



Construction Materials Testing
Sewerline Installation—Backfill Compaction
Gates Tract Off-Site Sewer
San Antonio, Texas

InTEC Project No. S232173-1
October 11, 2024

The Gordon Hartman Family Foundation
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

October 11, 2024

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

The Gordon Hartman Family Foundation
5210 Thousand Oaks, Suite 1318
San Antonio, Texas 78233

Attention: Ms. Jaime Johnson

Re: Construction Materials Testing
Sewerline Installation – Backfill Compaction
Gates Tract Off-Site Sewer
San Antonio, Texas

InTEC Project #: S232173-1

Ladies & Gentlemen:

Integrated Testing and Engineering Company of San Antonio, L.P. (InTEC) performed compaction evaluation at the above referenced project site between January 4, 2024 and May 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]
10/11/2024



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

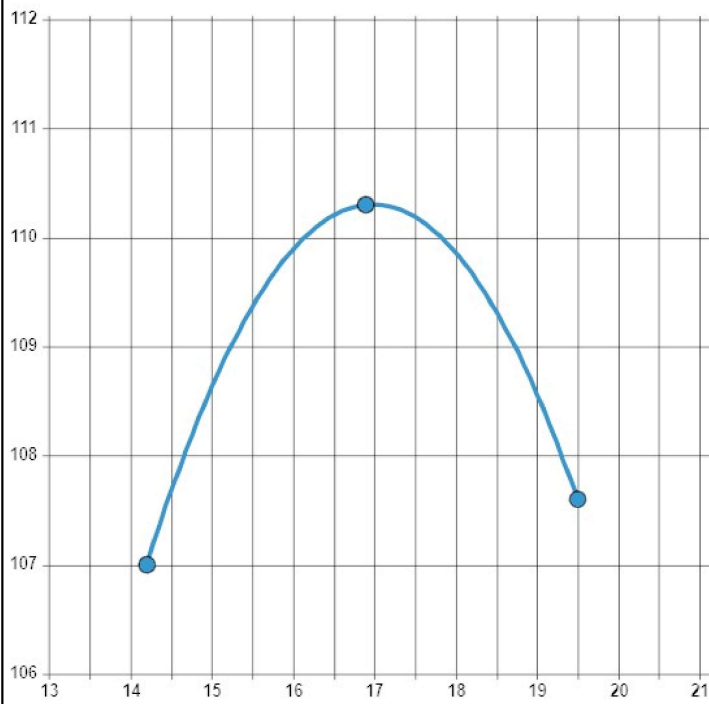
Project:

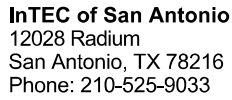
S232133
Gates Subdivision Unit 1
29.381265682887246, -98.32008373231879
Bexar County, TX

SAMPLE DATA

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

LAB DATA

Test Method: Tex 113E**Proctor Curve:****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

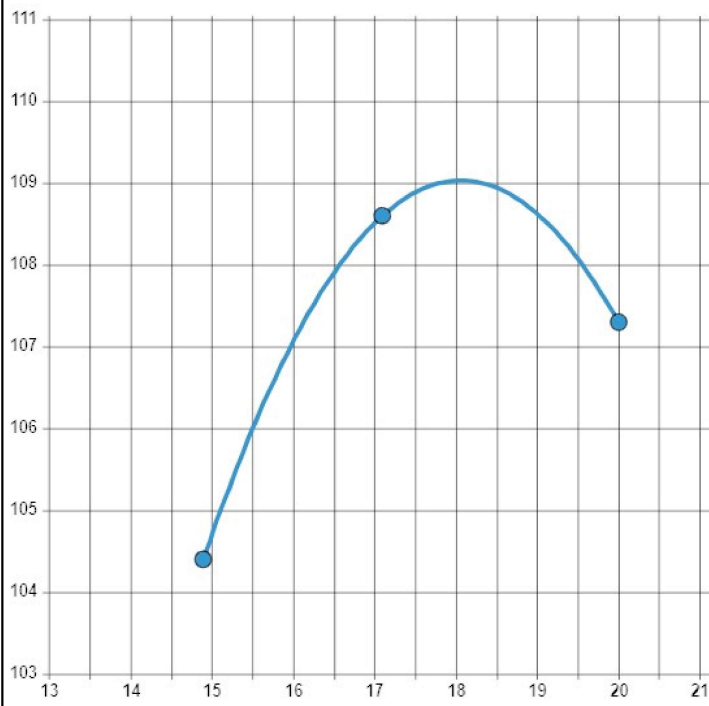
Technician: Johnson, Thomas

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

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

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

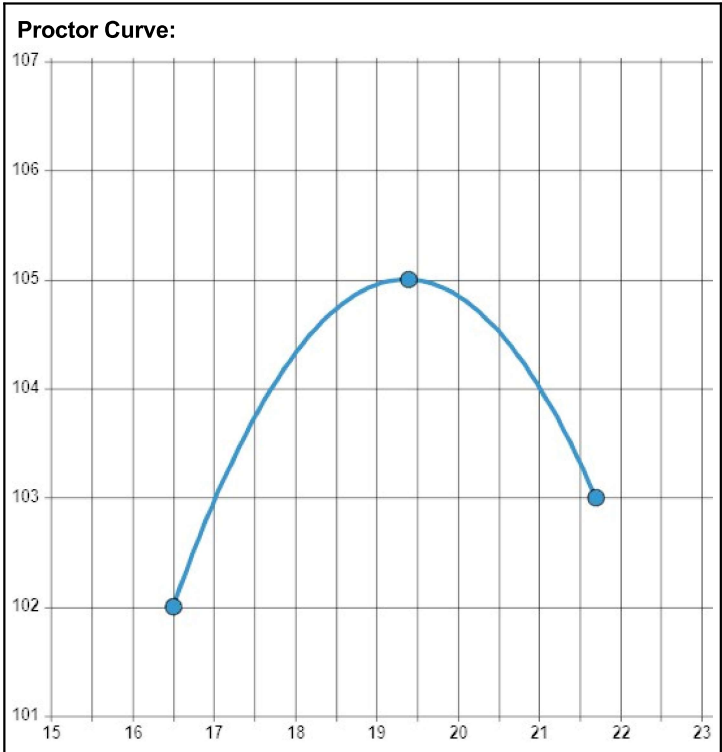
Project:
S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, TX

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



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Moisture Density Relationship

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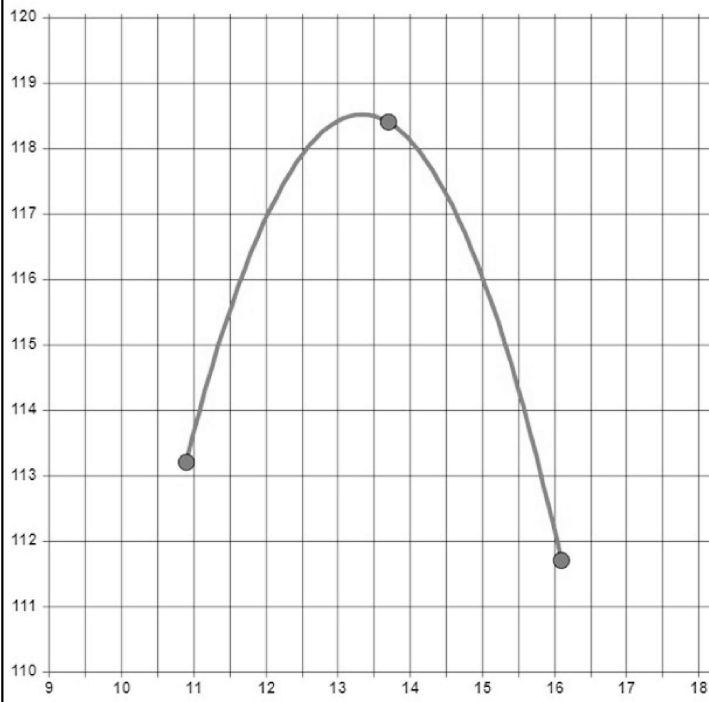
Project:

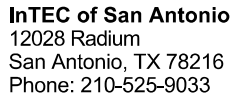
S232173
Gates Tract Off-Site Sewer
29.381265682887246, -98.32008373231879
San Antonio, TX

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

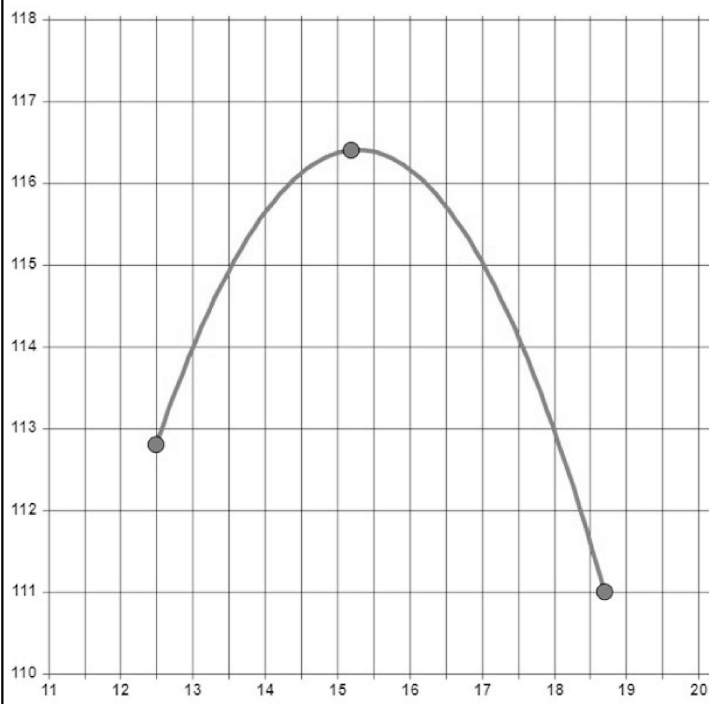
Technician: Johnson, Thomas

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: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		01/04/24	U25519		CH	15.3	116.4	17.0	114.4	133.8	4	98.3	98	-2 / 2	C
2		01/04/24	U25519		CH	15.3	116.4	16.5	114.4	133.3	4	98.3	98	-2 / 2	C
3		01/20/24	U25519		CH	15.3	116.4	14.8	116.6	133.9	8	100.2	98	-2 / 2	C
4		01/20/24	U25519		CH	15.3	116.4	15.3	117.2	135.1	8	100.7	98	-2 / 2	C
5		02/26/24	U25738		CH	17.0	110.3	18.9	109.0	129.6	6	98.8	98	-2 / 2	C
6		02/26/24	U25738		CH	17.0	110.3	18.7	109.5	130.0	6	99.3	98	-2 / 2	C
7		02/26/24	U25738		CH	17.0	110.3	19.0	108.6	129.2	6	98.5	98	-2 / 2	C
8		02/26/24	U25738		CH	17.0	110.3	18.3	109.3	129.3	6	99.1	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated		Field Technician		
1	Sewer Main: Line A STA 21+00								1st Lift		Troxler / 3430P / 74319 / 05/03/2023		Johnson, Thomas		
2	Sewer Main: Line A STA 21+00								2nd Lift		Troxler / 3430P / 74319 / 05/03/2023		Johnson, Thomas		
3	Sewer Main: Line A STA 21+00								3rd Lift		Troxler / 3430 / 38292 / 07/26/2023		Pereida, Gerald		
4	Sewer Main: Line A STA 21+00								4th Lift		Troxler / 3430 / 38292 / 07/26/2023		Pereida, Gerald		
5	Sewer Main: Line A STA 1+72								1st Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanuel		
6	Sewer Main: Line A STA 2+50								1st Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanuel		
7	Sewer Main: Line A STA 4+20								1st Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanuel		
8	Sewer Main: Line A STA 6+50								1st 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.										

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.



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Compaction Evaluation

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Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
9		03/01/24	U25977		CH	19.4	105.0	18.6	103.4	122.6	6	98.5	98	-2 / 2	C
10		03/01/24	U25977		CH	19.4	105.0	18.7	104.1	123.6	6	99.1	98	-2 / 2	C
11		03/01/24	U25977		CH	19.4	105.0	20.0	102.9	123.5	6	98.0	98	-2 / 2	C
12		03/01/24	U25977		CH	19.4	105.0	17.5	105.0	123.4	6	100.0	98	-2 / 2	C
13		03/01/24	U25977		CH	19.4	105.0	18.6	103.2	122.4	6	98.3	98	-2 / 2	C
14		03/01/24	U25977		CH	19.4	105.0	18.0	104.2	123.0	6	99.2	98	-2 / 2	C
15		03/01/24	U25977		CH	19.4	105.0	18.9	102.9	122.3	6	98.0	98	-2 / 2	C
16		03/01/24	U25977		CH	19.4	105.0	17.9	103.9	122.5	6	99.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated		Field Technician		
9	Sewer Main: Line A STA 71+50								1st Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanual		
10	Sewer Main: Line A STA 64+00								1st Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanual		
11	Sewer Main: Line A STA 60+00								1st Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanual		
12	Sewer Main: Line A STA 56+50								1st Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanual		
13	Sewer Main: Line A STA 60+25								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanual		
14	Sewer Main: Line A STA 64+25								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanual		
15	Sewer Main: Line A STA 68+25								2nd Lift		Troxler / 3430P / 80149 / 11/02/2023		Torres, Emanual		
16	Sewer Main: Line A STA 72+00								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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17		03/02/24	U25738		CH	17.0	110.3	15.3	111.2	128.2	6	100.8	98	-2 / 2	C
18		03/02/24	U25738		CH	17.0	110.3	17.8	108.2	127.5	6	98.1	98	-2 / 2	C
19		03/02/24	U25738		CH	17.0	110.3	15.4	112.0	129.2	6	101.5	98	-2 / 2	C
20		03/02/24	U25738		CH	17.0	110.3	17.2	109.4	128.2	6	99.2	98	-2 / 2	C
21		03/02/24	U25738		CH	17.0	110.3	17.4	110.6	129.8	6	100.3	98	-2 / 2	C
22		03/05/24	U25977		CH	19.4	105.0	17.5	105.0	123.4	6	100.0	98	-2 / 2	C
23		03/05/24	U25977		CH	19.4	105.0	17.4	106.3	124.8	6	101.2	98	-2 / 2	C
24		03/06/24	U25977		CH	19.4	105.0	21.3	102.9	124.8	6	98.0	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
17	Sewer Main: Line A STA 68+00							3rd Lift		Troxler / 3430P / 76814 / 08/17/2023			Martinez, Juan		
18	Sewer Main: Line A STA 66+00							3rd Lift		Troxler / 3430P / 76814 / 08/17/2023			Martinez, Juan		
19	Sewer Main: Line A STA 64+00							3rd Lift		Troxler / 3430P / 76814 / 08/17/2023			Martinez, Juan		
20	Sewer Main: Line A STA 62+00							4th Lift		Troxler / 3430P / 76814 / 08/17/2023			Martinez, Juan		
21	Sewer Main: Line A STA 64+00							4th Lift		Troxler / 3430P / 76814 / 08/17/2023			Martinez, Juan		
22	Sewer Main: Line A STA 71+00							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
23	Sewer Main: Line A STA 58+00							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
24	Sewer Main: Line A STA 71+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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25		03/06/24	U25976		CH	18.1	109.0	18.8	109.8	130.4	6	100.7	98	-2 / 2	C
26		03/06/24	U25977		CH	19.4	105.0	20.3	103.9	125.0	6	99.0	98	-2 / 2	C
27		03/06/24	U25977		CH	19.4	105.0	20.4	102.9	123.9	6	98.0	98	-2 / 2	C
28		03/06/24	U25977		CH	19.4	105.0	20.2	103.6	124.5	6	98.7	98	-2 / 2	C
29		03/06/24	U25977		CH	19.4	105.0	20.5	103.4	124.6	6	98.5	98	-2 / 2	C
30		03/06/24	U25977		CH	19.4	105.0	20.1	102.9	123.6	6	98.0	98	-2 / 2	C
31		03/06/24	U25977		CH	19.4	105.0	20.9	103.8	125.5	6	98.9	98	-2 / 2	C
32		03/07/24	U25977		CH	19.4	105.0	18.9	104.3	124.0	6	99.3	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
25	Sewer Main: Line A STA 58+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
26	Sewer Main: Line A STA 55+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
27	Sewer Main: Line A STA 54+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
28	Sewer Main: Line A STA 53+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
29	Sewer Main: Line A STA 52+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
30	Sewer Main: Line A STA 51+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
31	Sewer Main: Line A STA 50+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
32	Sewer Main: Line A STA 55+50								2nd 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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33		03/07/24	U25977		CH	19.4	105.0	19.4	103.2	123.2	6	98.3	98	-2 / 2	C
34		03/07/24	U25977		CH	19.4	105.0	19.0	104.2	124.0	6	99.2	98	-2 / 2	C
35		03/07/24	U25977		CH	19.4	105.0	19.6	103.2	123.4	6	98.3	98	-2 / 2	C
36		03/07/24	U25977		CH	19.4	105.0	18.7	102.9	122.1	6	98.0	98	-2 / 2	C
37		03/07/24	U25977		CH	19.4	105.0	18.9	103.0	122.5	6	98.1	98	-2 / 2	C
38		03/07/24	U25977		CH	19.4	105.0	19.0	103.2	122.8	6	98.3	98	-2 / 2	C
39		03/07/24	U25738		CH	17.0	110.3	16.5	108.9	126.9	6	98.7	98	-2 / 2	C
40		03/07/24	U25738		CH	17.0	110.3	16.4	109.6	127.6	6	99.4	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
33	Sewer Main: Line A STA 54+50								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
34	Sewer Main: Line A STA 53+50								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
35	Sewer Main: Line A STA 52+50								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
36	Sewer Main: Line A STA 51+50								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
37	Sewer Main: Line A STA 50+50								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
38	Sewer Main: Line A STA 49+50								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
39	Sewer Main: Line A STA 55+50								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
40	Sewer Main: Line A STA 54+50								3rd 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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Phone: 210-525-9033

Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
41		03/07/24	U25738		CH	17.0	110.3	16.7	108.3	126.4	6	98.2	98	-2 / 2	C
42		03/07/24	U25738		CH	17.0	110.3	16.2	109.0	126.7	6	98.8	98	-2 / 2	C
43		03/07/24	U25738		CH	17.0	110.3	16.7	108.6	126.7	6	98.5	98	-2 / 2	C
44		03/07/24	U25738		CH	17.0	110.3	15.8	110.2	127.6	6	99.9	98	-2 / 2	C
45		03/07/24	U25738		CH	17.0	110.3	15.6	111.3	128.7	6	100.9	98	-2 / 2	C
46		03/08/24	U25976		CH	18.1	109.0	19.7	107.9	129.2	6	99.0	98	-2 / 2	C
47		03/08/24	U25976		CH	18.1	109.0	19.7	108.3	129.6	6	99.4	98	-2 / 2	C
48		03/08/24	U25976		CH	18.1	109.0	19.6	108.4	129.6	6	99.4	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
41	Sewer Main: Line A STA 53+50								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
42	Sewer Main: Line A STA 52+50								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
43	Sewer Main: Line A STA 51+50								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
44	Sewer Main: Line A STA 50+50								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
45	Sewer Main: Line A STA 49+50								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
46	Sewer Main: Line A STA 45+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
47	Sewer Main: Line A STA 46+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
48	Sewer Main: Line A STA 47+00								1st 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.										

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

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49		03/08/24	U25976		CH	18.1	109.0	19.9	107.8	129.3	6	98.9	98	-2 / 2	C
50		03/08/24	U25738		CH	17.0	110.3	17.9	108.9	128.4	6	98.7	98	-2 / 2	C
51		03/08/24	U25738		CH	17.0	110.3	17.9	108.6	128.0	6	98.5	98	-2 / 2	C
52		03/08/24	U25738		CH	17.0	110.3	17.6	109.0	128.2	6	98.8	98	-2 / 2	C
53		03/08/24	U25738		CH	17.0	110.3	17.4	108.2	127.0	6	98.1	98	-2 / 2	C
54		03/08/24	U25738		CH	17.0	110.3	17.3	109.2	128.1	6	99.0	98	-2 / 2	C
55		03/08/24	U25738		CH	17.0	110.3	17.0	110.3	129.1	6	100.0	98	-2 / 2	C
56		03/08/24	U25738		CH	17.0	110.3	17.2	110.0	128.9	6	99.7	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
49	Sewer Main: Line A STA 48+00								1st Lift	Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
50	Sewer Main: Line A STA 55+50								4th Lift	Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
51	Sewer Main: Line A STA 54+50								4th Lift	Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
52	Sewer Main: Line A STA 53+50								4th Lift	Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
53	Sewer Main: Line A STA 52+50								4th Lift	Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
54	Sewer Main: Line A STA 51+50								4th Lift	Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
55	Sewer Main: Line A STA 50+50								4th Lift	Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
56	Sewer Main: Line A STA 49+50								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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San Antonio, 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
57		03/09/24	U25976		CH	18.1	109.0	16.9	107.4	125.6	6	98.5	98	-2 / 2	C
58		03/09/24	U25976		CH	18.1	109.0	16.2	108.1	125.6	6	99.2	98	-2 / 2	C
59		03/09/24	U25976		CH	18.1	109.0	17.0	107.6	125.9	6	98.7	98	-2 / 2	C
60		03/09/24	U25976		CH	18.1	109.0	16.3	108.6	126.3	6	99.6	98	-2 / 2	C
61		03/09/24	U25976		CH	18.1	109.0	18.3	107.7	127.4	6	98.8	98	-2 / 2	C
62		03/09/24	U25976		CH	18.1	109.0	19.0	107.2	127.6	6	98.3	98	-2 / 2	C
63		03/09/24	U25976		CH	18.1	109.0	17.9	107.5	126.7	6	98.6	98	-2 / 2	C
64		03/12/24	U25977		CH	19.4	105.0	18.6	103.8	123.1	6	98.9	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
57	Sewer Main: Line A STA 47+50							2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
58	Sewer Main: Line A STA 45+00							2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
59	Sewer Main: Line A STA 42+00							1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
60	Sewer Main: Line A STA 34+00							1st Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
61	Sewer Main: Line A STA 43+50							2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
62	Sewer Main: Line A STA 38+50							2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
63	Sewer Main: Line A STA 35+50							2nd Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
64	Sewer Main: Line A STA 45+00							3rd 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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Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		03/12/24	U25977		CH	19.4	105.0	18.6	104.2	123.6	6	99.2	98	-2 / 2	C
66		03/12/24	U25977		CH	19.4	105.0	19.0	104.1	123.9	6	99.1	98	-2 / 2	C
67		03/12/24	U25977		CH	19.4	105.0	18.4	104.2	123.4	6	99.2	98	-2 / 2	C
68		03/12/24	U25977		CH	19.4	105.0	19.2	104.0	124.0	6	99.0	98	-2 / 2	C
69		03/12/24	U25977		CH	19.4	105.0	19.4	103.5	123.6	6	98.6	98	-2 / 2	C
70		03/12/24	U25977		CH	19.4	105.0	19.0	104.0	123.8	6	99.0	98	-2 / 2	C
71		03/12/24	U25977		CH	19.4	105.0	19.4	103.8	123.9	6	98.9	98	-2 / 2	C
72		03/12/24	U25977		CH	19.4	105.0	18.3	103.8	122.8	6	98.9	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
65	Sewer Main: Line A STA 46+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
66	Sewer Main: Line A STA 47+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
67	Sewer Main: Line A STA 48+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
68	Sewer Main: Line A STA 44+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
69	Sewer Main: Line A STA 42+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
70	Sewer Main: Line A STA 40+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
71	Sewer Main: Line A STA 38+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
72	Sewer Main: Line A STA 36+00								3rd 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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73		03/12/24	U25977		CH	19.4	105.0	20.1	103.8	124.7	6	98.9	98	-2 / 2	C
74		03/12/24	U25738		CH	17.0	110.3	16.7	108.6	126.7	6	98.5	98	-2 / 2	C
75		03/12/24	U25738		CH	17.0	110.3	16.8	108.9	127.2	6	98.7	98	-2 / 2	C
76		03/12/24	U25738		CH	17.0	110.3	17.0	108.3	126.7	6	98.2	98	-2 / 2	C
77		03/12/24	U25738		CH	17.0	110.3	15.9	109.8	127.3	6	99.5	98	-2 / 2	C
78		03/12/24	U25738		CH	17.0	110.3	16.9	109.9	128.5	6	99.6	98	-2 / 2	C
79		03/12/24	U25738		CH	17.0	110.3	16.5	110.2	128.4	6	99.9	98	-2 / 2	C
80		03/13/24	U25977		CH	19.4	105.0	17.6	103.9	122.2	6	99.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
73	Sewer Main: Line A STA 34+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
74	Sewer Main: Line A STA 45+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
75	Sewer Main: Line A STA 46+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
76	Sewer Main: Line A STA 47+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
77	Sewer Main: Line A STA 48+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
78	Sewer Main: Line A STA 41+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
79	Sewer Main: Line A STA 43+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
80	Sewer Main: Line A STA 34+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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81		03/13/24	U25977		CH	19.4	105.0	18.0	104.8	123.7	6	99.8	98	-2 / 2	C
82		03/13/24	U25977		CH	19.4	105.0	18.4	104.5	123.7	6	99.5	98	-2 / 2	C
83		03/13/24	U25977		CH	19.4	105.0	18.4	103.8	122.9	6	98.9	98	-2 / 2	C
84		03/13/24	U25977		CH	19.4	105.0	18.6	104.0	123.3	6	99.0	98	-2 / 2	C
85		03/13/24	U25977		CH	19.4	105.0	19.0	105.2	125.2	6	100.2	98	-2 / 2	C
86		03/14/24	U25977		CH	19.4	105.0	20.9	103.9	125.6	6	99.0	98	-2 / 2	C
87		03/14/24	U25977		CH	19.4	105.0	20.7	103.2	124.6	6	98.3	98	-2 / 2	C
88		03/14/24	U25977		CH	19.4	105.0	21.0	103.0	124.6	6	98.1	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
81	Sewer Main: Line A STA 35+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
82	Sewer Main: Line A STA 36+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
83	Sewer Main: Line A STA 37+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
84	Sewer Main: Line A STA 38+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
85	Sewer Main: Line A STA 39+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
86	Sewer Main: Line A STA 24+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
87	Sewer Main: Line A STA 26+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
88	Sewer Main: Line A STA 28+00								1st 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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89		03/14/24	U25977		CH	19.4	105.0	21.2	103.1	125.0	6	98.2	98	-2 / 2	C
90		03/14/24	U25977		CH	19.4	105.0	20.6	104.5	126.0	6	99.5	98	-2 / 2	C
91		03/15/24	U25976		CH	18.1	109.0	17.2	108.6	127.3	6	99.6	98	-2 / 2	C
92		03/15/24	U25976		CH	18.1	109.0	17.4	107.6	126.3	6	98.7	98	-2 / 2	C
93		03/15/24	U25976		CH	18.1	109.0	17.0	108.0	126.4	6	99.1	98	-2 / 2	C
94		03/15/24	U25977		CH	19.4	105.0	20.4	103.5	124.6	6	98.6	98	-2 / 2	C
95		03/15/24	U25977		CH	19.4	105.0	20.8	103.2	124.7	6	98.3	98	-2 / 2	C
96		03/16/24	U25976		CH	18.1	109.0	19.8	108.5	130.0	6	99.5	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
89	Sewer Main: Line A STA 30+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
90	Sewer Main: Line A STA 32+00								1st Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
91	Sewer Main: Line A STA 25+00								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
92	Sewer Main: Line A STA 27+00								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
93	Sewer Main: Line A STA 29+00								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
94	Sewer Main: Line A STA 31+00								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
95	Sewer Main: Line A STA 33+00								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
96	Sewer Main: Line A STA 34+00								3rd 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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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: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		03/16/24	U25976		CH	18.1	109.0	19.6	108.3	129.5	6	99.4	98	-2 / 2	C
98		03/16/24	U25976		CH	18.1	109.0	19.9	108.7	130.3	6	99.7	98	-2 / 2	C
99		03/16/24	U25976		CH	18.1	109.0	20.0	108.3	130.0	6	99.4	98	-2 / 2	C
100		03/16/24	U25976		CH	18.1	109.0	19.9	108.8	130.5	6	99.8	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
97	Sewer Main: Line A STA 32+00							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
98	Sewer Main: Line A STA 30+00							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
99	Sewer Main: Line A STA 28+00							3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando		
100	Sewer Main: Line A STA 26+00							3rd 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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Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
101		03/16/24	U25976		CH	18.1	109.0	20.1	108.4	130.2	6	99.4	98	-2 / 2	C
102		03/19/24	U25976		CH	18.1	109.0	17.6	108.2	127.2	6	99.3	98	-2 / 2	C
103		03/19/24	U25976		CH	18.1	109.0	17.0	108.6	127.1	6	99.6	98	-2 / 2	C
104		03/19/24	U25976		CH	18.1	109.0	17.8	107.9	127.1	6	99.0	98	-2 / 2	C
105		03/19/24	U25738		CH	17.0	110.3	17.3	108.9	127.7	6	98.7	98	-2 / 2	C
106		03/19/24	U25738		CH	17.0	110.3	17.8	109.2	128.6	6	99.0	98	-2 / 2	C
107		03/19/24	U25738		CH	17.0	110.3	18.6	108.1	128.2	6	98.0	98	-2 / 2	C
108		03/20/24	U25976		CH	18.1	109.0	17.9	108.6	128.0	6	99.6	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
101	Sewer Main: Line A STA 24+00								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
102	Sewer Main: Line A STA 24+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
103	Sewer Main: Line A STA 26+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
104	Sewer Main: Line A STA 28+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
105	Sewer Main: Line A STA 29+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
106	Sewer Main: Line A STA 31+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
107	Sewer Main: Line A STA 33+00								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
108	Sewer Main: Line A STA 2+00								2nd 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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InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
109		03/20/24	U25976		CH	18.1	109.0	18.6	108.3	128.4	6	99.4	98	-2 / 2	C
110		03/20/24	U25976		CH	18.1	109.0	19.7	107.9	129.2	6	99.0	98	-2 / 2	C
111		03/20/24	U25976		CH	18.1	109.0	19.5	108.3	129.4	6	99.4	98	-2 / 2	C
112		03/22/24	U25976		CH	18.1	109.0	20.1	107.9	129.6	6	99.0	98	-2 / 2	C
113		03/22/24	U25976		CH	18.1	109.0	19.8	108.2	129.6	6	99.3	98	-2 / 2	C
114		03/22/24	U25976		CH	18.1	109.0	17.9	108.6	128.0	6	99.6	98	-2 / 2	C
115		03/25/24	U25738		CH	17.0	110.3	17.6	109.8	129.1	6	99.5	98	-2 / 2	C
116		03/25/24	U25976		CH	18.1	109.0	20.1	109.3	131.3	6	100.3	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
109	Sewer Main: Line A STA 4+00								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
110	Sewer Main: Line A STA 6+00								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
111	Sewer Main: Line A STA 8+00								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
112	Sewer Main: Line A STA 1+72								2nd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
113	Sewer Main: Line A STA 1+72								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
114	Sewer Main: Line A STA 1+72								4th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
115	Sewer Main: Line A STA 4+50								3rd Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
116	Sewer Main: Line A STA 4+50								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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12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		03/27/24	U25738		CH	17.0	110.3	16.2	108.9	126.5	6	98.7	98	-2 / 2	C
118		04/12/24	U25976		CH	18.1	109.0	17.6	108.6	127.7	6	99.6	98	-2 / 2	C
119		04/12/24	U25976		CH	18.1	109.0	17.6	107.9	126.9	6	99.0	98	-2 / 2	C
120		04/12/24	U25976		CH	18.1	109.0	18.0	107.2	126.5	6	98.3	98	-2 / 2	C
121		04/12/24	U25976		CH	18.1	109.0	17.6	107.4	126.3	6	98.5	98	-2 / 2	C
122		04/12/24	U25976		CH	18.1	109.0	17.9	107.8	127.1	6	98.9	98	-2 / 2	C
123		04/12/24	U25976		CH	18.1	109.0	18.1	107.3	126.7	6	98.4	98	-2 / 2	C
124		04/12/24	U25976		CH	18.1	109.0	17.6	107.3	126.2	6	98.4	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
117	Sewer Main: Line A STA 1+72								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
118	Sewer Main: Line A STA 72+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
119	Sewer Main: Line A STA 71+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
120	Sewer Main: Line A STA 70+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
121	Sewer Main: Line A STA 69+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
122	Sewer Main: Line A STA 68+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
123	Sewer Main: Line A STA 67+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
124	Sewer Main: Line A STA 66+00								5th 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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InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		04/12/24	U25976		CH	18.1	109.0	17.9	107.3	126.5	6	98.4	98	-2 / 2	C
126		04/12/24	U25976		CH	18.1	109.0	18.0	107.4	126.7	6	98.5	98	-2 / 2	C
127		04/12/24	U25976		CH	18.1	109.0	17.1	108.2	126.7	6	99.3	98	-2 / 2	C
128		04/12/24	U25976		CH	18.1	109.0	17.9	107.4	126.6	6	98.5	98	-2 / 2	C
129		04/12/24	U25976		CH	18.1	109.0	18.0	107.3	126.6	6	98.4	98	-2 / 2	C
130		04/12/24	U25976		CH	18.1	109.0	18.0	108.1	127.6	6	99.2	98	-2 / 2	C
131		04/18/24	U25976		CH	18.1	109.0	18.0	107.5	126.8	4	98.6	98	-2 / 2	C
132		04/18/24	U25976		CH	18.1	109.0	19.2	106.8	127.3	4	98.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
125	Sewer Main: Line A STA 65+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
126	Sewer Main: Line A STA 64+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
127	Sewer Main: Line A STA 63+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
128	Sewer Main: Line A STA 62+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
129	Sewer Main: Line A STA 61+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
130	Sewer Main: Line A STA 60+00								5th Lift		Troxler / 3430 / 30784 / 06/07/2023			Rivas-Retana, Fernando	
131	Sewer Main: Line A STA 72+00								6th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
132	Sewer Main: Line A STA 71+00								6th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		04/18/24	U25976		CH	18.1	109.0	17.6	106.9	125.7	4	98.1	98	-2 / 2	C
134		04/20/24	U25738		CH	17.0	110.3	15.8	109.3	126.6	6	99.1	98	-2 / 2	C
135		04/20/24	U25738		CH	17.0	110.3	16.1	112.9	131.1	6	102.4	98	-2 / 2	C
136		04/20/24	U25738		CH	17.0	110.3	16.3	108.6	126.3	6	98.5	98	-2 / 2	C
137		04/20/24	U25738		CH	17.0	110.3	15.6	110.1	127.3	6	99.8	98	-2 / 2	C
138		04/22/24	U25976		CH	18.1	109.0	19.9	106.9	128.2	6	98.1	98	-2 / 2	C
139		04/22/24	U25976		CH	18.1	109.0	18.5	106.8	126.6	6	98.0	98	-2 / 2	C
140		04/22/24	U25976		CH	18.1	109.0	18.0	107.9	127.3	6	99.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
133	Sewer Main: Line A STA 70+00								6th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
134	Sewer Main: Line A STA 55+00								5th Lift		Troxler / 3430P / 69895 / 08/17/2023			Martinez, Juan	
135	Sewer Main: Line A STA 54+00								5th Lift		Troxler / 3430P / 69895 / 08/17/2023			Martinez, Juan	
136	Sewer Main: Line A STA 53+00								5th Lift		Troxler / 3430P / 69895 / 08/17/2023			Martinez, Juan	
137	Sewer Main: Line A STA 52+00								5th Lift		Troxler / 3430P / 69895 / 08/17/2023			Martinez, Juan	
138	Sewer Main: Line A STA 70+00								7th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
139	Sewer Main: Line A STA 71+00								7th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
140	Sewer Main: Line A STA 72+00								7th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
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
141		04/23/24	U25976		CH	18.1	109.0	18.0	107.8	127.2	6	98.9	98	-2 / 2	C
142		04/23/24	U25976		CH	18.1	109.0	18.3	107.5	127.2	6	98.6	98	-2 / 2	C
143		04/23/24	U25976		CH	18.1	109.0	17.9	106.8	125.9	6	98.0	98	-2 / 2	C
144		04/23/24	U25976		CH	18.1	109.0	16.9	109.1	127.5	6	100.1	98	-2 / 2	C
145		04/23/24	U25976		CH	18.1	109.0	18.0	108.9	128.5	6	99.9	98	-2 / 2	C
146		04/23/24	U25976		CH	18.1	109.0	17.5	110.3	129.6	6	101.2	98	-2 / 2	C
147		04/23/24	U25976		CH	18.1	109.0	18.5	107.3	127.2	6	98.4	98	-2 / 2	C
148		04/23/24	U25976		CH	18.1	109.0	19.0	110.3	131.3	6	101.2	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
141	Sewer Main: Line A STA 20+00							5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James		
142	Sewer Main: Line A STA 21+00							5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James		
143	Sewer Main: Line A STA 22+00							5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James		
144	Sewer Main: Line A STA 23+00							5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James		
145	Sewer Main: Line A STA 24+00							5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James		
146	Sewer Main: Line A STA 25+00							5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James		
147	Sewer Main: Line A STA 26+00							5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James		
148	Sewer Main: Line A STA 27+00							5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James		
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: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
149		04/23/24	U25976		CH	18.1	109.0	17.5	108.6	127.6	6	99.6	98	-2 / 2	C
150		04/23/24	U25976		CH	18.1	109.0	18.6	106.9	126.8	6	98.1	98	-2 / 2	C
151		04/23/24	U25976		CH	18.1	109.0	17.6	109.4	128.7	6	100.4	98	-2 / 2	C
152		04/23/24	U25976		CH	18.1	109.0	18.3	109.7	129.8	6	100.6	98	-2 / 2	C
153		04/23/24	U25976		CH	18.1	109.0	16.8	108.4	126.6	6	99.4	98	-2 / 2	C
154		04/23/24	U25976		CH	18.1	109.0	17.2	107.6	126.1	6	98.7	98	-2 / 2	C
155		04/23/24	U25976		CH	18.1	109.0	18.5	107.3	127.2	6	98.4	98	-2 / 2	C
156		04/23/24	U25976		CH	18.1	109.0	16.6	107.5	125.3	6	98.6	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
149	Sewer Main: Line A STA 28+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
150	Sewer Main: Line A STA 29+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
151	Sewer Main: Line A STA 30+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
152	Sewer Main: Line A STA 31+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
153	Sewer Main: Line A STA 32+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
154	Sewer Main: Line A STA 33+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
155	Sewer Main: Line A STA 34+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
156	Sewer Main: Line A STA 35+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
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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Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

Client:

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5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232173
Gates Tract Off-Site Sewer
29.381265682887246, -98.32008373231879
San Antonio, 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
157		04/23/24	U25976		CH	18.1	109.0	18.1	109.5	129.3	6	100.5	98	-2 / 2	C
158		04/23/24	U25976		CH	18.1	109.0	17.0	109.8	128.5	6	100.7	98	-2 / 2	C
159		04/23/24	U25976		CH	18.1	109.0	16.4	107.9	125.6	6	99.0	98	-2 / 2	C
160		04/23/24	U25976		CH	18.1	109.0	17.9	107.9	127.2	6	99.0	98	-2 / 2	C
161		04/23/24	U25976		CH	18.1	109.0	16.5	106.9	124.5	6	98.1	98	-2 / 2	C
162		04/24/24	U25976		CH	18.1	109.0	19.3	107.8	128.6	6	98.9	98	-2 / 2	C
163		04/24/24	U25976		CH	18.1	109.0	18.1	107.7	127.2	6	98.8	98	-2 / 2	C
164		04/24/24	U25976		CH	18.1	109.0	17.9	109.0	128.5	6	100.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
157	Sewer Main: Line A STA 36+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
158	Sewer Main: Line A STA 37+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
159	Sewer Main: Line A STA 38+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
160	Sewer Main: Line A STA 39+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
161	Sewer Main: Line A STA 40+00								5th Lift		Troxler / 3430P / 76396 / 07/28/2023			Olson, James	
162	Sewer Main: Line A STA 20+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
163	Sewer Main: Line A STA 21+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
164	Sewer Main: Line A STA 22+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
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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Compaction Evaluation

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Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
165		04/24/24	U25976		CH	18.1	109.0	18.3	110.4	130.6	6	101.3	98	-2 / 2	C
166		04/24/24	U25976		CH	18.1	109.0	17.6	107.4	126.3	6	98.5	98	-2 / 2	C
167		04/24/24	U25976		CH	18.1	109.0	17.1	108.9	127.5	6	99.9	98	-2 / 2	C
168		04/24/24	U25976		CH	18.1	109.0	19.4	108.8	129.9	6	99.8	98	-2 / 2	C
169		04/24/24	U25976		CH	18.1	109.0	16.5	110.0	128.2	6	100.9	98	-2 / 2	C
170		04/24/24	U25976		CH	18.1	109.0	16.3	109.2	127.0	6	100.2	98	-2 / 2	C
171		04/24/24	U25976		CH	18.1	109.0	18.0	108.0	127.4	6	99.1	98	-2 / 2	C
172		04/24/24	U25976		CH	18.1	109.0	17.2	108.8	127.5	6	99.8	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
165	Sewer Main: Line A STA 23+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
166	Sewer Main: Line A STA 24+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
167	Sewer Main: Line A STA 25+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
168	Sewer Main: Line A STA 26+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
169	Sewer Main: Line A STA 27+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
170	Sewer Main: Line A STA 28+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
171	Sewer Main: Line A STA 29+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
172	Sewer Main: Line A STA 30+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
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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Compaction Evaluation

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Project:

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San Antonio, 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
173		04/24/24	U25976		CH	18.1	109.0	17.9	109.7	129.3	6	100.6	98	-2 / 2	C
174		04/24/24	U25976		CH	18.1	109.0	16.9	108.6	127.0	6	99.6	98	-2 / 2	C
175		04/24/24	U25976		CH	18.1	109.0	16.4	109.3	127.2	6	100.3	98	-2 / 2	C
176		04/24/24	U25976		CH	18.1	109.0	18.4	107.5	127.3	6	98.6	98	-2 / 2	C
177		04/24/24	U25976		CH	18.1	109.0	18.9	107.6	127.9	6	98.7	98	-2 / 2	C
178		04/24/24	U25976		CH	18.1	109.0	17.5	109.6	128.8	6	100.6	98	-2 / 2	C
179		04/24/24	U25976		CH	18.1	109.0	18.7	108.0	128.2	6	99.1	98	-2 / 2	C
180		04/25/24	U25976		CH	18.1	109.0	17.4	108.3	127.1	6	99.4	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
173	Sewer Main: Line A STA 31+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
174	Sewer Main: Line A STA 32+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
175	Sewer Main: Line A STA 33+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
176	Sewer Main: Line A STA 52+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
177	Sewer Main: Line A STA 53+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
178	Sewer Main: Line A STA 54+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
179	Sewer Main: Line A STA 55+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
180	Sewer Main: Line A STA 33+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
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
181		04/25/24	U25976		CH	18.1	109.0	16.5	106.9	124.5	6	98.1	98	-2 / 2	C
182		04/25/24	U25976		CH	18.1	109.0	16.1	110.7	128.5	6	101.6	98	-2 / 2	C
183		04/25/24	U25976		CH	18.1	109.0	17.8	109.6	129.1	6	100.6	98	-2 / 2	C
184		04/25/24	U25976		CH	18.1	109.0	18.5	111.1	131.7	6	101.9	98	-2 / 2	C
185		04/25/24	U25976		CH	18.1	109.0	17.8	108.9	128.3	6	99.9	98	-2 / 2	C
186		04/25/24	U25976		CH	18.1	109.0	18.0	107.9	127.3	6	99.0	98	-2 / 2	C
187		04/25/24	U25976		CH	18.1	109.0	17.8	113.6	133.8	6	104.2	98	-2 / 2	C
188		04/25/24	U25976		CH	18.1	109.0	17.5	108.9	128.0	6	99.9	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
181	Sewer Main: Line A STA 34+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
182	Sewer Main: Line A STA 35+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
183	Sewer Main: Line A STA 36+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
184	Sewer Main: Line A STA 37+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
185	Sewer Main: Line A STA 38+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
186	Sewer Main: Line A STA 39+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
187	Sewer Main: Line A STA 40+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
188	Sewer Main: Line A STA 41+00								5th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
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 (%)	Remarks
189		04/25/24	U25976		CH	18.1	109.0	17.8	112.0	131.9	6	102.8	98	-2 / 2	C
190		04/25/24	U25976		CH	18.1	109.0	17.9	114.5	135.0	6	105.0	98	-2 / 2	C
191		04/25/24	U25976		CH	18.1	109.0	17.8	113.6	133.8	6	104.2	98	-2 / 2	C
192		04/25/24	U25976		CH	18.1	109.0	17.3	111.9	131.3	6	102.7	98	-2 / 2	C
193		04/26/24	U25738		CH	17.0	110.3	15.2	112.5	129.6	4	102.0	98	-2 / 2	C
194		04/26/24	U25738		CH	17.0	110.3	18.2	109.2	129.1	4	99.0	98	-2 / 2	C
195		04/26/24	U25738		CH	17.0	110.3	19.0	109.3	130.1	4	99.1	98	-2 / 2	C
196		04/26/24	U25738		CH	17.0	110.3	18.5	108.2	128.2	4	98.1	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
189	Sewer Main: Line A STA 42+00								5th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
190	Sewer Main: Line A STA 43+00								5th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
191	Sewer Main: Line A STA 44+00								5th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
192	Sewer Main: Line A STA 45+00								5th Lift		Troxler / 3430 / 38396 / 01/22/2024			Olson, James	
193	Sewer Main: Line A STA 20+50								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
194	Sewer Main: Line A STA 22+00								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
195	Sewer Main: Line A STA 23+00								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
196	Sewer Main: Line A STA 24+50								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
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
197		04/26/24	U25738		CH	17.0	110.3	18.8	108.2	128.5	4	98.1	98	-2 / 2	C
198		04/26/24	U25738		CH	17.0	110.3	18.5	108.2	128.2	4	98.1	98	-2 / 2	C
199		04/26/24	U25738		CH	17.0	110.3	18.2	108.1	127.8	4	98.0	98	-2 / 2	C
200		04/26/24	U25738		CH	17.0	110.3	18.8	108.5	128.9	4	98.4	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
197	Sewer Main: Line A STA 26+00							7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik		
198	Sewer Main: Line A STA 27+50							7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik		
199	Sewer Main: Line A STA 29+00							7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik		
200	Sewer Main: Line A STA 30+50							7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik		
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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InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		04/26/24	U25738		CH	17.0	110.3	17.2	108.3	126.9	4	98.2	98	-2 / 2	C
202		04/26/24	U25738		CH	17.0	110.3	18.6	108.2	128.3	4	98.1	98	-2 / 2	C
203		04/26/24	U25738		CH	17.0	110.3	18.2	108.2	127.9	4	98.1	98	-2 / 2	C
204		04/26/24	U25738		CH	17.0	110.3	18.7	108.6	128.9	4	98.5	98	-2 / 2	C
205		04/26/24	U25738		CH	17.0	110.3	17.9	108.1	127.4	4	98.0	98	-2 / 2	C
206		04/26/24	U25738		CH	17.0	110.3	18.7	109.2	129.6	4	99.0	98	-2 / 2	C
207		04/26/24	U25738		CH	17.0	110.3	17.2	109.6	128.5	4	99.4	98	-2 / 2	C
208		04/26/24	U25738		CH	17.0	110.3	17.7	109.7	129.1	4	99.5	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
201	Sewer Main: Line A STA 31+00								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
202	Sewer Main: Line A STA 32+50								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
203	Sewer Main: Line A STA 34+00								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
204	Sewer Main: Line A STA 35+50								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
205	Sewer Main: Line A STA 37+00								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
206	Sewer Main: Line A STA 38+50								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
207	Sewer Main: Line A STA 40+00								7th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
208	Sewer Main: Line A STA 41+50								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
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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29.381265682887246, -98.32008373231879
San Antonio, 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
209		04/26/24	U25738		CH	17.0	110.3	17.8	109.6	129.1	4	99.4	98	-2 / 2	C
210		04/26/24	U25738		CH	17.0	110.3	17.2	109.8	128.7	4	99.5	98	-2 / 2	C
211		04/27/24	U25976		CH	18.1	109.0	18.5	111.5	132.1	4	102.3	98	-2 / 2	C
212		04/27/24	U25976		CH	18.1	109.0	19.6	107.5	128.6	4	98.6	98	-2 / 2	C
213		04/27/24	U25976		CH	18.1	109.0	18.2	110.5	130.6	4	101.4	98	-2 / 2	C
214		04/27/24	U25976		CH	18.1	109.0	19.3	111.4	132.9	4	102.2	98	-2 / 2	C
215		04/27/24	U25976		CH	18.1	109.0	18.8	109.4	130.0	4	100.4	98	-2 / 2	C
216		04/27/24	U25976		CH	18.1	109.0	19.9	107.7	129.1	4	98.8	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
209	Sewer Main: Line A STA 43+00								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
210	Sewer Main: Line A STA 44+50								6th Lift		Troxler / 3430 / 38396 / 01/22/2024			Davenport, Erik	
211	Sewer Main: Line A STA 21+00								8th Lift		Troxler / 3430P / 74319 / 03/06/2024			Johnson, Thomas	
212	Sewer Main: Line A STA 25+00								8th Lift		Troxler / 3430P / 74319 / 03/06/2024			Johnson, Thomas	
213	Sewer Main: Line A STA 29+00								8th Lift		Troxler / 3430P / 74319 / 03/06/2024			Johnson, Thomas	
214	Sewer Main: Line A STA 33+00								8th Lift		Troxler / 3430P / 74319 / 03/06/2024			Johnson, Thomas	
215	Sewer Main: Line A STA 37+00								8th Lift		Troxler / 3430P / 74319 / 03/06/2024			Johnson, Thomas	
216	Sewer Main: Line A STA 41+00								8th Lift		Troxler / 3430P / 74319 / 03/06/2024			Johnson, Thomas	
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 78233

Project:

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Gates Tract Off-Site Sewer
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San Antonio, TX

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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
217		04/29/24	U25738		CH	17.0	110.3	19.0	108.2	128.8	4	98.1	98	-2 / 2	C
218		04/29/24	U25738		CH	17.0	110.3	17.3	108.3	127.0	4	98.2	98	-2 / 2	C
219		04/29/24	U25738		CH	17.0	110.3	17.2	108.3	126.9	4	98.2	98	-2 / 2	C
220		04/29/24	U25738		CH	17.0	110.3	17.4	108.2	127.0	4	98.1	98	-2 / 2	C
221		04/29/24	U25738		CH	17.0	110.3	17.8	108.5	127.8	4	98.4	98	-2 / 2	C
222		04/29/24	U25738		CH	17.0	110.3	17.4	108.4	127.3	4	98.3	98	-2 / 2	C
223		04/29/24	U25738		CH	17.0	110.3	18.1	108.6	128.3	4	98.5	98	-2 / 2	C
224		04/29/24	U25738		CH	17.0	110.3	17.2	108.9	127.6	4	98.7	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
217	Sewer Main: Line A STA 34+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
218	Sewer Main: Line A STA 33+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
219	Sewer Main: Line A STA 32+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
220	Sewer Main: Line A STA 31+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
221	Sewer Main: Line A STA 30+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
222	Sewer Main: Line A STA 29+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
223	Sewer Main: Line A STA 28+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
224	Sewer Main: Line A STA 27+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
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
225		04/29/24	U25738		CH	17.0	110.3	18.2	108.9	128.7	4	98.7	98	-2 / 2	C
226		04/29/24	U25738		CH	17.0	110.3	18.1	108.9	128.6	4	98.7	98	-2 / 2	C
227		04/29/24	U25738		CH	17.0	110.3	18.0	108.2	127.7	4	98.1	98	-2 / 2	C
228		04/29/24	U25738		CH	17.0	110.3	17.6	108.6	127.7	4	98.5	98	-2 / 2	C
229		04/29/24	U25738		CH	17.0	110.3	18.9	108.9	129.5	4	98.7	98	-2 / 2	C
230		04/29/24	U25738		CH	17.0	110.3	18.9	108.9	129.5	4	98.7	98	-2 / 2	C
231		04/29/24	U25738		CH	17.0	110.3	18.8	108.8	129.3	4	98.6	98	-2 / 2	C
232		04/29/24	U25977		CH	19.4	105.0	18.2	104.3	123.3	4	99.3	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
225	Sewer Main: Line A STA 26+50							9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
226	Sewer Main: Line A STA 25+50							9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
227	Sewer Main: Line A STA 24+50							9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
228	Sewer Main: Line A STA 23+50							9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
229	Sewer Main: Line A STA 22+50							9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
230	Sewer Main: Line A STA 21+50							9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
231	Sewer Main: Line A STA 20+50							9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
232	Sewer Main: Line A STA 33+50							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
Remarks					Comments										
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233		04/29/24	U25977		CH	19.4	105.0	18.2	103.6	122.5	4	98.7	98	-2 / 2	C
234		04/29/24	U25977		CH	19.4	105.0	18.4	104.5	123.7	4	99.5	98	-2 / 2	C
235		04/29/24	U25977		CH	19.4	105.0	17.8	103.2	121.6	4	98.3	98	-2 / 2	C
236		04/29/24	U25977		CH	19.4	105.0	18.1	104.8	123.8	4	99.8	98	-2 / 2	C
237		04/29/24	U25977		CH	19.4	105.0	19.0	103.5	123.2	4	98.6	98	-2 / 2	C
238		04/29/24	U25977		CH	19.4	105.0	18.4	103.8	122.9	4	98.9	98	-2 / 2	C
239		04/29/24	U25977		CH	19.4	105.0	18.2	104.6	123.6	4	99.6	98	-2 / 2	C
240		04/30/24	U25738		CH	17.0	110.3	18.0	108.3	127.8	4	98.2	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
233	Sewer Main: Line A STA 35+00								10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
234	Sewer Main: Line A STA 36+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
235	Sewer Main: Line A STA 38+00								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
236	Sewer Main: Line A STA 39+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
237	Sewer Main: Line A STA 41+00								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
238	Sewer Main: Line A STA 42+50								7th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
239	Sewer Main: Line A STA 44+00								7th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
240	Sewer Main: Line A STA 20+50								10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
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
241		04/30/24	U25738		CH	17.0	110.3	15.2	108.2	124.6	4	98.1	98	-2 / 2	C
242		04/30/24	U25738		CH	17.0	110.3	15.6	108.2	125.1	4	98.1	98	-2 / 2	C
243		04/30/24	U25738		CH	17.0	110.3	18.2	109.3	129.2	4	99.1	98	-2 / 2	C
244		04/30/24	U25738		CH	17.0	110.3	16.2	108.2	125.7	4	98.1	98	-2 / 2	C
245		04/30/24	U25738		CH	17.0	110.3	16.2	108.5	126.1	4	98.4	98	-2 / 2	C
246		04/30/24	U25738		CH	17.0	110.3	16.8	109.5	127.9	4	99.3	98	-2 / 2	C
247		04/30/24	U25738		CH	17.0	110.3	18.2	109.2	129.1	4	99.0	98	-2 / 2	C
248		04/30/24	U25738		CH	17.0	110.3	15.2	108.1	124.5	4	98.0	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
241	Sewer Main: Line A STA 22+00							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
242	Sewer Main: Line A STA 23+50							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
243	Sewer Main: Line A STA 25+00							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
244	Sewer Main: Line A STA 26+50							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
245	Sewer Main: Line A STA 28+00							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
246	Sewer Main: Line A STA 29+50							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
247	Sewer Main: Line A STA 31+00							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
248	Sewer Main: Line A STA 32+50							10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
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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249		04/30/24	U25738		CH	17.0	110.3	18.9	108.2	128.6	4	98.1	98	-2 / 2	C
250		04/30/24	U25738		CH	17.0	110.3	17.2	108.1	126.7	4	98.0	98	-2 / 2	C
251		04/30/24	U25738		CH	17.0	110.3	17.9	108.2	127.6	4	98.1	98	-2 / 2	C
252		04/30/24	U25738		CH	17.0	110.3	15.2	109.2	125.8	4	99.0	98	-2 / 2	C
253		04/30/24	U25738		CH	17.0	110.3	15.1	116.2	133.7	4	105.3	98	-2 / 2	C
254		04/30/24	U25738		CH	17.0	110.3	16.0	115.2	133.6	4	104.4	98	-2 / 2	C
255		04/30/24	U25738		CH	17.0	110.3	17.0	116.0	135.7	4	105.2	98	-2 / 2	C
256		04/30/24	U25738		CH	17.0	110.3	15.0	116.1	133.5	4	105.3	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
249	Sewer Main: Line A STA 33+00								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
250	Sewer Main: Line A STA 34+50								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
251	Sewer Main: Line A STA 36+00								10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
252	Sewer Main: Line A STA 37+50								10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
253	Sewer Main: Line A STA 39+00								10th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
254	Sewer Main: Line A STA 41+50								8th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
255	Sewer Main: Line A STA 43+00								8th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
256	Sewer Main: Line A STA 44+00								8th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
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: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
257		05/01/24	U25738		CH	17.0	110.3	15.2	108.2	124.6	4	98.1	98	-2 / 2	C
258		05/01/24	U25738		CH	17.0	110.3	16.1	108.2	125.6	4	98.1	98	-2 / 2	C
259		05/01/24	U25738		CH	17.0	110.3	15.9	108.9	126.2	4	98.7	98	-2 / 2	C
260		05/01/24	U25738		CH	17.0	110.3	16.2	108.5	126.1	4	98.4	98	-2 / 2	C
261		05/01/24	U25738		CH	17.0	110.3	15.0	109.1	125.5	4	98.9	98	-2 / 2	C
262		05/01/24	U25738		CH	17.0	110.3	17.0	108.1	126.5	4	98.0	98	-2 / 2	C
263		05/01/24	U25738		CH	17.0	110.3	16.2	108.6	126.2	4	98.5	98	-2 / 2	C
264		05/01/24	U25738		CH	17.0	110.3	17.6	108.9	128.1	4	98.7	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
257	Sewer Main: Line A STA 20+00								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
258	Sewer Main: Line A STA 21+50								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
259	Sewer Main: Line A STA 23+00								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
260	Sewer Main: Line A STA 24+50								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
261	Sewer Main: Line A STA 26+00								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
262	Sewer Main: Line A STA 27+50								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
263	Sewer Main: Line A STA 29+00								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
264	Sewer Main: Line A STA 31+00								11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
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

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		05/01/24	U25738		CH	17.0	110.3	17.9	108.9	128.4	4	98.7	98	-2 / 2	C
266		05/01/24	U25738		CH	17.0	110.3	18.2	109.2	129.1	4	99.0	98	-2 / 2	C
267		05/01/24	U25738		CH	17.0	110.3	12.9	100.3	113.2	4	90.9	98	-2 / 2	NC
268		05/01/24	U25738		CH	17.0	110.3	13.2	97.2	110.0	4	88.1	98	-2 / 2	NC
269		05/02/24	U25977		CH	19.4	105.0	20.0	104.2	125.0	6	99.2	98	-2 / 2	C
270		05/02/24	U25977		CH	19.4	105.0	20.5	102.9	124.0	6	98.0	98	-2 / 2	C
271		05/02/24	U25977		CH	19.4	105.0	19.8	103.4	123.9	6	98.5	98	-2 / 2	C
272		05/02/24	U25977		CH	19.4	105.0	19.8	103.9	124.5	6	99.0	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
265	Sewer Main: Line A STA 32+50							11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
266	Sewer Main: Line A STA 32+50							11th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
267	Sewer Main: Line A STA 33+50							12th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
268	Sewer Main: Line A STA 35+00							12th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
269	Sewer Main: Line A STA 21+50							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
270	Sewer Main: Line A STA 23+00							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
271	Sewer Main: Line A STA 24+50							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
272	Sewer Main: Line A STA 26+00							12th 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.										
NC: Non-Compliant															

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

Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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		05/02/24	U25977		CH	19.4	105.0	20.5	103.7	125.0	6	98.8	98	-2 / 2	C
274		05/02/24	U25977		CH	19.4	105.0	19.7	104.2	124.7	6	99.2	98	-2 / 2	C
275		05/02/24	U25977		CH	19.4	105.0	19.7	103.5	123.9	6	98.6	98	-2 / 2	C
276		05/02/24	U25977		CH	19.4	105.0	20.2	104.5	125.6	6	99.5	98	-2 / 2	C
277		05/02/24	U25977		CH	19.4	105.0	21.2	103.9	125.9	6	99.0	98	-2 / 2	C
278		05/02/24	U25977		CH	19.4	105.0	20.2	103.8	124.8	6	98.9	98	-2 / 2	C
279		05/02/24	U25977		CH	19.4	105.0	19.2	104.2	124.2	6	99.2	98	-2 / 2	C
280		05/02/24	U25977		CH	19.4	105.0	18.9	103.4	122.9	6	98.5	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
273	Sewer Main: Line A STA 27+50							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
274	Sewer Main: Line A STA 29+00							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
275	Sewer Main: Line A STA 30+50							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
276	Sewer Main: Line A STA 32+00							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
277	Sewer Main: Line A STA 33+50							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
278	Sewer Main: Line A STA 33+50							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
279	Sewer Main: Line A STA 35+00							12th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanual		
280	Sewer Main: Line A STA 36+50							11th 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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Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

Client:

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San Antonio, TX 78233

Project:

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Gates Tract Off-Site Sewer
29.381265682887246, -98.32008373231879
San Antonio, 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
281		05/02/24	U25977		CH	19.4	105.0	19.2	103.5	123.4	6	98.6	98	-2 / 2	C
282		05/02/24	U25977		CH	19.4	105.0	19.7	103.8	124.2	6	98.9	98	-2 / 2	C
283		05/03/24	U25738		CH	17.0	110.3	15.8	114.2	132.2	4	103.5	98	-2 / 2	C
284		05/03/24	U25738		CH	17.0	110.3	15.9	114.0	132.1	4	103.4	98	-2 / 2	C
285		05/03/24	U25738		CH	17.0	110.3	18.2	114.6	135.5	4	103.9	98	-2 / 2	C
286		05/03/24	U25738		CH	17.0	110.3	16.5	115.6	134.7	4	104.8	98	-2 / 2	C
287		05/03/24	U25738		CH	17.0	110.3	16.2	115.6	134.3	4	104.8	98	-2 / 2	C
288		05/03/24	U25738		CH	17.0	110.3	15.2	116.2	133.9	4	105.3	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
281	Sewer Main: Line A STA 38+00								11th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel	
282	Sewer Main: Line A STA 39+50								11th Lift		Troxler / 3430P / 80149 / 11/02/2023			Torres, Emanuel	
283	Sewer Main: Line A STA 20+00								13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik	
284	Sewer Main: Line A STA 21+50								13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik	
285	Sewer Main: Line A STA 23+00								13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik	
286	Sewer Main: Line A STA 24+50								13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik	
287	Sewer Main: Line A STA 26+00								13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik	
288	Sewer Main: Line A STA 27+50								13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik	
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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
289		05/03/24	U25738		CH	17.0	110.3	15.2	114.6	132.0	4	103.9	98	-2 / 2	C
290		05/03/24	U25738		CH	17.0	110.3	16.0	115.8	134.3	4	105.0	98	-2 / 2	C
291		05/03/24	U25738		CH	17.0	110.3	15.0	115.7	133.1	4	104.9	98	-2 / 2	C
292		05/03/24	U25738		CH	17.0	110.3	15.8	115.2	133.4	4	104.4	98	-2 / 2	C
293		05/04/24	U25977		CH	19.4	105.0	20.2	104.2	125.2	4	99.2	98	-2 / 2	C
294		05/04/24	U25977		CH	19.4	105.0	19.2	103.5	123.4	4	98.6	98	-2 / 2	C
295		05/04/24	U25977		CH	19.4	105.0	19.8	103.6	124.1	4	98.7	98	-2 / 2	C
296		05/04/24	U25977		CH	19.4	105.0	19.9	103.6	124.2	4	98.7	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
289	Sewer Main: Line A STA 29+00							13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik		
290	Sewer Main: Line A STA 30+50							13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik		
291	Sewer Main: Line A STA 32+00							13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik		
292	Sewer Main: Line A STA 33+00							13th Lift		Troxler / 3430P / 80149 / 11/02/2023			Davenport, Erik		
293	Sewer Main: Line A STA 20+50							14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
294	Sewer Main: Line A STA 21+50							14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
295	Sewer Main: Line A STA 22+50							14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
296	Sewer Main: Line A STA 23+50							14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik		
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 Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
297		05/04/24	U25977		CH	19.4	105.0	20.5	103.0	124.1	4	98.1	98	-2 / 2	C
298		05/04/24	U25977		CH	19.4	105.0	20.9	104.8	126.7	4	99.8	98	-2 / 2	C
299		05/04/24	U25977		CH	19.4	105.0	19.2	103.2	123.0	4	98.3	98	-2 / 2	C
300		05/04/24	U25977		CH	19.4	105.0	21.2	102.9	124.7	4	98.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
297	Sewer Main: Line A STA 24+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
298	Sewer Main: Line A STA 25+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
299	Sewer Main: Line A STA 26+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
300	Sewer Main: Line A STA 27+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
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 Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
301		05/04/24	U25977		CH	19.4	105.0	20.2	105.1	126.3	4	100.1	98	-2 / 2	C
302		05/04/24	U25977		CH	19.4	105.0	19.1	102.9	122.6	4	98.0	98	-2 / 2	C
303		05/04/24	U25977		CH	19.4	105.0	20.6	104.0	125.4	4	99.0	98	-2 / 2	C
304		05/04/24	U25977		CH	19.4	105.0	18.8	103.8	123.3	4	98.9	98	-2 / 2	C
305		05/04/24	U25977		CH	19.4	105.0	20.6	105.0	126.6	4	100.0	98	-2 / 2	C
306		05/04/24	U25977		CH	19.4	105.0	21.0	105.2	127.3	4	100.2	98	-2 / 2	C
307		05/04/24	U25977		CH	19.4	105.0	17.8	105.0	123.7	4	100.0	98	-2 / 2	C
308		05/04/24	U25977		CH	19.4	105.0	18.2	104.9	124.0	4	99.9	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
301	Sewer Main: Line A STA 28+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
302	Sewer Main: Line A STA 29+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
303	Sewer Main: Line A STA 30+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
304	Sewer Main: Line A STA 31+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
305	Sewer Main: Line A STA 32+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
306	Sewer Main: Line A STA 33+50								14th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
307	Sewer Main: Line A STA 34+50								13th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
308	Sewer Main: Line A STA 35+50								13th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
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: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
309		05/04/24	U25977		CH	19.4	105.0	18.8	103.5	123.0	4	98.6	98	-2 / 2	C
310		05/04/24	U25977		CH	19.4	105.0	19.2	103.2	123.0	4	98.3	98	-2 / 2	C
311		05/04/24	U25977		CH	19.4	105.0	19.2	103.4	123.3	4	98.5	98	-2 / 2	C
312		05/04/24	U25977		CH	19.4	105.0	18.2	103.2	122.0	4	98.3	98	-2 / 2	C
313		05/04/24	U25977		CH	19.4	105.0	21.2	103.1	125.0	4	98.2	98	-2 / 2	C
314		05/04/24	U25977		CH	19.4	105.0	18.6	104.2	123.6	4	99.2	98	-2 / 2	C
315		05/04/24	U25977		CH	19.4	105.0	18.7	104.4	123.9	4	99.4	98	-2 / 2	C
316		05/04/24	U25977		CH	19.4	105.0	17.8	104.9	123.6	4	99.9	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
309	Sewer Main: Line A STA 36+50								12th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
310	Sewer Main: Line A STA 37+50								12th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
311	Sewer Main: Line A STA 38+50								12th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
312	Sewer Main: Line A STA 39+50								12th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
313	Sewer Main: Line A STA 40+50								12th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
314	Sewer Main: Line A STA 41+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
315	Sewer Main: Line A STA 42+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
316	Sewer Main: Line A STA 43+50								9th Lift		Troxler / 3430 / 38292 / 07/26/2023			Davenport, Erik	
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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Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
317		05/06/24	U25977		CH	19.4	105.0	19.3	103.9	124.0	6	99.0	98	-2 / 2	C
318		05/06/24	U25977		CH	19.4	105.0	18.4	109.9	130.1	6	104.7	98	-2 / 2	C
319		05/06/24	U25977		CH	19.4	105.0	17.9	109.1	128.6	6	103.9	98	-2 / 2	C
320		05/06/24	U25977		CH	19.4	105.0	18.2	107.5	127.1	6	102.4	98	-2 / 2	C
321		05/06/24	U25977		CH	19.4	105.0	17.5	105.9	124.4	6	100.9	98	-2 / 2	C
322		05/06/24	U25977		CH	19.4	105.0	18.0	106.4	125.6	6	101.3	98	-2 / 2	C
323		05/06/24	U25977		CH	19.4	105.0	18.7	108.3	128.6	6	103.1	98	-2 / 2	C
324		05/06/24	U25977		CH	19.4	105.0	20.2	104.0	125.0	6	99.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
317	Sewer Main: Line A STA 33+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
318	Sewer Main: Line A STA 34+50								14th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
319	Sewer Main: Line A STA 35+50								14th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
320	Sewer Main: Line A STA 36+50								13th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
321	Sewer Main: Line A STA 37+50								13th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
322	Sewer Main: Line A STA 38+50								13th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
323	Sewer Main: Line A STA 39+50								13th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
324	Sewer Main: Line A STA 20+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
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

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
325		05/06/24	U25977		CH	19.4	105.0	19.3	108.0	128.8	6	102.9	98	-2 / 2	C
326		05/06/24	U25977		CH	19.4	105.0	19.6	103.4	123.7	6	98.5	98	-2 / 2	C
327		05/06/24	U25977		CH	19.4	105.0	18.5	107.8	127.7	6	102.7	98	-2 / 2	C
328		05/06/24	U25977		CH	19.4	105.0	18.0	106.3	125.4	6	101.2	98	-2 / 2	C
329		05/06/24	U25977		CH	19.4	105.0	17.7	106.1	124.9	6	101.0	98	-2 / 2	C
330		05/06/24	U25977		CH	19.4	105.0	18.3	104.9	124.1	6	99.9	98	-2 / 2	C
331		05/06/24	U25977		CH	19.4	105.0	18.7	103.1	122.4	6	98.2	98	-2 / 2	C
332		05/06/24	U25977		CH	19.4	105.0	19.4	103.8	123.9	6	98.9	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
325	Sewer Main: Line A STA 21+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
326	Sewer Main: Line A STA 22+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
327	Sewer Main: Line A STA 23+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
328	Sewer Main: Line A STA 24+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
329	Sewer Main: Line A STA 25+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
330	Sewer Main: Line A STA 26+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
331	Sewer Main: Line A STA 27+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
332	Sewer Main: Line A STA 28+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
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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Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

Client:

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San Antonio, TX 78233

Project:

S232173
Gates Tract Off-Site Sewer
29.381265682887246, -98.32008373231879
San Antonio, 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
333		05/06/24	U25977		CH	19.4	105.0	17.9	103.8	122.4	6	98.9	98	-2 / 2	C
334		05/06/24	U25977		CH	19.4	105.0	17.9	105.6	124.5	6	100.6	98	-2 / 2	C
335		05/06/24	U25977		CH	19.4	105.0	18.6	105.6	125.2	6	100.6	98	-2 / 2	C
336		05/06/24	U25977		CH	19.4	105.0	18.8	108.2	128.5	6	103.0	98	-2 / 2	C
337		05/07/24	U25977		CH	19.4	105.0	18.0	110.0	129.8	4	104.8	98	-2 / 2	C
338		05/07/24	U25977		CH	19.4	105.0	18.9	109.2	129.8	4	104.0	98	-2 / 2	C
339		05/07/24	U25977		CH	19.4	105.0	18.2	110.2	130.3	4	105.0	98	-2 / 2	C
340		05/07/24	U25977		CH	19.4	105.0	18.6	109.9	130.3	4	104.7	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
333	Sewer Main: Line A STA 29+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
334	Sewer Main: Line A STA 30+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
335	Sewer Main: Line A STA 31+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
336	Sewer Main: Line A STA 32+50								15th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
337	Sewer Main: Line A STA 33+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
338	Sewer Main: Line A STA 34+50								15th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
339	Sewer Main: Line A STA 35+50								15th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
340	Sewer Main: Line A STA 36+50								14th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
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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Compaction Evaluation

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29.381265682887246, -98.32008373231879
San Antonio, 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
341		05/07/24	U25977		CH	19.4	105.0	17.8	109.8	129.3	4	104.6	98	-2 / 2	C
342		05/07/24	U25977		CH	19.4	105.0	17.8	109.6	129.1	4	104.4	98	-2 / 2	C
343		05/07/24	U25977		CH	19.4	105.0	17.9	109.5	129.1	4	104.3	98	-2 / 2	C
344		05/07/24	U25977		CH	19.4	105.0	18.9	103.2	122.7	4	98.3	98	-2 / 2	C
345		05/07/24	U25977		CH	19.4	105.0	18.5	103.7	122.9	4	98.8	98	-2 / 2	C
346		05/07/24	U25977		CH	19.4	105.0	17.8	109.2	128.6	4	104.0	98	-2 / 2	C
347		05/07/24	U25977		CH	19.4	105.0	17.9	109.0	128.5	4	103.8	98	-2 / 2	C
348		05/07/24	U25977		CH	19.4	105.0	18.2	108.8	128.6	4	103.6	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
341	Sewer Main: Line A STA 37+50								14th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
342	Sewer Main: Line A STA 38+50								14th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
343	Sewer Main: Line A STA 39+50								14th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
344	Sewer Main: Line A STA 20+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
345	Sewer Main: Line A STA 22+00								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
346	Sewer Main: Line A STA 23+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
347	Sewer Main: Line A STA 25+00								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
348	Sewer Main: Line A STA 26+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
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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29.381265682887246, -98.32008373231879
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Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
349		05/07/24	U25977		CH	19.4	105.0	17.4	110.0	129.1	4	104.8	98	-2 / 2	C
350		05/07/24	U25977		CH	19.4	105.0	19.0	108.5	129.1	4	103.3	98	-2 / 2	C
351		05/07/24	U25977		CH	19.4	105.0	18.7	109.8	130.3	4	104.6	98	-2 / 2	C
352		05/07/24	U25977		CH	19.4	105.0	18.4	109.5	129.6	4	104.3	98	-2 / 2	C
353		05/08/24	U25977		CH	19.4	105.0	17.5	109.2	128.3	4	104.0	98	-2 / 2	C
354		05/08/24	U25977		CH	19.4	105.0	18.2	109.5	129.4	4	104.3	98	-2 / 2	C
355		05/08/24	U25977		CH	19.4	105.0	17.8	109.2	128.6	4	104.0	98	-2 / 2	C
356		05/08/24	U25977		CH	19.4	105.0	18.1	109.0	128.7	4	103.8	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
349	Sewer Main: Line A STA 28+00								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
350	Sewer Main: Line A STA 29+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
351	Sewer Main: Line A STA 31+00								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
352	Sewer Main: Line A STA 32+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
353	Sewer Main: Line A STA 33+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
354	Sewer Main: Line A STA 34+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
355	Sewer Main: Line A STA 35+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
356	Sewer Main: Line A STA 36+50								15th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
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 Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
357		05/08/24	U25977		CH	19.4	105.0	17.5	108.9	128.0	4	103.7	98	-2 / 2	C
358		05/08/24	U25977		CH	19.4	105.0	19.2	108.2	129.0	4	103.0	98	-2 / 2	C
359		05/08/24	U25977		CH	19.4	105.0	19.6	108.0	129.2	4	102.9	98	-2 / 2	C
360		05/08/24	U25977		CH	19.4	105.0	19.0	110.0	130.9	4	104.8	98	-2 / 2	C
361		05/08/24	U25977		CH	19.4	105.0	17.4	109.2	128.2	4	104.0	98	-2 / 2	C
362		05/08/24	U25977		CH	19.4	105.0	17.5	109.1	128.2	4	103.9	98	-2 / 2	C
363		05/08/24	U25977		CH	19.4	105.0	17.9	108.9	128.4	4	103.7	98	-2 / 2	C
364		05/08/24	U25977		CH	19.4	105.0	18.1	109.0	128.7	4	103.8	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
357	Sewer Main: Line A STA 37+50								15th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
358	Sewer Main: Line A STA 38+50								15th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
359	Sewer Main: Line A STA 39+50								15th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
360	Sewer Main: Line A STA 20+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
361	Sewer Main: Line A STA 21+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
362	Sewer Main: Line A STA 22+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
363	Sewer Main: Line A STA 23+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
364	Sewer Main: Line A STA 24+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
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: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
365		05/08/24	U25977		CH	19.4	105.0	18.6	109.9	130.3	4	104.7	98	-2 / 2	C
366		05/08/24	U25977		CH	19.4	105.0	18.1	108.7	128.4	4	103.5	98	-2 / 2	C
367		05/08/24	U25977		CH	19.4	105.0	17.7	109.8	129.2	4	104.6	98	-2 / 2	C
368		05/08/24	U25977		CH	19.4	105.0	17.9	109.4	129.0	4	104.2	98	-2 / 2	C
369		05/08/24	U25977		CH	19.4	105.0	19.1	108.0	128.6	4	102.9	98	-2 / 2	C
370		05/08/24	U25977		CH	19.4	105.0	19.0	109.8	130.7	4	104.6	98	-2 / 2	C
371		05/08/24	U25977		CH	19.4	105.0	18.6	108.7	128.9	4	103.5	98	-2 / 2	C
372		05/08/24	U25977		CH	19.4	105.0	18.4	108.8	128.8	4	103.6	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
365	Sewer Main: Line A STA 25+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
366	Sewer Main: Line A STA 26+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
367	Sewer Main: Line A STA 27+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
368	Sewer Main: Line A STA 28+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
369	Sewer Main: Line A STA 29+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
370	Sewer Main: Line A STA 30+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
371	Sewer Main: Line A STA 31+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
372	Sewer Main: Line A STA 32+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
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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Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

Client:

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5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232173
Gates Tract Off-Site Sewer
29.381265682887246, -98.32008373231879
San Antonio, 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
373		05/09/24	U25977		CH	19.4	105.0	19.2	109.2	130.2	4	104.0	98	-2 / 2	C
374		05/09/24	U25977		CH	19.4	105.0	19.0	110.0	130.9	4	104.8	98	-2 / 2	C
375		05/09/24	U25977		CH	19.4	105.0	19.5	109.9	131.3	4	104.7	98	-2 / 2	C
376		05/09/24	U25977		CH	19.4	105.0	19.4	109.2	130.4	4	104.0	98	-2 / 2	C
377		05/09/24	U25977		CH	19.4	105.0	20.1	108.5	130.3	4	103.3	98	-2 / 2	C
378		05/09/24	U25977		CH	19.4	105.0	20.4	108.5	130.6	4	103.3	98	-2 / 2	C
379		05/09/24	U25977		CH	19.4	105.0	20.0	108.7	130.4	4	103.5	98	-2 / 2	C
380		05/09/24	U25977		CH	19.4	105.0	19.1	109.8	130.8	4	104.6	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
373	Sewer Main: Line A STA 33+50								18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
374	Sewer Main: Line A STA 34+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
375	Sewer Main: Line A STA 35+50								17th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
376	Sewer Main: Line A STA 36+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
377	Sewer Main: Line A STA 37+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
378	Sewer Main: Line A STA 38+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
379	Sewer Main: Line A STA 39+50								16th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
380	Sewer Main: Line A STA 20+50								18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
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

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
381		05/09/24	U25977		CH	19.4	105.0	20.5	108.5	130.7	4	103.3	98	-2 / 2	C
382		05/09/24	U25977		CH	19.4	105.0	20.9	109.0	131.8	4	103.8	98	-2 / 2	C
383		05/09/24	U25977		CH	19.4	105.0	21.1	108.9	131.9	4	103.7	98	-2 / 2	C
384		05/09/24	U25977		CH	19.4	105.0	19.6	108.0	129.2	4	102.9	98	-2 / 2	C
385		05/09/24	U25977		CH	19.4	105.0	18.8	107.9	128.2	4	102.8	98	-2 / 2	C
386		05/09/24	U25977		CH	19.4	105.0	19.0	109.5	130.3	4	104.3	98	-2 / 2	C
387		05/09/24	U25977		CH	19.4	105.0	20.4	108.7	130.9	4	103.5	98	-2 / 2	C
388		05/09/24	U25977		CH	19.4	105.0	21.0	109.5	132.5	4	104.3	98	-2 / 2	C
Test Information															
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician		
381	Sewer Main: Line A STA 21+50							18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik		
382	Sewer Main: Line A STA 22+50							18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik		
383	Sewer Main: Line A STA 23+50							18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik		
384	Sewer Main: Line A STA 24+50							18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik		
385	Sewer Main: Line A STA 25+50							18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik		
386	Sewer Main: Line A STA 26+50							18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik		
387	Sewer Main: Line A STA 27+50							18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik		
388	Sewer Main: Line A STA 28+50							18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik		
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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Compaction Evaluation

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Client:

MEH Holding Company LTD
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San Antonio, TX 78233

Project:

S232173
Gates Tract Off-Site Sewer
29.381265682887246, -98.32008373231879
San Antonio, 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
389		05/09/24	U25977		CH	19.4	105.0	18.0	110.0	129.8	4	104.8	98	-2 / 2	C
390		05/09/24	U25977		CH	19.4	105.0	21.2	107.5	130.3	4	102.4	98	-2 / 2	C
391		05/09/24	U25977		CH	19.4	105.0	21.1	107.6	130.3	4	102.5	98	-2 / 2	C
392		05/09/24	U25977		CH	19.4	105.0	20.7	107.8	130.1	4	102.7	98	-2 / 2	C
393		05/10/24	U25977		CH	19.4	105.0	15.6	100.7	116.4	4	95.9	98	-2 / 2	NC
394		05/10/24	U25977		CH	19.4	105.0	12.5	101.7	114.4	4	96.9	98	-2 / 2	NC
395		05/10/24	U25977		CH	19.4	105.0	21.0	105.2	127.3	4	100.2	98	-2 / 2	C
396		05/10/24	U25977		CH	19.4	105.0	20.2	108.2	130.1	4	103.0	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
389	Sewer Main: Line A STA 29+50								18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
390	Sewer Main: Line A STA 30+50								18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
391	Sewer Main: Line A STA 31+50								18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
392	Sewer Main: Line A STA 32+50								18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
393	Sewer Main: Line A STA 25+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
394	Sewer Main: Line A STA 26+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
395	Sewer Main: Line A STA 25+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
396	Sewer Main: Line A STA 26+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
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.									
NC: Non-Compliant															

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San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 10/14/2024
Test Method: ASTM D6938, Tex 115E

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

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
397		05/10/24	U25977		CH	19.4	105.0	20.4	108.2	130.3	4	103.0	98	-2 / 2	C
398		05/10/24	U25977		CH	19.4	105.0	20.4	109.4	131.7	4	104.2	98	-2 / 2	C
399		05/10/24	U25977		CH	19.4	105.0	19.2	110.2	131.4	4	105.0	98	-2 / 2	C
400		05/10/24	U25977		CH	19.4	105.0	20.9	109.6	132.5	4	104.4	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
397	Sewer Main: Line A STA 27+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
398	Sewer Main: Line A STA 28+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
399	Sewer Main: Line A STA 29+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
400	Sewer Main: Line A STA 30+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
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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29.381265682887246, -98.32008373231879
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Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
401		05/10/24	U25977		CH	19.4	105.0	18.1	108.5	128.1	4	103.3	98	-2 / 2	C
402		05/10/24	U25977		CH	19.4	105.0	19.3	109.1	130.2	4	103.9	98	-2 / 2	C
403		05/10/24	U25977		CH	19.4	105.0	20.0	107.8	129.4	4	102.7	98	-2 / 2	C
404		05/10/24	U25977		CH	19.4	105.0	21.0	107.5	130.1	4	102.4	98	-2 / 2	C
405		05/10/24	U25977		CH	19.4	105.0	21.2	107.0	129.7	4	101.9	98	-2 / 2	C
406		05/15/24	U25977		CH	19.4	105.0	19.4	103.9	124.1	6	99.0	98	-2 / 2	C
407		05/15/24	U25977		CH	19.4	105.0	18.8	103.0	122.4	6	98.1	98	-2 / 2	C
408		05/15/24	U25977		CH	19.4	105.0	19.9	103.4	124.0	6	98.5	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
401	Sewer Main: Line A STA 31+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
402	Sewer Main: Line A STA 32+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
403	Sewer Main: Line A STA 33+50								19th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
404	Sewer Main: Line A STA 34+50								18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
405	Sewer Main: Line A STA 35+50								18th Lift		Troxler / 3430 / 30784 / 06/07/2023			Davenport, Erik	
406	Sewer Main: Line A STA 25+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
407	Sewer Main: Line A STA 26+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
408	Sewer Main: Line A STA 27+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
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 Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (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
409		05/15/24	U25977		CH	19.4	105.0	19.9	106.1	127.2	6	101.0	98	-2 / 2	C
410		05/15/24	U25977		CH	19.4	105.0	18.8	103.6	123.1	6	98.7	98	-2 / 2	C
411		05/15/24	U25977		CH	19.4	105.0	18.4	103.6	122.7	6	98.7	98	-2 / 2	C
412		05/15/24	U25977		CH	19.4	105.0	17.8	104.4	123.0	6	99.4	98	-2 / 2	C
413		05/15/24	U25977		CH	19.4	105.0	18.0	103.8	122.5	6	98.9	98	-2 / 2	C
414		05/15/24	U25977		CH	19.4	105.0	18.0	107.8	127.2	6	102.7	98	-2 / 2	C
415		05/15/24	U25977		CH	19.4	105.0	18.9	107.8	128.2	6	102.7	98	-2 / 2	C
416		05/15/24	U25977		CH	19.4	105.0	19.3	109.3	130.4	6	104.1	98	-2 / 2	C
Test Information															
Test #	Test Location							Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
409	Sewer Main: Line A STA 28+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
410	Sewer Main: Line A STA 29+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
411	Sewer Main: Line A STA 30+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
412	Sewer Main: Line A STA 31+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
413	Sewer Main: Line A STA 32+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
414	Sewer Main: Line A STA 33+50								20th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
415	Sewer Main: Line A STA 34+50								19th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
416	Sewer Main: Line A STA 35+50								19th Lift		Troxler / 3430P / 76396 / 04/30/2024			Olson, James	
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.