Subgrade: Alpine Phlox Lane, STA 21+75, E lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
250	Street Subgrade: Alpine Phlox Lane, STA 23+00, W lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
251	Street Subgrade: Alpine Phlox Lane, STA 23+00, E lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
252	Street Subgrade: Alpine Phlox Lane, STA 24+50, E lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
253	Street Subgrade: Alpine Phlox Lane, STA 24+50, W lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000070

04/11/2023

Report Date: 04/24/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
254		04/11/23	2	ASTM D698C	SC	10.5	121.0	8.9	122.5	133.4	6	101	100	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
254	Street Subgrade: Alpine Phlox Lane, STA 20+25, E lane							0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 254: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000071
04/13/2023
Report Date: 04/24/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
255		04/13/23	11	698C	BC	6.5	133.5	6.9	131.2	140.2	6	98	95	-2 / 2	A
256		04/13/23	11	698C	BC	6.5	133.5	4.5	132.4	138.3	6	99	95	-2 / 2	A
257		04/13/23	11	698C	BC	6.5	133.5	4.9	132.8	139.3	6	99	95	-2 / 2	A
258		04/13/23	11	698C	BC	6.5	133.5	4.5	128.7	134.5	6	96	95	-2 / 2	A
259		04/13/23	11	698C	BC	6.5	133.5	5.3	131.3	138.2	6	98	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
255	Street Subgrade: Alpine Phlox Lane at STA 19+00						0.0	BG		XPLOER / 3500 / 1994 / 05/18/2022			Fagundes, Karolyn		
256	Street Subgrade: Alpine Phlox Lane at STA 20+85, 6'ft east of west side of road						0.0	BG		XPLOER / 3500 / 1994 / 05/18/2022			Fagundes, Karolyn		
257	Street Subgrade: Alpine Phlox Lane at STA 21+50, 7'ft west of east side of road						0.0	BG		XPLOER / 3500 / 1994 / 05/18/2022			Fagundes, Karolyn		
258	Street Subgrade: Alpine Phlox Lane at STA 22+60, 7'ft east of west side of road						0.0	BG		XPLOER / 3500 / 1994 / 05/18/2022			Fagundes, Karolyn		
259	Street Subgrade: Alpine Phlox Lane at STA 23+50, 4'ft east of west side of road						0.0	BG		XPLOER / 3500 / 1994 / 05/18/2022			Fagundes, Karolyn		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 259: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000072
04/10/2023
Report Date: 05/12/2023
Test Method: ASTM D 6938

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-340
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 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. (%)	Optimum Moisture Tolerance (%)	Remark
243		04/10/23	50	1557A	BC	6.7	137.7	5.7	137.4	145.2	4	100	95	-2 / 2	A
244		04/10/23	50	1557A	BC	6.7	137.7	4.9	137.7	144.5	4	100	95	-2 / 2	A
245		04/10/23	50	1557A	BC	6.7	137.7	4.7	138.4	144.9	4	101	95	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
243	Street Subgrade: Field Mint Pt., STA 15+50, S lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
244	Street Subgrade: Field Mint Pt., STA 13+50, N lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
245	Street Subgrade: Field Mint Pt., STA 11+50, S lane						0.0	BG		XPLOER / 3500 / 2024 / 07/26/2022			Payne, Jeff		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 245: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000073

04/17/2023

Report Date: 05/12/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
260		04/17/23	11	698C	BC	6.5	133.5	4.6	130.0	136.0	8	97	95	-2 / 2	A
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
260	Cancelled on Site: Street subgrade, Bee Balm Ave							0.0	BG		XPLOER / 3500 / 3187 / 05/16/2022			Lonnquist, Michael	
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 260: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000074

04/20/2023

Report Date: 05/12/2023

Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
261		04/20/23	11	698C	BC	6.5	133.5	5.0	133.2	139.8	8	100	95	-2 / 2	A
262		04/20/23	11	698C	BC	6.5	133.5	5.3	133.9	141.0	8	100	95	-2 / 2	A
263		04/20/23	11	698C	BC	6.5	133.5	4.6	133.5	139.7	8	100	95	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
261	Street Subgrade: Beebalm Avenue, STA: 30+25, N bound lane	0.0	BG	XPLOER / 3500 / 3403 / 01/12/2023	Kramer, Quinn
262	Street Subgrade: Beebalm Avenue, STA: 31+25, S bound lane	0.0	BG	XPLOER / 3500 / 3403 / 01/12/2023	Kramer, Quinn
263	Street Subgrade: Field Mint Avenue, STA: 20+50, center of street	0.0	BG	XPLOER / 3500 / 3403 / 01/12/2023	Kramer, Quinn

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 263: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. The subgrade was prepared prior to our arrival.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000075
04/18/2023
Report Date: 05/22/2023
Test Method: ASTM D 6938

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remark
264		04/18/23	3	ASTM D698B	SC	12.5	117.0	12.4	117.2	131.7	8	100	100	-2 / 2	A
265		04/18/23	3	ASTM D698B	SC	12.5	117.0	13.4	117.2	132.9	8	100	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
264	Crossspan: Crossspan at Alpine Phlox and Beebalm Ave.						1.0	BG		XPLOER / 3500 / 3392 / 02/02/2023			Eaton, Jesse		
265	Crossspan: Crossspan at Alpine Phlox and Beebalm Ave.						1.0	BG		XPLOER / 3500 / 3392 / 02/02/2023			Eaton, Jesse		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 265: As requested by Dan with Martin Marietta, a site visit was made to observe and test crossspan subgrade. We observed the contractor add moisture to the fill with the water truck and apply compactive effort with the paver.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver

1971 West 12th Avenue

Denver, CO 80204

Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000076

04/22/2023

Report Date: 05/22/2023

Test Method: ASTM D 6938

Client:

D.R. Horton

9555 S. Kingston Court

Suite 200

Englewood, CO 80112

Project:

DN50626.004F-340

59 Lots, Trails at Crowfoot, Filing 11

East of N Pinery Pkwy and Bayou Gulch Rd

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. (%)	Optimum Moisture Tolerance (%)	Remarks
266		04/22/23	3	ASTM D698B	SC	12.5	117.0	11.1	117.0	130.0	8	100	100	-2 / 2	E
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
266	Cancelled on Site: Alpine Phlox St.							1.0	BG		XPLOER / 3500 / 1989 / 05/24/2022			Eaton, Jesse	
Remarks					Comments										
E: Test number for data entry purposes only.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 266: As requested by Dan with Martin Marietta, a site visit was made to observe and test street subgrade. Testing was cancelled on site.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000077
03/12/2023
Report Date: 05/22/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
18		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.8	117.3	131.1	8	100	100	-2 / 2	A
19		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.9	116.8	130.7	8	100	100	-2 / 2	A
20		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.6	116.6	130.1	8	100	100	-2 / 2	A
21		03/12/22	3	ASTM D698B	SC	12.5	117.0	12.6	117.6	132.4	8	101	100	-2 / 2	A
22		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.5	118.0	131.6	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
18	Dry Utilities: Center of intersection of Field Mint Avenue and Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
19	Dry Utilities: 10' N of center of intersection of Field Mint Avenue and Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
20	Dry Utilities: S side of Mint Avenue. 100' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
21	Dry Utilities: S side of Mint Avenue. 150' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
22	Dry Utilities: N side of Mint Avenue. 100' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 22: As requested by Sheryl with JBS, a site visit was made to observe and test dry utilities. We observed the contractor place fill with the front end loader, add moisture with the water truck, and apply compactive effort with the excavator using the sheepsfoot attachment. Tests were conducted at an air temperature of 46° degrees fahrenheit.										

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000078
03/12/2023
Report Date: 05/22/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
18		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.8	117.3	131.1	8	100	100	-2 / 2	A
19		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.9	116.8	130.7	8	100	100	-2 / 2	A
20		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.6	116.6	130.1	8	100	100	-2 / 2	A
21		03/12/22	3	ASTM D698B	SC	12.5	117.0	12.6	117.6	132.4	8	101	100	-2 / 2	A
22		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.5	118.0	131.6	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
18	Dry Utilities: Center of intersection of Field Mint Avenue and Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
19	Dry Utilities: 10' N of center of intersection of Field Mint Avenue and Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
20	Dry Utilities: S side of Mint Avenue. 100' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
21	Dry Utilities: S side of Mint Avenue. 150' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
22	Dry Utilities: N side of Mint Avenue. 100' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 22: As requested by Sheryl with JBS, a site visit was made to observe and test dry utilities. We observed the contractor place fill with the front end loader, add moisture with the water truck, and apply compactive effort with the excavator using the sheepsfoot attachment. Tests were conducted at an air temperature of 46° degrees fahrenheit.										



CTL THOMPSON Compaction Test Report

Founded in 1971

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: SNG-000079
03/12/2023
Report Date: 05/22/2023
Test Method: ASTM D 6938

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-340
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
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. (%)	Optimum Moisture Tolerance (%)	Remarks
18		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.8	117.3	131.1	8	100	100	-2 / 2	A
19		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.9	116.8	130.7	8	100	100	-2 / 2	A
20		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.6	116.6	130.1	8	100	100	-2 / 2	A
21		03/12/22	3	ASTM D698B	SC	12.5	117.0	12.6	117.6	132.4	8	101	100	-2 / 2	A
22		03/12/22	3	ASTM D698B	SC	12.5	117.0	11.5	118.0	131.6	8	101	100	-2 / 2	A
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
18	Dry Utilities: Center of intersection of Field Mint Avenue and Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
19	Dry Utilities: 10' N of center of intersection of Field Mint Avenue and Alpine Phlox Lane.						2.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
20	Dry Utilities: S side of Mint Avenue. 100' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
21	Dry Utilities: S side of Mint Avenue. 150' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
22	Dry Utilities: N side of Mint Avenue. 100' E of intersection of Field Mint Avenue and Alpine Phlox Lane.						1.0	BG		XPLOER / 3500 / 2027 / 01/13/2022			Cole, Stephen		
Remarks					Comments										
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 22: As requested by Sheryl with JBS, a site visit was made to observe and test dry utilities. We observed the contractor place fill with the front end loader, add moisture with the water truck, and apply compactive effort with the excavator using the sheepsfoot attachment. Tests were conducted at an air temperature of 46° degrees fahrenheit.										

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: BNG-000002
03/15/2023
Report Date: 05/15/2023
Test Method: ASTM D2950

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-355
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Test Results															
Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
11		03/15/23	Asphalt Placement: Station 19+00 on Beebalm Avenue, N bound lane	Top Lift	5461 SX-75	2	154.0	1 03/15/2023 / Rice	147.2	Backscatter	96	92 / 96	A	3381	Collins, William
12		03/15/23	Asphalt Placement: Station 19+00 on Beebalm Avenue, S bound lane	Top Lift	5461 SX-75	2	154.0	1 03/15/2023 / Rice	147.0	Backscatter	95	92 / 96	A	3381	Collins, William
13		03/15/23	Asphalt Placement: Station 16+50 on Beebalm Avenue, W bound lane	Top Lift	5461 SX-75	2	154.0	1 03/15/2023 / Rice	147.0	Backscatter	95	92 / 96	A	3381	Collins, William
14		03/15/23	Asphalt Placement: Station 16+50 on Beebalm Avenue, E bound lane	Top Lift	5461 SX-75	2	154.0	1 03/15/2023 / Rice	145.9	Backscatter	95	92 / 96	A	3381	Collins, William
15		03/15/23	Asphalt Placement: Station 14+00 on Beebalm Avenue, E bound lane	Top Lift	5461 SX-75	2	154.0	1 03/15/2023 / Rice	145.8	Backscatter	95	92 / 96	A	3381	Collins, William
16		03/15/23	Asphalt Placement: Station 14+00 on Beebalm Avenue, W bound lane	Top Lift	5461 SX-75	2	154.0	1 03/15/2023 / Rice	147.3	Backscatter	96	92 / 96	A	3381	Collins, William
17		03/15/23	Asphalt Placement: Station 11+50 on Beebalm Avenue, W bound lane	Top Lift	5461 SX-75	2	154.0	1 03/15/2023 / Rice	145.6	Backscatter	95	92 / 96	A	3381	Collins, William
18		03/15/23	Asphalt Placement: Station 11+50 on Beebalm Avenue, E bound lane	Top Lift	5461 SX-75	2	154.0	1 03/15/2023 / Rice	147.3	Backscatter	96	92 / 96	A	3381	Collins, William

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: BNG-000002
03/15/2023
Report Date: 05/15/2023
Test Method: ASTM D2950

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-355
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Remarks					Comments		
A: Test results comply with specifications.					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"		
					18: As requested by George with Martin Marietta, a site visit was made to observe and test asphalt placement. We observed the contractor place asphalt with the paver and apply compactive effort with the steel drum roller, pneumatic tire roller, and smooth drum roller. One sample was collected and returned to our lab for testing.		
Gauge Information							
Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
3381	XPLOER	3500	2815	409	03/15/23	01/26/23	Instrotek

Asphalt Concrete Material Analysis



CLIENT: D.R. HORTON

PROJECT: 59 LOTS TRAILS AT CROWFOOT, FILING 11

PROJECT NO: DN50626.004F

DATE: 3/15/2023

SIEVE SIZE	5461 MARTIN MARIETTA SX-75		PERCENT PASSING	
	MIX DESIGN	PROJECT TOLERANCE	SAMPLE: 1	
2 INCH	-	-		
1-1/2 INCH	100	100		
1 INCH	100	100		
3/4 INCH	100	100	100	
1/2 INCH	98	92 - 100	98	
3/8 INCH	89	83 - 95	93	
NO. 4	68	63 - 73	74	²
NO. 8	53	48 - 58	58	
NO. 16	39	-	42	
NO. 30	27	23 - 31	30	
NO. 50	17	-	19	
NO. 100	10	-	12	
NO. 200	6.6	4.6 - 8.6	7.0	
ASPHALT CONTENT ¹	5.4	5.1 - 5.7	5.7	
FIELD MIX TEMP (°F)				
UNIT WEIGHT	155.2	-	154.0	
% AIR VOIDS	3.8	-		
VMA	15.0	-		
LOTTMAN	-	-		

¹ WEIGHT OF AGGREGATE AND OIL USED TO DETERMINE ASPHALT CONTENT

² DOES NOT MEET PROJECT TOLERANCE

REVIEWED BY: SPENCER HRUBALA

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: BNG-000003
04/10/2023
Report Date: 05/15/2023
Test Method: ASTM D2950

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-355
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Test Results															
Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
19		04/10/23	Asphalt Placement: Field Mint Pt., STA 15+00, S lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	146.3	Backscatter	94	92 / 96	A	2024	Payne, Jeff
20		04/10/23	Asphalt Placement: Field Mint Pt., STA 15+15, N lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	144.0	Backscatter	92	92 / 96	A	2024	Payne, Jeff
21		04/10/23	Asphalt Placement: Field Mint Pt., STA 13+00, N lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	145.8	Backscatter	94	92 / 96	A	2024	Payne, Jeff
22		04/10/23	Asphalt Placement: Field Mint Pt., STA 13+20, S lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	148.0	Backscatter	95	92 / 96	A	2024	Payne, Jeff
23		04/10/23	Asphalt Placement: Black Sedge Circle, STA 10+45, NW lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	145.4	Backscatter	93	92 / 96	A	2024	Payne, Jeff
24		04/10/23	Asphalt Placement: Black Sedge Circle, STA 11+75, E lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	145.8	Backscatter	94	92 / 96	A	2024	Payne, Jeff
25		04/10/23	Asphalt Placement: Black Sedge Circle, STA 13+00, E lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	148.6	Backscatter	95	92 / 96	A	2024	Payne, Jeff
26		04/10/23	Asphalt Placement: Black Sedge Circle, STA 13+50, SW lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	146.7	Backscatter	94	92 / 96	A	2024	Payne, Jeff
27		04/10/23	Asphalt Placement: Black Sedge Circle, STA 12+20, W lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	146.5	Backscatter	94	92 / 96	A	2024	Payne, Jeff
28		04/10/23	Asphalt Placement: Black Sedge Circle, STA 10+75, SW lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	146.9	Backscatter	94	92 / 96	A	2024	Payne, Jeff
29		04/10/23	Asphalt Placement: Field Mint Pt., STA 11+50, N lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	147.9	Backscatter	95	92 / 96	A	2024	Payne, Jeff
30		04/10/23	Asphalt Placement: Field Mint Pt., STA 11+80, S lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	144.3	Backscatter	93	92 / 96	A	2024	Payne, Jeff

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: BNG-000003
04/10/2023
Report Date: 05/15/2023
Test Method: ASTM D2950

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-355
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Test Results															
Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
31		04/10/23	Asphalt Placement: Field Mint Pt., STA 11+00, S lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	146.6	Backscatter	94	92 / 96	A	2024	Payne, Jeff
32		04/10/23	Asphalt Placement: Field Mint Pt., STA 10+75, N lane	Base Lift 1	5493 S-75	3	155.9	1 04/10/2023 / Rice	147.0	Backscatter	94	92 / 96	A	2024	Payne, Jeff
33		04/10/23	Asphalt Placement: Black Sedge Circle, STA 10+70, W lane	Top Lift	5462 SX-75 22	3	154.3	2 04/10/2023 / Rice	146.0	Backscatter	95	92 / 96	A	2024	Payne, Jeff
34		04/10/23	Asphalt Placement: Black Sedge Circle, STA 10+80, E lane	Top Lift	5462 SX-75 22	2	154.3	2 04/10/2023 / Rice	147.4	Backscatter	96	92 / 96	A	2024	Payne, Jeff
35		04/10/23	Asphalt Placement: Black Sedge Circle, STA 11+50, E lane	Top Lift	5462 SX-75 22	2	154.3	2 04/10/2023 / Rice	144.0	Backscatter	93	92 / 96	A	2024	Payne, Jeff
36		04/10/23	Asphalt Placement: Black Sedge Circle, STA 11+70, W lane	Top Lift	5462 SX-75 22	2	154.3	2 04/10/2023 / Rice	147.1	Backscatter	95	92 / 96	A	2024	Payne, Jeff
37		04/10/23	Asphalt Placement: Black Sedge Circle, STA 12+50, W lane	Top Lift	5462 SX-75 22	2	154.3	2 04/10/2023 / Rice	144.4	Backscatter	94	92 / 96	A	2024	Payne, Jeff
38		04/10/23	Asphalt Placement: Black Sedge Circle, STA 12+65, E lane	Top Lift	5462 SX-75 22	2	154.3	2 04/10/2023 / Rice	148.1	Backscatter	96	92 / 96	A	2024	Payne, Jeff
39		04/10/23	Asphalt Placement: Black Sedge Circle, STA 13+50, W lane	Top Lift	5462 SX-75 22	2	154.3	2 04/10/2023 / Rice	144.8	Backscatter	94	92 / 96	A	2024	Payne, Jeff
40		04/10/23	Asphalt Placement: Black Sedge Circle, STA 13+25, E lane	Top Lift	5462 SX-75 22	2	154.3	2 04/10/2023 / Rice	145.3	Backscatter	94	92 / 96	A	2024	Payne, Jeff
Remarks								Comments							
A: Test results comply with specifications.								Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter" 40: As requested by Dan with Martin Marietta, a site visit was made to observe and test asphalt placement. We observed the contractor place asphalt with the paver and apply compactive effort with the steel drum roller and rubber tire roller. Two samples were collected and returned to our lab for testing.							

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: BNG-000003
04/10/2023
Report Date: 05/15/2023
Test Method: ASTM D2950

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-355
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Gauge Information							
Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
2024	XPLOER	3500	2752	785	04/10/23	07/26/22	Instrotek

Asphalt Concrete Material Analysis



CLIENT: D.R. HORTON

PROJECT: 59 LOTS TRAILS AT CROWFOOT, FILING 11

PROJECT NO: DN50626.004F

DATE: 4/10/2023

SIEVE SIZE	5493 MARTIN MARIETTA S-75		PERCENT PASSING	
	MIX DESIGN	PROJECT TOLERANCE	SAMPLE: 1	
2 INCH	-	-		
1-1/2 INCH	100	100		
1 INCH	100	100	100	
3/4 INCH	99	93 - 100	96	
1/2 INCH	89	83 - 95	89	
3/8 INCH	80	74 - 86	81	
NO. 4	62	57 - 67	65	
NO. 8	49	44 - 54	53	
NO. 16	36	-	39	
NO. 30	25	21 - 29	27	
NO. 50	16	-	17	
NO. 100	9	-	10	
NO. 200	6.2	4.2 - 8.2	5.9	
ASPHALT CONTENT ¹	4.9	4.6 - 5.2	4.9	
FIELD MIX TEMP (°F)				
UNIT WEIGHT	156.5	-	155.9	
% AIR VOIDS	3.5	-		
VMA	13.9	-		
LOTTMAN	-	-		

¹ WEIGHT OF AGGREGATE AND OIL USED TO DETERMINE ASPHALT CONTENT

REVIEWED BY: SPENCER HRUBALA

Asphalt Concrete Material Analysis



CLIENT: D.R. HORTON

PROJECT: 59 LOTS TRAILS AT CROWFOOT, FILING 11

PROJECT NO: DN50626.004F

DATE: 4/10/2023

SIEVE SIZE	5462 MARTIN MARIETTA SX-75		PERCENT PASSING	
	MIX DESIGN	PROJECT TOLERANCE	SAMPLE: 2	
2 INCH	-	-		
1-1/2 INCH	100	100		
1 INCH	100	100		
3/4 INCH	100	100	100	
1/2 INCH	98	92 - 100	98	
3/8 INCH	89	83 - 95	90	
NO. 4	68	63 - 73	71	
NO. 8	53	48 - 58	57	
NO. 16	39	-	43	
NO. 30	27	23 - 31	30	
NO. 50	17	-	18	
NO. 100	10	-	11	
NO. 200	6.6	4.6 - 8.6	6.4	
ASPHALT CONTENT ¹	5.4	5.1 - 5.7	5.5	
FIELD MIX TEMP (°F)				
UNIT WEIGHT	155.4	-	154.3	
% AIR VOIDS	3.6	-		
VMA	14.8	-		
LOTTMAN	-	-		

¹ WEIGHT OF AGGREGATE AND OIL USED TO DETERMINE ASPHALT CONTENT

REVIEWED BY: SPENCER HRUBALA

Denver
 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777 | Fax: 303-825-4252

Report #: BNG-000004
04/20/2023
Report Date: 05/15/2023
Test Method: ASTM D2950

Client:
 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:
 DN50626.004F-355
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Test Results															
Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
41		04/20/23	Asphalt Placement: Beebalm Avenue, STA: 30+25, S bound lane	Base Lift 1	5493 S-75 (23)	3.5	155.5	1 04/20/2023 / Rice	144.9	Backscatter	93	92 / 96	A	3403	Kramer, Quinn
42		04/20/23	Asphalt Placement: Beebalm Avenue, STA: 31+25, N bound lane	Base Lift 1	5493 S-75 (23)	3.5	155.5	1 04/20/2023 / Rice	145.1	Backscatter	93	92 / 96	A	3403	Kramer, Quinn
43		04/20/23	Asphalt Placement: Field Mint Avenue, STA: 20+50, center of street	Base Lift 1	5493 S-75 (23)	3.5	155.5	1 04/20/2023 / Rice	146.5	Backscatter	94	92 / 96	A	3403	Kramer, Quinn
Remarks								Comments							
A: Test results comply with specifications.								Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter" 43: As requested by Jesse with Martin Marietta, a site visit was made to observe and test asphalt placement. We observed the contractor place asphalt with the paver and apply compactive effort with the vibratory drum roller and rubber wheel roller. One sample was collected and returned to our lab for testing.							
Gauge Information															
Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date		Last Calibration Date		Last Calibrated By						
3403	XPLOER	3500	2418	439	04/20/23		01/12/23		Instrotek						

Asphalt Concrete Material Analysis



CLIENT: D.R. HORTON

PROJECT: 59 LOTS, TRAILS AT CROWFOOT FILING 11

PROJECT NO: DN50626.004F

DATE: 4/20/2023

SIEVE SIZE	5493 MARTIN MARIETTA S-75		PERCENT PASSING	
	MIX DESIGN	PROJECT TOLERANCE	SAMPLE: 1	
2 INCH	-	-		
1-1/2 INCH	100	100		
1 INCH	100	100	100	
3/4 INCH	99	93 - 100	98	
1/2 INCH	89	83 - 95	91	
3/8 INCH	80	74 - 86	83	
NO. 4	63	58 - 68	67	
NO. 8	49	44 - 54	53	
NO. 16	35	30 - 40	38	
NO. 30	25	21 - 29	26	
NO. 50	16	12 - 20	16	
NO. 100	10	6 - 14	10	
NO. 200	6.1	4.1 - 8.1	5.6	
ASPHALT CONTENT ¹	5.0	4.7 - 5.3	5.0	
FIELD MIX TEMP (°F)				
UNIT WEIGHT	156.5	-	155.5	
% AIR VOIDS	3.5	-		
VMA	13.7	-		
LOTTMAN	-	-		

¹ WEIGHT OF AGGREGATE AND OIL USED TO DETERMINE ASPHALT CONTENT

REVIEWED BY: SPENCER HRUBALA

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: BNG-000001
04/22/2022
Report Date: 05/09/2022
Test Method: ASTM D2950

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-355
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Test Results															
Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
1		04/22/22	Asphalt Placement: West side Field Mint avenue, station 19+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	147.9	Backscatter	95	92 / 96	A	2027	Cole, Stephen
2		04/22/22	Asphalt Placement: West side Field Mint avenue, station 17+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	147.6	Backscatter	95	92 / 96	A	2027	Cole, Stephen
3		04/22/22	Asphalt Placement: North side Field Mint avenue, station 16+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	148.8	Backscatter	96	92 / 96	A	2027	Cole, Stephen
4		04/22/22	Asphalt Placement: North side Field Mint avenue, station 14+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	149.6	Backscatter	96	92 / 96	A	2027	Cole, Stephen
5		04/22/22	Asphalt Placement: North side Field Mint avenue, station 12+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	150.0	Backscatter	96	92 / 96	A	2027	Cole, Stephen
6		04/22/22	Asphalt Placement: East side Field Mint avenue, station 19+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	147.1	Backscatter	94	92 / 96	A	2027	Cole, Stephen
7		04/22/22	Asphalt Placement: East side Field Mint avenue, station 17+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	144.8	Backscatter	93	92 / 96	A	2027	Cole, Stephen
8		04/22/22	Asphalt Placement: South side Field Mint avenue, station 16+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	144.5	Backscatter	93	92 / 96	A	2027	Cole, Stephen
9		04/22/22	Asphalt Placement: South side Field Mint avenue, station 14+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	143.1	Backscatter	92	92 / 96	A	2027	Cole, Stephen
10		04/22/22	Asphalt Placement: South side Field Mint avenue, station 12+00	Base Lift 1	5492 SP-75	2	155.7	1 04/22/20 22 / Rice	145.3	Backscatter	93	92 / 96	A	2027	Cole, Stephen
Remarks								Comments							
A: Test results comply with specifications.								Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter" 10: As requested by George with D.R. Horton, a site visit was made to observe and test asphalt placement. We observed the contractor place asphalt with the paver and apply compactive effort with the smooth roller. One sample was collected and returned to our lab for testing.							

Denver
1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777 | Fax: 303-825-4252

Report #: BNG-000001
04/22/2022
Report Date: 05/09/2022
Test Method: ASTM D2950

Client:
D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:
DN50626.004F-355
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Gauge Information							
Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
2027	XPLOER	3500	2733	760	04/22/22	01/13/22	Instrotek

Asphalt Concrete Material Analysis



CLIENT: D.R. HORTON
 PROJECT: 59 LOTS TRAILS AT CROWFOOT, FILING 11
 PROJECT NO: DN50626.004F
 DATE: 4/22/2022

SIEVE SIZE	5492 MARTIN MARIETTA S-75		PERCENT PASSING	
	MIX DESIGN	PROJECT TOLERANCE	SAMPLE: 1	
2 INCH	-	-		
1-1/2 INCH	100	100		
1 INCH	100	100	100	
3/4 INCH	99	93 - 100	98	
1/2 INCH	89	83 - 95	90	
3/8 INCH	80	74 - 86	83	
NO. 4	62	57 - 67	66	
NO. 8	49	44 - 54	52	
NO. 16	36	-	38	
NO. 30	25	21 - 29	27	
NO. 50	16	-	17	
NO. 100	9	-	10	
NO. 200	6.2	4.2 - 8.2	6.1	
ASPHALT CONTENT ¹	4.9	4.6 - 5.2	5.0	
FIELD MIX TEMP (°F)				
UNIT WEIGHT	156.3	-	155.7	
% AIR VOIDS	3.6	-		
VMA	14.0	-		
LOTTMAN	-	-		

¹ WEIGHT OF AGGREGATE AND OIL USED TO DETERMINE ASPHALT CONTENT

REVIEWED BY: SPENCER HRUBALA, E.I.T.


Denver

 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777
 Fax: 303-825-4252

Client:

 D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

 DN50626.004F-365
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Sample Details

Set #:	4	Technician:	Gale, Andrew	Batched:	
Specimen Size:	4" X 8"	Cast By:	Gale, Andrew	Sampled:	09:06 MDT
Specimens In Set:	5	Date Cast:	09/29/21	Cast:	09:17 MDT
Truck / Ticket #:	No ticket available / None	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS Pipeline	Placement Method:	Chute	Placement Time:	

Location

Placement Location:	Inlet Base
Location Details:	Inlet 58/fixed gap at connection
Sample Location / Notes:	Base/fix

Batch Log

Supplier:	Brannan Ready Mix	Mix Design:	145812G	Strength:	4500 (psi)
On-Site Admixtures:	None				

Specifications
Field Measurements

Weather:		Slump (in):	3	Plastic Unit Weight:	142.5 (lb/ft³)
Air Temperature (F):		Concrete Temp (F):	71	Air Content:	6.0
				Load Volume:	3.00 (yd³)

Standard Cure
Field Cure

	Min / Max Temp (F):	72/75

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
4-1	7 FC	10/06/21	1 / 6	4.00	12.57	59,860	4,760	5		N
4-2	28 FC	10/27/21	1 / 27	4.00	12.57	66,401	5,280	2	C4	N
4-3	28 FC	10/27/21	1 / 27	4.00	12.57	64,106	5,100	2	C4	N
4-4	28 FC	10/27/21	1 / 27	4.00	12.57	60,538	4,820	2	C4	N
4-5	28 FC	10/27/21	1 / 27	4.00	12.57	66,821	5,320	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4760, 28 Day FC - 5130

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 09/30/2021 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6


Denver

 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777
 Fax: 303-825-4252

Client:

 D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

 DN50626.004F-365
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Sample Details

Set #:	1	Technician:	Moran, David	Batched:	16:16 MDT
Specimen Size:	4" X 8"	Cast By:	Moran, David	Sampled:	17:00 MDT
Specimens In Set:	5	Date Cast:	10/01/21	Cast:	17:15 MDT
Truck / Ticket #:	1196 / 1997068	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS Pipeline	Placement Method:	Chute	Placement Time:	

Location
Placement Location: Inlet Top Slab
Location Details: SDIN 95 and 96
Sample Location / Notes: Inlet 95

Batch Log
Supplier: Brannan Ready Mix
Plant: 13
On-Site Admixtures: 4.00 Gal Water (4.5 yd³)

Mix Design: 145813G

Specifications
Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump:
Field Measurements
Weather: Cloudy
Air Temperature (F): 61
Slump (in): 3-1/4
Concrete Temp (F): 71
Plastic Unit Weight: 142.4 (lb/ft³)
Air Content: 5.7
Load Volume: 5.00 (yd³)

Standard Cure
Field Cure
Min / Max Temp (F): 68/72

Lab Test Results
Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
1-1	7 FC	10/08/21	1 / 6	4.00	12.57	61,403	4,890	2		N
1-2	28 FC	10/29/21	1 / 27	4.00	12.57	82,992	6,600	3	C4	N
1-3	28 FC	10/29/21	1 / 27	4.00	12.57	80,258	6,390	3	C4	N
1-4	28 FC	10/29/21	1 / 27	4.00	12.57	82,841	6,590	5	C4	N
1-5	28 FC	10/29/21	1 / 27	4.00	12.57	77,755	6,190	5	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4890, 28 Day FC - 6440

Capping Methods
C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 10/02/2021 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks
Notified contractor of physical property results. Reviewed by SH


TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6


Denver

 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777
 Fax: 303-825-4252

Client:

 D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

 DN50626.004F-365
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Sample Details

Set #:	2	Technician:	Bradley, Colin	Batched:	14:36 MDT
Specimen Size:	4" X 8"	Cast By:	Bradley, Colin	Sampled:	15:45 MDT
Specimens In Set:	5	Date Cast:	10/05/21	Cast:	16:00 MDT
Truck / Ticket #:	1288 / 20388267	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS Pipeline	Placement Method:	Chute	Placement Time:	

Location

Placement Location:	Manhole
Location Details:	Manhole 54
Sample Location / Notes:	Manhole 54

Batch Log

Supplier:	Burnco	Mix Design:	45J1C1C4C	Strength:	4500 (psi)
Plant:	609			Air:	5 - 8 (%)
On-Site Admixtures:	None			Slump:	3 - 5 (in)

Specifications
Field Measurements

Weather:		Slump (in):	3-1/2	Plastic Unit Weight:	138.8 (lb/ft³)
Air Temperature (F):		Concrete Temp (F):	85	Air Content:	7.0
				Load Volume:	7.00 (yd³)

Standard Cure
Field Cure

	Min / Max Temp (F):	70/74

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
2-1	7 FC	10/12/21	2 / 5	4.00	12.57	53,110	4,230	5		N
2-2	28 FC	11/02/21	2 / 26	4.00	12.57	69,558	5,530	5	C4	N
2-3	28 FC	11/02/21	2 / 26	4.00	12.57	71,581	5,700	5	C4	N
2-4	28 FC	11/02/21	2 / 26	4.00	12.57	67,299	5,350	2	C4	N
2-5	28 FC	11/02/21	2 / 26	4.00	12.57	73,021	5,810	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4230, 28 Day FC - 5600

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 10/07/2021 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6


Denver

 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777
 Fax: 303-825-4252

Client:

 D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

 DN50626.004F-365
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Sample Details

Set #:	3	Technician:	Moran, David	Batched:	08:45 MDT
Specimen Size:	4" X 8"	Cast By:	Moran, David	Sampled:	10:00 MDT
Specimens In Set:	5	Date Cast:	10/06/21	Cast:	10:15 MDT
Truck / Ticket #:	169 / 62316581	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS Pipeline	Placement Method:	Chute	Placement Time:	

Location
Placement Location: Manhole
Location Details: Manhole Bases 155, 154
Sample Location / Notes: MH Base 155

Batch Log
Supplier: Aggregate Industries-Denver
Plant: 912
On-Site Admixtures: 2.00 Gal Water (10.0 yd³)

Mix Design: 9458224.

Specifications
Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump:
Field Measurements
Weather: Partly Cloudy
Air Temperature (F): 63
Slump (in): 3
Concrete Temp (F): 76
Plastic Unit Weight: 139.2 (lb/ft³)
Air Content: 8.0
Load Volume: 10.00 (yd³)

Standard Cure
Field Cure
Min / Max Temp (F): 62/78

Lab Test Results
Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
3-1	7 FC	10/13/21	2 / 5	4.00	12.57	48,427	3,850	2		N
3-2	28 FC	11/03/21	2 / 26	4.00	12.57	59,354	4,720	5	C4	N
3-3	28 FC	11/03/21	2 / 26	4.00	12.57	60,210	4,790	5	C4	N
3-4	28 FC	11/03/21	2 / 26	4.00	12.57	54,926	4,370	3	C2	N
3-5	28 FC	11/03/21	2 / 26	4.00	12.57	57,264	4,560	5	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3850, 28 Day FC - 4610

Capping Methods
C4: Strength is greater than or equal to f_c.
C2: Strength is less than f_c. One cylinder will be held to break at 56 days.
Tested By: Patrick Patterson (1,2,3,4,5)
Checked In : 10/08/2021 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks
Notified contractor of physical property results. Reviewed by SH


TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6


Denver

 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777
 Fax: 303-825-4252

Client:

 D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

 DN50626.004F-365
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Sample Details

Set #:	5	Technician:	Moran, David	Batched:	15:48 MDT
Specimen Size:	4" X 8"	Cast By:	Moran, David	Sampled:	16:55 MDT
Specimens In Set:	5	Date Cast:	10/06/21	Cast:	17:10 MDT
Truck / Ticket #:	160 / 62316647	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS Pipeline	Placement Method:	Chute	Placement Time:	

Location
Placement Location: Manhole
Location Details: Manhole Base 153
Sample Location / Notes: Manhole Base 153

Batch Log
Supplier: Aggregate Industries-Denver
Plant: 912
On-Site Admixtures: None
Mix Design: 9458224.

Specifications
Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump:
Field Measurements
Weather: Cloudy
Air Temperature (F): 67
Slump (in): 2-1/2
Concrete Temp (F): 80
Plastic Unit Weight: 139.2 (lb/ft³)
Air Content: 8.0
Load Volume: 5.03 (yd³)

Standard Cure
Field Cure
Min / Max Temp (F): 62/78

Lab Test Results
Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
5-1	7 FC	10/13/21	2 / 5	4.00	12.57	47,664	3,790	5		N
5-2	28 FC	11/03/21	2 / 26	4.00	12.57	60,777	4,840	2	C4	N
5-3	28 FC	11/03/21	2 / 26	4.00	12.57	59,575	4,740	2	C4	N
5-4	28 FC	11/03/21	2 / 26	4.00	12.57	59,439	4,730	3	C4	N
5-5	28 FC	11/03/21	2 / 26	4.00	12.57	58,272	4,640	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3790, 28 Day FC - 4740

Capping Methods
C4: Strength is greater than or equal to f'c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 10/08/2021 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks
Notified contractor of physical property results. Reviewed by SH


TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6


Denver

 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777
 Fax: 303-825-4252

Client:

 D.R. Horton
 9555 S. Kingston Court Suite 200
 Englewood, CO 80112

Project:

 DN50626.004F-365
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Sample Details

Set #:	6	Technician:	Moran, David	Batched:	12:42 MST
Specimen Size:	4" X 8"	Cast By:	Moran, David	Sampled:	13:15 MST
Specimens In Set:	5	Date Cast:	11/18/21	Cast:	13:30 MST
Truck / Ticket #:	9104 / 62319020	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS Pipeline	Placement Method:	Chute	Placement Time:	

Location
Placement Location: Manhole
Location Details: Field Mint PT ST: 9+86
Sample Location / Notes: SDMH-53, Manhole Base

Batch Log
Supplier: Aggregate Industries-Denver
Plant: 912
On-Site Admixtures: None
Mix Design: 9458224.

Specifications
Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 3 (in)

Field Measurements
Weather: Cloudy
Air Temperature (F): 54
Slump (in): 2
Concrete Temp (F): 62
Plastic Unit Weight: 139.6 (lb/ft³)
Air Content: 7.3
Load Volume: 8.00 (yd³)

Standard Cure
Field Cure
Min / Max Temp (F): 71/79

Lab Test Results
Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
6-1	7 FC	11/25/21	1 / 6	4.00	12.57	48,395	3,850	2		N
6-2	28 FC	12/16/21	1 / 27	4.00	12.57	57,727	4,590	5	C4	N
6-3	28 FC	12/16/21	1 / 27	4.00	12.57	59,991	4,770	2	C4	N
6-4	28 FC	12/16/21	1 / 27	4.00	12.57	58,877	4,680	5	C4	N
6-5	28 FC	12/16/21	1 / 27	4.00	12.57	60,685	4,830	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3850, 28 Day FC - 4720

Capping Methods
C4: Strength is greater than or equal to f'c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 11/19/2021 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks
Notified contractor of physical property results. Reviewed by SH


TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000007

01/18/2022

Report Date: 03/30/2022

Sample: 96540

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	7	Technician:	Gale, Andrew	Batched:	12:16 MST
Specimen Size:	4" X 8"	Cast By:	Gale, Andrew	Sampled:	01:03 MST
Specimens In Set:	6	Date Cast:	01/18/22	Cast:	01:13 MST
Truck / Ticket #:	9242 / 84617817	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS Pipeline	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Inlet Base
Location Details: Field Mint PT and Beebalm Ave
Sample Location / Notes: SDMH - 53, Base

Batch Log

Supplier: Aggregate Industries-Denver
Mix Design: 9458224.
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather: Slump (in): 4 Plastic Unit Weight: 135.7 (lb/ft³)
Air Temperature (F): Concrete Temp (F): 79 Air Content: 7.5
Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 65/70

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
7-1	7 FC	01/25/22	2 / 5	4.00	12.57	37,650	3,000	2	C1	N
7-2	28 FC	02/15/22	2 / 26	4.00	12.57	56,481	4,490	5	C2	N
7-3	28 FC	02/15/22	2 / 26	4.00	12.57	54,275	4,320	5	C2	N
7-4	28 FC	02/15/22	2 / 26	4.00	12.57	52,044	4,140	2	C2	N
7-5	28 FC	02/15/22	2 / 26	4.00	12.57	53,201	4,230	5	C2	N
7-6	56 FC	03/15/22	2 / 54	4.00	12.57	52,257	4,160	3	C3	N

Test Age Average Strengths (psi): 7 Day FC - 3000, 28 Day FC - 4300, 56 Day FC - 4160

Capping Methods

C1: Strength is less than 70 percent of f_c.
C2: Strength is less than f_c. One cylinder will be held to break at 56 days.
C3: Strength is less than f_c.
Tested By: Patrick Patterson (1,2,3,4,5,6)
Checked In : 01/20/2022 (1,2,3,4,5,6)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000008

03/16/2022

Report Date: 04/21/2022

Sample: 97785

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 8	Technician: Vigil, Donald	Batched: 13:15 MDT
Specimen Size: 4" X 8"	Cast By: Vigil, Donald	Sampled: 13:16 MDT
Specimens In Set: 5	Date Cast: 03/16/22	Cast: 13:24 MDT
Truck / Ticket #:	Sampled From: Chute	Truck Empty:
Contractor:	Placement Method:	Placement Time:

Location

Placement Location: Inlet Wall
Location Details: Field Mint Pt. STA 16+00
Sample Location / Notes: NE wall of SDIN-42

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Slump (in): 5	Plastic Unit Weight: 144.0 (lb/ft³)
Air Temperature (F):	Concrete Temp (F): 81	Air Content: 35.0
		Load Volume:

Standard Cure

Field Cure

Min / Max Temp (F): 63/78

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
8-1	7 FC	03/23/22	1 / 6	4.00	12.57	43,336	3,450	3		N
8-2	28 FC	04/13/22	1 / 27	4.00	12.57	56,489	4,490	2	C2	N
8-3	28 FC	04/13/22	1 / 27	4.00	12.57	57,335	4,560	2	C4	N
8-4	28 FC	04/13/22	1 / 27	4.00	12.57	56,879	4,530	5	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3450, 28 Day FC - 4530

Capping Methods

C2: Strength is less than f'c. One cylinder will be held to break at 56 days.

C4: Strength is greater than or equal to f'c.

Tested By: Patrick Patterson (1,2,3,4)

Checked In : 03/17/2022 (1,2,3,4)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000009

04/01/2022

Report Date: 05/11/2022

Sample: 98547

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	11	Technician:	Richardson, Colby	Batched:	09:27 MDT
Specimen Size:	4" X 8"	Cast By:	Richardson, Colby	Sampled:	10:20 MDT
Specimens In Set:	5	Date Cast:	04/01/22	Cast:	10:35 MDT
Truck / Ticket #:	9218 / 84619410	Sampled From:	Chute	Truck Empty:	
Contractor:	DR Horton	Placement Method:	Curb & Gutter	Placement Time:	

Location

Placement Location: Curb and Gutter
Location Details: North curb STA 10+75 on Field Mint Ave from Scarlet Sage
Sample Location / Notes: North curb STA 10+75 on Field Mint Ave from Scarlet Sage

Batch Log

Supplier: Concrete Direct
Plant: 925
Mix Design: 7456122
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Slump (in): 1-1/4	Plastic Unit Weight: 141.3 (lb/ft³)
Air Temperature (F):	Concrete Temp (F): 79	Air Content: 7.9
		Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 64/78

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
11-1	7 FC	04/08/22	6 / 1	4.00	12.57	51,682	4,110	2		N
11-2	28 FC	04/29/22	6 / 22	4.00	12.57	66,956	5,330	2	C4	N
11-3	28 FC	04/29/22	6 / 22	4.00	12.57	63,143	5,020	3	C4	N
11-4	28 FC	04/29/22	6 / 22	4.00	12.57	58,951	4,690	3	C4	N
11-5	28 FC	04/29/22	6 / 22	4.00	12.57	57,635	4,590	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4110, 28 Day FC - 4910

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 04/07/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000010

04/01/2022

Report Date: 05/11/2022

Sample: 98548

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	12	Technician:	Richardson, Colby	Batched:	16:35 MDT
Specimen Size:	4" X 8"	Cast By:	Richardson, Colby	Sampled:	17:00 MDT
Specimens In Set:	5	Date Cast:	04/01/22	Cast:	17:15 MDT
Truck / Ticket #:	9242 / 84619446	Sampled From:	Chute	Truck Empty:	
Contractor:	Dr Horton	Placement Method:	Curb & Gutter	Placement Time:	

Location

Placement Location: Curb and Gutter
 Location Details: East curb STA 15+50 on Field Mint Ave from Scarlet Sage
 Sample Location / Notes: East curb STA 15+50 on Field Mint Ave from Scarlet Sage

Batch Log

Supplier:	Concrete Direct	Mix Design:	7456122	Strength:	4500 (psi)
Plant:	925				
On-Site Admixtures: None					

Specifications

Field Measurements

Weather:	Slump (in):	1-1/4	Plastic Unit Weight:	141.3 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	85	Air Content:	7.2
			Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 64/78

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
12-1	7 FC	04/08/22	6 / 1	4.00	12.57	46,923	3,730	5		N
12-2	28 FC	04/29/22	6 / 22	4.00	12.57	59,132	4,700	2	C4	N
12-3	28 FC	04/29/22	6 / 22	4.00	12.57	59,818	4,760	3	C4	N
12-4	28 FC	04/29/22	6 / 22	4.00	12.57	57,661	4,590	2	C4	N
12-5	28 FC	04/29/22	6 / 22	4.00	12.57	55,885	4,450	2	C2	N

Test Age Average Strengths (psi): 7 Day FC - 3730, 28 Day FC - 4620

Capping Methods

C4: Strength is greater than or equal to f _c . C2: Strength is less than f _c . One cylinder will be held to break at 56 days. Tested By: Patrick Patterson (1,2,3,4,5) Checked In : 04/07/2022 (1,2,3,4,5)	N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000011

04/05/2022

Report Date: 05/11/2022

Sample: 98689

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	10	Technician:	Gale, Andrew	Batched:	09:38 MDT
Specimen Size:	4" X 8"	Cast By:	Gale, Andrew	Sampled:	09:52 MDT
Specimens In Set:	5	Date Cast:	04/05/22	Cast:	10:05 MDT
Truck / Ticket #:	8631 / 62428420	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Brothers	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Various
Location Details: Sidewalk 220ft south on Alpine, W side
Sample Location / Notes: Sidewalk. sensor placed

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	9456623.
On-Site Admixtures: None			

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Slump (in): 4	Plastic Unit Weight: 142.9 (lb/ft³)
Air Temperature (F):	Concrete Temp (F): 70	Air Content: 5.0
		Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 65/65

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
10-1	7 FC	04/12/22	2 / 5	4.00	12.57	63,070	5,020	5		N
10-2	28 FC	05/03/22	2 / 26	4.00	12.57	69,774	5,550	2	C4	N
10-3	28 FC	05/03/22	2 / 26	4.00	12.57	71,758	5,710	5	C4	N
10-4	28 FC	05/03/22	2 / 26	4.00	12.57	69,172	5,500	3	C4	N
10-5	28 FC	05/03/22	2 / 26	4.00	12.57	66,904	5,320	5	C4	N

Test Age Average Strengths (psi): 7 Day FC - 5020, 28 Day FC - 5520

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 04/07/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000012

04/14/2022

Report Date: 05/23/2022

Sample: 98930

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	13	Technician:	Bradley, Colin	Batched:	
Specimen Size:	4" X 8"	Cast By:	Bradley, Colin	Sampled:	12:45 MDT
Specimens In Set:	5	Date Cast:	04/14/22	Cast:	13:00 MDT
Truck / Ticket #:	9253 / 84620028	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt bros	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: Northwest corner of Alpine Phlox and Field Mint Ave, Ramps/Radius
Sample Location / Notes: Northwest corner of Alpine Phlox and Field Mint Ave, Ramps/Radius

Batch Log

Supplier: Aggregate Industries-Denver
Plant: 925
On-Site Admixtures: None
Mix Design: 7456120

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 3 - 5 (in)

Field Measurements

Weather:
Air Temperature (F):
Slump (in): 3-1/4
Concrete Temp (F): 78
Plastic Unit Weight: 142.8 (lb/ft³)
Air Content: 5.6
Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 68/72

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
13-1	7 FC	04/21/22	2 / 5	4.00	12.57	49,068	3,900	5		N
13-2	28 FC	05/12/22	2 / 26	4.00	12.57	61,242	4,870	5	C4	N
13-3	28 FC	05/12/22	2 / 26	4.00	12.57	66,442	5,290	5	C4	N
13-4	28 FC	05/12/22	2 / 26	4.00	12.57	61,346	4,880	2	C4	N
13-5	28 FC	05/12/22	2 / 26	4.00	12.57	65,781	5,230	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3900, 28 Day FC - 5070

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 04/16/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000013

04/18/2022

Report Date: 05/23/2022

Sample: 99014

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	14	Technician:	Whitehall, Corey	Batched:	11:17 MDT
Specimen Size:	4" X 8"	Cast By:	Whitehall, Corey	Sampled:	12:05 MDT
Specimens In Set:	5	Date Cast:	04/18/22	Cast:	12:20 MDT
Truck / Ticket #:	169 / 62325249	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt	Placement Method:	Chute	Placement Time:	

Location

Placement Location:	Various
Location Details:	Ramp on the southwest corner of Beebalm Ave and Beebalm Loop
Sample Location / Notes:	Ramp on the southwest corner of Beebalm Ave and Beebalm Loop

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	9456623	Strength:	4500 (psi)
Plant:	4912				
On-Site Admixtures:	None				

Field Measurements

Weather:	Slump (in):	4	Plastic Unit Weight:	144.0 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	83	Air Content:	5.7
			Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 55/65

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
14-1	7 FC	04/25/22	1 / 6	4.00	12.57	52,353	4,170	2		N
14-2	28 FC	05/16/22	1 / 27	4.00	12.57	62,833	5,000	3	C4	N
14-3	28 FC	05/16/22	1 / 27	4.00	12.57	61,411	4,890	3	C4	N
14-4	28 FC	05/16/22	1 / 27	4.00	12.57	61,145	4,860	3	C4	N
14-5	28 FC	05/16/22	1 / 27	4.00	12.57	67,400	5,360	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4170, 28 Day FC - 5030

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 04/19/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6


Denver

 1971 West 12th Avenue
 Denver, CO 80204
 Phone: 303-825-0777
 Fax: 303-825-4252

Client:

 D.R. Horton
 9555 S. Kingston Court
 Suite 200
 Englewood, CO 80112

Project:

 DN50626.004F-365
 59 Lots, Trails at Crowfoot, Filing 11
 East of N Pinery Pkwy and Bayou Gulch Rd
 Parker, CO

Sample Details

Set #:	9	Technician:	Kunkel, Josh	Batched:	09:43 MDT
Specimen Size:	4" X 8"	Cast By:	Kunkel, Josh	Sampled:	10:30 MDT
Specimens In Set:	5	Date Cast:	03/28/22	Cast:	10:45 MDT
Truck / Ticket #:	9220 / 6232941	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Brothers	Placement Method:	Chute	Placement Time:	

Location

Placement Location:	Sidewalk
Location Details:	Trail running E to W on N side of lot 12 block 1 E of Beebalm loop. Approximately 50' of trail poured from E to W at the fork.
Sample Location / Notes:	Sidewalk for trail running E-W at N side of lot 12 block 1.

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	7456120.	Strength:	4500 (psi)
Plant:	912				
On-Site Admixtures:	None				

Field Measurements

Weather:	Sunny	Slump (in):	4	Plastic Unit Weight:	139.2 (lb/ft³)
Air Temperature (F):	50	Concrete Temp (F):	69	Air Content:	6.8
				Load Volume:	10.00 (yd³)

Standard Cure
Field Cure

	Min / Max Temp (F):	68/74

Lab Test Results
Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
9-1	7 FC	04/04/22	2 / 5	4.00	12.57	43,530	3,460	5		N
9-2	28 FC	04/25/22	2 / 26	4.00	12.57	53,801	4,280	5	C2	N
9-3	28 FC	04/25/22	2 / 26	4.00	12.57	53,275	4,240	5	C2	N
9-4	28 FC	04/25/22	2 / 26	4.00	12.57	55,862	4,440	2	C2	N
9-5	56 FC	05/23/22	2 / 54	4.00	12.57	59,436	4,730	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3460, 28 Day FC - 4320, 56 Day FC - 4730

Capping Methods

C2: Strength is less than f.c. One cylinder will be held to break at 56 days.	N: Unbonded Caps (ASTM C1231)
C4: Strength is greater than or equal to f.c.	
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 03/30/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000015

05/09/2022

Report Date: 06/08/2022

Sample: 99898

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	16	Technician:	Windus, Cory	Batched:	13:14 MDT
Specimen Size:	4" X 8"	Cast By:	Windus, Cory	Sampled:	14:16 MDT
Specimens In Set:	5	Date Cast:	05/09/22	Cast:	14:31 MDT
Truck / Ticket #:	9223 / 62326234	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Bros	Placement Method:	Curb & Gutter	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: Southside of Field Mint Ave sidewalk
Sample Location / Notes: Southside of Field Mint Ave, starting 20' from intersection of Field Mint Ave and Scarlet Sage Ave

Batch Log

Supplier: Concrete Direct
Plant: 912
On-Site Admixtures: 7.00 Gal Water

Mix Design: 7456122

Specifications

Strength: 4500 (psi)

Field Measurements

Weather: Sunny	Slump (in): 1-1/2	Plastic Unit Weight: 145.2 (lb/ft³)
Air Temperature (F): 73	Concrete Temp (F): 84	Air Content: 6.0
		Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 76/76

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
16-1	7 FC	05/16/22	2 / 5	4.00	12.57	63,754	5,070	2		N
16-2	28 FC	06/06/22	2 / 26	4.00	12.57	74,185	5,900	3	C4	N
16-3	28 FC	06/06/22	2 / 26	4.00	12.57	74,106	5,900	3	C4	N
16-4	28 FC	06/06/22	2 / 26	4.00	12.57	76,331	6,070	2	C4	N
16-5	28 FC	06/06/22	2 / 26	4.00	12.57	76,568	6,090	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 5070, 28 Day FC - 5990

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 05/11/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000016

05/10/2022

Report Date: 06/10/2022

Sample: 99977

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	18	Technician:	Whitehall, Corey	Batched:	12:43 MDT
Specimen Size:	4" X 8"	Cast By:	Whitehall, Corey	Sampled:	13:40 MDT
Specimens In Set:	5	Date Cast:	05/10/22	Cast:	13:55 MDT
Truck / Ticket #:	9208 / 62326308	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Inlet Wall
 Location Details: SDIN - 43 at the intersection of Alpine Phlox Ln and Field Mint Pt.
 Sample Location / Notes: SDIN - 43, Inlet Wall

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	94566	Strength:	4500 (psi)
Plant:	4912				
On-Site Admixtures:	None				

Field Measurements

Weather:	Slump (in):	5	Plastic Unit Weight:	140.4 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	80	Air Content:	6.9
			Load Volume:	9.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 65/70

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
18-1	7 FC	05/17/22	1 / 6	4.00	12.57	45,539	3,620	2		N
18-2	28 FC	06/07/22	1 / 27	4.00	12.57	57,187	4,550	5	C4	N
18-3	28 FC	06/07/22	1 / 27	4.00	12.57	58,509	4,660	3	C4	N
18-4	28 FC	06/07/22	1 / 27	4.00	12.57	56,543	4,500	5	C4	N
18-5	28 FC	06/07/22	1 / 27	4.00	12.57	55,058	4,380	3	C2	N

Test Age Average Strengths (psi): 7 Day FC - 3620, 28 Day FC - 4520

Capping Methods

C4: Strength is greater than or equal to f _c . C2: Strength is less than f _c . One cylinder will be held to break at 56 days. Tested By: Patrick Patterson (1,2,3,4,5) Checked In : 05/11/2022 (1,2,3,4,5)	N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000017

05/11/2022

Report Date: 06/10/2022

Sample: 100006

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	15	Technician:	Windus, Cory	Batched:	09:31 MDT
Specimen Size:	4" X 8"	Cast By:	Windus, Cory	Sampled:	10:32 MDT
Specimens In Set:	5	Date Cast:	05/11/22	Cast:	10:47 MDT
Truck / Ticket #:	169 / 62326367	Sampled From:	Chute	Truck Empty:	
Contractor:	Dr Horton / Thoutt Bros	Placement Method:	Curb & Gutter	Placement Time:	

Location

Placement Location:	Sidewalk
Location Details:	East Side of Field Mint Ave Sidewalk
Sample Location / Notes:	East side of Field Mint Ave, Lot 1, Block 6, 150' from SE corner of Beebalm Loop and Field Mint Ave.

Batch Log

Supplier:	Concrete Direct	Mix Design:	9458224	Strength:	4500 (psi)
Plant:	912				
On-Site Admixtures:	None				

Specifications

Field Measurements

Weather:	Sunny	Slump (in):	1/2	Plastic Unit Weight:	144.4 (lb/ft³)
Air Temperature (F):	75	Concrete Temp (F):	82	Air Content:	5.5
				Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 76/

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
15-1	7 FC	05/18/22	2 / 5	4.00	12.57	54,026	4,300	2		N
15-2	28 FC	06/08/22	2 / 26	4.00	12.57	71,166	5,660	3	C4	N
15-3	28 FC	06/08/22	2 / 26	4.00	12.57	74,742	5,950	2	C4	N
15-4	28 FC	06/08/22	2 / 26	4.00	12.57	76,107	6,060	5	C4	N
15-5	28 FC	06/08/22	2 / 26	4.00	12.57	71,475	5,690	5	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4300, 28 Day FC - 5840

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 05/13/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000018

06/03/2022

Report Date: 06/16/2022

Sample: 101331

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 20	Technician: Harcourt, Russell	Batched:
Specimen Size: 4" X 8"	Cast By: Harcourt, Russell	Sampled:
Specimens In Set: 1	Date Cast: 06/03/22	Cast: 00:15 MDT
Truck / Ticket #:	Sampled From: Other	Truck Empty:
Contractor:	Placement Method:	Placement Time:

Location

Placement Location: Cancelled on Site
Location Details: Inlet Deck
Sample Location / Notes: Inlet deck

Batch Log

On-Site Admixtures: None

Specifications

Strength: 0 (psi)

Field Measurements

Weather:	Consistency: Slump	Plastic Unit Weight:
Air Temperature (F):	Concrete Temp (F):	Air Content:
		Load Volume:

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
20-1	13 FC	06/16/22	13 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 06/16/2022 (1)

General Remarks

Canceled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000020

06/06/2022

Report Date: 06/21/2022

Sample: 101662

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	24	Technician:	Perotin, Austin	Batched:	
Specimen Size:	4" X 8"	Cast By:	Perotin, Austin	Sampled:	13:00 MDT
Specimens In Set:	1	Date Cast:	06/06/22	Cast:	13:15 MDT
Truck / Ticket #:		Sampled From:	Chute	Truck Empty:	
Contractor:	JBS	Placement Method:		Placement Time:	

Location

Placement Location:	Cancelled on Site
Location Details:	Inlet Decks; Alpine Phlox and Scarlett Sage Ave
Sample Location / Notes:	Inlet Decks; Alpine Phlox and Scarlett Sage Ave

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Cloudy	Consistency:	Slump	Plastic Unit Weight:	
Air Temperature (F):	72	Concrete Temp (F):		Air Content:	
				Load Volume:	5.00 (yd ³)

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
24-1	15 FC	06/21/22	15 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 06/21/2022 (1)

General Remarks

Canceled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000021

06/07/2022

Report Date: 06/21/2022

Sample: 101664

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	25	Technician:	Perotin, Austin	Batched:	
Specimen Size:	4" X 8"	Cast By:	Perotin, Austin	Sampled:	14:00 MDT
Specimens In Set:	1	Date Cast:	06/07/22	Cast:	14:15 MDT
Truck / Ticket #:		Sampled From:	Other	Truck Empty:	
Contractor:	JBS	Placement Method:		Placement Time:	

Location

Placement Location:	Cancelled on Site
Location Details:	Inlet Decks; Alpine Phlox and Scarlett Sage Ave
Sample Location / Notes:	Inlet Decks; Alpine Phlox and Scarlett Sage Ave

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Partly Cloudy	Consistency:	Slump	Plastic Unit Weight:	
Air Temperature (F):	75	Concrete Temp (F):		Air Content:	
				Load Volume:	5.00 (yd³)

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
25-1	14 FC	06/21/22	14 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 06/21/2022 (1)

General Remarks

Canceled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000022

06/08/2022

Report Date: 06/27/2022

Sample: 101934

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	27	Technician:	Perotin, Austin	Batched:	
Specimen Size:	4" X 8"	Cast By:	Perotin, Austin	Sampled:	08:30 MDT
Specimens In Set:	1	Date Cast:	06/08/22	Cast:	08:45 MDT
Truck / Ticket #:		Sampled From:	Other	Truck Empty:	
Contractor:	JBS	Placement Method:		Placement Time:	

Location

Placement Location:	Cancelled on Site
Location Details:	Inlet decks; Alpine phlox and Scarlett Sage Ave
Sample Location / Notes:	Inlet decks; Alpine phlox and Scarlett Sage Ave

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Partly Cloudy	Consistency:	Slump	Plastic Unit Weight:	
Air Temperature (F):	55	Concrete Temp (F):		Air Content:	
				Load Volume:	5.00 (yd³)

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
27-1	19 FC	06/27/22	19 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 06/27/2022 (1)

General Remarks

Canceled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000023

06/09/2022

Report Date: 06/27/2022

Sample: 101935

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	28	Technician:	Perotin, Austin	Batched:	
Specimen Size:	4" X 8"	Cast By:	Perotin, Austin	Sampled:	13:00 MDT
Specimens In Set:	1	Date Cast:	06/09/22	Cast:	13:15 MDT
Truck / Ticket #:		Sampled From:	Other	Truck Empty:	
Contractor:	JBS	Placement Method:		Placement Time:	

Location

Placement Location:	Cancelled on Site
Location Details:	Inlet decks; Alpine phlox and Scarlett Sage Ave
Sample Location / Notes:	Inlet decks; Alpine phlox and Scarlett Sage Ave

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Cloudy	Consistency:	Slump	Plastic Unit Weight:	
Air Temperature (F):	75	Concrete Temp (F):		Air Content:	
				Load Volume:	5.00 (yd³)

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
28-1	18 FC	06/27/22	18 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 06/27/2022 (1)

General Remarks

Canceled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000024

05/10/2022

Report Date: 07/07/2022

Sample: 99959

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 17	Technician: Windus, Cory	Batched:
Specimen Size: 4" X 8"	Cast By: Windus, Cory	Sampled: 11:54 MDT
Specimens In Set: 5	Date Cast: 05/10/22	Cast: 12:09 MDT
Truck / Ticket #:	Sampled From: Chute	Truck Empty:
Contractor: Thoutt Bros	Placement Method: Curb & Gutter	Placement Time:

Location

Placement Location: Sidewalk
Location Details: Southside of Field Mint Lane.
Sample Location / Notes: South side of Field Mint Ave, Lot 5, Block 1, 100' east from intersection of Field Mint Ave and Alpine Philox Lane

Batch Log

Supplier: Concrete Direct
Plant: 912
On-Site Admixtures: None

Mix Design: 7456122

Specifications

Strength: 4500 (psi)

Field Measurements

Weather: Sunny	Slump (in): 1-3/4	Plastic Unit Weight: 143.6 (lb/ft³)
Air Temperature (F): 70	Concrete Temp (F): 78	Air Content: 6.5
		Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 76/76

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
17-1	7 FC	05/17/22	1 / 6	4.00	12.57	45,957	3,660	2		N
17-2	28 FC	06/07/22	1 / 27	4.00	12.57	56,438	4,490	3	C4	N
17-3	28 FC	06/07/22	1 / 27	4.00	12.57	55,787	4,440	2	C2	N
17-4	28 FC	06/07/22	1 / 27	4.00	12.57	51,946	4,130	2	C2	N
17-5	56 FC	07/05/22	1 / 55	4.00	12.57	61,325	4,880	5	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3660, 28 Day FC - 4350, 56 Day FC - 4880

Capping Methods

C4: Strength is greater than or equal to f_c.
C2: Strength is less than f_c. One cylinder will be held to break at 56 days.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 05/11/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000025

06/22/2022

Report Date: 07/25/2022

Sample: 101811

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 26	Technician: West, Dylan	Batched: 07:40 MDT
Specimen Size: 4" X 8"	Cast By: West, Dylan	Sampled: 08:40 MDT
Specimens In Set: 5	Date Cast: 06/22/22	Cast: 08:55 MDT
Truck / Ticket #: C8032 / 20451191	Sampled From: Chute	Truck Empty:
Contractor: JBS	Placement Method: Chute	Placement Time:

Location

Placement Location: Inlet Base
Location Details: Alpine Phlox & Scarlett Sage
Sample Location / Notes: Inlet 36

Batch Log

Supplier: Burnco	Mix Design: 45J1C1C4C
Plant: 609	
On-Site Admixtures: 3.00 Gal Water (5 yd ³)	

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	3 - 5 (in)

Field Measurements

Weather:	Slump (in): 4	Plastic Unit Weight: 144.0 (lb/ft ³)
Air Temperature (F):	Concrete Temp (F): 75	Air Content: 5.3
		Load Volume: 5.00 (yd ³)

Standard Cure

Field Cure

Min / Max Temp (F): 69/79

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
26-1	7 FC	06/29/22	2 / 5	4.00	12.57	44,514	3,540	5		N
26-2	28 FC	07/20/22	2 / 26	4.00	12.57	59,144	4,710	2	C4	N
26-3	28 FC	07/20/22	2 / 26	4.00	12.57	60,134	4,780	5	C4	N
26-4	28 FC	07/20/22	2 / 26	4.00	12.57	64,299	5,120	5	C4	N
26-5	28 FC	07/20/22	2 / 26	4.00	12.57	63,579	5,060	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3540, 28 Day FC - 4920

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 06/24/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000026

06/23/2022

Report Date: 07/25/2022

Sample: 101943

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 29	Technician: West, Dylan	Batched: 07:32 MDT
Specimen Size: 4" X 8"	Cast By: West, Dylan	Sampled: 08:55 MDT
Specimens In Set: 5	Date Cast: 06/23/22	Cast: 09:10 MDT
Truck / Ticket #: 1216 / 20451630	Sampled From: Chute	Truck Empty:
Contractor: JBS	Placement Method: Chute	Placement Time:

Location

Placement Location: Inlet Base
Location Details: Alpine Phlox & Scarlett Sage
Sample Location / Notes: Inlet 44

Batch Log

Supplier: Burnco	Mix Design: 45J1C1C4C
Plant: 609	

On-Site Admixtures: 0.50 Bag AEA-Air Entraining Admixture (4.5 yd³)

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	3 - 5 (in)

Field Measurements

Weather:	Slump (in): 4-1/2	Plastic Unit Weight: 141.6 (lb/ft ³)
Air Temperature (F):	Concrete Temp (F): 82	Air Content: 6.5
		Load Volume: 5.00 (yd ³)

Standard Cure

Field Cure

Min / Max Temp (F): 56/95

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
29-2	28 FC	07/21/22	1 / 27	4.00	12.57	56,316	4,480	2	C4	N
29-3	28 FC	07/21/22	1 / 27	4.00	12.57	56,001	4,460	2	C2	N
29-4	28 FC	07/21/22	1 / 27	4.00	12.57	58,925	4,690	2	C4	N
29-5	28 FC	07/21/22	1 / 27	4.00	12.57	59,147	4,710	2	C4	N

Test Age Average Strengths (psi): 28 Day FC - 4580

Capping Methods

C4: Strength is greater than or equal to f_c.
C2: Strength is less than f_c. One cylinder will be held to break at 56 days.
Tested By: Patrick Patterson (2,3,4,5)
Checked In : 06/24/2022 (2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000027

06/23/2022

Report Date: 07/25/2022

Sample: 101945

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	30	Technician:	West, Dylan	Batched:	12:05 MDT
Specimen Size:	4" X 8"	Cast By:	West, Dylan	Sampled:	12:45 MDT
Specimens In Set:	5	Date Cast:	06/23/22	Cast:	13:00 MDT
Truck / Ticket #:	V8644 / 85621822	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Bros Concrete	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: Scarlett Sage Ave & Beebalm Ave
Sample Location / Notes: NE corner of intersection, 30' east

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	4065A	Strength:	4500 (psi)
Plant:	925			Air:	5 - 8 (%)
On-Site Admixtures:	None			Slump:	3 - 5 (in)

Specifications

Field Measurements

Weather:	Slump (in):	5	Plastic Unit Weight:	138.8 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	75	Air Content:	7.9
			Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 56/95

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
30-1	7 FC	06/30/22	1 / 6	4.00	12.57	58,035	4,620	3		N
30-2	28 FC	07/21/22	1 / 27	4.00	12.57	67,113	5,340	3	C4	N
30-3	28 FC	07/21/22	1 / 27	4.00	12.57	70,868	5,640	3	C4	N
30-4	28 FC	07/21/22	1 / 27	4.00	12.57	68,476	5,450	3	C4	N
30-5	28 FC	07/21/22	1 / 27	4.00	12.57	67,532	5,370	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4620, 28 Day FC - 5450

Capping Methods

C4: Strength is greater than or equal to f _c . Tested By: Patrick Patterson (1,2,3,4,5) Checked In : 06/24/2022 (1,2,3,4,5)	N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000028

06/24/2022

Report Date: 07/25/2022

Sample: 101992

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	31	Technician:	West, Dylan	Batched:	11:49 MDT
Specimen Size:	4" X 8"	Cast By:	West, Dylan	Sampled:	12:30 MDT
Specimens In Set:	5	Date Cast:	06/24/22	Cast:	12:45 MDT
Truck / Ticket #:	9229 / 62329187	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Bros Concrete	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: Scarlett Sage Ave & Beebalm Ave
Sample Location / Notes: Scarlett Sage Ave & Beebalm Ave. SE corner of intersection, 150' east

Batch Log

Supplier: Aggregate Industries-Denver
Plant: 912
On-Site Admixtures: None

Mix Design: 4065A

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 3 - 5 (in)

Field Measurements

Weather:
Air Temperature (F):

Slump (in): 4
Concrete Temp (F): 79

Plastic Unit Weight: 142.4 (lb/ft³)
Air Content: 5.7
Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 70/73

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
31-1	7 FC	07/01/22	3 / 4	4.00	12.57	61,617	4,900	5		N
31-2	28 FC	07/22/22	3 / 25	4.00	12.57	73,455	5,840	2	C4	N
31-3	28 FC	07/22/22	3 / 25	4.00	12.57	74,960	5,960	2	C4	N
31-4	28 FC	07/22/22	3 / 25	4.00	12.57	68,155	5,420	5	C4	N
31-5	28 FC	07/22/22	3 / 25	4.00	12.57	74,561	5,930	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4900, 28 Day FC - 5790

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 06/27/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000029

06/22/2022

Report Date: 07/27/2022

Sample: 103187

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 35	Technician: Perotin, Austin	Batched:
Specimen Size: 4" X 8"	Cast By: Perotin, Austin	Sampled: 13:00 MDT
Specimens In Set: 1	Date Cast: 06/22/22	Cast: 13:15 MDT
Truck / Ticket #:	Sampled From: Other	Truck Empty:
Contractor: JBS	Placement Method:	Placement Time:

Location

Placement Location: Cancelled on Site
Location Details: Inlet base Alpine Phlox and Scarlett Sage Ave
Sample Location / Notes: Alpine Phlox and Scarlett Sage Ave

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather: Sunny	Consistency: Slump	Plastic Unit Weight:
Air Temperature (F): 95	Concrete Temp (F):	Air Content:
		Load Volume: 5.00 (yd ³)

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
35-1	35 FC	07/27/22	35 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 07/27/2022 (1)

General Remarks

Cancelled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000030

07/26/2022

Report Date: 07/27/2022

Sample: 103266

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	36	Technician:	Sleight, Jordan	Batched:	
Specimen Size:	4" X 8"	Cast By:	Sleight, Jordan	Sampled:	
Specimens In Set:	1	Date Cast:	07/26/22	Cast:	00:01 MDT
Truck / Ticket #:		Sampled From:	Other	Truck Empty:	
Contractor:	Jbs	Placement Method:	Other	Placement Time:	

Location

Placement Location:	Cancelled on Site
Location Details:	Inlet Footing. Alpine Phlox and Scarlet Sage
Sample Location / Notes:	Alpine Phlox and Scarlet Sage

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Consistency:	Slump	Plastic Unit Weight:
Air Temperature (F):	Concrete Temp (F):		Air Content:
			Load Volume:

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
36-1	1 FC	07/27/22	1 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 07/27/2022 (1)

General Remarks

Cancelled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000031

06/06/2022

Report Date: 08/09/2022

Sample: 101336

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	21	Technician:	Perotin, Austin	Batched:	
Specimen Size:	4" X 8"	Cast By:	Perotin, Austin	Sampled:	10:35 MDT
Specimens In Set:	5	Date Cast:	06/06/22	Cast:	10:50 MDT
Truck / Ticket #:		Sampled From:	Chute	Truck Empty:	
Contractor:	Thouett	Placement Method:	Curb & Gutter	Placement Time:	

Location

Placement Location: Curb and Gutter
 Location Details: Alpine Phlox Lane and Field Mint Ave
 Sample Location / Notes: S side of Field Mint Ave Block 4 Lot 1

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather: Cloudy Slump (in): 3 Plastic Unit Weight: 143.3 (lb/ft³)
 Air Temperature (F): 72 Concrete Temp (F): 73 Air Content: 5.6
 Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 65/77

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
21-1	7 FC	06/13/22	4 / 3	4.00	12.57	48,830	3,890	2		N
21-2	29 FC	07/05/22	4 / 25	4.00	12.57	57,308	4,560	2	C4	N
21-3	29 FC	07/05/22	4 / 25	4.00	12.57	57,032	4,540	2	C4	N
21-4	29 FC	07/05/22	4 / 25	4.00	12.57	56,924	4,530	3	C4	N
21-5	56 FC	08/01/22	4 / 52	4.00	12.57	74,166	5,900	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 3890, 29 Day FC - 4540, 56 Day FC - 5900

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 06/10/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000032

06/06/2022

Report Date: 08/09/2022

Sample: 101337

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	22	Technician:	Perotin, Austin	Batched:	
Specimen Size:	4" X 8"	Cast By:	Perotin, Austin	Sampled:	13:25 MDT
Specimens In Set:	5	Date Cast:	06/06/22	Cast:	13:40 MDT
Truck / Ticket #:		Sampled From:	Chute	Truck Empty:	
Contractor:	Thouett	Placement Method:	Curb & Gutter	Placement Time:	

Location

Placement Location: Curb and Gutter
Location Details: Alpine Phlox Lane and Field Mint Ave
Sample Location / Notes: W side of Field Mint Ave, Block 3 Lot 8

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Cloudy	Slump (in):	3	Plastic Unit Weight:	143.3 (lb/ft³)
Air Temperature (F):	72	Concrete Temp (F):	73	Air Content:	5.6
				Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 65/77

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
22-1	7 FC	06/13/22	4 / 3	4.00	12.57	40,770	3,240	3		N
22-2	29 FC	07/05/22	4 / 25	4.00	12.57	59,612	4,740	2	C4	N
22-3	29 FC	07/05/22	4 / 25	4.00	12.57	55,829	4,440	5	C2	N
22-4	29 FC	07/05/22	4 / 25	4.00	12.57	55,682	4,430	2	C2	N
22-5	56 FC	08/01/22	4 / 52	4.00	12.57	53,877	4,290	3	C3	N

Test Age Average Strengths (psi): 7 Day FC - 3240, 29 Day FC - 4540, 56 Day FC - 4290

Capping Methods

C4: Strength is greater than or equal to f_c.
C2: Strength is less than f_c. One cylinder will be held to break at 56 days.
C3: Strength is less than f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 06/10/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000033

06/06/2022

Report Date: 08/09/2022

Sample: 101338

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	23	Technician:	Perotin, Austin	Batched:	
Specimen Size:	4" X 8"	Cast By:	Perotin, Austin	Sampled:	09:35 MDT
Specimens In Set:	5	Date Cast:	06/06/22	Cast:	09:50 MDT
Truck / Ticket #:		Sampled From:	Chute	Truck Empty:	
Contractor:	JBS	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Various
Location Details: Scarlett Sage Ave and Alpine Phlox Road
Sample Location / Notes: B-63

Batch Log

Supplier:	Concrete Direct	Mix Design:	745612	Strength:	4500 (psi)
Plant:	907				
On-Site Admixtures:	None				

Specifications

Field Measurements

Weather:	Sunny	Slump (in):	4-1/4	Plastic Unit Weight:	140.4 (lb/ft³)
Air Temperature (F):	58	Concrete Temp (F):	76	Air Content:	6.2
				Load Volume:	5.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 64/76

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
23-1	8 FC	06/14/22	5 / 3	4.00	12.57	30,341	2,410	2	C1	N
23-2	29 FC	07/05/22	5 / 24	4.00	12.57	57,232	4,550	2	C4	N
23-3	29 FC	07/05/22	5 / 24	4.00	12.57	55,650	4,430	3	C2	N
23-4	29 FC	07/05/22	5 / 24	4.00	12.57	57,883	4,610	3	C4	N
23-5	57 FC	08/02/22	5 / 52	4.00	12.57	41,297	3,290	2	C3	N

Test Age Average Strengths (psi): 8 Day FC - 2410, 29 Day FC - 4530

Capping Methods

C1: Strength is less than 70 percent of f'c. C4: Strength is greater than or equal to f'c. C2: Strength is less than f'c. One cylinder will be held to break at 56 days. C3: Strength is less than f'c. Tested By: Patrick Patterson (1,2,3,4,5) Checked In : 06/11/2022 (1,2,3,4,5)	N: Unbonded Caps (ASTM C1231)



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000034

07/11/2022

Report Date: 08/09/2022

Sample: 102532

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	32	Technician:	Sleight, Jordan	Batched:	08:13 MDT
Specimen Size:	4" X 8"	Cast By:	Sleight, Jordan	Sampled:	10:00 MDT
Specimens In Set:	5	Date Cast:	07/11/22	Cast:	10:15 MDT
Truck / Ticket #:	9252 / 84622260	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt bros concrete	Placement Method:	Tremie	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: Alpine Phlox Ln and Beebalm Trail

Sample Location / Notes: 60 yards NE from intersection of Alpine Phlox and Beebalm Trail

Batch Log

Supplier: Concrete Direct
Plant: 925

Mix Design: Ob65bl,zf25

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 3 - 5 (in)

Field Measurements

Weather: Overcast	Slump (in): 4	Plastic Unit Weight: 137.2 (lb/ft³)
Air Temperature (F): 60	Concrete Temp (F): 75	Air Content: 5.0
		Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 68/72

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
32-1	7 FC	07/18/22	1 / 6	4.00	12.57	54,446	4,330	3		N
32-2	28 FC	08/08/22	1 / 27	4.00	12.57	67,110	5,340	3	C4	N
32-3	28 FC	08/08/22	1 / 27	4.00	12.57	68,359	5,440	3	C4	N
32-4	28 FC	08/08/22	1 / 27	4.00	12.57	63,982	5,090	5	C4	N
32-5	28 FC	08/08/22	1 / 27	4.00	12.57	62,868	5,000	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4330, 28 Day FC - 5220

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 07/12/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000035

08/02/2022

Report Date: 08/16/2022

Sample: 103998

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	37	Technician:	Gale, Andrew	Batched:	
Specimen Size:	4" X 8"	Cast By:	Gale, Andrew	Sampled:	
Specimens In Set:	1	Date Cast:	08/02/22	Cast:	
Truck / Ticket #:	No ticket available / No test taken	Sampled From:	Chute	Truck Empty:	
Contractor:	JBS	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Cancelled on Site
Location Details: Inlet footing. Alpine Phlox and Scarlet Sage
Sample Location / Notes: Inlet footings. Alpine Phlox and Scarlet Sage

Batch Log

On-Site Admixtures: None	Strength: 4500 (psi)

Field Measurements

Weather:	Slump (in): 0	Plastic Unit Weight: 0.0 (lb/ft ³)
Air Temperature (F):	Concrete Temp (F): 0	Air Content: 0.0
		Load Volume: 10.00 (yd ³)

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
37-1	9 FC	08/11/22	9 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 08/11/2022 (1)

General Remarks

Cancelled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000036

07/12/2022

Report Date: 08/16/2022

Sample: 102583

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	33	Technician:	Sleight, Jordan	Batched:	08:20 MDT
Specimen Size:	4" X 8"	Cast By:	Sleight, Jordan	Sampled:	09:30 MDT
Specimens In Set:	5	Date Cast:	07/12/22	Cast:	09:45 MDT
Truck / Ticket #:	9220 / 97990254	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt bros concrete	Placement Method:	Curb & Gutter	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: Scarlet Sage and Beebalm Trail
 Sidewalk
Sample Location / Notes: Sidewalk on Field Mint about 350 yards from Beebalm on north side of street

Batch Log

Supplier: Concrete Direct
Plant: 912
On-Site Admixtures: None

Mix Design: Ob65bl,zf25

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 3 - 5 (in)

Field Measurements

Weather: Sunny no wind	Slump (in): 3-1/2	Plastic Unit Weight: 142.2 (lb/ft³)
Air Temperature (F): 72	Concrete Temp (F): 78	Air Content: 5.0
		Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 68/72

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
33-1	7 FC	07/19/22	1 / 6	4.00	12.57	52,478	4,180	5		N
33-2	28 FC	08/09/22	1 / 27	4.00	12.57	65,875	5,240	2	C4	N
33-3	28 FC	08/09/22	1 / 27	4.00	12.57	67,350	5,360	3	C4	N
33-4	28 FC	08/09/22	1 / 27	4.00	12.57	69,595	5,540	2	C4	N
33-5	28 FC	08/09/22	1 / 27	4.00	12.57	68,436	5,440	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4180, 28 Day FC - 5400

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 07/13/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000037

07/12/2022

Report Date: 08/16/2022

Sample: 102618

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	34	Technician:	Sleight, Jordan	Batched:	15:41 MDT
Specimen Size:	4" X 8"	Cast By:	Sleight, Jordan	Sampled:	14:30 MDT
Specimens In Set:	5	Date Cast:	07/12/22	Cast:	14:45 MDT
Truck / Ticket #:	9229 / 97990302	Sampled From:	Chute	Truck Empty:	
Contractor:	DR Horton	Placement Method:	Tremie	Placement Time:	

Location

Placement Location:	Sidewalk
Location Details:	Scarlet Sage & Beebalm Trail
Sample Location / Notes:	Sidewalk on Field Mint south side of street about 100' E of Beebalm

Batch Log

Supplier: Concrete Direct
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 3 - 5 (in)

Field Measurements

Weather:	Slump (in):	1	Plastic Unit Weight:	142.0 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	88	Air Content:	5.0
			Load Volume:	6.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 68/72

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
34-1	7 FC	07/19/22	1 / 6	4.00	12.57	65,529	5,210	2		N
34-2	28 FC	08/09/22	1 / 27	4.00	12.57	83,872	6,670	2	C4	N
34-3	28 FC	08/09/22	1 / 27	4.00	12.57	78,184	6,220	5	C4	N
34-4	28 FC	08/09/22	1 / 27	4.00	12.57	80,401	6,400	5	C4	N
34-5	28 FC	08/09/22	1 / 27	4.00	12.57	67,591	5,380	3	C4	N

Test Age Average Strengths (psi): 7 Day FC - 5210, 28 Day FC - 6170

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 07/13/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000038

08/10/2022

Report Date: 09/23/2022

Sample: 104032

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	38	Technician:	Balderrama-Gonzales, Raul	Batched:	09:32 MDT
Specimen Size:	4" X 8"			Sampled:	10:50 MDT
Specimens In Set:	5	Cast By:	Balderrama-Gonzales, Raul	Cast:	11:05 MDT
Truck / Ticket #:	C8023 / 20467205	Date Cast:	08/10/22	Truck Empty:	
Contractor:	JBS	Sampled From:	Chute	Placement Time:	
		Placement Method:	Chute		

Location

Placement Location:	Inlet Wall
Location Details:	Inlet 44, N wall heading E
Sample Location / Notes:	Inlet 44, N wall heading E

Batch Log

Supplier:	Burnco	Mix Design:	45J1C1C4C	Strength:	4500 (psi)
Plant:	609			Air:	5 - 8 (%)
On-Site Admixtures:	14.00 Gal Water (10 yd³)			Slump:	3 - 5 (in)

Specifications

Field Measurements

Weather:	Hot	Slump (in):	4	Plastic Unit Weight:	142.0 (lb/ft³)
Air Temperature (F):	90	Concrete Temp (F):	86	Air Content:	6.0
				Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

	Min / Max Temp (F):	68/73

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
38-1	7 FC	08/17/22	7 / 0	4.00	12.57	47,870	3,810	2		N
38-2	28 FC	09/07/22	7 / 21	4.00	12.57	65,122	5,180	3	C4	N
38-3	28 FC	09/07/22	7 / 21	4.00	12.57	62,666	4,990	2	C4	N
38-4	28 FC	09/07/22	7 / 21	4.00	12.57	62,842	5,000	2	C4	N
38-5	28 FC	09/07/22	7 / 21	4.00	12.57	60,534	4,820	2	C4	N

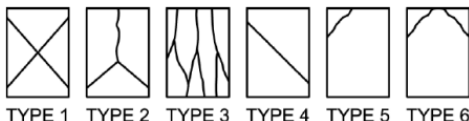
Test Age Average Strengths (psi): 7 Day FC - 3810, 28 Day FC - 5000

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 08/17/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by ER.





CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000039

08/19/2022

Report Date: 09/23/2022

Sample: 104451

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	40	Technician:	Richardson, Colby	Batched:	09:46 MDT
Specimen Size:	4" X 8"	Cast By:	Richardson, Colby	Sampled:	10:40 MDT
Specimens In Set:	5	Date Cast:	08/19/22	Cast:	10:55 MDT
Truck / Ticket #:	9226 / 84623401	Sampled From:	Chute	Truck Empty:	
Contractor:	DR Horton	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Curb and Gutter
Location Details: Intersection of Beebalm Loop and Beebalm Ave
Sample Location / Notes: NE corner curb of intersection

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	945662
Plant:	925		
On-Site Admixtures: None			

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Slump (in): 3-1/2	Plastic Unit Weight: 142.9 (lb/ft³)
Air Temperature (F):	Concrete Temp (F): 79	Air Content: 5.5
		Load Volume: 8.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 80/84

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
40-1	7 FC	08/26/22	3 / 4	4.00	12.57	72,000	5,730	3		N
40-2	28 FC	09/16/22	3 / 25	4.00	12.57	83,676	6,660	2	C4	N
40-3	28 FC	09/16/22	3 / 25	4.00	12.57	81,830	6,510	3	C4	N
40-4	28 FC	09/16/22	3 / 25	4.00	12.57	82,472	6,560	3	C4	N
40-5	28 FC	09/16/22	3 / 25	4.00	12.57	83,257	6,620	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 5730, 28 Day FC - 6590

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 08/22/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000040

08/22/2022

Report Date: 09/23/2022

Sample: 104430

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	39	Technician:	Munoz, Jose	Batched:	
Specimen Size:	4" X 8"	Cast By:	Munoz, Jose	Sampled:	10:30 MDT
Specimens In Set:	5	Date Cast:	08/22/22	Cast:	10:40 MDT
Truck / Ticket #:	9242 / 84623439	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt bros	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: 5ft southwest of 18230 Field Mint Avenue
Sample Location / Notes: 5ft southwest of 18230 Field Mint Avenue

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	9456623
Plant:	925		
On-Site Admixtures: None			

Specifications

Strength:	4500 (psi)
Air:	4 - 8 (%)
Slump:	4 - 8 (in)

Field Measurements

Weather:		Slump (in):	5	Plastic Unit Weight:	139.5 (lb/ft³)
Air Temperature (F):		Concrete Temp (F):	80	Air Content:	5.5
				Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 60/80

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
39-1	7 FC	08/29/22	3 / 4	4.00	12.57	63,012	5,010	2		N
39-2	28 FC	09/19/22	3 / 25	4.00	12.57	76,752	6,110	3	C4	N
39-3	28 FC	09/19/22	3 / 25	4.00	12.57	72,392	5,760	3	C4	N
39-4	28 FC	09/19/22	3 / 25	4.00	12.57	74,100	5,900	3	C4	N
39-5	28 FC	09/19/22	3 / 25	4.00	12.57	74,143	5,900	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 5010, 28 Day FC - 5920

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 08/25/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000041

08/23/2022

Report Date: 09/23/2022

Sample: 104501

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	41	Technician:	Munoz, Jose	Batched:	
Specimen Size:	4" X 8"	Cast By:	Munoz, Jose	Sampled:	10:45 MDT
Specimens In Set:	5	Date Cast:	08/23/22	Cast:	10:55 MDT
Truck / Ticket #:	9242 /	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Bros	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Curb and Gutter
Location Details: South east corner of Black Sedge Circle and Scarlet Sage Ave
Sample Location / Notes: Southeast corner Black Sedge Circle

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	945662
Plant:	925		
On-Site Admixtures: None			

Specifications

Strength:	4500 (psi)
Air:	4 - 7 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:		Slump (in):	4	Plastic Unit Weight:	140.5 (lb/ft³)
Air Temperature (F):		Concrete Temp (F):	82	Air Content:	5.5
				Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 60/80

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
41-1	7 FC	08/30/22	2 / 5	4.00	12.57	59,546	4,740	5		N
41-2	28 FC	09/20/22	2 / 26	4.00	12.57	76,452	6,080	5	C4	N
41-3	28 FC	09/20/22	2 / 26	4.00	12.57	75,115	5,980	2	C4	N
41-4	28 FC	09/20/22	2 / 26	4.00	12.57	76,378	6,080	3	C4	N
41-5	28 FC	09/20/22	2 / 26	4.00	12.57	68,024	5,410	5	C4	N

Test Age Average Strengths (psi): 7 Day FC - 4740, 28 Day FC - 5890

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 08/25/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000042

08/24/2022

Report Date: 09/23/2022

Sample: 104619

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	42	Technician:	Munoz, Jose	Batched:	
Specimen Size:	4" X 8"	Cast By:	Munoz, Jose	Sampled:	11:00 MDT
Specimens In Set:	5	Date Cast:	08/24/22	Cast:	11:30 MDT
Truck / Ticket #:	9265 / 84623521	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Bros	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Curb and Gutter
Location Details: 10 yards from northwest corner of Field Mint Terrace and Bee Balm Ave
Sample Location / Notes: 10 yards from northwest corner of Field Mint Terrace and Bee Balm Ave

Batch Log

Supplier: Aggregate Industries-Denver
Plant: 925
On-Site Admixtures: None
Mix Design: 945662

Specifications

Strength: 4500 (psi)
Air: 4 - (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:
Air Temperature (F):
Slump (in): 4
Concrete Temp (F): 82
Plastic Unit Weight: 140.5 (lb/ft³)
Air Content: 4.0
Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 60/80

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
42-1	7 FC	08/31/22	1 / 6	4.00	12.57	70,352	5,600	2		N
42-2	28 FC	09/21/22	1 / 27	4.00	12.57	79,854	6,350	3	C4	N
42-3	28 FC	09/21/22	1 / 27	4.00	12.57	71,488	5,690	2	C4	N
42-4	28 FC	09/21/22	1 / 27	4.00	12.57	74,444	5,920	2	C4	N
42-5	28 FC	09/21/22	1 / 27	4.00	12.57	77,620	6,180	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 5600, 28 Day FC - 6030

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 08/25/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000043

08/25/2022

Report Date: 09/23/2022

Sample: 104620

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	43	Technician:	Munoz, Jose	Batched:	
Specimen Size:	4" X 8"	Cast By:	Munoz, Jose	Sampled:	03:00 MDT
Specimens In Set:	5	Date Cast:	08/25/22	Cast:	03:10 MDT
Truck / Ticket #:	9226 / 84633589	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt bros	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Curb and Gutter
 Location Details: 5 yards southwest of Black Sedge Circle
 Sample Location / Notes: 5 yards southwest of Black Sedge Circle

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	945662	Strength:	4500 (psi)
Plant:	925			Air:	4 - 8 (%)
On-Site Admixtures:	None			Slump:	1 - 4 (in)

Field Measurements

Weather:	Slump (in):	4	Plastic Unit Weight:	143.5 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	80	Air Content:	6.2
			Load Volume:	10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 66/70

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
43-1	7 FC	09/01/22	1 / 6	4.00	12.57	64,995	5,170	2		N
43-2	28 FC	09/22/22	1 / 27	4.00	12.57	79,355	6,310	2	C4	N
43-3	28 FC	09/22/22	1 / 27	4.00	12.57	79,929	6,360	5	C4	N
43-4	28 FC	09/22/22	1 / 27	4.00	12.57	75,824	6,030	2	C4	N
43-5	28 FC	09/22/22	1 / 27	4.00	12.57	79,394	6,320	5	C4	N

Test Age Average Strengths (psi): 7 Day FC - 5170, 28 Day FC - 6260

Capping Methods

C4: Strength is greater than or equal to f _c . Tested By: Patrick Patterson (1,2,3,4,5) Checked In : 08/26/2022 (1,2,3,4,5)	N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000044

08/25/2022

Report Date: 09/23/2022

Sample: 104621

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	44	Technician:	Munoz, Jose	Batched:	
Specimen Size:	4" X 8"	Cast By:	Munoz, Jose	Sampled:	01:30 MDT
Specimens In Set:	5	Date Cast:	08/25/22	Cast:	01:40 MDT
Truck / Ticket #:	C8034 / 2047	Sampled From:	Chute	Truck Empty:	
Contractor:	JB's pipeline	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Inlet Wall
Location Details: Inlet 31
Sample Location / Notes: 5 yards southwest of Black Sedge Circle

Batch Log

Supplier: Burnco
Plant: 609
Mix Design: 45J1C1C4C
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 4 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather: Slump (in): 4 Plastic Unit Weight: 141.5 (lb/ft³)
Air Temperature (F): Concrete Temp (F): 82 Air Content: 5.5
Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 66/70

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
44-1	7 FC	09/01/22	1 / 6	4.00	12.57	51,654	4,110	2		N
44-2	28 FC	09/22/22	1 / 27	4.00	12.57	62,100	4,940	2	C4	N
44-3	28 FC	09/22/22	1 / 27	4.00	12.57	60,777	4,840	2	C4	N
44-4	28 FC	09/22/22	1 / 27	4.00	12.57	63,760	5,070	2	C4	N
44-5	28 FC	09/22/22	1 / 27	4.00	12.57	48,307	3,840	2	C2	N

Test Age Average Strengths (psi): 7 Day FC - 4110, 28 Day FC - 4950

Capping Methods

C4: Strength is greater than or equal to f_c.
C2: Strength is less than f_c. One cylinder will be held to break at 56 days.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 08/26/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000045

08/29/2022

Report Date: 09/27/2022

Sample: 104837

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	45	Technician:	Pena, Tilo	Batched:	
Specimen Size:	4" X 8"	Cast By:	Pena, Tilo	Sampled:	12:00 MDT
Specimens In Set:	5	Date Cast:	08/29/22	Cast:	12:15 MDT
Truck / Ticket #:	9228 / 84623660	Sampled From:	Chute	Truck Empty:	
Contractor:	Dr Horton	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: At the cross streets of Alpine Phlox and Beebalm Trail about 40ft east on the north side of Alpine Phlox
Sample Location / Notes: 40ft east of Alpine Phlox and north side

Batch Log

Supplier: Concrete Mobile Mix, LLC
Plant: 925
On-Site Admixtures: None
Mix Design: 9456623

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:
Air Temperature (F):
Slump (in): 4
Concrete Temp (F): 82
Plastic Unit Weight: 144.0 (lb/ft³)
Air Content: 6.0
Load Volume: 10.00 (yd³)

Standard Cure

Field Cure

Min / Max Temp (F): 60/80

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
45-1	7 FC	09/05/22	8 / -1	4.00	12.57	63,656	5,060	3		N
45-2	28 FC	09/26/22	8 / 20	4.00	12.57	74,664	5,940	3	C4	N
45-3	28 FC	09/26/22	8 / 20	4.00	12.57	73,497	5,850	3	C4	N
45-4	28 FC	09/26/22	8 / 20	4.00	12.57	78,988	6,280	2	C4	N
45-5	28 FC	09/26/22	8 / 20	4.00	12.57	76,934	6,120	2	C4	N

Test Age Average Strengths (psi): 7 Day FC - 5060, 28 Day FC - 6050

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 09/06/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000046

10/10/2022

Report Date: 10/12/2022

Sample: 106655

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 46	Technician: Panyavong, Kenny	Batched:
Specimen Size: 4" X 8"	Cast By: Panyavong, Kenny	Sampled:
Specimens In Set: 1	Date Cast: 10/10/22	Cast:
Truck / Ticket #:	Sampled From: Other	Truck Empty:
Contractor:	Placement Method:	Placement Time:

Location

Placement Location: Cancelled on Site
Location Details: Alpine Phlox Ln and Beenalm Trail
Sample Location / Notes: Alpine Phlox Ln and Beenalm Trail

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Consistency: Slump	Plastic Unit Weight:
Air Temperature (F):	Concrete Temp (F):	Air Content:
		Load Volume:

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
46-1	2	10/12/22	1 / 1							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 10/11/2022 (1)

General Remarks

Cancelled on Site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000048

11/22/2022

Report Date: 11/23/2022

Sample: 108568

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 48	Technician: Hajnos, Pawel	Batched:
Specimen Size: 4" X 8"	Cast By: Hajnos, Pawel	Sampled: 09:00 MST
Specimens In Set: 1	Date Cast: 11/22/22	Cast: 09:15 MST
Truck / Ticket #:	Sampled From: Other	Truck Empty:
Contractor:	Placement Method:	Placement Time:

Location

Placement Location: Cancelled on Site
Location Details: Alpine Phlox Lane sidewalk.
Sample Location / Notes: Alpine Phlox Lane sidewalk.

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Consistency: Slump	Plastic Unit Weight:
Air Temperature (F):	Concrete Temp (F):	Air Content:
		Load Volume:

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
48-1	1	11/23/22	1 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 11/23/2022 (1)

General Remarks

Cancelled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000049

11/22/2022

Report Date: 11/23/2022

Sample: 108570

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	49	Technician:	Hajnos, Pawel	Batched:	13:30 MST
Specimen Size:	4" X 8"	Cast By:	Hajnos, Pawel	Sampled:	13:30 MST
Specimens In Set:	1	Date Cast:	11/22/22	Cast:	13:45 MST
Truck / Ticket #:		Sampled From:	Other	Truck Empty:	
Contractor:		Placement Method:		Placement Time:	

Location

Placement Location: Cancelled on Site
Location Details: Alpine Phlox Lane sidewalk.
Sample Location / Notes: Alpine Phlox Lane sidewalk.

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather: Consistency: Slump
Air Temperature (F): Concrete Temp (F):
Plastic Unit Weight:
Air Content:
Load Volume:

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
49-1	1	11/23/22	1 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 11/23/2022 (1)

General Remarks

Cancelled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000050

10/12/2022

Report Date: 12/02/2022

Sample: 106780

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	47	Technician:	Lace, Zachariah	Batched:	08:32 MDT
Specimen Size:	4" X 8"	Cast By:	Lace, Zachariah	Sampled:	09:20 MDT
Specimens In Set:	5	Date Cast:	10/12/22	Cast:	09:35 MDT
Truck / Ticket #:	9262 / 97995025	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Brothers	Placement Method:	Chute	Placement Time:	

Location

Placement Location:	Curb and Gutter
Location Details:	East of Scarlet Sage Ave. Approximately 150ft off Scarlet Sage and Field Mint Rd
Sample Location / Notes:	East of Scarlet Sage Ave. Approximately 150ft off Scarlet Sage and Field Mint Rd

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	945662	Strength:	4500 (psi)
Plant:	912			Air:	5 - 8 (%)
On-Site Admixtures:	None			Slump:	3 - 5 (in)

Field Measurements

Weather:	Slump (in):	4	Plastic Unit Weight:	140.4 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	68	Air Content:	6.4
			Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F):	68/72

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
47-1	7	10/19/22	5 / 2	4.00	12.57	47,370	3,770	2		N
47-2	28	11/09/22	5 / 23	4.00	12.57	62,148	4,940	3	C4	N
47-3	28	11/09/22	5 / 23	4.00	12.57	62,039	4,940	2	C4	N
47-4	28	11/09/22	5 / 23	4.00	12.57	57,014	4,540	3	C4	N
47-5	28	11/09/22	5 / 23	4.00	12.57	58,683	4,670	3	C4	N

Test Age Average Strengths (psi): 7 Day - 3770, 28 Day - 4770

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 10/17/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by ER



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000051

12/01/2022

Report Date: 12/02/2022

Sample: 108829

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	53	Technician:	Hajnos, Pawel	Batched:	
Specimen Size:	4" X 8"	Cast By:	Hajnos, Pawel	Sampled:	14:00 MST
Specimens In Set:	1	Date Cast:	12/01/22	Cast:	14:15 MST
Truck / Ticket #:		Sampled From:	Other	Truck Empty:	
Contractor:		Placement Method:		Placement Time:	

Location

Placement Location: Cancelled on Site
 Location Details: Sidewalk, curb and gutter.
 Sample Location / Notes: Sidewalk, curb and gutter

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather: Consistency: Slump Plastic Unit Weight:
 Air Temperature (F): Concrete Temp (F): Air Content:
 Load Volume:

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
53-1	1	12/02/22	1 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 12/02/2022 (1)

General Remarks

Cancelled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000052

12/02/2022

Report Date: 12/02/2022

Sample: 108881

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 54	Technician: Hajnos, Pawel	Batched:
Specimen Size: 4" X 8"	Cast By: Hajnos, Pawel	Sampled: 09:30 MST
Specimens In Set: 1	Date Cast: 12/02/22	Cast: 09:45 MST
Truck / Ticket #:	Sampled From: Other	Truck Empty:
Contractor:	Placement Method:	Placement Time:

Location

Placement Location: Cancelled on Site
Location Details: Sidewalk
Sample Location / Notes: Sidewalk

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Consistency: Slump	Plastic Unit Weight:
Air Temperature (F):	Concrete Temp (F):	Air Content:
		Load Volume:

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
54-1	0	12/02/22	0 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 12/02/2022 (1)

General Remarks

Cancelled on site



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000053

11/23/2022

Report Date: 12/29/2022

Sample: 108680

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 50	Technician: Pena, Tilo	Batched:
Specimen Size: 4" X 8"	Cast By: Pena, Tilo	Sampled: 09:15 MST
Specimens In Set: 5	Date Cast: 11/23/22	Cast: 09:30 MST
Truck / Ticket #:	Sampled From: Chute	Truck Empty:
Contractor:	Placement Method: Chute	Placement Time:

Location

Placement Location: Sidewalk
Location Details: 14013 Alpine Phlox Ln
Sample Location / Notes: 14013 Alpine Phlox Ln

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Slump (in): 5	Plastic Unit Weight: 142.6 (lb/ft³)
Air Temperature (F):	Concrete Temp (F): 80	Air Content: 5.0
		Load Volume: 10.00 (yd³)

Standard Cure

Min / Max Temp (F): 70/70

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
50-1	7	11/30/22	2 / 5	4.00	12.57	47,950	3,820	2		N
50-2	28	12/21/22	2 / 26	4.00	12.57	74,776	5,950	3	C4	N
50-3	28	12/21/22	2 / 26	4.00	12.57	72,160	5,740	3	C4	N
50-4	28	12/21/22	2 / 26	4.00	12.57	75,407	6,000	5	C4	N
50-5	28	12/21/22	2 / 26	4.00	12.57	77,734	6,180	3	C4	N

Test Age Average Strengths (psi): 7 Day - 3820, 28 Day - 5970

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 11/25/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000054

11/28/2022

Report Date: 12/29/2022

Sample: 108722

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	51	Technician:	Hajnos, Pawel	Batched:	13:17 MST
Specimen Size:	4" X 8"	Cast By:	Hajnos, Pawel	Sampled:	13:58 MST
Specimens In Set:	5	Date Cast:	11/28/22	Cast:	14:13 MST
Truck / Ticket #:	9267 / 97997197	Sampled From:	Chute	Truck Empty:	14:24 MST
Contractor:	Thoutt Brothers	Placement Method:	Other	Placement Time:	67 (min)

Location

Placement Location:	Sidewalk
Location Details:	South sidewalk of Alpine Phlox lane, between Copperwallow Trail and Field Mint Ave
Sample Location / Notes:	South sidewalk of Alpine Phlox Lane, between Copperwallow Trail and Field Mint Ave

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	9458224.	Strength:	4500 (psi)
Plant:	912				
On-Site Admixtures:	None				

Specifications

Field Measurements

Weather:	Slump (in):	1-1/2	Plastic Unit Weight:	143.6 (lb/ft³)
Air Temperature (F): 52	Concrete Temp (F):	72	Air Content:	5.5
			Load Volume:	11.00 (yd³)

Standard Cure

Min / Max Temp (F):	60/65

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
51-1	7	12/05/22	2 / 5	4.00	12.57	56,029	4,460	2		N
51-2	28	12/26/22	2 / 26	4.00	12.57	71,900	5,720	2	C4	N
51-3	28	12/26/22	2 / 26	4.00	12.57	69,987	5,570	5	C4	N
51-4	28	12/26/22	2 / 26	4.00	12.57	69,793	5,550	2	C4	N
51-5	28	12/26/22	2 / 26	4.00	12.57	68,353	5,440	5	C4	N

Test Age Average Strengths (psi): 7 Day - 4460, 28 Day - 5570

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 11/30/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by ER



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000055

12/01/2022

Report Date: 12/29/2022

Sample: 108827

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	52	Technician:	Hajnos, Pawel	Batched:	10:45 MST
Specimen Size:	4" X 8"	Cast By:	Hajnos, Pawel	Sampled:	12:05 MST
Specimens In Set:	5	Date Cast:	12/01/22	Cast:	12:20 MST
Truck / Ticket #:	9612 / 97997274	Sampled From:	Chute	Truck Empty:	12:51 MST
Contractor:	Thoutt Brothers	Placement Method:	Curb & Gutter	Placement Time:	126 (min)

Location

Placement Location:	Curb and Gutter
Location Details:	North curb of Field Mint Place. 70' section extending south along east side of Alpine Phlox Lane from corner and Alpine Phlox Lane and Field Mint Place.
Sample Location / Notes:	30' section extending north along east side of Alpine Phlox Lane from corner of Alpine Phlox Lane and Field Mint Place.

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	9458224.	Strength:	4500 (psi)
Plant:	912				
On-Site Admixtures:	None				

Specifications

Field Measurements

Weather:	Slump (in):	1-1/2	Plastic Unit Weight:	145.2 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	75	Air Content:	5.1
			Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F):	65/73	Field Cure	
Initial Cure Method:	Box		
Final Cure Method:	Fog Room		

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
52-1	7	12/08/22	1 / 6	4.00	12.57	53,815	4,280	3		N
52-2	28	12/29/22	1 / 27	4.00	12.57	61,205	4,870	2	C4	N
52-3	28	12/29/22	1 / 27	4.00	12.57	59,735	4,750	5	C4	N
52-4	28	12/29/22	1 / 27	4.00	12.57	61,137	4,860	2	C4	N
52-5	28	12/29/22	1 / 27	4.00	12.57	57,839	4,600	2	C4	N

Test Age Average Strengths (psi): 7 Day - 4280, 28 Day - 4770

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 12/02/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by ER



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000056

12/05/2022

Report Date: 01/05/2023

Sample: 108983

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	55	Technician:	Ferrick, Jackson	Batched:	12:54 MST
Specimen Size:	4" X 8"	Cast By:	Ferrick, Jackson	Sampled:	13:40 MST
Specimens In Set:	5	Date Cast:	12/05/22	Cast:	13:55 MST
Truck / Ticket #:	9208 / 97997559	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: Alpine Phlox Lane and Field Mint Point
Sample Location / Notes: Sidewalk on the northeast side of Alpine Phlox Lane, station 20 + 90

Batch Log

Supplier: Aggregate Industries-Denver
Plant: 912
On-Site Admixtures: None

Mix Design: 9456623

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 3 - 5 (in)

Field Measurements

Weather:
Air Temperature (F):

Slump (in): 4
Concrete Temp (F): 76

Plastic Unit Weight: 142.8 (lb/ft³)
Air Content: 5.2
Load Volume: 10.00 (yd³)

Standard Cure

Min / Max Temp (F): 76/76

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
55-1	7	12/12/22	2 / 5	4.00	12.57	51,451	4,090	2		N
55-2	28	01/02/23	2 / 26	4.00	12.57	64,908	5,160	3	C4	N
55-3	28	01/02/23	2 / 26	4.00	12.57	65,445	5,210	4	C4	N
55-4	28	01/02/23	2 / 26	4.00	12.57	69,005	5,490	3	C4	N
55-5	28	01/02/23	2 / 26	4.00	12.57	65,952	5,250	3	C4	N

Test Age Average Strengths (psi): 7 Day - 4090, 28 Day - 5280

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 12/07/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000057

12/05/2022

Report Date: 01/05/2023

Sample: 108984

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	56	Technician:	Ferrick, Jackson	Batched:	14:57 MST
Specimen Size:	4" X 8"	Cast By:	Ferrick, Jackson	Sampled:	15:40 MST
Specimens In Set:	5	Date Cast:	12/05/22	Cast:	15:55 MST
Truck / Ticket #:	912 / 97997575	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: Alpine Phlox Lane and Field Mint Point
Sample Location / Notes: Sidewalk on the north side of Field Mint Point, station 13 + 55

Batch Log

Supplier: Aggregate Industries-Denver
Plant: 912
On-Site Admixtures: None

Mix Design: 9456623

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 3 - 5 (in)

Field Measurements

Weather:
Air Temperature (F):

Slump (in): 4-1/2
Concrete Temp (F): 73

Plastic Unit Weight: 142.0 (lb/ft³)
Air Content: 5.4
Load Volume: 10.00 (yd³)

Standard Cure

Min / Max Temp (F): 76/76

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
56-1	7	12/12/22	2 / 5	4.00	12.57	54,947	4,370	3		N
56-2	28	01/02/23	2 / 26	4.00	12.57	56,252	4,480	3	C4	N
56-3	28	01/02/23	2 / 26	4.00	12.57	57,159	4,550	5	C4	N
56-4	28	01/02/23	2 / 26	4.00	12.57	57,345	4,560	5	C4	N
56-5	28	01/02/23	2 / 26	4.00	12.57	56,807	4,520	5	C4	N

Test Age Average Strengths (psi): 7 Day - 4370, 28 Day - 4530

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 12/07/2022 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details										
Set #:	58	Technician:	Kepper, Adam	Batched:						
Specimen Size:	4" X 8"	Cast By:	Kepper, Adam	Sampled:	15:40 MST					
Specimens In Set:	5	Date Cast:	12/06/22	Cast:	15:55 MST					
Truck / Ticket #:	V8628 / 97997627	Sampled From:	Chute	Truck Empty:						
Contractor:	Thoutt Brothers	Placement Method:	Chute	Placement Time:						
Location										
Placement Location:	Sidewalk									
Location Details:	South side of Beebalm Ave at STA 30+50, between Crownvetch Circle and Field Mint Point									
Sample Location / Notes:	South side of Beebalm Ave on sidewalk, STA 30+50 between Crownvetch Cir and Field Mint PT									
Batch Log							Specifications			
Supplier:	Aggregate Industries-Denver	Mix Design:	945662	Strength:	4500 (psi)					
Plant:	912									
On-Site Admixtures:	None									
Field Measurements										
Weather:		Slump (in):	5	Plastic Unit Weight:	35.4 (lb/ft³)					
Air Temperature (F):		Concrete Temp (F):	70	Air Content:	5.0					
				Load Volume:	10.00 (yd³)					
Standard Cure					Field Cure					
Min / Max Temp (F):	76/76									
Lab Test Results										
Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
58-1	7	12/13/22	1 / 6	4.00	12.57	50,633	4,030	5		N
58-2	28	01/03/23	1 / 27	4.00	12.57	65,748	5,230	5	C4	N
58-3	28	01/03/23	1 / 27	4.00	12.57	64,532	5,130	5	C4	N
58-4	28	01/03/23	1 / 27	4.00	12.57	67,178	5,340	2	C4	N
58-5	28	01/03/23	1 / 27	4.00	12.57	59,849	4,760	5	C4	N
Test Age Average Strengths (psi): 7 Day - 4030, 28 Day - 5120										
								Capping Methods		
C4: Strength is greater than or equal to f _c . Tested By: Patrick Patterson (1,2,3,4,5)								N: Unbonded Caps (ASTM C1231)		
Checked In : 12/07/2022 (1,2,3,4,5)										
General Remarks										
Notified contractor of physical property results. Reviewed by ER										



TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 6

Test results relate only to the sample tested.

Page 1 of 1

Cylinders received in good condition unless noted otherwise. Physical properties of concrete (ASTM C143, C231, C138, C1064).

This Report should not be reproduced, except in full, without the prior authorization of CTLThompson Inc.



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000059

12/06/2022

Report Date: 02/07/2023

Sample: 109045

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	57	Technician:	Kepper, Adam	Batched:	11:31 MST
Specimen Size:	4" X 8"	Cast By:	Kepper, Adam	Sampled:	12:35 MST
Specimens In Set:	5	Date Cast:	12/06/22	Cast:	12:50 MST
Truck / Ticket #:	V8628 / 97997627	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Bros Concrete	Placement Method:	Chute	Placement Time:	

Location

Placement Location:	Sidewalk
Location Details:	Corner of Field Mint Point and Field Mint Ave, south side of Field Mint Point. Sta 14+50
Sample Location / Notes:	Corner of Field Mint Ave and Field Mint Poin, South side of Field Mint Point at Sta 14+50

Batch Log

Supplier:	Aggregate Industries-Denver	Mix Design:	945662	Strength:	4500 (psi)
Plant:	912				
On-Site Admixtures:	None				

Field Measurements

Weather:	Slump (in):	5-3/4	Plastic Unit Weight:	34.8 (lb/ft³)
Air Temperature (F): 70	Concrete Temp (F):	70	Air Content:	6.6
			Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F):	76/76

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
57-1	7	12/13/22	1 / 6	4.00	12.57	42,470	3,380	5		N
57-2	28	01/03/23	1 / 27	4.00	12.57	56,313	4,480	3	C4	N
57-3	28	01/03/23	1 / 27	4.00	12.57	54,286	4,320	5	C2	N
57-4	28	01/03/23	1 / 27	4.00	12.57	53,963	4,290	2	C2	N
57-5	56	01/31/23	1 / 55	4.00	12.57	61,760	4,910	3	C4	N

Test Age Average Strengths (psi): 7 Day - 3380, 28 Day - 4360, 56 Day - 4910

Capping Methods

C4: Strength is greater than or equal to f _c .	N: Unbonded Caps (ASTM C1231)
C2: Strength is less than f _c . One cylinder will be held to break at 56 days.	
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 12/07/2022 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000060

04/06/2023

Report Date: 04/10/2023

Sample: 114033

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 62	Technician: Lonquist, Michael	Batched:
Specimen Size: 4" X 8"	Cast By: Lonquist, Michael	Sampled: 16:00 MDT
Specimens In Set: 1	Date Cast: 04/06/23	Cast: 16:15 MDT
Truck / Ticket #:	Sampled From: Other	Truck Empty:
Contractor: Thoutt Bros	Placement Method: Other	Placement Time:

Location

Placement Location: Cancelled on Site
Location Details: Curb and gutter. Beebalm Loop at Alpine Phlox Lane
Sample Location / Notes: Beebalm Loop and Alpine Phlox Lane

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Consistency: Slump	Plastic Unit Weight:
Air Temperature (F):	Concrete Temp (F):	Air Content:
		Load Volume:

Standard Cure

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
62-1	4	04/10/23	4 / 0							

Capping Methods

Tested By: Patrick Patterson (1)

Checked In : 04/10/2023 (1)

General Remarks

Cancelled on site.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000061

03/21/2023

Report Date: 04/21/2023

Sample: 113039

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	61	Technician:	Lonnquist, Michael	Batched:	13:41 MDT
Specimen Size:	4" X 8"	Cast By:	Lonnquist, Michael	Sampled:	14:30 MDT
Specimens In Set:	5	Date Cast:	03/21/23	Cast:	14:45 MDT
Truck / Ticket #:	9229 / 98000730	Sampled From:	Chute	Truck Empty:	
Contractor:	Three Sons	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Inlet Wall
Location Details: Alpine Phlox Lane. SDIN 43. Walls
Sample Location / Notes: SDIN 43. Walls

Batch Log

Supplier: Holcim
Plant: 912
Mix Design: 7456120.

Specifications

Strength: 4500 (psi)

On-Site Admixtures: 1.00 Bag AEA-Air Entraining Admixture (7.5 yd³)

Field Measurements

Weather: Slump (in): 4-1/4
Air Temperature (F): Concrete Temp (F): 75
Plastic Unit Weight: 137.2 (lb/ft³)
Air Content: 6.6
Load Volume: 8.00 (yd³)

Standard Cure

Min / Max Temp (F): 70/75

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
61-1	7	03/28/23	2 / 5	4.00	12.57	46,748	3,720	3		N
61-2	28	04/18/23	2 / 26	4.00	12.57	61,726	4,910	5	C4	N
61-3	28	04/18/23	2 / 26	4.00	12.57	60,564	4,820	2	C4	N
61-4	28	04/18/23	2 / 26	4.00	12.57	59,308	4,720	3	C4	N
61-5	28	04/18/23	2 / 26	4.00	12.57	59,473	4,730	5	C4	N

Test Age Average Strengths (psi): 7 Day - 3720, 28 Day - 4800

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 03/23/2023 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by SH.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000062

03/23/2023

Report Date: 04/24/2023

Sample: 113210

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	59	Technician:	Lonnquist, Michael	Batched:	11:08 MDT
Specimen Size:	4" X 8"	Cast By:	Lonnquist, Michael	Sampled:	12:45 MDT
Specimens In Set:	5	Date Cast:	03/23/23	Cast:	13:00 MDT
Truck / Ticket #:	9104 / 866220246	Sampled From:	Chute	Truck Empty:	
Contractor:	Thoutt Bros	Placement Method:	Chute	Placement Time:	

Location

Placement Location: Sidewalk
Location Details: 25ft sections of R&R running north from Beebalm Trail on both sides of Beeblam Loop.
Sample Location / Notes: 15ft N of Beeblam Trail on west side of Beebalm Loop

Batch Log

Supplier: Holcim
Plant: 907
Mix Design: 945662

Specifications

Strength: 4500 (psi)

On-Site Admixtures: 5.00 Gal Water (10 yd³)

Field Measurements

Weather:	Slump (in): 5-1/2	Plastic Unit Weight: 139.6 (lb/ft ³)
Air Temperature (F):	Concrete Temp (F): 72	Air Content: 6.2
		Load Volume: 10.00 (yd ³)

Standard Cure

Min / Max Temp (F): 64/74

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
59-1	7	03/30/23	4 / 3	4.00	12.57	47,035	3,740	2		N
59-2	28	04/20/23	4 / 24	4.00	12.57	55,011	4,380	5	C2	N
59-3	28	04/20/23	4 / 24	4.00	12.57	57,523	4,580	5	C4	N
59-4	28	04/20/23	4 / 24	4.00	12.57	56,143	4,470	3	C2	N
59-5	28	04/20/23	4 / 24	4.00	12.57	58,265	4,640	5	C4	N

Test Age Average Strengths (psi): 7 Day - 3740, 28 Day - 4510

Capping Methods

C2: Strength is less than f_c. One cylinder will be held to break at 56 days.

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 03/27/2023 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000063

04/07/2023

Report Date: 05/11/2023

Sample: 114181

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 63	Technician: Livingston, Michael	Batched:
Specimen Size: 4" X 8"	Cast By: Livingston, Michael	Sampled: 10:15 MDT
Specimens In Set: 5	Date Cast: 04/07/23	Cast: 10:30 MDT
Truck / Ticket #:	Sampled From: Chute	Truck Empty:
Contractor:	Placement Method:	Placement Time:

Location

Placement Location: Sidewalk
Location Details: South of Alpine Phlox Lane and Field Mint Terrace on east side
Sample Location / Notes: South on east side of Alpine Phlox Lane and Mint Field Terrace

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Slump (in): 6-1/2	Plastic Unit Weight: 139.2 (lb/ft³)
Air Temperature (F):	Concrete Temp (F): 68	Air Content: 7.8
		Load Volume:

Standard Cure

Min / Max Temp (F): 40/60

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
63-1	7	04/14/23	4 / 3	4.00	12.57	54,987	4,370	2		N
63-2	28	05/05/23	4 / 24	4.00	12.57	60,605	4,820	5	C4	N
63-3	28	05/05/23	4 / 24	4.00	12.57	71,340	5,680	2	C4	N
63-4	28	05/05/23	4 / 24	4.00	12.57	57,730	4,590	5	C4	N
63-5	28	05/05/23	4 / 24	4.00	12.57	67,140	5,340	5	C4	N

Test Age Average Strengths (psi): 7 Day - 4370, 28 Day - 5110

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 04/11/2023 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000064

04/07/2023

Report Date: 05/11/2023

Sample: 114185

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #: 64	Technician: Livingston, Michael	Batched: 10:43 MDT
Specimen Size: 4" X 8"	Cast By: Livingston, Michael	Sampled: 11:40 MDT
Specimens In Set: 5	Date Cast: 04/07/23	Cast: 11:55 MDT
Truck / Ticket #: V601 / 98001490	Sampled From: Chute	Truck Empty: 12:00 MDT
Contractor: Three sons	Placement Method: Chute	Placement Time: 77 (min)

Location

Placement Location: Curb and Gutter
Location Details: South of Alpine Phlox Lane and Field Mint Terrace on east side
Sample Location / Notes: South of Alpine Phlox Lane and Field Mint Terrace on west side

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Slump (in): 4-1/4	Plastic Unit Weight: 144.4 (lb/ft³)
Air Temperature (F):	Concrete Temp (F): 75	Air Content: 6.8
		Load Volume: 7.00 (yd³)

Standard Cure

Min / Max Temp (F): 40/60

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
64-1	7	04/14/23	4 / 3	4.00	12.57	49,870	3,970	5		N
64-2	28	05/05/23	4 / 24	4.00	12.57	60,209	4,790	3	C4	N
64-3	28	05/05/23	4 / 24	4.00	12.57	56,996	4,530	2	C4	N
64-4	28	05/05/23	4 / 24	4.00	12.57	58,782	4,680	2	C4	N
64-5	28	05/05/23	4 / 24	4.00	12.57	68,270	5,430	2	C4	N

Test Age Average Strengths (psi): 7 Day - 3970, 28 Day - 4860

Capping Methods

C4: Strength is greater than or equal to f_c.

Tested By: Patrick Patterson (1,2,3,4,5)

Checked In : 04/11/2023 (1,2,3,4,5)

N: Unbonded Caps (ASTM C1231)

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



CTL THOMPSON Compressive Strength of Concrete

Founded in 1971

Test Method: ASTM C 39

Report #: CC-000065

03/31/2023

Report Date: 06/01/2023

Sample: 113693

Denver

1971 West 12th Avenue
Denver, CO 80204
Phone: 303-825-0777
Fax: 303-825-4252

Client:

D.R. Horton
9555 S. Kingston Court
Suite 200
Englewood, CO 80112

Project:

DN50626.004F-365
59 Lots, Trails at Crowfoot, Filing 11
East of N Pinery Pkwy and Bayou Gulch Rd
Parker, CO

Sample Details

Set #:	60	Technician:	Lonnquist, Michael	Batched:	13:28 MDT
Specimen Size:	4" X 8"	Cast By:	Lonnquist, Michael	Sampled:	14:20 MDT
Specimens In Set:	5	Date Cast:	03/31/23	Cast:	14:35 MDT
Truck / Ticket #:	3170 / 97698557	Sampled From:	Chute	Truck Empty:	
Contractor:	Three Sons	Placement Method:	Chute	Placement Time:	

Location

Placement Location:	Inlet Top Slab
Location Details:	Inlet SDIN43 Deck. Alpine Phlox Lane
Sample Location / Notes:	SDIN43 N side

Batch Log

Supplier:	Holcim	Mix Design:	7456120.
Plant:	926		
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)

Field Measurements

Weather:	Slump (in):	4-3/4	Plastic Unit Weight:	139.6 (lb/ft³)
Air Temperature (F):	Concrete Temp (F):	68	Air Content:	6.2
			Load Volume:	6.00 (yd³)

Standard Cure

Min / Max Temp (F):	65/65

Field Cure

Lab Test Results

Testing Lab: 22 Lipan, 22 Lipan, Denver, CO, 80223

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
60-1	7	04/07/23	4 / 3	4.00	12.57	42,834	3,410	5		N
60-2	28	04/28/23	4 / 24	4.00	12.57	54,396	4,330	2	C2	N
60-3	28	04/28/23	4 / 24	4.00	12.57	57,523	4,580	5	C4	N
60-4	28	04/28/23	4 / 24	4.00	12.57	56,513	4,500	2	C4	N
60-5	56	05/26/23	4 / 52	4.00	12.57	62,544	4,980	3	C4	N

Test Age Average Strengths (psi): 7 Day - 3410, 28 Day - 4470, 56 Day - 4980

Capping Methods

C2: Strength is less than f _c . One cylinder will be held to break at 56 days.	N: Unbonded Caps (ASTM C1231)
C4: Strength is greater than or equal to f _c .	
Tested By: Patrick Patterson (1,2,3,4,5)	
Checked In : 04/04/2023 (1,2,3,4,5)	

General Remarks

Notified contractor of physical property results. Reviewed by ER.



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6