Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-23-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S1	**Lift:**	
Client Sample ID:	Lab #242	**Contractor:**	
Date Sampled:	04/09/22		
Sampled By:	Benjamin Urbina		
Specification:	Backfill/General Fill		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Dk. Brown Fat Clay (CH), (Subgrade / Backfill / General Fill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Fat Clay (CH), Dk. Brown		
General Location:	Trenching Backfill		
Location:	On Site		

Other Test Results

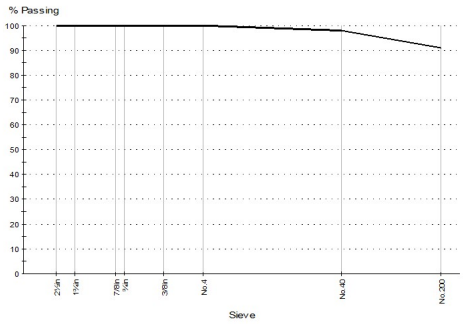
Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	91.0	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination		Dry mass directly determined	
Tested By		Ignacio Vasquez	
Method A Soaking Time (min)		180	
Date Tested		4/15/2022	
Group Symbol	ASTM D 2487	CH	
Group Name		Fat clay	
Tested By		David Rosales	
Date Tested		4/18/2022	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		1.6	
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Oven	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		65	
Plastic Limit		18	
Plasticity Index		47	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		4/15/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 4/18/2022
Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.40 (425µm)	98	
No.200 (75µm)	91	
Finer No.200 (75µm)	91	

Chart



Comments

N/A

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CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S1	**Lift:**	
Client Sample ID:	Lab #242	**Contractor:**	
Date Sampled:	04/09/22		
Sampled By:	Benjamin Urbina		
Specification:	Backfill/General Fill		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Dk. Brown Fat Clay (CH), (Subgrade / Backfill / General Fill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Fat Clay (CH), Dk. Brown		
General Location:	Trenching Backfill		
Location:	On Site		

Other Test Results

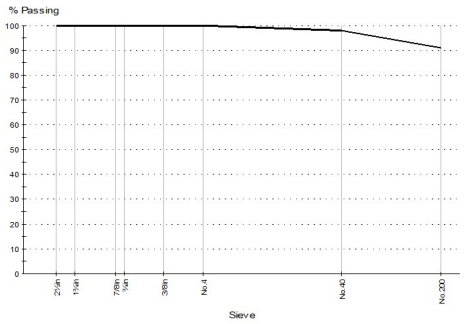
Description	Method	Result	Limits
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	93.7	
Corrected Maximum Dry Unit Weight (lbf/ft³)		93.7	
Optimum Water Content (%)		24.8	
Corrected Optimum Water Content (%)		24.8	
Method		A	
Preparation Method		Moist	
Rammer Type		4" Standard	
Specific Gravity (Fines)	Estimated	2.55	
Tested By	ASTM D 698	Trevor Ahin	
Date Tested		4/15/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 4/18/2022
Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.40 (425µm)	98	
No.200 (75µm)	91	
Finer No.200 (75µm)	91	

Chart



Comments

N/A

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Three Burwood Lane
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Texas Firm Registration No. F-03307
Phone: (210) 342-9377
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Report No: MAT:03113615-23-S2
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S2	**Lift:**	
Client Sample ID:	Lab #243	**Contractor:**	
Date Sampled:	04/09/22		
Sampled By:	Benjamin Urbina		
Specification:	Backfill/General Fill		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Lt. Brown Sandy Lean Clay (CL), (Subgrade / Backfill / General fill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Sandy Lean Clay (CL), Lt. Brown		
General Location:	Trenching Backfill		
Location:	On Site		

Other Test Results

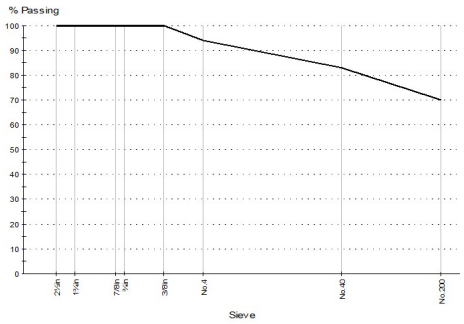
Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	69.6	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination		Dry mass directly determined	
Tested By		Ignacio Vasquez	
Method A Soaking Time (min)		180	
Date Tested		4/15/2022	
Group Symbol	ASTM D 2487	CL	
Group Name		Sandy lean clay	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		17.0	
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Mechanical	
Liquid Limit		41	
Plastic Limit		13	
Plasticity Index		28	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		4/15/2022	
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	108.9	
Corrected Maximum Dry Unit Weight (lbf/ft³)		108.9	
Optimum Water Content (%)		16.9	
Corrected Optimum Water Content (%)		16.9	
Method		A	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 4/18/2022
Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	94	
No.40 (425µm)	83	
No.200 (75µm)	70	
Finer No.200 (75µm)	70	

Chart



Comments

N/A

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Report No: MAT:03113615-23-S2
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S2	**Lift:**	
Client Sample ID:	Lab #243	**Contractor:**	
Date Sampled:	04/09/22		
Sampled By:	Benjamin Urbina		
Specification:	Backfill/General Fill		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Lt. Brown Sandy Lean Clay (CL), (Subgrade / Backfill / General fill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Sandy Lean Clay (CL), Lt. Brown		
General Location:	Trenching Backfill		
Location:	On Site		

Other Test Results

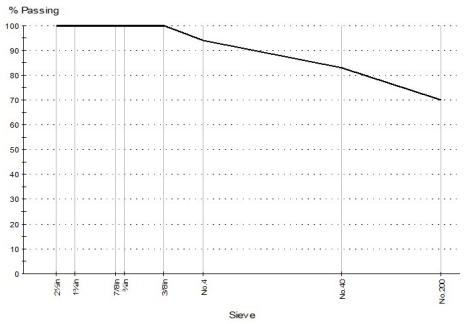
Description	Method	Result	Limits
Preparation Method		Moist	
Rammer Type		4" Standard	
Specific Gravity (Fines)	Estimated	2.65	
Tested By	ASTM D 698	Trevor Ahin	
Date Tested		4/15/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 4/18/2022
Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	94	
No.40 (425µm)	83	
No.200 (75µm)	70	
Finer No.200 (75µm)	70	

Chart



Comments

N/A

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Three Burwood Lane
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Texas Firm Registration No. F-03307
Phone: (210) 342-9377
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Report No: MAT:03113615-23-S3
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S3	**Lift:**	
Client Sample ID:	Lab #244	**Contractor:**	
Date Sampled:	04/09/22		
Sampled By:	Benjamin Urbina		
Specification:	Backfill/General Fill		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Lean Clay w/Sand (CL), Brown		
General Location:	Trenching Backfill		
Location:	On Site		

Other Test Results

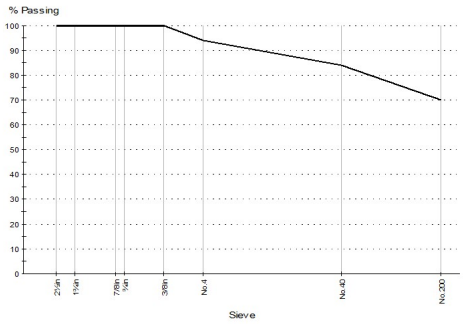
Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	70.5	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination		Dry mass directly determined	
Tested By		Ignacio Vasquez	
Method A Soaking Time (min)		180	
Date Tested		4/18/2022	
Group Symbol	ASTM D 2487	CL	
Group Name		Lean clay with sand	
Tested By		David Rosales	
Date Tested		4/18/2022	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		15.9	
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		38	
Plastic Limit		12	
Plasticity Index		26	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		4/18/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested:
Tested By:

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	94	
No.40 (425µm)	84	
No.200 (75µm)	70	
Finer No.200 (75µm)	70	

Chart



Comments

N/A

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Report No: MAT:03113615-23-S3
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S3	**Lift:**	
Client Sample ID:	Lab #244	**Contractor:**	
Date Sampled:	04/09/22		
Sampled By:	Benjamin Urbina		
Specification:	Backfill/General Fill		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Lean Clay w/Sand (CL), Brown		
General Location:	Trenching Backfill		
Location:	On Site		

Other Test Results

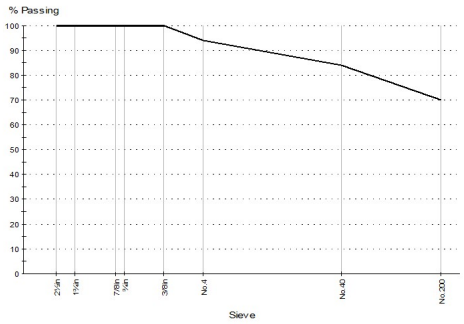
Description	Method	Result	Limits
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	116.9	
Corrected Maximum Dry Unit Weight (lbf/ft³)		116.9	
Optimum Water Content (%)		14.6	
Corrected Optimum Water Content (%)		14.6	
Method		A	
Preparation Method		Dry	
Rammer Type		4" Standard	
Specific Gravity (Fines)	Estimated	2.70	
Tested By	ASTM D 698	Trevor Ahin	
Date Tested		4/18/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested:
Tested By:

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	94	
No.40 (425µm)	84	
No.200 (75µm)	70	
Finer No.200 (75µm)	70	

Chart



Comments

N/A

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Report No: MAT:03113615-23-S4
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S4	**Lift:**	
Client Sample ID:	Lab #245	**Contractor:**	
Date Sampled:	04/09/22		
Sampled By:	Benjamin Urbina		
Specification:	Backfill/General Fill		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Sandy Fat Clay (CH), (Subgrade / Backfill / General Fill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Sandy Fat Clay (CH), Brown		
General Location:	Trenching Backfill		
Location:	On Site		

Other Test Results

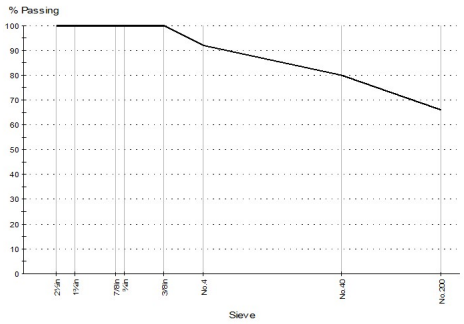
Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	66.4	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination		Dry mass directly determined	
Tested By		Ignacio Vasquez	
Method A Soaking Time (min)		180	
Date Tested		4/18/2022	
Group Symbol	ASTM D 2487	CH	
Group Name		Sandy fat clay	
Tested By		David Rosales	
Date Tested		4/18/2022	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		19.9	
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		54	
Plastic Limit		12	
Plasticity Index		42	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		4/18/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 4/18/2022
Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	92	
No.40 (425µm)	80	
No.200 (75µm)	66	
Finer No.200 (75µm)	66	

Chart



Comments

N/A

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Report No: MAT:03113615-23-S4
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S4	**Lift:**	
Client Sample ID:	Lab #245	**Contractor:**	
Date Sampled:	04/09/22		
Sampled By:	Benjamin Urbina		
Specification:	Backfill/General Fill		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Sandy Fat Clay (CH), (Subgrade / Backfill / General Fill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Sandy Fat Clay (CH), Brown		
General Location:	Trenching Backfill		
Location:	On Site		

Other Test Results

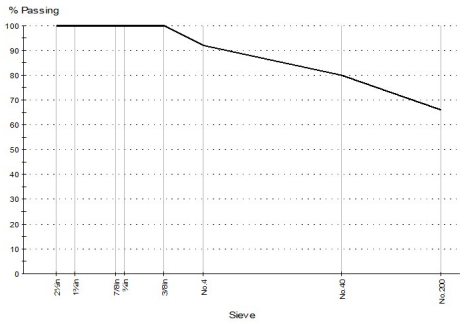
Description	Method	Result	Limits
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	100.5	
Corrected Maximum Dry Unit Weight (lbf/ft³)		100.5	
Optimum Water Content (%)		20.3	
Corrected Optimum Water Content (%)		20.3	
Method		A	
Preparation Method		Moist	
Rammer Type		4" Standard	
Specific Gravity (Fines)	Estimated	2.55	
Tested By	ASTM D 698	Trevor Ahin	
Date Tested		4/18/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 4/18/2022
Tested By: Trevor Ahin

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	92	
No.40 (425µm)	80	
No.200 (75µm)	66	
Finer No.200 (75µm)	66	

Chart



Comments

N/A

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Three Burwood Lane
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Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-41-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 5/24/2022

Sample Details

Sample ID:	03113615-41-S1	**Lift:**	
Client Sample ID:		**Contractor:**	
Date Sampled:	05/13/22		
Sampled By:	Trevor Ahin		
Specification:	Backfill/General Fill		
Supplier:	On site		
Source:	On Site Stockpile		
Material:	Lt. Brown to Brown Clayey Gravel w/Sand (GC)(Backfill)		
Sampling Method:	Sampled Onsite		
Soil Description:	Lt. Brown to Brown Clayey Gravel w/Sand		
General Location:	Roadway - Utility Backfill		
Location:	On site materials		

Other Test Results

Description	Method	Result	Limits
Material Finer than 75µm (%)	ASTM D 1140	0.0	
Test Method			
Initial dry mass (g)		3633.0	
Dry mass determination		Dry mass directly determined	
Group Symbol	ASTM D 2487	GC	
Group Name		Clayey gravel with sand	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		46.4	
Method of Removal		Wet Sieve	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process			
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		32	
Plastic Limit		10	
Plasticity Index		22	
Liquid Limit Procedure		One-point (B)	
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	121.4	
Corrected Maximum Dry Unit Weight (lbf/ft³)		129.0	
Optimum Water Content (%)		10.3	
Corrected Optimum Water Content (%)		8.6	
Method		C	
Preparation Method		Moist	
Rammer Type		6" Standard	
Retained Sieve 3/4" (19mm) (%)		21	
Specific Gravity (Oversize)		2.70	
Specific Gravity (Fines)	EST.	2.60	

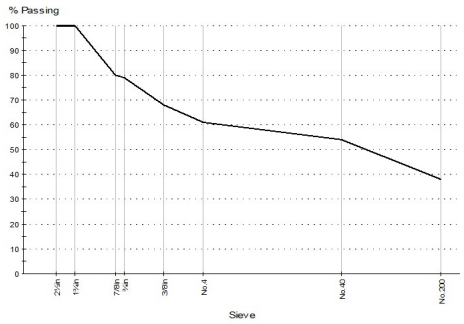
Particle Size Distribution

Method: ASTM C 136, ASTM C 117

Date Tested:
Tested By:

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	80	
¾in (19.0mm)	79	
3/8in (9.5mm)	68	
No.4 (4.75mm)	61	
No.40 (425µm)	54	
No.200 (75µm)	38	
Finer No.200 (75µm)	0.0	

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-84-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/22/2022

Sample Details

Sample ID:	03113615-84-S1	**Lift:**	
Client Sample ID:	Lab #565	**Contractor:**	
Date Sampled:	08/05/22		
Sampled By:	Jacob McRae		
Specification:	Grade 1-2; 2014 Specification		
Supplier:	Ace Aggregates		
Source:	On Site Stockpile		
Material:	Crushed Limestone (Roadway Base - ACE Aggregates)		
Sampling Method:	Sampled Onsite		
Soil Description:	Crushed Limestone		
General Location:	Roadway		
Location:	On Site		

Other Test Results

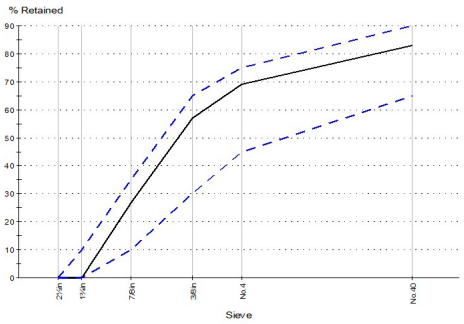
Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	16.9	
Test Method			
Initial dry mass (g)		4033.0	
Dry mass determination		Dry mass directly determined	
Tested By		Ignacio Vasquez	
Method A Soaking Time (min)		180	
Date Tested		8/15/2022	
Group Symbol	ASTM D 2487	GC-GM	
Group Name		Silty, clayey gravel	
Tested By		David Rosales	
Date Tested		8/15/2022	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		83.1	
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Oven	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		18	≤40
Plastic Limit		14	
Plasticity Index		4	≤10
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/15/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 8/12/2022
Tested By: Trevor Ahin

Sieve Size	% Retained	Limits
2½in (63.0mm)	0	0
1¾in (45.0mm)	0	0 to 10
7/8in (22.4mm)	27	10 to 35
3/8in (9.5mm)	57	30 to 65
No.4 (4.75mm)	69	45 to 75
No.40 (425µm)	83	65 to 90

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-84-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/22/2022

Sample Details

Sample ID:	03113615-84-S1	**Lift:**	
Client Sample ID:	Lab #565	**Contractor:**	
Date Sampled:	08/05/22		
Sampled By:	Jacob McRae		
Specification:	Grade 1-2; 2014 Specification		
Supplier:	Ace Aggregates		
Source:	On Site Stockpile		
Material:	Crushed Limestone (Roadway Base - ACE Aggregates)		
Sampling Method:	Sampled Onsite		
Soil Description:	Crushed Limestone		
General Location:	Roadway		
Location:	On Site		

Other Test Results

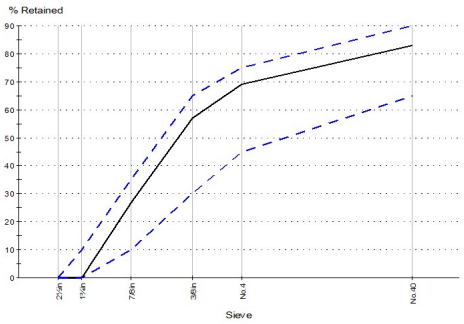
Description	Method	Result	Limits
Maximum Dry Density (lb/ft³)	Tex-113-E	133.8	
Optimum Water Content (%)		6.7	
Tested By		Trevor Ahin	
Date Tested		8/12/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 8/12/2022
Tested By: Trevor Ahin

Sieve Size	% Retained	Limits
2½in (63.0mm)	0	0
1¾in (45.0mm)	0	0 to 10
7/8in (22.4mm)	27	10 to 35
3/8in (9.5mm)	57	30 to 65
No.4 (4.75mm)	69	45 to 75
No.40 (425µm)	83	65 to 90

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-85-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/12/2022

Sample Details

Sample ID:	03113615-85-S1	**Lift:**	
Client Sample ID:	Lab #543	**Contractor:**	
Date Sampled:	08/01/22		
Sampled By:	Benjamin Urbina		
Specification:	Lime Treated Subgrade		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Clay Lime Treated Subgrade		
Sampling Method:	Sampled Onsite		
Soil Description:	Lime Treated Brown Clay		
General Location:	Sta:20+50		
Location:	On Site		

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		43	
Plastic Limit		36	
Plasticity Index		7	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/5/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		B	
pH - Distilled Water		12.5	≥12.4
pH - Calcium Chloride			
Date Tested		8/5/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	95.0	
Optimum Water Content (%)		23.1	
Tested By		Trevor Ahin	
Date Tested		8/5/2022	

Particle Size Distribution

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-88-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/15/2022

Sample Details

Sample ID:	03113615-88-S1	**Lift:**	
Client Sample ID:	Lab #549	**Contractor:**	
Date Sampled:	08/03/22		
Sampled By:	Benjamin Urbina		
Specification:	Lime Treated Subgrade		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Clay (Lime Treated Subgrade - Birch Crossing)		
Sampling Method:	Sampled Onsite		
Soil Description:	Brown Clay (Lime Treated Subgrade - Birch Crossing)		
General Location:	Birch Crossing		
Location:	On Site		

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		53	
Plastic Limit		35	
Plasticity Index		18	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/8/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		B	
pH - Distilled Water		12.6	≥12.4
pH - Calcium Chloride			
Date Tested		8/8/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	102.0	
Optimum Water Content (%)		13.9	
Tested By		Trevor Ahin	
Date Tested		8/8/2022	

Particle Size Distribution

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-88-S2
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/15/2022

Sample Details

Sample ID:	03113615-88-S2	**Lift:**	
Client Sample ID:	Lab #550	**Contractor:**	
Date Sampled:	08/03/22		
Sampled By:	Benjamin Urbina		
Specification:	Lime Treated Subgrade		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Clay (Lime Treated Subgrade - Birch Hallow)		
Sampling Method:	Sampled Onsite		
Soil Description:	Lime Treated Brown Clay		
General Location:	Birch Hollow		
Location:	On Site		

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		61	
Plastic Limit		36	
Plasticity Index		25	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/8/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		B	
pH - Distilled Water		12.5	≥12.4
pH - Calcium Chloride			
Date Tested		8/8/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	87.4	
Optimum Water Content (%)		25.1	
Tested By		Trevor Ahin	
Date Tested		8/8/2022	

Particle Size Distribution

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-88-S3
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/15/2022

Sample Details

Sample ID:	03113615-88-S3	**Lift:**	
Client Sample ID:	Lab #551	**Contractor:**	
Date Sampled:	08/03/22		
Sampled By:	Benjamin Urbina		
Specification:	Lime Treated Subgrade		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Clay (Lime Treated Subgrade - Birch View)		
Sampling Method:	Sampled Onsite		
Soil Description:	Lime Treated Brown Clay		
General Location:	Birch View		
Location:	On Site		

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		62	
Plastic Limit		37	
Plasticity Index		25	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/8/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		B	
pH - Distilled Water		12.5	≥12.4
pH - Calcium Chloride			
Date Tested		8/8/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	88.3	
Optimum Water Content (%)		24.3	
Tested By		Trevor Ahin	
Date Tested		8/8/2022	

Particle Size Distribution

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-89-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID:	03113615-89-S1	**Lift:**	
Client Sample ID:	Lab #555	**Contractor:**	
Date Sampled:	08/04/22		
Sampled By:	Richard Robles		
Specification:	Lime Treated Subgrade		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Clay (Lime Treated Subgrade)		
Sampling Method:	Sampled Onsite		
Soil Description:	Lime Treated Brown Clay		
General Location:	Fern Hollow Sta:2+50		
Location:	On Site		

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		56	
Plastic Limit		36	
Plasticity Index		20	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/10/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		B	
pH - Distilled Water		12.4	≥12.4
pH - Calcium Chloride			
Date Tested		8/10/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	93.2	
Optimum Water Content (%)		22.8	
Tested By		David Rosales	
Date Tested		8/10/2022	

Particle Size Distribution

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-89-S2
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID:	03113615-89-S2	**Lift:**	
Client Sample ID:	Lab #556	**Contractor:**	
Date Sampled:	08/04/22		
Sampled By:	Richard Robles		
Specification:	Lime Treated Subgrade		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Clay (Lime Treated Subgrade)		
Sampling Method:	Sampled Onsite		
Soil Description:	Lime Treated Brown Clay		
General Location:	Fern Crossing Sta:6+00		
Location:	On Site		

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		58	
Plastic Limit		40	
Plasticity Index		18	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/10/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		B	
pH - Distilled Water		12.5	≥12.4
pH - Calcium Chloride			
Date Tested		8/10/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	95.8	
Optimum Water Content (%)		19.7	
Tested By		David Rosales	
Date Tested		8/10/2022	

Particle Size Distribution

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-89-S3
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID:	03113615-89-S3	**Lift:**	
Client Sample ID:	Lab #557	**Contractor:**	
Date Sampled:	08/04/22		
Sampled By:	Richard Robles		
Specification:	Lime Treated Subgrade		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Clay (Lime Treated Subgrade)		
Sampling Method:	Sampled Onsite		
Soil Description:	Lime Treated Brown Clay		
General Location:	Birch Pass Sta:4+50		
Location:	On Site		

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		51	
Plastic Limit		31	
Plasticity Index		20	
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/10/2022	
Sieve Size	ASTM D 4972	10	
Method (A/B)		B	
pH - Distilled Water		12.4	≥12.4
pH - Calcium Chloride			
Date Tested		8/10/2022	
Maximum Dry Density (lb/ft³)	Tex-114-E	97.6	
Optimum Water Content (%)		20.3	
Tested By		David Rosales	
Date Tested		8/10/2022	

Particle Size Distribution

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-92-S1
Issue No: 2
This report replaces all previous issues of this report signed on 08/30/2022

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/31/2022

Sample Details

Sample ID:	03113615-92-S1	**Lift:**	
Client Sample ID:	Lab #610	**Contractor:**	
Date Sampled:	08/22/22		
Sampled By:	David Garza		
Specification:	Grade 1-2; 2014 Specification		
Supplier:	Martin Marietta Materials		
Source:	Rio Medina Pit		
Material:	Crushed Limestone (Roadway Base-MMM-Rio Medina)		
Sampling Method:	Sampled Onsite		
Soil Description:	Crushed Limestone		
General Location:	Hennersby Lane		
Location:	On Site		

Other Test Results

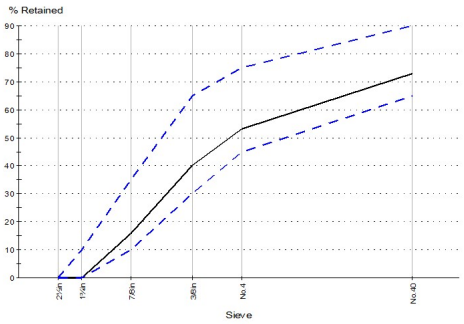
Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	26.8	
Test Method			
Initial dry mass (g)		3528.0	
Dry mass determination		Dry mass directly determined	
Tested By		Ignacio Vasquez	
Method A Soaking Time (min)		180	
Date Tested		8/26/2022	
Group Symbol	ASTM D 2487		
Group Name			
Tested By		David Rosales	
Date Tested		8/30/2022	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		73.2	
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Oven	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		23	≤40
Plastic Limit		16	
Plasticity Index		7	≤10
Liquid Limit Procedure		One-point (B)	
Tested By		Ignacio Vasquez	
Date Tested		8/26/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 8/29/2022
Tested By: Trevor Ahin

Sieve Size	% Retained	Limits
2½in (63.0mm)	0	0
1¾in (45.0mm)	0	0 to 10
7/8in (22.4mm)	16	10 to 35
3/8in (9.5mm)	40	30 to 65
No.4 (4.75mm)	53	45 to 75
No.40 (425µm)	73	65 to 90

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-92-S1
Issue No: 2
This report replaces all previous issues of this report signed on 08/30/2022

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/31/2022

Sample Details

Sample ID:	03113615-92-S1	**Lift:**	
Client Sample ID:	Lab #610	**Contractor:**	
Date Sampled:	08/22/22		
Sampled By:	David Garza		
Specification:	Grade 1-2; 2014 Specification		
Supplier:	Martin Marietta Materials		
Source:	Rio Medina Pit		
Material:	Crushed Limestone (Roadway Base-MMM-Rio Medina)		
Sampling Method:	Sampled Onsite		
Soil Description:	Crushed Limestone		
General Location:	Hennersby Lane		
Location:	On Site		

Other Test Results

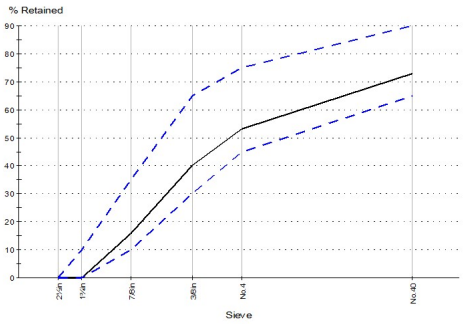
Description	Method	Result	Limits
Maximum Dry Density (lb/ft³)	Tex-113-E	135.0	
Optimum Water Content (%)		6.8	
Coefficient of Determination		0.9926	
Tested By		Trevor Ahin	
Date Tested		8/29/2022	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 8/29/2022
Tested By: Trevor Ahin

Sieve Size	% Retained	Limits
2½in (63.0mm)	0	0
1¾in (45.0mm)	0	0 to 10
7/8in (22.4mm)	16	10 to 35
3/8in (9.5mm)	40	30 to 65
No.4 (4.75mm)	53	45 to 75
No.40 (425µm)	73	65 to 90

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-137-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/2/2023

Sample Details

Sample ID:	03113615-137-S1 **Lift:**
Client Sample ID:	Lab #112 **Contractor:**
Date Sampled:	02/22/23
Sampled By:	David Garza
Specification:	Subgrade
Supplier:	In-situ material
Source:	In-situ material
Material:	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)
Sampling Method:	Sampled Onsite
Soil Description:	Brown Lean Clay w/Sand
General Location:	Roadway
Location:	On site

Other Test Results

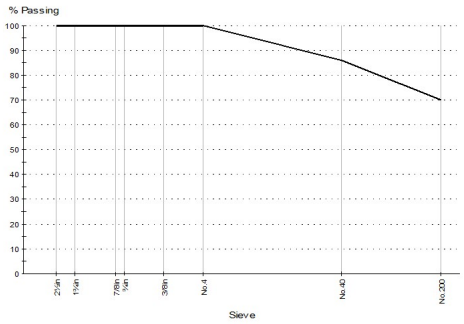
Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	70.2	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination		Dry mass directly determined	
Tested By		David Rosales	
Method A Soaking Time (min)		180	
Date Tested		3/1/2023	
Group Symbol	ASTM D 2487	CL	
Group Name		Lean clay with sand	
Tested By		David Rosales	
Date Tested		3/2/2023	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		14.1	
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		43	
Plastic Limit		15	
Plasticity Index		28	
Liquid Limit Procedure		One-point (B)	
Tested By		David Rosales	
Date Tested		3/1/2023	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 3/1/2023
Tested By: David Rosales

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.40 (425µm)	86	
No.200 (75µm)	70	

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-137-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/2/2023

Sample Details

Sample ID:	03113615-137-S1 **Lift:**
Client Sample ID:	Lab #112 **Contractor:**
Date Sampled:	02/22/23
Sampled By:	David Garza
Specification:	Subgrade
Supplier:	In-situ material
Source:	In-situ material
Material:	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)
Sampling Method:	Sampled Onsite
Soil Description:	Brown Lean Clay w/Sand
General Location:	Roadway
Location:	On site

Other Test Results

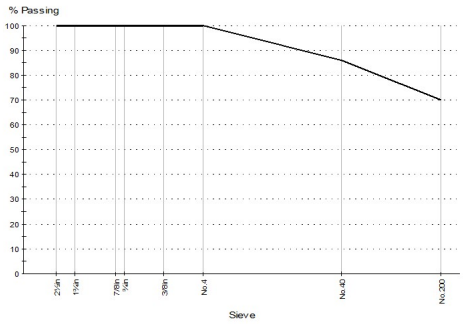
Description	Method	Result	Limits
Maximum Dry Density (lb/ft³)	Tex-114-E	103.9	
Optimum Water Content (%)		18.4	
Tested By		David Rosales	
Date Tested		3/1/2023	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 3/1/2023
Tested By: David Rosales

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.40 (425µm)	86	
No.200 (75µm)	70	

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-137-S2
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/2/2023

Sample Details

Sample ID:	03113615-137-S2 **Lift:**
Client Sample ID:	Lab #113 **Contractor:**
Date Sampled:	02/22/23
Sampled By:	David Garza
Specification:	Subgrade
Supplier:	In-situ material
Source:	In-situ material
Material:	Brown Lean Clay w/Sand (CL), (Subgarde / Backfill / General Fill)
Sampling Method:	Sampled Onsite
Soil Description:	Brown Lean Clay w/Sand
General Location:	Roadway
Location:	On site

Other Test Results

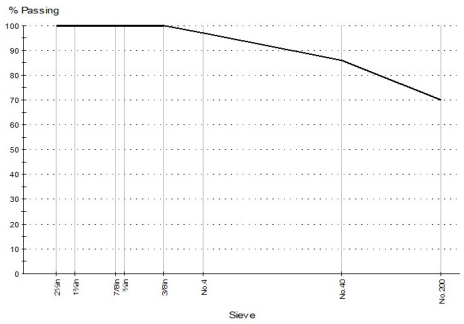
Description	Method	Result	Limits
Material Finer than No. 200 (%)	ASTM D 1140	69.7	
Test Method			
Initial dry mass (g)		1000.0	
Dry mass determination		Dry mass directly determined	
Tested By		David Rosales	
Method A Soaking Time (min)		180	
Date Tested		3/1/2023	
Group Symbol	ASTM D 2487	CL	
Group Name		Sandy lean clay	
Tested By		David Rosales	
Date Tested		3/2/2023	
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)		14.3	
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Air	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		42	
Plastic Limit		13	
Plasticity Index		29	
Liquid Limit Procedure		One-point (B)	
Tested By		David Rosales	
Date Tested		3/1/2023	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 3/1/2023
Tested By: David Rosales

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	97	
No.40 (425µm)	86	
No.200 (75µm)	70	

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-137-S2
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/2/2023

Sample Details

Sample ID:	03113615-137-S2 **Lift:**
Client Sample ID:	Lab #113 **Contractor:**
Date Sampled:	02/22/23
Sampled By:	David Garza
Specification:	Subgrade
Supplier:	In-situ material
Source:	In-situ material
Material:	Brown Lean Clay w/Sand (CL), (Subgarde / Backfill / General Fill)
Sampling Method:	Sampled Onsite
Soil Description:	Brown Lean Clay w/Sand
General Location:	Roadway
Location:	On site

Other Test Results

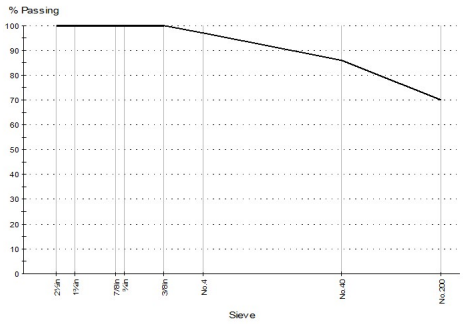
Description	Method	Result	Limits
Maximum Dry Density (lb/ft³)	Tex-114-E	103.3	
Optimum Water Content (%)		21.5	
Tested By		David Rosales	
Date Tested		3/1/2023	

Particle Size Distribution

Method: ASTM C 136, ASTM C 117
Drying By: Oven
Date Tested: 3/1/2023
Tested By: David Rosales

Sieve Size	% Passing	Limits
2½in (63.0mm)	100	
1¾in (45.0mm)	100	
7/8in (22.4mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	97	
No.40 (425µm)	86	
No.200 (75µm)	70	

Chart



Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-153-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/28/2023

Sample Details

Sample ID:	03113615-153-S1	**Lift:**	
Client Sample ID:	Lab #170	**Contractor:**	
Date Sampled:	03/22/23		
Sampled By:	Richard Robles		
Specification:	Subgrade		
Supplier:	In-situ material		
Source:	In-situ material		
Material:	Brown Clay (Lime Treated Subgrade)		
Sampling Method:	Sampled Onsite		
Soil Description:	Brown Clay Lime Stabilized		
General Location:	Masterson Rd.		
Location:	On site		

Other Test Results

Description	Method	Result	Limits
Approximate maximum grain size	ASTM D 4318		
Material retained on 425µm (No. 40) (%)			
Method of Removal		Wet Sieving	
Grooving Tool Type		Plastic	
Specimen preparation method		Wet	
Drying Method		Oven	
Special selection process		ASTM C702	
Rolling Method for PL		Hand	
As Received Water Content (%)			
Liquid Limit Device Type		Manual	
Liquid Limit		32	
Plastic Limit		18	
Plasticity Index		14	
Liquid Limit Procedure		One-point (B)	
Tested By		David Rosales	
Date Tested		3/21/2023	
Sieve Size	ASTM D 4972	10	
Method (A/B)		B	
pH - Distilled Water		12.4	
pH - Calcium Chloride			
Date Tested		3/21/2023	

Particle Size Distribution

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: MAT:03113615-153-S1
Issue No: 1

Material Test Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/28/2023

Sample Details

Sample ID:	03113615-153-S1 **Lift:**
Client Sample ID:	Lab #170 **Contractor:**
Date Sampled:	03/22/23
Sampled By:	Richard Robles
Specification:	Subgrade
Supplier:	In-situ material
Source:	In-situ material
Material:	Brown Clay (Lime Treated Subgrade)
Sampling Method:	Sampled Onsite
Soil Description:	Brown Clay Lime Stabilized
General Location:	Masterson Rd.
Location:	On site

Other Test Results

Description	Method	Result	Limits
Maximum Dry Unit Weight (lbf/ft³)	ASTM D 698	96.8	
Corrected Maximum Dry Unit Weight (lbf/ft³)		96.8	
Optimum Water Content (%)		23.5	
Corrected Optimum Water Content (%)		23.5	
Method		A	
Preparation Method		Moist	
Rammer Type		4" Standard	
Specific Gravity (Fines)	Estimated ASTM D 698	2.60	
Tested By		David Rosales	
Date Tested		3/21/2023	

Particle Size Distribution

Limits

Chart

Comments

N/A

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-23-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

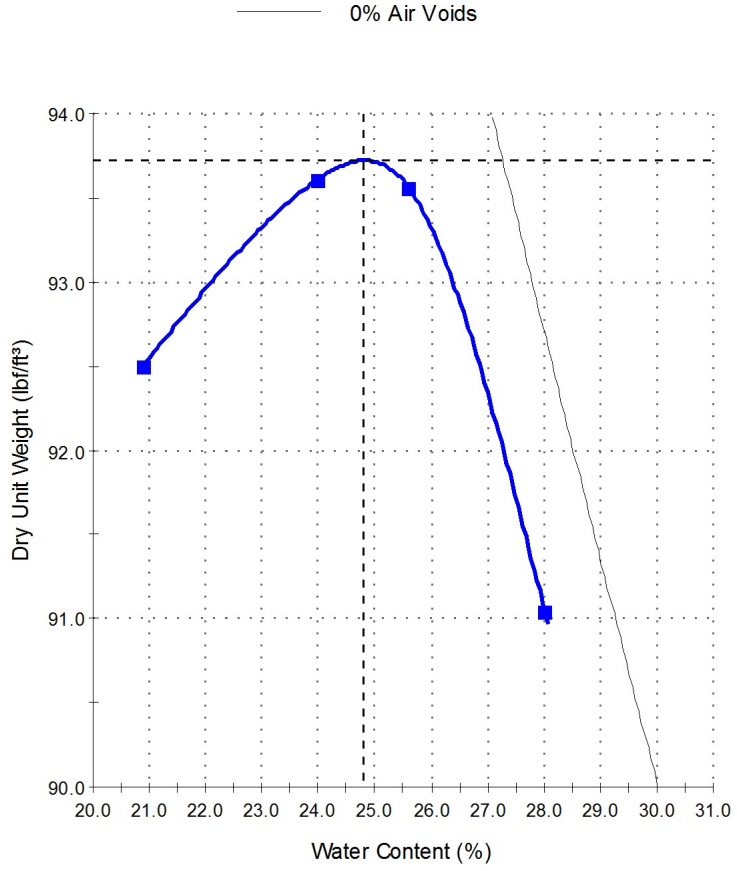
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S1	**Client Sample ID:**	Lab #242
Date Sampled:	4/9/2022	**Date Received:**	4/19/2022
Sampled By:	Benjamin Urbina	**Specification:**	Backfill/General Fill
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Dk. Brown Fat Clay (CH), (Subgrade / Backfill / General Fill)	**Sampling Method:**	Sampled Onsite
General Location:	Trenching Backfill	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	4/15/2022

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D 698

Maximum Dry Unit Weight (lbf/ft³):	**93.7**
Optimum Water Content (%):	**24.8**
Method:	A
Preparation Method:	Moist
Rammer Type:	4" Standard
Specific Gravity (Fines):	2.55
Specific Gravity Method:	Estimated
Tested By:	Trevor Ahin
Date Tested:	4/15/2022

ASTM D 4318

Liquid Limit (%):	65
Plastic Limit (%):	18
Plasticity Index (%):	47
Tested By:	Ignacio Vasquez
Date Tested:	4/15/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-23-S2
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

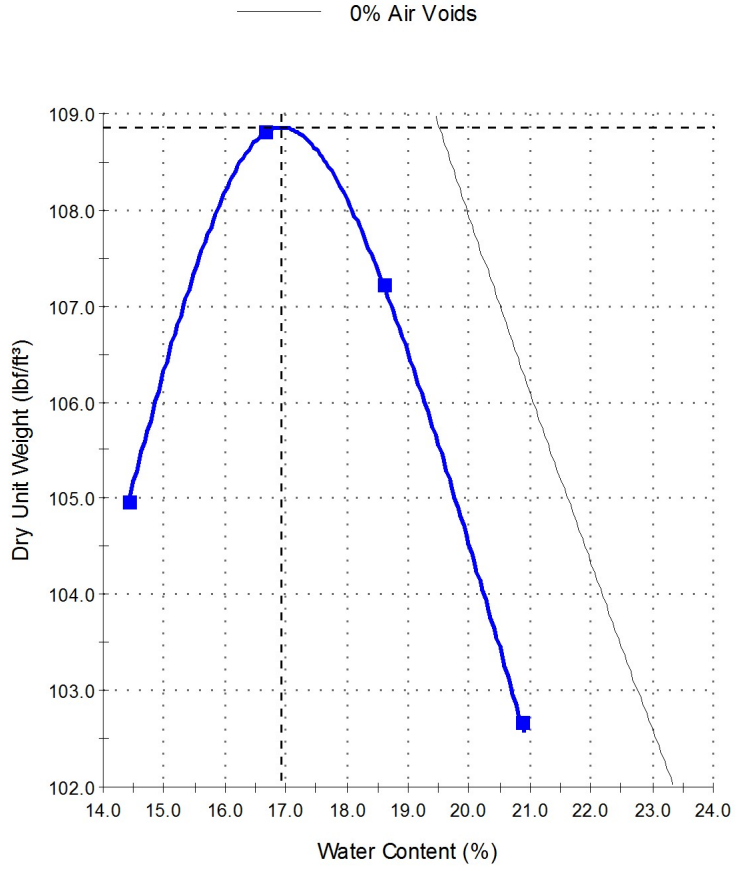
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S2	**Client Sample ID:**	Lab #243
Date Sampled:	4/9/2022	**Date Received:**	4/19/2022
Sampled By:	Benjamin Urbina	**Specification:**	Backfill/General Fill
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Lt. Brown Sandy Lean Clay (CL), (Subgrade / Backfill / General fill)	**Sampling Method:**	Sampled Onsite
General Location:	Trenching Backfill	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	4/15/2022

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D 698

Maximum Dry Unit Weight (lbf/ft³):	**108.9**
Optimum Water Content (%):	**16.9**
Method:	A
Preparation Method:	Moist
Rammer Type:	4" Standard
Specific Gravity (Fines):	2.65
Specific Gravity Method:	Estimated
Tested By:	Trevor Ahin
Date Tested:	4/15/2022

ASTM D 4318

Liquid Limit (%):	41
Plastic Limit (%):	13
Plasticity Index (%):	28
Tested By:	Ignacio Vasquez
Date Tested:	4/15/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-23-S3
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

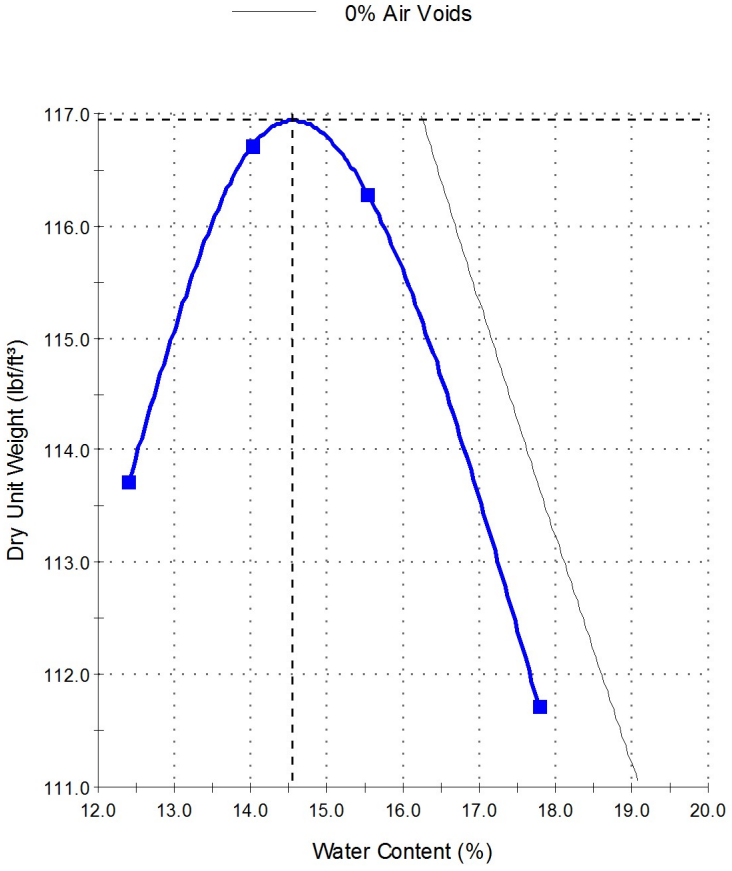
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S3	**Client Sample ID:**	Lab #244
Date Sampled:	4/9/2022	**Date Received:**	4/19/2022
Sampled By:	Benjamin Urbina	**Specification:**	Backfill/General Fill
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	**Sampling Method:**	Sampled Onsite
General Location:	Trenching Backfill	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	4/18/2022

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D 698

Maximum Dry Unit Weight (lbf/ft³):	**116.9**
Optimum Water Content (%):	**14.6**
Method:	A
Preparation Method:	Dry
Rammer Type:	4" Standard
Specific Gravity (Fines):	2.70
Specific Gravity Method:	Estimated
Tested By:	Trevor Ahin
Date Tested:	4/18/2022

ASTM D 4318

Liquid Limit (%):	38
Plastic Limit (%):	12
Plasticity Index (%):	26
Tested By:	Ignacio Vasquez
Date Tested:	4/18/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-23-S4
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

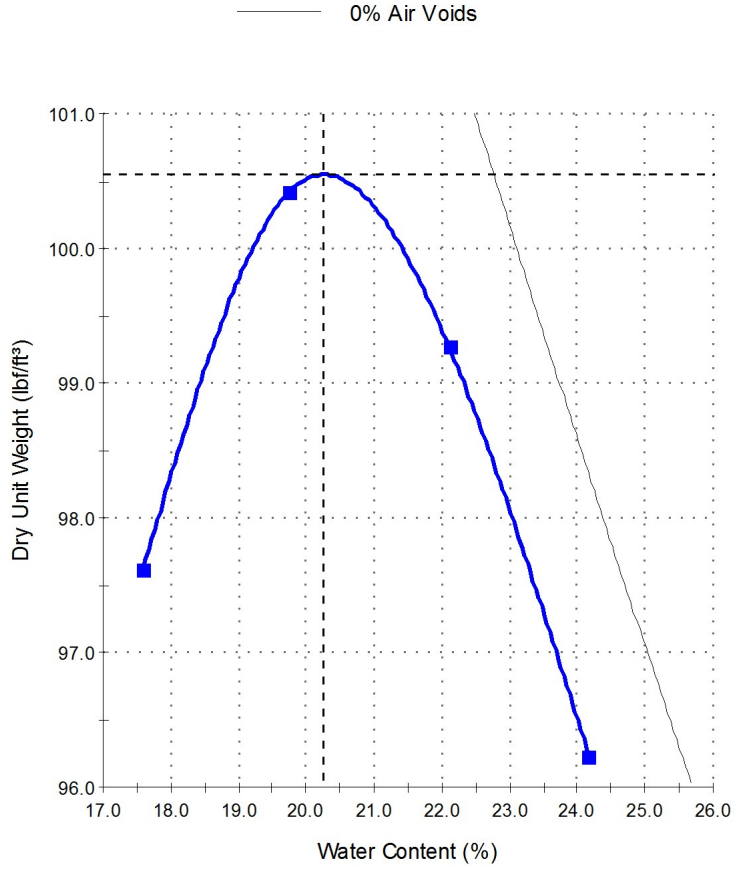
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 4/20/2022

Sample Details

Sample ID:	03113615-23-S4	**Client Sample ID:**	Lab #245
Date Sampled:	4/9/2022	**Date Received:**	4/19/2022
Sampled By:	Benjamin Urbina	**Specification:**	Backfill/General Fill
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Sandy Fat Clay (CH), (Subgrade / Backfill / General Fill)	**Sampling Method:**	Sampled Onsite
General Location:	Trenching Backfill	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	4/18/2022

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D 698

Maximum Dry Unit Weight (lbf/ft³):	**100.5**
Optimum Water Content (%):	**20.3**
Method:	A
Preparation Method:	Moist
Rammer Type:	4" Standard
Specific Gravity (Fines):	2.55
Specific Gravity Method:	Estimated
Tested By:	Trevor Ahin
Date Tested:	4/18/2022

ASTM D 4318

Liquid Limit (%):	54
Plastic Limit (%):	12
Plasticity Index (%):	42
Tested By:	Ignacio Vasquez
Date Tested:	4/18/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-41-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

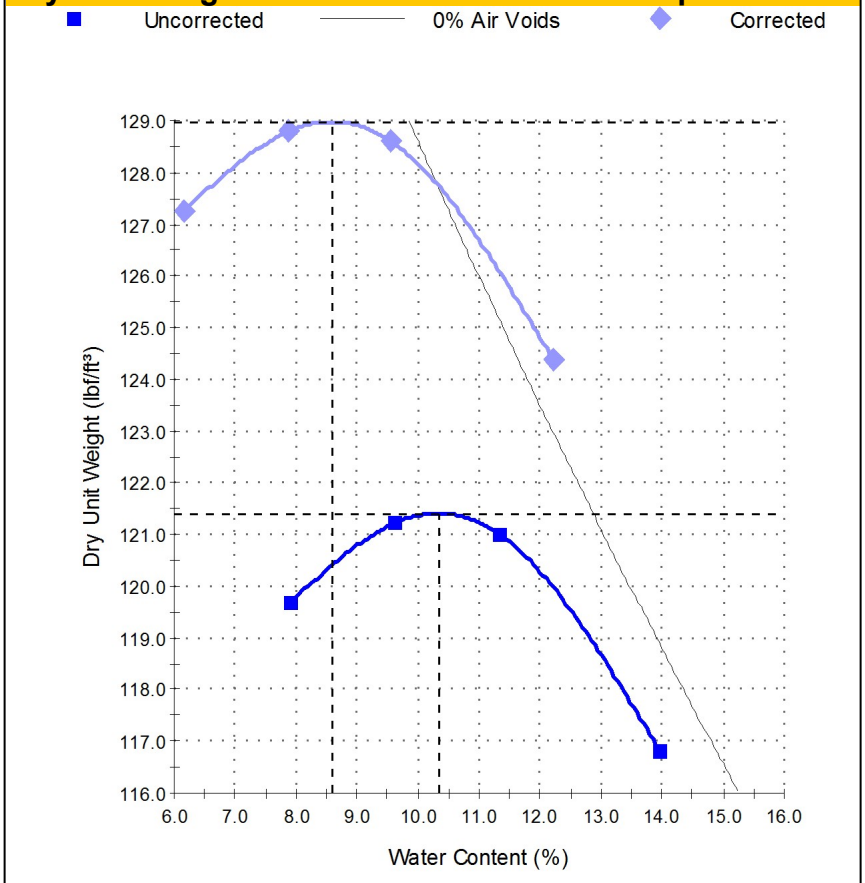
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 5/24/2022

Sample Details

Sample ID:	03113615-41-S1	**Date Sampled:**	5/13/2022
Sampled By:	Trevor Ahin	**Specification:**	Backfill/General Fill
Supplier:	On site	**Source:**	On Site Stockpile
Material:	Lt. Brown to Brown Clayey Gravel w/Sand (GC)(Backfill)	**Sampling Method:**	Sampled Onsite
General Location:	Roadway - Utility Backfill	**Location:**	On site materials

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D 698

Maximum Dry Unit Weight (lbf/ft³):	**121.4**
Optimum Water Content (%):	**10.3**
Method:	C
Preparation Method:	Moist
Rammer Type:	6" Standard
Specific Gravity (Fines):	2.60
Specific Gravity Method:	EST.
Retained Sieve 3/4" (19mm) (%):	21
Passing Sieve 3/4" (19mm) (%):	79
Tested By:	
Date Tested:	

ASTM D 4718

Corrected Maximum Dry Unit Weight (lbf/ft³):	**129.0**
Corrected Optimum Water Content (%):	**8.6**
Specific Gravity (Oversize):	2.70
Sieve Size (Oversize):	3/4
Oversize Particles (%):	21

ASTM D 4318

Liquid Limit (%):	32
Plastic Limit (%):	10
Plasticity Index (%):	22
Tested By:	
Date Tested:	

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-84-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

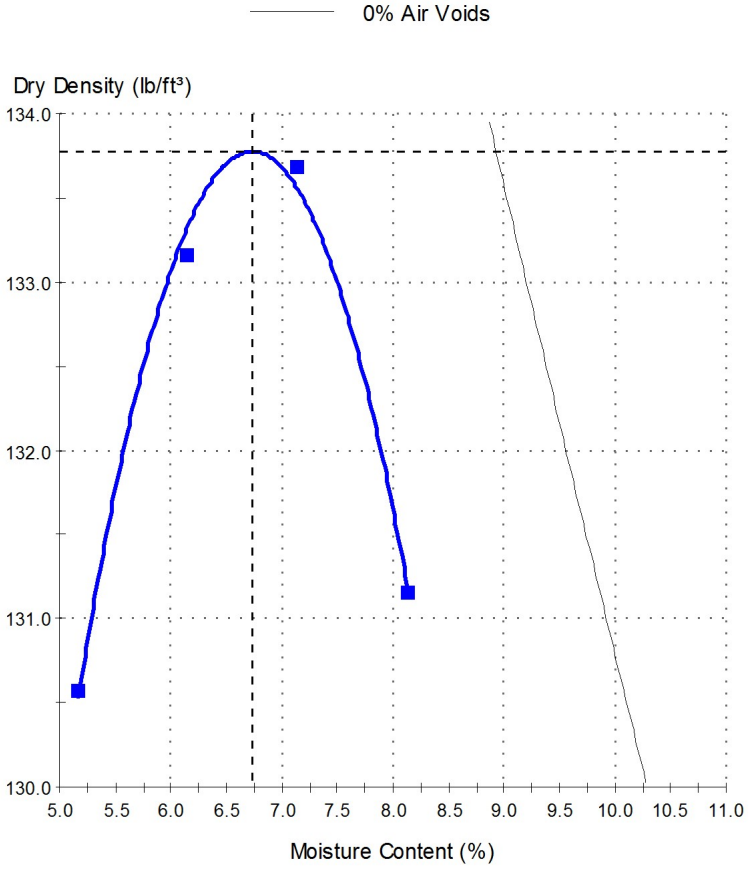
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/22/2022

Sample Details

Sample ID:	03113615-84-S1	**Client Sample ID:**	Lab #565
Date Sampled:	8/5/2022	**Date Received:**	8/5/2022
Sampled By:	Jacob McRae	**Specification:**	Grade 1-2; 2014 Specification
Supplier:	Ace Aggregates	**Source:**	On Site Stockpile
Material:	Crushed Limestone (Roadway Base - ACE Aggregates)	**Sampling Method:**	Sampled Onsite
General Location:	Roadway	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	8/12/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-113-E

Maximum Dry Density (lb/ft³):	133.8
Optimum Water Content (%):	6.7
Tested By:	Trevor Ahin
Date Tested:	8/12/2022

ASTM D 4318

Liquid Limit (%):	18
Plastic Limit (%):	14
Plasticity Index (%):	4
Tested By:	Ignacio Vasquez
Date Tested:	8/15/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-85-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

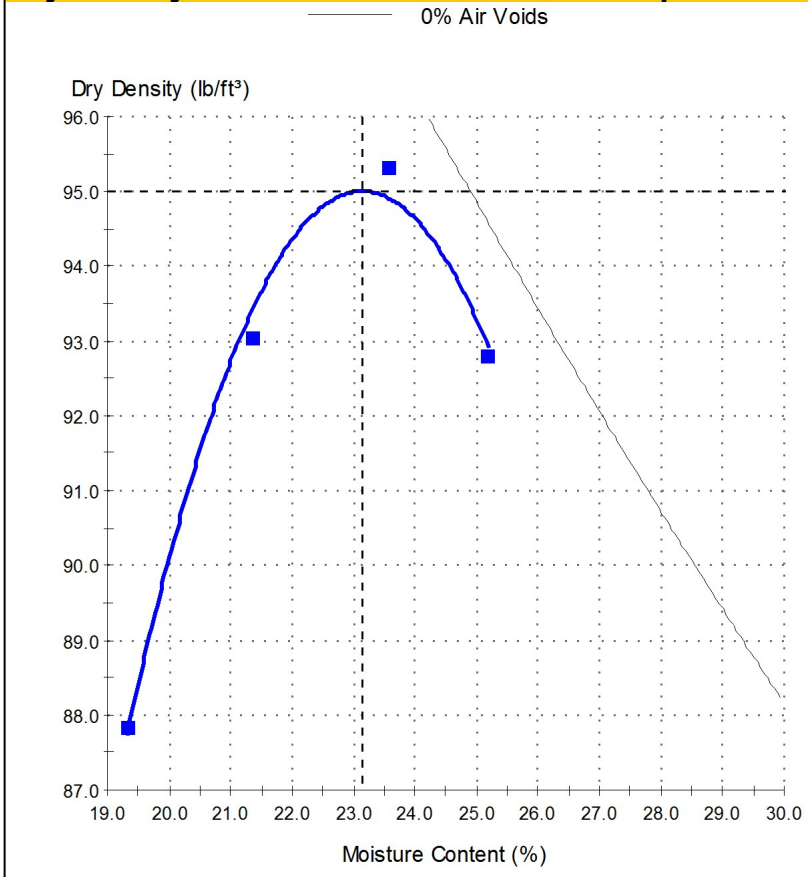
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/12/2022

Sample Details

Sample ID:	03113615-85-S1	**Client Sample ID:**	Lab #543
Date Sampled:	8/1/2022	**Date Received:**	8/1/2022
Sampled By:	Benjamin Urbina	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay Lime Treated Subgrade	**Sampling Method:**	Sampled Onsite
General Location:	Sta:20+50	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	8/5/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	95.0
Optimum Water Content (%):	23.1
Tested By:	Trevor Ahin
Date Tested:	8/5/2022

ASTM D 4318

Liquid Limit (%):	43
Plastic Limit (%):	36
Plasticity Index (%):	7
Tested By:	Ignacio Vasquez
Date Tested:	8/5/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-88-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

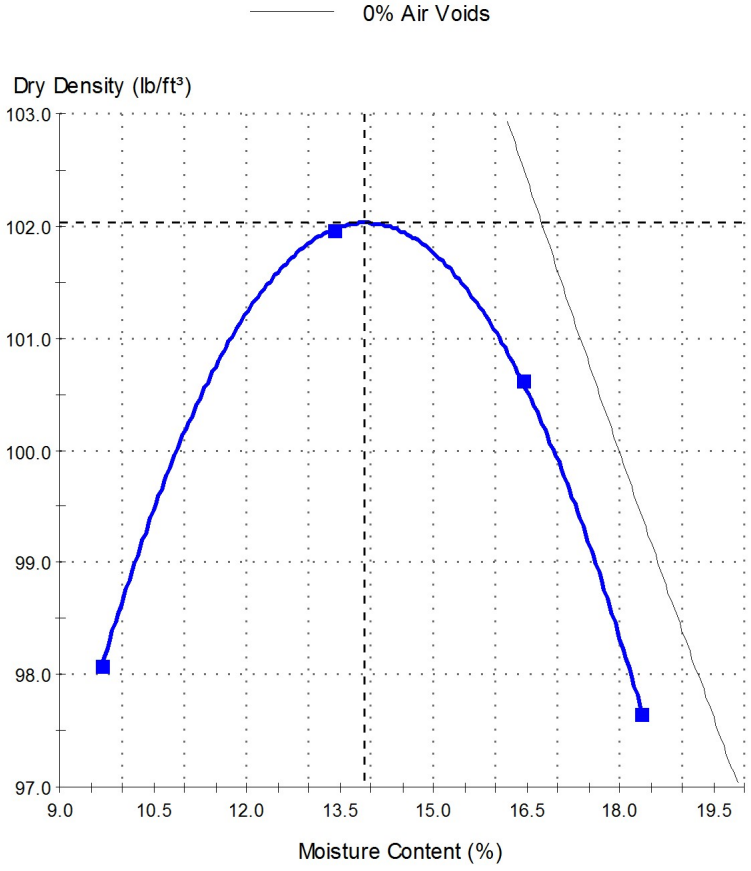
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/15/2022

Sample Details

Sample ID:	03113615-88-S1	**Client Sample ID:**	Lab #549
Date Sampled:	8/3/2022	**Date Received:**	8/3/2022
Sampled By:	Benjamin Urbina	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay (Lime Treated Subgrade - Birch Crossing)	**Sampling Method:**	Sampled Onsite
General Location:	Birch Crossing	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	8/8/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	102.0
Optimum Water Content (%):	13.9
Tested By:	Trevor Ahin
Date Tested:	8/8/2022

ASTM D 4318

Liquid Limit (%):	53
Plastic Limit (%):	35
Plasticity Index (%):	18
Tested By:	Ignacio Vasquez
Date Tested:	8/8/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-88-S2
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

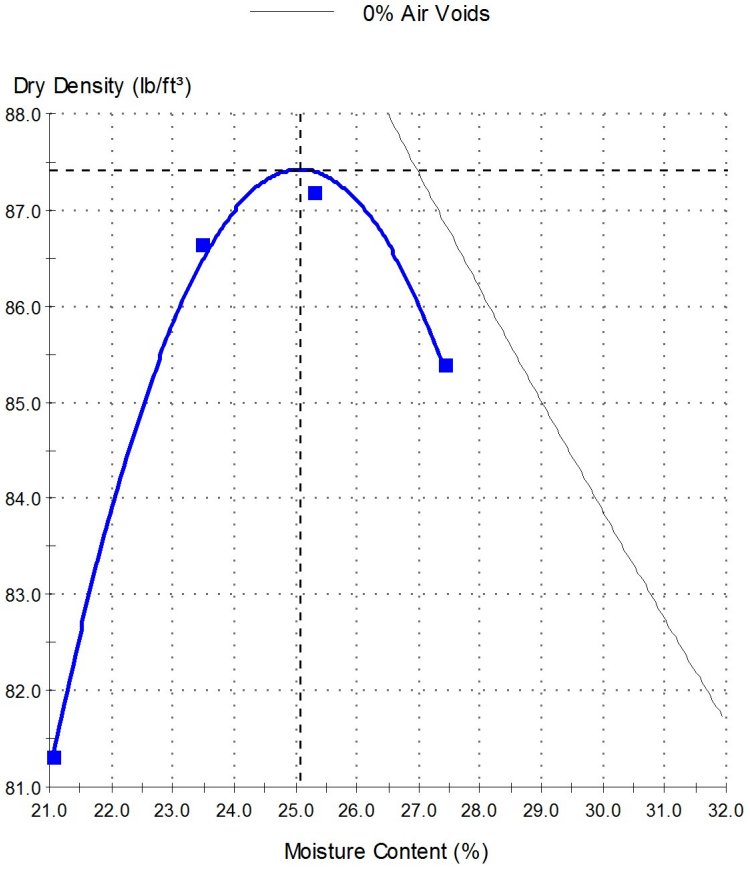
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/15/2022

Sample Details

Sample ID:	03113615-88-S2	**Client Sample ID:**	Lab #550
Date Sampled:	8/3/2022	**Date Received:**	8/3/2022
Sampled By:	Benjamin Urbina	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay (Lime Treated Subgrade - Birch Hallow)	**Sampling Method:**	Sampled Onsite
General Location:	Birch Hollow	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	8/8/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	87.4
Optimum Water Content (%):	25.1
Tested By:	Trevor Ahin
Date Tested:	8/8/2022

ASTM D 4318

Liquid Limit (%):	61
Plastic Limit (%):	36
Plasticity Index (%):	25
Tested By:	Ignacio Vasquez
Date Tested:	8/8/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-88-S3
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

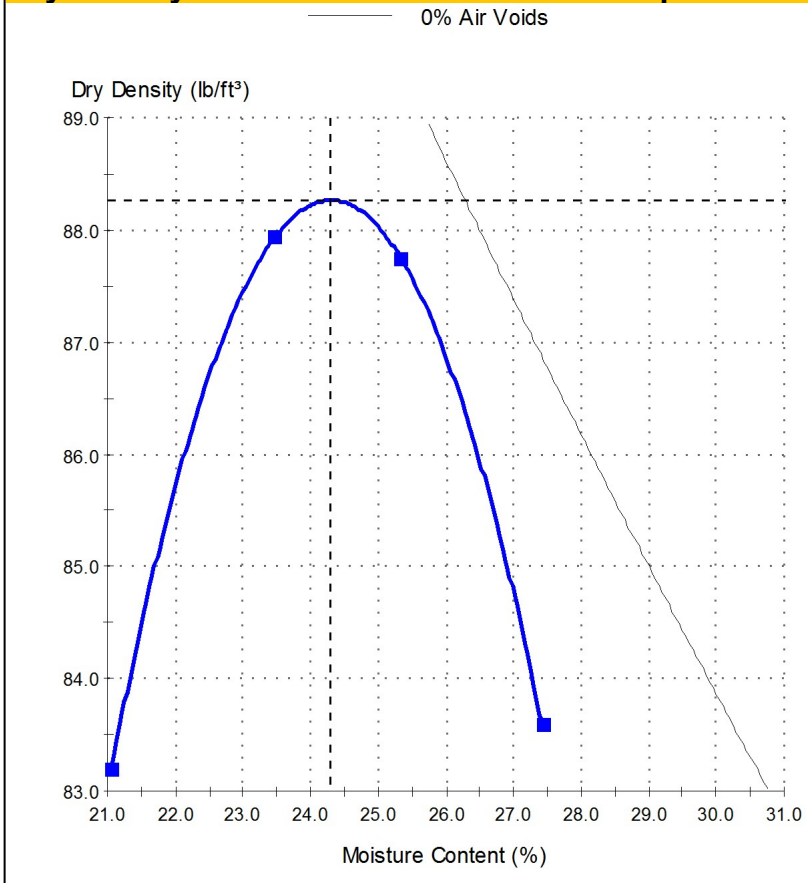
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/15/2022

Sample Details

Sample ID:	03113615-88-S3	**Client Sample ID:**	Lab #551
Date Sampled:	8/3/2022	**Date Received:**	8/3/2022
Sampled By:	Benjamin Urbina	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay (Lime Treated Subgrade - Birch View)	**Sampling Method:**	Sampled Onsite
General Location:	Birch View	**Location:**	On Site
Tested By:	Trevor Ahin	**Date Tested:**	8/8/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	88.3
Optimum Water Content (%):	24.3
Tested By:	Trevor Ahin
Date Tested:	8/8/2022

ASTM D 4318

Liquid Limit (%):	62
Plastic Limit (%):	37
Plasticity Index (%):	25
Tested By:	Ignacio Vasquez
Date Tested:	8/8/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-89-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

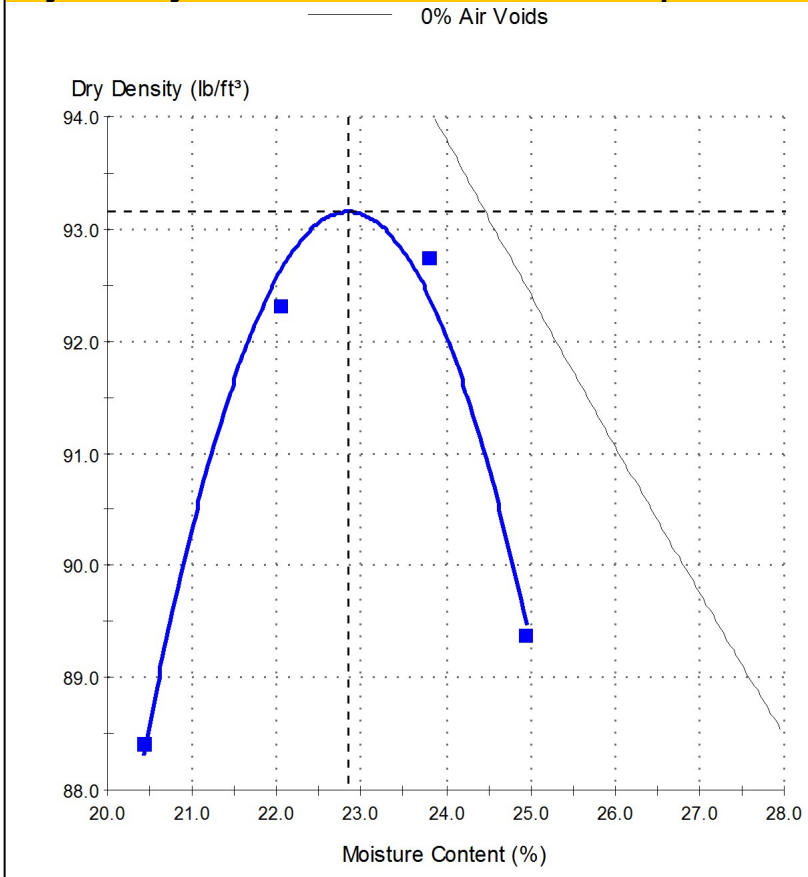
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID:	03113615-89-S1	**Client Sample ID:**	Lab #555
Date Sampled:	8/4/2022	**Date Received:**	8/5/2022
Sampled By:	Richard Robles	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay (Lime Treated Subgrade)	**Sampling Method:**	Sampled Onsite
General Location:	Fern Hollow Sta:2+50	**Location:**	On Site
Tested By:	David Rosales	**Date Tested:**	8/10/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	93.2
Optimum Water Content (%):	22.8
Tested By:	David Rosales
Date Tested:	8/10/2022

ASTM D 4318

Liquid Limit (%):	56
Plastic Limit (%):	36
Plasticity Index (%):	20
Tested By:	Ignacio Vasquez
Date Tested:	8/10/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-89-S2
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

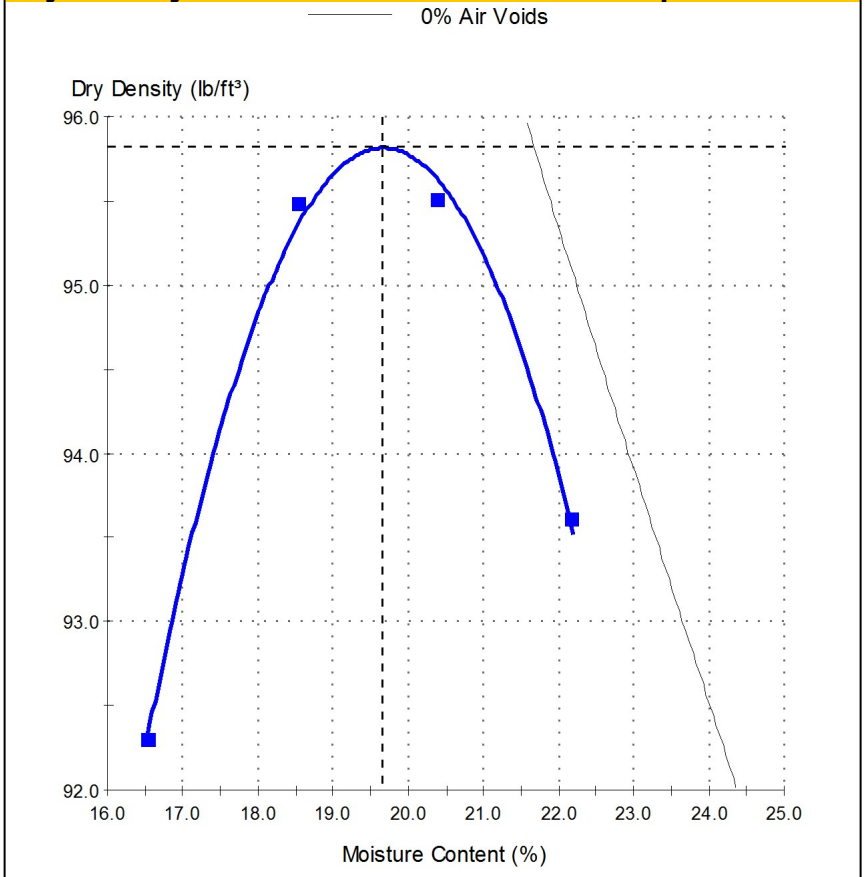
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID:	03113615-89-S2	**Client Sample ID:**	Lab #556
Date Sampled:	8/4/2022	**Date Received:**	8/5/2022
Sampled By:	Richard Robles	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay (Lime Treated Subgrade)	**Sampling Method:**	Sampled Onsite
General Location:	Fern Crossing Sta:6+00	**Location:**	On Site
Tested By:	David Rosales	**Date Tested:**	8/10/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	95.8
Optimum Water Content (%):	19.7
Tested By:	David Rosales
Date Tested:	8/10/2022

ASTM D 4318

Liquid Limit (%):	58
Plastic Limit (%):	40
Plasticity Index (%):	18
Tested By:	Ignacio Vasquez
Date Tested:	8/10/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-89-S3
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

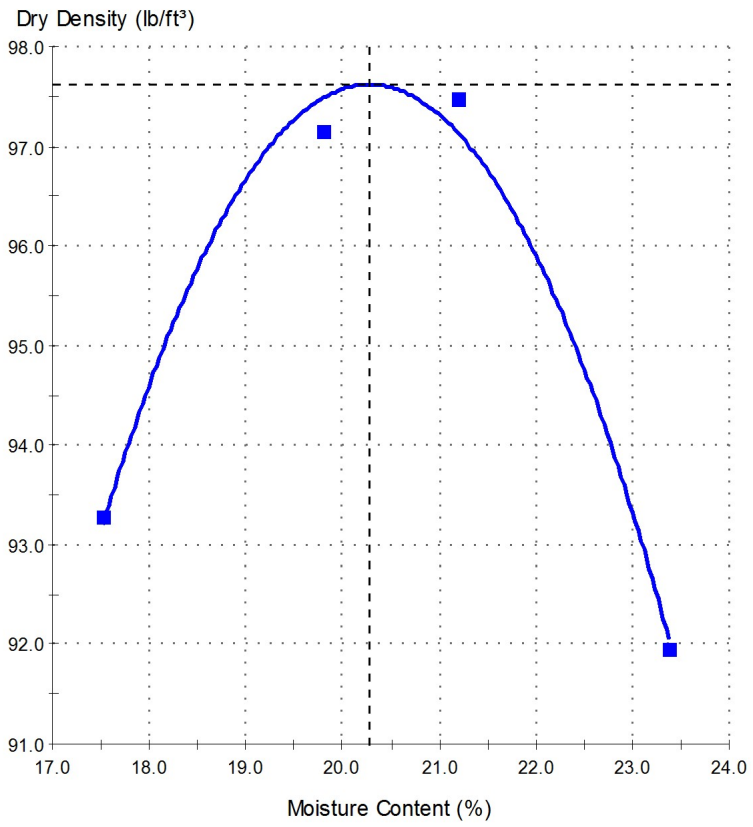
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/18/2022

Sample Details

Sample ID:	03113615-89-S3	**Client Sample ID:**	Lab #557
Date Sampled:	8/4/2022	**Date Received:**	8/5/2022
Sampled By:	Richard Robles	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay (Lime Treated Subgrade)	**Sampling Method:**	Sampled Onsite
General Location:	Birch Pass Sta:4+50	**Location:**	On Site
Tested By:	David Rosales	**Date Tested:**	8/10/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	97.6
Optimum Water Content (%):	20.3
Tested By:	David Rosales
Date Tested:	8/10/2022

ASTM D 4318

Liquid Limit (%):	51
Plastic Limit (%):	31
Plasticity Index (%):	20
Tested By:	Ignacio Vasquez
Date Tested:	8/10/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-92-S1
Issue No: 2

This report replaces all previous issues of this report signed on 08/30/2022

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

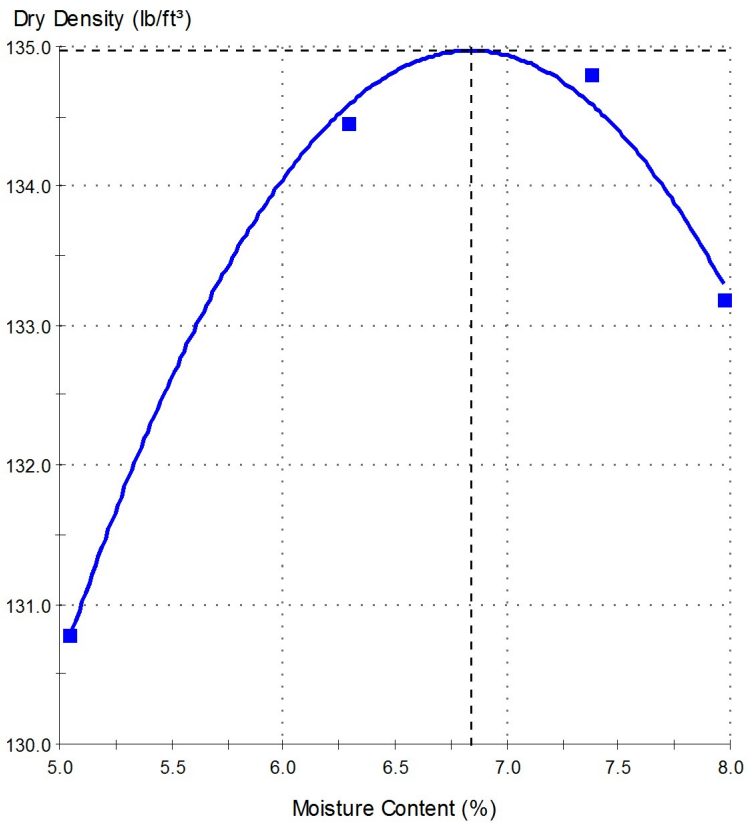
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 8/31/2022

Sample Details

Sample ID:	03113615-92-S1	**Client Sample ID:**	Lab #610
Date Sampled:	8/22/2022	**Sampled By:**	David Garza
Specification:	Grade 1-2; 2014 Specification	**Supplier:**	Martin Marietta Materials
Source:	Rio Medina Pit	**Material:**	Crushed Limestone (Roadway Base-MMM-Rio Medina)
Sampling Method:	Sampled Onsite	**General Location:**	Hennersby Lane
Location:	On Site	**Tested By:**	Trevor Ahin
Date Tested:	8/29/2022		

Dry Density - Moisture Content Relationship



Test Results

Tex-113-E

Maximum Dry Density (lb/ft³):	135.0
Optimum Water Content (%):	6.8
Coefficient of Determination:	0.9926
Tested By:	Trevor Ahin
Date Tested:	8/29/2022

ASTM D 4318

Liquid Limit (%):	23
Plastic Limit (%):	16
Plasticity Index (%):	7
Tested By:	Ignacio Vasquez
Date Tested:	8/26/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-96-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

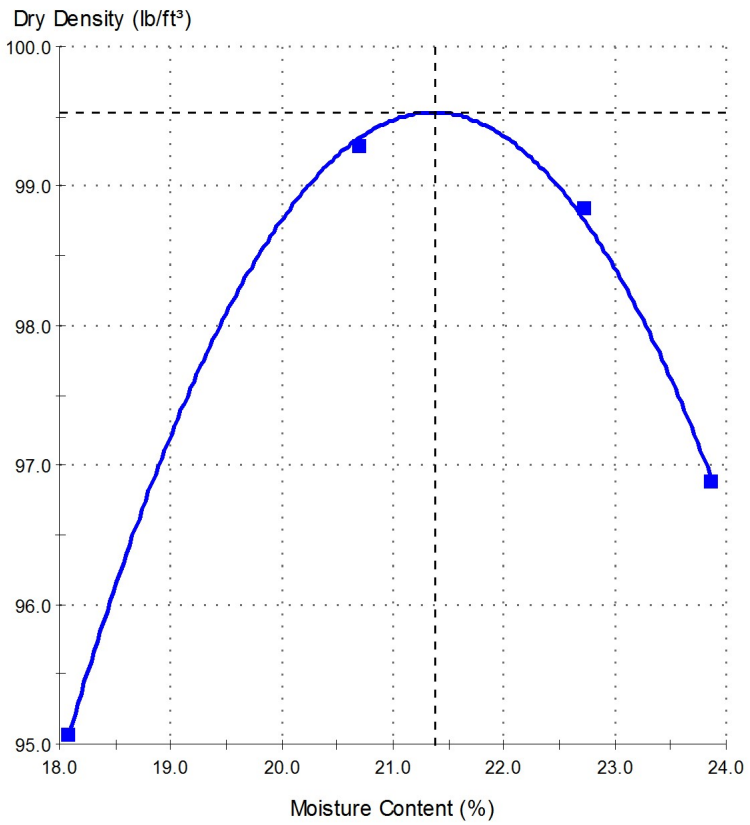
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 9/9/2022

Sample Details

Sample ID:	03113615-96-S1	**Client Sample ID:**	Lab #667
Date Sampled:	9/6/2022	**Date Received:**	9/6/2022
Sampled By:	Benjamin Urbina	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay (Lime Treated Subgrade)	**Sampling Method:**	Sampled Onsite
General Location:	Roadway - Sta: 7+80	**Location:**	On Site Material
Tested By:	Trevor Ahin	**Date Tested:**	9/8/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	99.5
Optimum Water Content (%):	21.4
Tested By:	Trevor Ahin
Date Tested:	9/8/2022

ASTM D 4318

Liquid Limit (%):	
Plastic Limit (%):	
Plasticity Index (%):	
Tested By:	Ignacio Vasquez
Date Tested:	9/9/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-96-S2
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

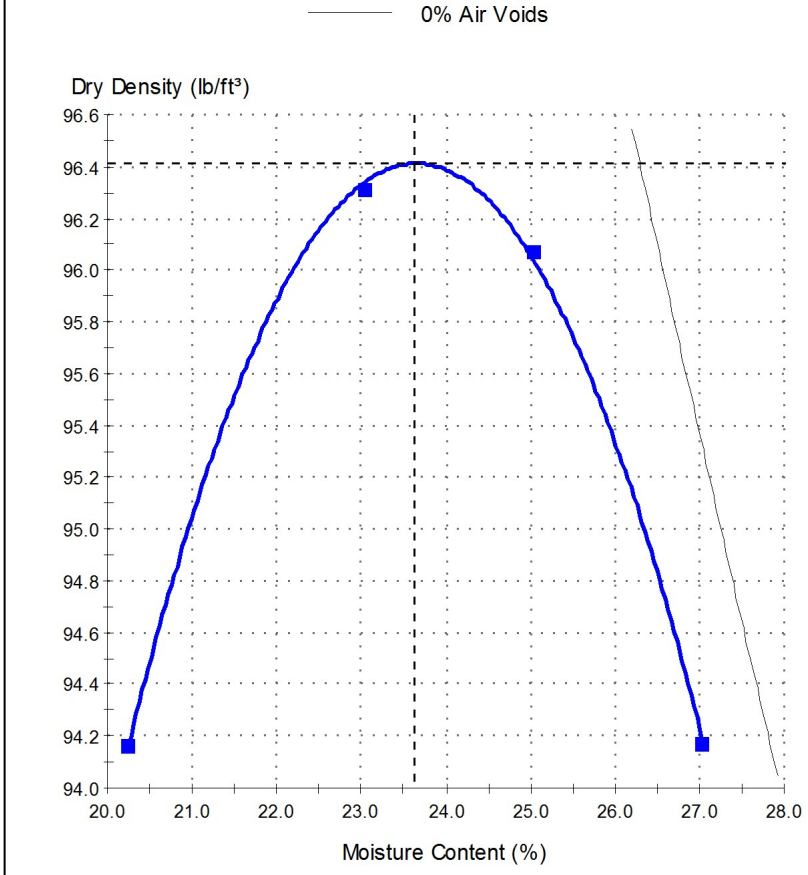
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 9/9/2022

Sample Details

Sample ID:	03113615-96-S2	**Client Sample ID:**	Lab #668
Date Sampled:	9/6/2022	**Date Received:**	9/6/2022
Sampled By:	Benjamin Urbina	**Specification:**	Lime Treated Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Clay (Lime Treated Subgrade)	**Sampling Method:**	Sampled Onsite
General Location:	Roadway - Sta: 2+50	**Location:**	On Site Material
Tested By:	Trevor Ahin	**Date Tested:**	9/8/2022

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	96.4
Optimum Water Content (%):	23.6
Tested By:	Trevor Ahin
Date Tested:	9/8/2022

ASTM D 4318

Liquid Limit (%):	
Plastic Limit (%):	
Plasticity Index (%):	
Tested By:	Ignacio Vasquez
Date Tested:	9/9/2022

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-137-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

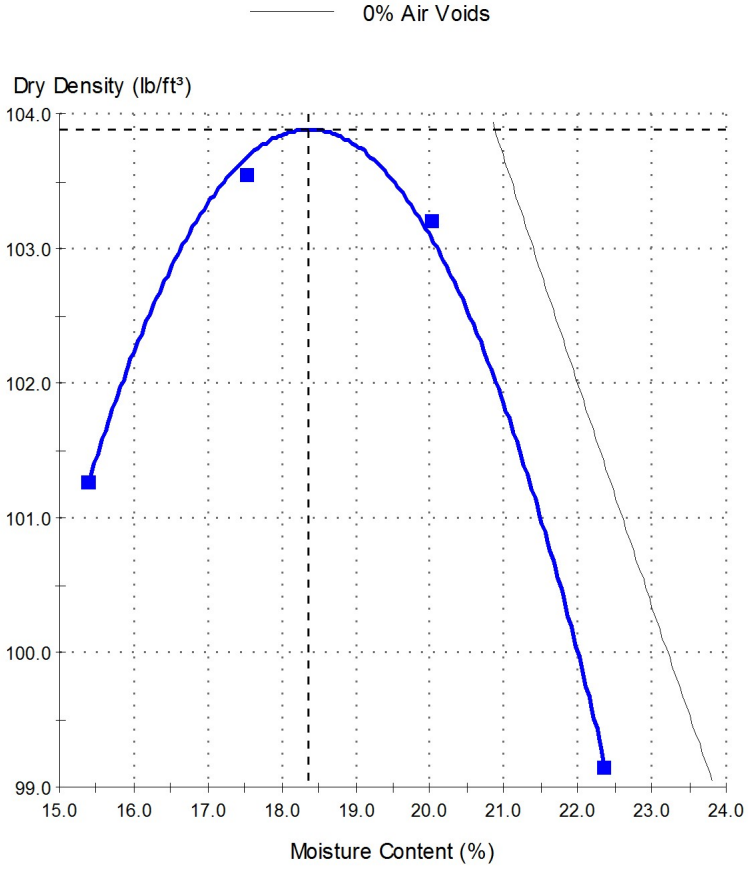
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/2/2023

Sample Details

Sample ID:	03113615-137-S1	**Client Sample ID:**	Lab #112
Date Sampled:	2/22/2023	**Date Received:**	2/22/2023
Sampled By:	David Garza	**Specification:**	Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	**Sampling Method:**	Sampled Onsite
General Location:	Roadway	**Location:**	On site
Tested By:	David Rosales	**Date Tested:**	3/1/2023

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	103.9
Optimum Water Content (%):	18.4
Tested By:	David Rosales
Date Tested:	3/1/2023

ASTM D 4318

Liquid Limit (%):	43
Plastic Limit (%):	15
Plasticity Index (%):	28
Tested By:	David Rosales
Date Tested:	3/1/2023

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-137-S2
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

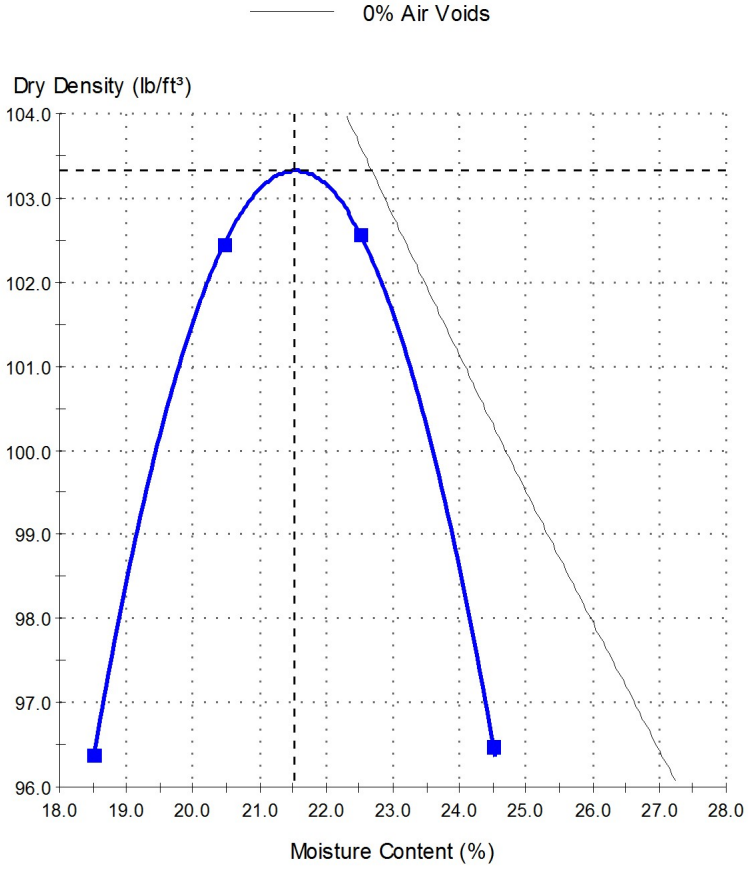
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/2/2023

Sample Details

Sample ID:	03113615-137-S2	**Client Sample ID:**	Lab #113
Date Sampled:	2/22/2023	**Date Received:**	2/22/2023
Sampled By:	David Garza	**Specification:**	Subgrade
Supplier:	In-situ material	**Source:**	In-situ material
Material:	Brown Lean Clay w/Sand (CL), (Subgarde / Backfill / General Fill)	**Sampling Method:**	Sampled Onsite
General Location:	Roadway	**Location:**	On site
Tested By:	David Rosales	**Date Tested:**	3/1/2023

Dry Density - Moisture Content Relationship



Test Results

Tex-114-E

Maximum Dry Density (lb/ft³):	103.3
Optimum Water Content (%):	21.5
Tested By:	David Rosales
Date Tested:	3/1/2023

ASTM D 4318

Liquid Limit (%):	42
Plastic Limit (%):	13
Plasticity Index (%):	29
Tested By:	David Rosales
Date Tested:	3/1/2023

Comments

Professional Service Industries, Inc.
Three Burwood Lane
San Antonio, TX 78216
Texas Firm Registration No. F-03307
Phone: (210) 342-9377
Fax: (210) 342-9401

Report No: PTR:03113615-153-S1
Issue No: 1

Proctor Report

Client: ASHTON WOODS
17319 SAN PEDRO, SUITE 140
SAN ANTONIO, TX 78232

CC: COLBY OGLETREE

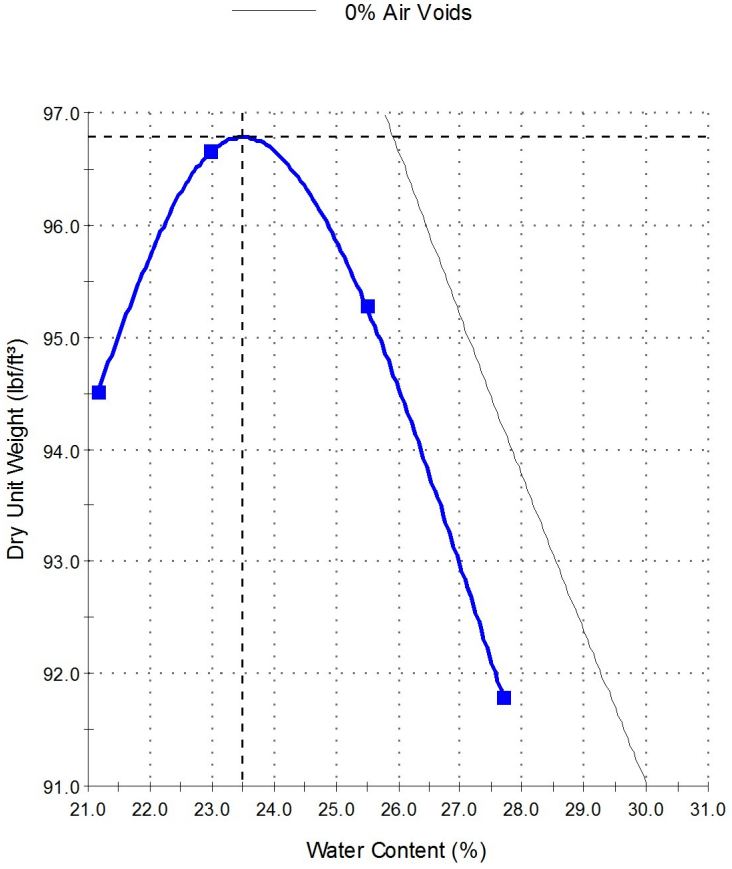
Project: ECHTLE SUBDIVISION UNIT 1
SAN ANTONIO, TX

Approved Signatory: Ernesto Gomez (Project Manager)
Date of Issue: 3/28/2023

Sample Details

Sample ID:	03113615-153-S1	**Client Sample ID:**	Lab #170
Date Sampled:	3/22/2023	**Sampled By:**	Richard Robles
Specification:	Subgrade	**Supplier:**	In-situ material
Source:	In-situ material	**Material:**	Brown Clay (Lime Treated Subgrade)
Sampling Method:	Sampled Onsite	**General Location:**	Masterson Rd.
Location:	On site	**Tested By:**	David Rosales
Date Tested:	3/21/2023		

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D 698

Maximum Dry Unit Weight (lbf/ft³):	**96.8**
Optimum Water Content (%):	**23.5**
Method:	A
Preparation Method:	Moist
Rammer Type:	4" Standard
Specific Gravity (Fines):	2.60
Specific Gravity Method:	Estimated
Tested By:	David Rosales
Date Tested:	3/21/2023

ASTM D 4318

Liquid Limit (%):	32
Plastic Limit (%):	18
Plasticity Index (%):	14
Tested By:	David Rosales
Date Tested:	3/21/2023

Comments