



Construction Materials Testing
Sewerline Installation—Backfill Compaction
Gates Subdivision Unit 1
Bexar County, Texas

InTEC Project No. S232133-1
December 4, 2024

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, Texas 78233



Integrated Testing and Engineering Company of San Antonio, L.P.

Geotechnical & Environmental Engineering • Construction Services • Geologic Assessment

December 4, 2024

E.A. Palaniappan, Ph.D., P.E.
Murali Subramaniam, Ph.D., P.E.
Kausi Subramaniam, B.S.

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, Texas 78233

Attention: Ms. Jaime L. Johnson

Re: Construction Materials Testing
Sewerline Installation – Backfill Compaction
Gates Subdivision Unit 1
Bexar County, Texas

InTEC Project #: S232133-1

Ladies and Gentlemen:

Integrated Testing and Engineering Company of San Antonio, L.P. (InTEC) performed compaction evaluation at the above referenced project site between January 10, 2024 and April 15, 2024.

Field density tests were performed on an “on call” basis by the contractor. Full time observation of fill placement was not performed. The Laboratory Compaction and Field Density Tests results at the above referenced project site are presented for your review.

We appreciate and wish to thank you for the opportunity to be of service to you on this project. If we can be of additional assistance, or if you have any questions, please call us.

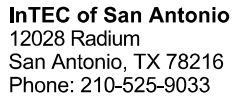
Respectfully Submitted,
InTEC of San Antonio, L.P.

Murali Subramaniam, Ph.D., P.E.

Copies Submitted: Above (1)



[Signature]
01/15/2025



Client:

Project:

S232133
Gates Subdivision Unit 1
29.381265682887246, -98.32008373231879
Bexar County, TX

Sample Number: 25738

Sample Date: 01/11/2024

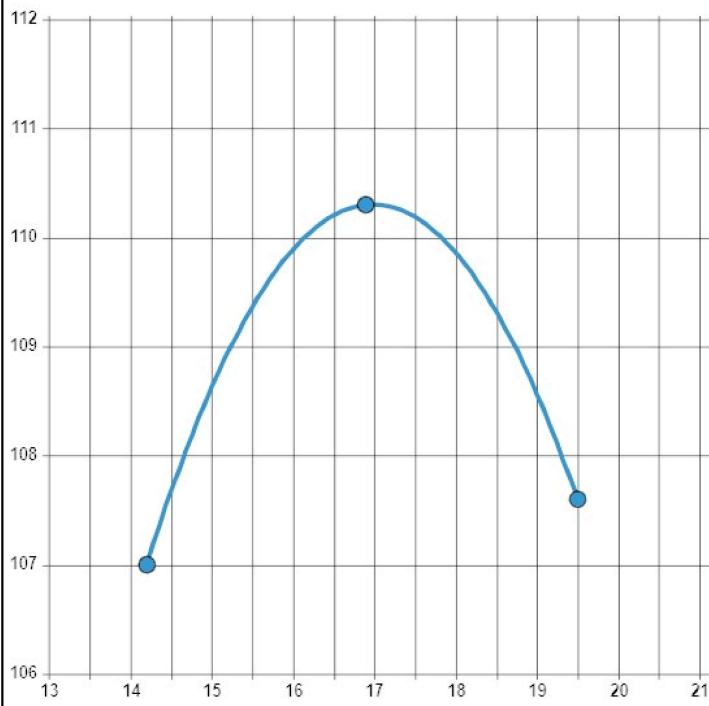
Technician: Villarreal Sr., Robert

Material Use: Utility Backfill

Sample Location: On site

Material Description: Brown Clay with Gravel

Test Method: Tex 113E



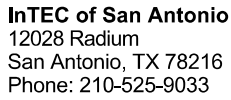
Maximum Dry Density (pcf): 110.3

Optimum Moisture (%): 17.0

Soil Classification: CH Clay with gravel

Test Completed Date: 01/15/2024

Test Completed By: Agare, Ovie



Client:

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, TX

Sample Number: 25976

Sample Date: 02/02/2024

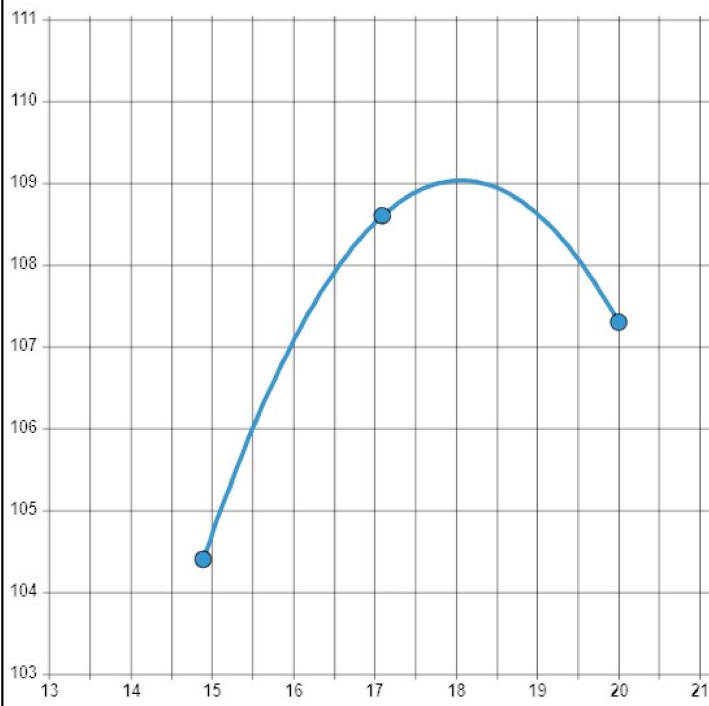
Technician: Johnson, Thomas

Material Use: Utility Backfill

Sample Location: Stockpile

Material Description: Tan Clay with Gravel

Test Method: Tex 113E



Maximum Dry Density (pcf): 109.0

Optimum Moisture (%): 18.1

Soil Classification: CH Clay

Test Completed Date: 02/06/2024

Test Completed By: Agare, Ovie



Moisture Density Relationship

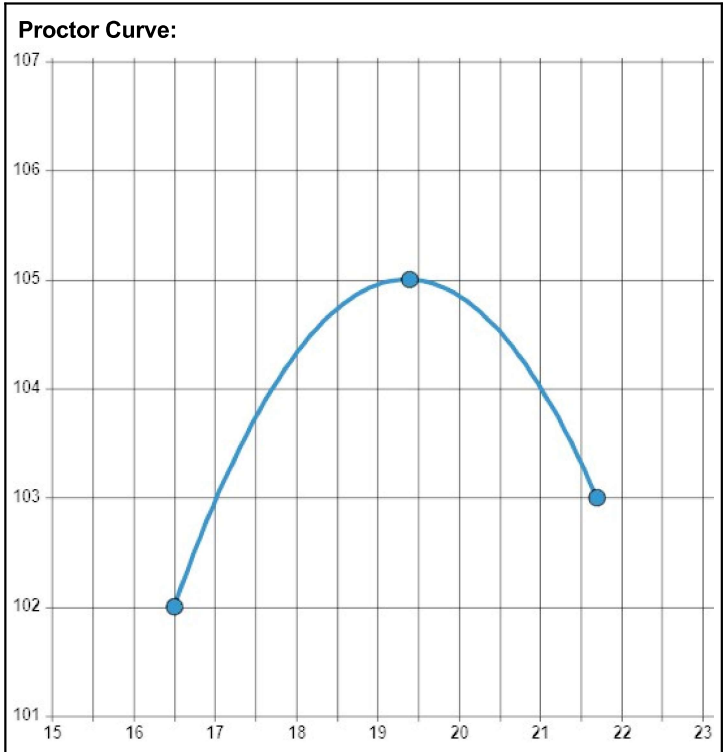
InTEC of San Antonio 12028 Radium San Antonio, TX 78216 Phone: 210-525-9033	Client: MEH Holding Company LTD 5210 Thousand Oaks, Suite 1318 San Antonio, TX 78233	Project: S232134 Gates Subdivision Unit 2 29.381265682887246, -98.32008373231879 Bexar County, TX
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SAMPLE DATA

Sample Number: 25977
Sample Date: 02/02/2024
Technician: Johnson, Thomas
Material Use: Utility Backfill
Sample Location: Stockpile
Material Description: Tan to Brown Clay with Gravel

LAB DATA

Test Method: Tex 113E



Maximum Dry Density (pcf): 105.0
Optimum Moisture (%): 19.4
Soil Classification: CH Clay with gravel

Test Completed Date: 02/06/2024
Test Completed By: Agare, Ovie



InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Moisture Density Relationship

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

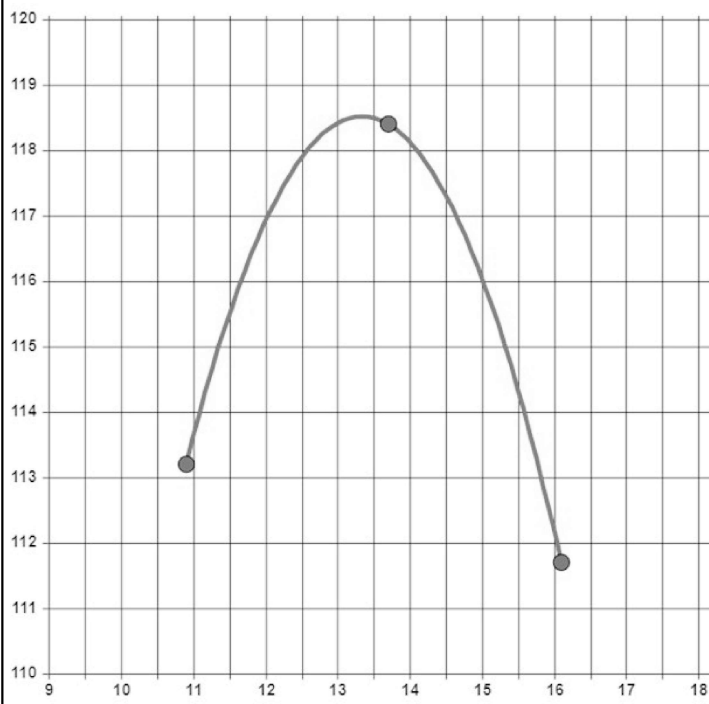
Project:

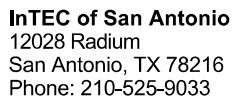
S232173
Gates Tract Off-Site Sewer
29.381265682887246, -98.32008373231879
San Antonio, TX

SAMPLE DATA

Sample Number: 25518**Sample Date:** 12/14/2023**Technician:** Johnson, Thomas**Material Use:** Utility Backfill**Sample Location:** Stockpile**Material Description:** Tan Clay

LAB DATA

Test Method: Tex 113E**Proctor Curve:****Maximum Dry Density (pcf):** 118.5**Optimum Moisture (%):** 13.3**Soil Classification:** CH Clay**Test Completed Date:** 12/21/2023**Test Completed By:** Agare, Ovie



Client:

Project:

S232173
Gates Tract Off-Site Sewer
29.381265682887246, -98.32008373231879
San Antonio, TX

Sample Number: 25519

Sample Date: 12/14/2023

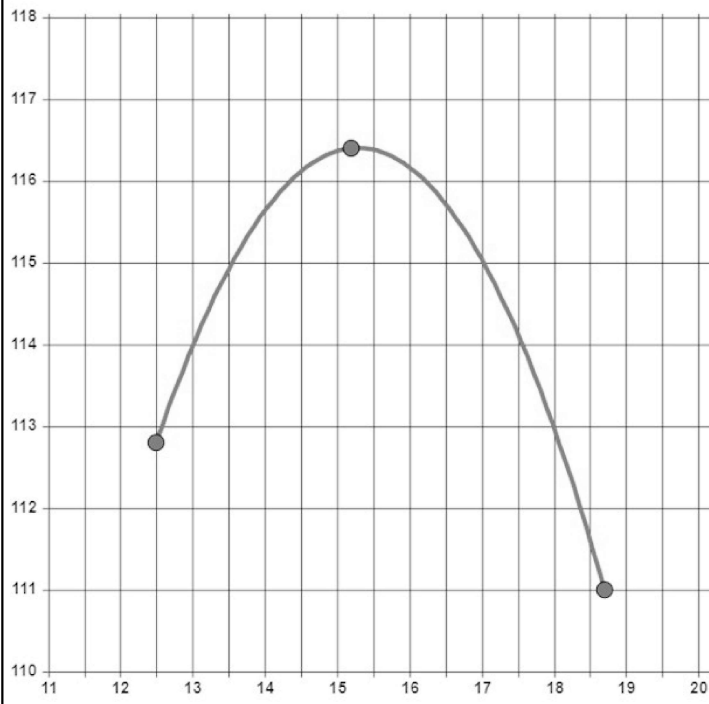
Technician: Johnson, Thomas

Material Use: Utility Backfill

Sample Location: Stockpile

Material Description: Tan Clay

Test Method: Tex 113E



Maximum Dry Density (pcf): 116.4

Optimum Moisture (%): 15.3

Soil Classification: CH Clay

Test Completed Date: 12/21/2023

Test Completed By: Agare, Ovie



InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 01/28/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232133
Gates Subdivision Unit 1
29.381265682887246, -98.32008373231879
Bexar County, TX

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
67		01/10/24	U25738		CH	17.0	110.3	15.8	111.8	129.5	4	101.4	98	-2 / 2	C
68		01/10/24	U25738		CH	17.0	110.3	18.7	108.4	128.7	4	98.3	98	-2 / 2	C
69		01/11/24	U25738		CH	17.0	110.3	16.9	109.5	128.0	6	99.3	98	-2 / 2	C
70		01/11/24	U25738		CH	17.0	110.3	16.2	109.4	127.1	6	99.2	98	-2 / 2	C
71		01/11/24	U25738		CH	17.0	110.3	16.3	110.1	128.0	6	99.8	98	-2 / 2	C
72		01/11/24	U25738		CH	17.0	110.3	16.2	109.6	127.4	6	99.4	98	-2 / 2	C
73		01/11/24	U25738		CH	17.0	110.3	15.5	109.3	126.2	6	99.1	98	-2 / 2	C
74		01/11/24	U25738		CH	17.0	110.3	15.4	109.8	126.7	6	99.5	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
67	Sewer Main: Line F STA 3+00								1st Lift		Troxler / 3430P / 74319 / 05/03/2023			Johnson, Thomas	
68	Sewer Main: Line F STA 8+00								1st Lift		Troxler / 3430P / 74319 / 05/03/2023			Johnson, Thomas	
69	Sewer Main: Line F STA 3+00								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
70	Sewer Main: Line F STA 3+00								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
71	Sewer Main: Line F STA 3+00								4th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
72	Sewer Main: Line F STA 3+00								5th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
73	Sewer Main: Line F STA 8+00								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
74	Sewer Main: Line F STA 8+00								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Testing performed when called in.
InTEC did not observe the installation of the material.
Testing directed by the City Inspector when present.
Test results apply only to the specific locations and materials noted and may not represent any other locations or elevations.



InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
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75		01/11/24	U25738		CH	17.0	110.3	15.5	108.9	125.8	6	98.7	98	-2 / 2	C
76		01/11/24	U25738		CH	17.0	110.3	15.9	109.6	127.0	6	99.4	98	-2 / 2	C
77		01/11/24	U25738		CH	17.0	110.3	17.8	112.4	132.4	6	101.9	98	-2 / 2	C
78		01/11/24	U25738		CH	17.0	110.3	17.5	111.8	131.4	6	101.4	98	-2 / 2	C
89		01/11/24	U25738		CH	17.0	110.3	18.4	112.1	132.7	6	101.6	98	-2 / 2	C
90		01/11/24	U25738		CH	17.0	110.3	17.5	111.8	131.4	6	101.4	98	-2 / 2	C
91		01/11/24	U25738		CH	17.0	110.3	17.8	112.4	132.4	6	101.9	98	-2 / 2	C
92		01/11/24	U25738		CH	17.0	110.3	17.4	112.2	131.7	6	101.7	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
75	Sewer Main: Line F STA 8+00								4th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
76	Sewer Main: Line F STA 8+00								5th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
77	Sewer Main: Line A STA 4+00								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
78	Sewer Main: Line A STA 7+00								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
89	Sewer Main: Line J STA 8+50								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
90	Sewer Main: Line J STA 8+50								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
91	Sewer Main: Line J STA 8+50								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
92	Sewer Main: Line J STA 8+50								4th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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93		01/11/24	U25738		CH	17.0	110.3	17.5	112.5	132.2	6	102.0	98	-2 / 2	C
94		01/11/24	U25738		CH	17.0	110.3	18.2	111.8	132.1	6	101.4	98	-2 / 2	C
95		01/11/24	U25738		CH	17.0	110.3	17.2	112.6	132.0	6	102.1	98	-2 / 2	C
96		01/11/24	U25738		CH	17.0	110.3	16.8	112.1	130.9	6	101.6	98	-2 / 2	C
97		01/11/24	U25738		CH	17.0	110.3	17.1	112.3	131.5	6	101.8	98	-2 / 2	C
98		01/11/24	U25738		CH	17.0	110.3	16.0	112.0	129.9	6	101.5	98	-2 / 2	C
99		01/11/24	U25738		CH	17.0	110.3	18.1	112.1	132.4	6	101.6	98	-2 / 2	C
100		01/11/24	U25738		CH	17.0	110.3	17.8	112.4	132.4	6	101.9	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
93	Sewer Main: Line J STA 8+50								5th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
94	Sewer Main: Line J STA 11+00								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
95	Sewer Main: Line J STA 11+00								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
96	Sewer Main: Line J STA 11+00								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
97	Sewer Main: Line J STA 11+00								4th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
98	Sewer Main: Line J STA 11+00								5th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
99	Sewer Main: Line K STA 1+75								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
100	Sewer Main: Line K STA 1+75								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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San Antonio, TX 78216
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Compaction Evaluation

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101		01/11/24	U25738		CH	17.0	110.3	17.1	112.2	131.4	6	101.7	98	-2 / 2	C
110		01/17/24	U25738		CH	17.0	110.3	17.3	108.2	126.9	6	98.1	98	-2 / 2	C
111		01/17/24	U25738		CH	17.0	110.3	17.0	108.6	127.1	6	98.5	98	-2 / 2	C
112		01/17/24	U25738		CH	17.0	110.3	16.8	109.1	127.4	6	98.9	98	-2 / 2	C
113		01/17/24	U25738		CH	17.0	110.3	17.1	108.7	127.3	6	98.5	98	-2 / 2	C
114		01/17/24	U25738		CH	17.0	110.3	16.7	109.5	127.8	6	99.3	98	-2 / 2	C
115		01/17/24	U25738		CH	17.0	110.3	17.2	108.6	127.3	6	98.5	98	-2 / 2	C
116		01/17/24	U25738		CH	17.0	110.3	16.8	109.0	127.3	6	98.8	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
101	Sewer Main: Line K STA 1+75							3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
110	Sewer Main: Line B STA 1+50							1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel		
111	Sewer Main: Line B STA 4+75							1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel		
112	Sewer Main: Line B STA 8+00							1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel		
113	Sewer Main: Line B STA 10+50							1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel		
114	Sewer Main: Line A STA 13+50							1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel		
115	Sewer Main: Line B STA 2+00							2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel		
116	Sewer Main: Line B STA 6+00							2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel		
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
117		01/17/24	U25738		CH	17.0	110.3	17.0	108.9	127.4	6	98.7	98	-2 / 2	C
118		01/17/24	U25738		CH	17.0	110.3	17.2	108.1	126.7	6	98.0	98	-2 / 2	C
119		01/17/24	U25738		CH	17.0	110.3	16.4	110.1	128.2	6	99.8	98	-2 / 2	C
120		01/17/24	U25738		CH	17.0	110.3	16.1	108.5	126.0	4	98.4	98	-2 / 2	C
121		01/17/24	U25738		CH	17.0	110.3	16.0	108.9	126.3	4	98.7	98	-2 / 2	C
122		01/17/24	U25738		CH	17.0	110.3	16.5	108.3	126.2	4	98.2	98	-2 / 2	C
123		01/17/24	U25738		CH	17.0	110.3	15.7	109.3	126.5	4	99.1	98	-2 / 2	C
124		01/17/24	U25738		CH	17.0	110.3	15.3	109.0	125.7	6	98.8	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
117	Sewer Main: Line B STA 9+00								2nd Lift	Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
118	Sewer Main: Line B STA 11+00								2nd Lift	Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
119	Sewer Main: Line A STA 15+00								2nd Lift	Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
120	Sewer Main: Line B STA 10+50								3rd Lift	Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
121	Sewer Main: Line B STA 8+00								3rd Lift	Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
122	Sewer Main: Line B STA 4+75								3rd Lift	Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
123	Sewer Main: Line B STA 1+50								3rd Lift	Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
124	Sewer Main: Line A STA 14+50								3rd Lift	Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232133
Gates Subdivision Unit 1
29.381265682887246, -98.32008373231879
Bexar County, TX

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
125		01/17/24	U25738		CH	17.0	110.3	15.3	109.2	125.9	6	99.0	98	-2 / 2	C
126		01/17/24	U25738		CH	17.0	110.3	15.8	108.9	126.1	6	98.7	98	-2 / 2	C
127		01/17/24	U25738		CH	17.0	110.3	15.1	108.9	125.3	6	98.7	98	-2 / 2	C
128		01/17/24	U25738		CH	17.0	110.3	15.2	108.6	125.1	6	98.5	98	-2 / 2	C
129		01/17/24	U25738		CH	17.0	110.3	15.2	109.8	126.5	6	99.5	98	-2 / 2	C
130		01/18/24	U25518		CH	13.3	118.5	12.1	120.0	134.5	6	101.3	98	-2 / 2	C
131		01/18/24	U25738		CH	17.0	110.3	15.6	108.7	125.7	6	98.5	98	-2 / 2	C
136		01/18/24	U25738		CH	17.0	110.3	16.5	108.2	126.1	6	98.1	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
125	Sewer Main: Line B STA 2+00								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
126	Sewer Main: Line B STA 6+00								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
127	Sewer Main: Line B STA 9+00								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
128	Sewer Main: Line B STA 11+00								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
129	Sewer Main: Line A STA 13+00								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
130	Sewer Main: Line A STA 14+00								5th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
131	Sewer Main: Line C STA 1+75								1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
136	Sewer Main: Line D STA 2+25								1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Testing performed when called in.
InTEC did not observe the installation of the material.
Testing directed by the City Inspector when present.
Test results apply only to the specific locations and materials noted and may not represent any other locations or elevations.



InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 01/28/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232133
Gates Subdivision Unit 1
29.381265682887246, -98.32008373231879
Bexar County, TX

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		01/18/24	U25738		CH	17.0	110.3	18.2	108.9	128.7	6	98.7	98	-2 / 2	C
138		01/18/24	U25738		CH	17.0	110.3	18.5	108.1	128.1	6	98.0	98	-2 / 2	C
143		01/19/24	U25738		CH	17.0	110.3	17.3	109.2	128.1	6	99.0	98	-2 / 2	C
144		01/19/24	U25519		CH	15.3	116.4	14.1	116.0	132.4	6	99.7	98	-2 / 2	C
149		01/19/24	U25738		CH	17.0	110.3	18.6	108.9	129.2	6	98.7	98	-2 / 2	C
150		01/19/24	U25738		CH	17.0	110.3	16.8	109.0	127.3	6	98.8	98	-2 / 2	C
155		01/20/24	U25519		CH	15.3	116.4	14.6	117.3	134.4	8	100.8	98	-2 / 2	C
156		01/20/24	U25519		CH	15.3	116.4	13.9	116.2	132.4	8	99.8	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
137	Sewer Main: Line D STA 3+00								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel	
138	Sewer Main: Line C STA 1+25								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel	
143	Sewer Main: Line D STA 3+00								3rd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel	
144	Sewer Main: Line C STA 2+50								3rd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel	
149	Sewer Main: Line D STA 1+25								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel	
150	Sewer Main: Line C STA 1+25								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel	
155	Sewer Main: Line D STA 2+75								5th Lift		Troxler / 3430 / 38292 / 07/26/2023			Pereida, Gerald	
156	Sewer Main: Line C STA 2+50								5th Lift		Troxler / 3430 / 38292 / 07/26/2023			Pereida, Gerald	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Project:

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Bexar County, TX

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		02/01/24	U25977		CH	19.4	105.0	18.2	103.1	121.9	4	98.2	98	-2 / 2	C
161		02/01/24	U25976		CH	18.1	109.0	19.4	106.9	127.6	4	98.1	98	-2 / 2	C
162		02/08/24	U25977		CH	19.4	105.0	20.2	103.2	124.0	6	98.3	98	-2 / 2	C
163		02/08/24	U25977		CH	19.4	105.0	20.3	102.9	123.8	6	98.0	98	-2 / 2	C
164		02/08/24	U25977		CH	19.4	105.0	18.2	103.2	122.0	6	98.3	98	-2 / 2	C
165		02/08/24	U25977		CH	19.4	105.0	19.2	104.5	124.6	6	99.5	98	-2 / 2	C
166		02/08/24	U25977		CH	19.4	105.0	18.8	103.9	123.4	6	99.0	98	-2 / 2	C
167		02/09/24	U25977		CH	19.4	105.0	20.2	103.2	124.0	6	98.3	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
160	Sewer Main: Line H STA 2+00								1st Lift		Troxler / 3430P / 74319 / 05/03/2023			Johnson, Thomas	
161	Sewer Main: Line H STA 2+00								1st Lift		Troxler / 3430P / 74319 / 05/03/2023			Johnson, Thomas	
162	Sewer Main: Line G STA 1+50								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
163	Sewer Main: Line G STA 1+50								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
164	Sewer Main: Line G STA 1+50								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
165	Sewer Main: Line C STA 1+50								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
166	Sewer Main: Line C STA 3+00								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
167	Sewer Main: Line G STA 1+50								4th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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168		02/09/24	U25977		CH	19.4	105.0	20.5	103.8	125.1	6	98.9	98	-2 / 2	C
194		04/04/24	U25976		CH	18.1	109.0	17.6	107.6	126.5	6	98.7	98	-2 / 2	C
195		04/04/24	U25976		CH	18.1	109.0	17.9	107.3	126.5	6	98.4	98	-2 / 2	C
196		04/04/24	U25977		CH	19.4	105.0	18.7	104.3	123.8	6	99.3	98	-2 / 2	C
197		04/04/24	U25977		CH	19.4	105.0	18.9	104.2	123.9	6	99.2	98	-2 / 2	C
198		04/06/24	U25977		CH	19.4	105.0	17.5	105.5	124.0	6	100.5	98	-2 / 2	C
199		04/06/24	U25977		CH	19.4	105.0	17.9	104.8	123.6	6	99.8	98	-2 / 2	C
200		04/06/24	U25977		CH	19.4	105.0	18.5	103.1	122.2	6	98.2	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
168	Sewer Main: Line G STA 1+50								5th Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
194	Sewer Main: Line A STA 16+50								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
195	Sewer Main: Line A STA 17+50								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
196	Sewer Main: Line A STA 18+50								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
197	Sewer Main: Line A STA 19+50								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
198	Sewer Main: Line A STA 16+50								2nd Lift		Troxler / 3430 / 24204 / 06/07/2023			Morgan, Gregory	
199	Sewer Main: Line A STA 17+50								2nd Lift		Troxler / 3430 / 24204 / 06/07/2023			Morgan, Gregory	
200	Sewer Main: Line A STA 18+50								2nd Lift		Troxler / 3430 / 24204 / 06/07/2023			Morgan, Gregory	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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201		04/06/24	U25977		CH	19.4	105.0	18.4	107.6	127.4	6	102.5	98	-2 / 2	C
202		04/09/24	U25977		CH	19.4	105.0	18.6	104.2	123.6	6	99.2	98	-2 / 2	C
203		04/09/24	U25977		CH	19.4	105.0	18.6	103.4	122.6	6	98.5	98	-2 / 2	C
204		04/09/24	U25977		CH	19.4	105.0	18.4	103.2	122.2	6	98.3	98	-2 / 2	C
205		04/09/24	U25977		CH	19.4	105.0	19.2	104.0	124.0	6	99.0	98	-2 / 2	C
206		04/12/24	U25738		CH	17.0	110.3	17.0	109.4	128.0	6	99.2	98	-2 / 2	C
207		04/12/24	U25738		CH	17.0	110.3	17.0	108.9	127.4	6	98.7	98	-2 / 2	C
208		04/12/24	U25738		CH	17.0	110.3	17.6	108.3	127.4	6	98.2	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
201	Sewer Main: Line A STA 19+50							2nd Lift		Troxler / 3430 / 24204 / 06/07/2023			Morgan, Gregory		
202	Sewer Main: Line A STA 16+50							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
203	Sewer Main: Line A STA 17+50							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
204	Sewer Main: Line A STA 18+50							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
205	Sewer Main: Line A STA 19+50							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
206	Sewer Main: Line A STA 17+00							4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
207	Sewer Main: Line A STA 19+00							4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
208	Sewer Main: Line A STA 20+00							4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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209		04/15/24	U25976		CH	18.1	109.0	18.6	106.9	126.8	6	98.1	98	-2 / 2	C
210		04/15/24	U25976		CH	18.1	109.0	17.6	107.6	126.5	6	98.7	98	-2 / 2	C
211		04/15/24	U25976		CH	18.1	109.0	18.1	107.0	126.4	6	98.2	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
209	Sewer Main: Line A STA 17+00							5th Lift		Troxler / 3430 / 35355 / 06/09/2023			Foley, Ryan		
210	Sewer Main: Line A STA 18+00							5th Lift		Troxler / 3430 / 35355 / 06/09/2023			Foley, Ryan		
211	Sewer Main: Line A STA 19+00							5th Lift		Troxler / 3430 / 35355 / 06/09/2023			Foley, Ryan		
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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79		01/11/24	U25738		CH	17.0	110.3	18.1	111.2	131.3	6	100.8	98	-2 / 2	C
80		01/11/24	U25738		CH	17.0	110.3	17.5	110.9	130.3	6	100.5	98	-2 / 2	C
81		01/11/24	U25738		CH	17.0	110.3	17.9	111.7	131.7	6	101.3	98	-2 / 2	C
82		01/11/24	U25738		CH	17.0	110.3	17.5	111.8	131.4	6	101.4	98	-2 / 2	C
83		01/11/24	U25738		CH	17.0	110.3	16.8	111.9	130.7	6	101.5	98	-2 / 2	C
84		01/11/24	U25738		CH	17.0	110.3	16.0	111.7	129.6	6	101.3	98	-2 / 2	C
85		01/11/24	U25738		CH	17.0	110.3	16.9	112.4	131.4	6	101.9	98	-2 / 2	C
86		01/11/24	U25738		CH	17.0	110.3	16.6	111.6	130.1	6	101.2	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
79	Sewer Laterals: Line F STA 2+58								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
80	Sewer Laterals: Line F STA 2+58								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
81	Sewer Laterals: Line F STA 2+58								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
82	Sewer Laterals: Line F STA 4+48								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
83	Sewer Laterals: Line F STA 4+48								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
84	Sewer Laterals: Line F STA 4+48								3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
85	Sewer Laterals: Line F STA 6+22								1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
86	Sewer Laterals: Line F STA 6+22								2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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87		01/11/24	U25738		CH	17.0	110.3	17.1	112.1	131.3	6	101.6	98	-2 / 2	C
88		01/11/24	U25738		CH	17.0	110.3	16.9	111.7	130.6	6	101.3	98	-2 / 2	C
102		01/11/24	U25738		CH	17.0	110.3	16.6	111.4	129.9	6	101.0	98	-2 / 2	C
103		01/11/24	U25738		CH	17.0	110.3	16.5	111.7	130.1	6	101.3	98	-2 / 2	C
104		01/11/24	U25738		CH	17.0	110.3	17.0	111.5	130.5	6	101.1	98	-2 / 2	C
105		01/11/24	U25738		CH	17.0	110.3	17.1	111.5	130.6	6	101.1	98	-2 / 2	C
106		01/11/24	U25738		CH	17.0	110.3	16.3	112.1	130.4	6	101.6	98	-2 / 2	C
107		01/11/24	U25738		CH	17.0	110.3	16.6	111.6	130.1	6	101.2	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
87	Sewer Laterals: Line F STA 6+22							3rd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
88	Sewer Laterals: Line F STA 7+90							1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
102	Sewer Laterals: Line K STA 1+73							1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
103	Sewer Laterals: Line K STA 1+73							2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
104	Sewer Laterals: Line K STA 2+13							1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
105	Sewer Laterals: Line K STA 2+13							2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
106	Sewer Laterals: Line K STA 2+53							1st Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
107	Sewer Laterals: Line K STA 2+53							2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			Villarreal Sr., Robert		
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Testing performed when called in.
InTEC did not observe the installation of the material.
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InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 01/28/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232133
Gates Subdivision Unit 1
29.381265682887246, -98.32008373231879
Bexar County, TX

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
108		01/12/24	U25518		CH	13.3	118.5	15.2	119.3	137.4	6	100.7	98	-2 / 2	C
109		01/12/24	U25518		CH	13.3	118.5	12.9	116.3	131.3	6	98.1	98	-2 / 2	C
132		01/18/24	U25738		CH	17.0	110.3	15.2	111.1	128.0	6	100.7	98	-2 / 2	C
133		01/18/24	U25738		CH	17.0	110.3	15.4	109.8	126.7	6	99.5	98	-2 / 2	C
134		01/18/24	U25738		CH	17.0	110.3	15.9	108.4	125.6	6	98.3	98	-2 / 2	C
135		01/18/24	U25738		CH	17.0	110.3	15.3	109.1	125.8	6	98.9	98	-2 / 2	C
139		01/18/24	U25738		CH	17.0	110.3	17.8	109.0	128.4	6	98.8	98	-2 / 2	C
140		01/18/24	U25738		CH	17.0	110.3	17.6	109.2	128.4	6	99.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
108	Sewer Laterals: Line D STA 1+52								1st Lift		Troxler / 3430 / 24204 / 06/07/2023			Roberts, Devin	
109	Sewer Laterals: Line B STA 4+16								1st Lift		Troxler / 3430 / 24204 / 06/07/2023			Roberts, Devin	
132	Sewer Laterals: Line C STA 1+48								1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
133	Sewer Laterals: Line C STA 2+28								1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
134	Sewer Laterals: Line C STA 3+01								1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
135	Sewer Laterals: Line C STA 2+85								1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
139	Sewer Laterals: Line C STA 2+85								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
140	Sewer Laterals: Line C STA 3+01								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Bexar County, TX

Test Results															
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141		01/18/24	U25738		CH	17.0	110.3	18.4	108.7	128.7	6	98.5	98	-2 / 2	C
142		01/18/24	U25738		CH	17.0	110.3	17.9	109.1	128.6	6	98.9	98	-2 / 2	C
145		01/19/24	U25519		CH	15.3	116.4	17.1	114.2	133.7	6	98.1	98	-2 / 2	C
146		01/19/24	U25519		CH	15.3	116.4	16.9	114.9	134.3	6	98.7	98	-2 / 2	C
147		01/19/24	U25519		CH	15.3	116.4	16.5	114.9	133.9	6	98.7	98	-2 / 2	C
148		01/19/24	U25519		CH	15.3	116.4	16.2	115.0	133.6	6	98.8	98	-2 / 2	C
151		01/19/24	U25738		CH	17.0	110.3	17.0	109.8	128.5	6	99.5	98	-2 / 2	C
152		01/19/24	U25738		CH	17.0	110.3	16.7	110.0	128.4	6	99.7	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
141	Sewer Laterals: Line C STA 2+28								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
142	Sewer Laterals: Line C STA 1+48								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
145	Sewer Laterals: Line C STA 3+01								3rd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
146	Sewer Laterals: Line C STA 2+85								3rd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
147	Sewer Laterals: Line C STA 2+28								3rd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
148	Sewer Laterals: Line C STA 1+48								3rd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
151	Sewer Laterals: Line C STA 1+48								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
152	Sewer Laterals: Line C STA 2+28								4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual	
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Gates Subdivision Unit 1
29.381265682887246, -98.32008373231879
Bexar County, TX

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		01/19/24	U25738		CH	17.0	110.3	16.8	109.7	128.1	6	99.5	98	-2 / 2	C
154		01/19/24	U25738		CH	17.0	110.3	16.2	110.9	128.9	6	100.5	98	-2 / 2	C
157		01/20/24	U25518		CH	13.3	118.5	14.6	117.6	134.8	4	99.2	98	-2 / 2	C
158		01/20/24	U25518		CH	13.3	118.5	14.9	117.6	135.1	4	99.2	98	-2 / 2	C
159		01/20/24	U25518		CH	13.3	118.5	15.3	117.6	135.6	4	99.2	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
153	Sewer Laterals: Line C STA 3+01							4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
154	Sewer Laterals: Line C STA 2+85							4th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
157	Sewer Laterals: Line C STA 3+01							5th Lift		Troxler / 3430 / 38292 / 07/26/2023			Pereida, Gerald		
158	Sewer Laterals: Line C STA 2+85							5th Lift		Troxler / 3430 / 38292 / 07/26/2023			Pereida, Gerald		
159	Sewer Laterals: Line C STA 2+28							5th Lift		Troxler / 3430 / 38292 / 07/26/2023			Pereida, Gerald		
Remarks					Comments										
C: Compliant					Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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