BORING LOG NO. B-5

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6668° Longitude: -86.5486°

Approximate Surface Elev.: 729 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.7	728.5+/-												
		TOPSOIL													
1		**LEAN CLAY (CL)**, brown, stiff													
		3.5	725.5+/-												
		FAT CLAY (CH), with rock fragments, reddish brown, very stiff to hard													
							14	3-4-5 N=9	1.75 (HP)				22.7		
				5			16	5-8-10 N=18	3.25 (HP)				23.9		
							15	17-20-24 N=44	2.25 (HP)				26.6		
							16	23-24-25 N=49	3.75 (HP)				25.0		
2				10											
							17	20-22-21 N=43	2.25 (HP)				21.7		
				15											
							4	12-50/3"	1.00 (HP)				30.2		
		19.5	709.5+/-												
		Auger Refusal at 19.5 Feet													

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-6

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6636° Longitude: -86.5481°
Approximate Surface Elev.: 739 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.8	738+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, reddish brown, stiff				15	3-4-5 N=9	1.50 (HP)				18.9		
							16	5-7-8 N=15	2.75 (HP)				19.5		
		6.0	733+/-	5											
2			**LEAN CLAY (CL)**, with rock fragments, reddish brown, very stiff to hard				17	23-22-22 N=44	3.25 (HP)				23.2		
							16	23-27-30 N=57	3.00 (HP)				27.1		
				10											
		14.5	724.5+/-				9	33-50/3"	4.00 (HP)				24.7		
			Auger Refusal at 14.5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-6A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6636° Longitude: -86.5481°
Approximate Surface Elev.: 739 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1			**LEAN CLAY (CL)**, reddish brown												
		3.0	736+/-												47-21-26
			LEAN CLAY (CL), reddish brown, stiff				16		2.00 (HP)	UC	1.34	7	24.4	98	47-21-26
		5.0	734+/-	5											
			Boring Terminated at 5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-7

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6631° Longitude: -86.5431°

Approximate Surface Elev.: 747 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.7	746.5+/-												
		TOPSOIL													
1		**FAT CLAY (CH)**, reddish brown, stiff					13	3-4-6 N=10	1.75 (HP)				20.3		
		3.5	743.5+/-												
2		**FAT CLAY (CH)**, with rock fragments, reddish brown, very stiff to hard		5			16	7-10-10 N=20	2.00 (HP)				20.3		
							15	21-24-26 N=50	2.75 (HP)				24.4		
				10			16	26-30-35 N=65	4.50+ (HP)				26.3		
				15			15	37-34-36 N=70	4.50+ (HP)				22.1		
		17.5	729.5+/-												
		Auger Refusal at 17.5 Feet													

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-8

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6620° Longitude: -86.5458°
Approximate Surface Elev.: 746 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.7	745.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, brown, stiff			X	12	3-4-5 N=9	1.25 (HP)				19.7		
		3.5	742.5+/-												
			LEAN CLAY (CL), brown, very stiff			X	13	7-10-11 N=21	4.00 (HP)				24.3		
		6.0	740+/-	5											
2			**FAT CLAY (CH)**, with rock fragments, reddish brown, very stiff to hard			X	15	28-31-31 N=62	4.00 (HP)				23.4		
						X	18	32-30-31 N=61	4.00 (HP)				25.2		
		13.0	733+/-	10											
			Auger Refusal at 13 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020
Drill Rig: 7822 DT | Driller: M. Reynolds
Project No.: 57205066

BORING LOG NO. B-8A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6620° Longitude: -86.5458°
Approximate Surface Elev.: 746 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1		0.0	746+/-												
		4.0	742+/-												
				5			24		2.00 (HP)	UC	1.21	2.8	23.6	99	45-22-23
		6.0	740+/-												

LEAN CLAY (CL), brown

LEAN CLAY (CL), brown, stiff

Boring Terminated at 6 Feet

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-9

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6606° Longitude: -86.5409°

Approximate Surface Elev.: 751 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.5	750.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, brown, stiff												
		3.5	747.5+/-												
			FAT CLAY (CH), with rock fragments, reddish brown, very stiff to hard												
							13	4-5-5 N=10	0.75 (HP)				22.0		
							14	6-9-12 N=21	2.75 (HP)				23.4		
2				5			16	29-28-30 N=58	3.50 (HP)				25.4		
							15	27-32-30 N=62	3.50 (HP)				25.3		
		13.5	737.5+/-	10											
			Auger Refusal at 13.5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-10

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6621° Longitude: -86.5399°

Approximate Surface Elev.: 735 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.5	734.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, brown, stiff			X	11	4-5-5 N=10	2.75 (HP)				3.3		
		3.5	731.5+/-												
			LEAN CLAY (CL), brown, very stiff to hard			X	14	8-9-11 N=20	3.00 (HP)				19.8		
				5		X	16	22-24-25 N=49	3.50 (HP)				23.4		
						X	15	25-31-34 N=65	4.50+ (HP)				22.5		
2				10											
						X	14	37-39-41 N=80	4.25 (HP)				25.6		
				15											
		18.0	717+/-												
			Auger Refusal at 18 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-10A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6621° Longitude: -86.5399°
Approximate Surface Elev.: 735 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1			**LEAN CLAY (CL)**, brown												
		2.0	733+/-												
			LEAN CLAY (CL), brown, stiff				12		2.00 (HP)	UC	1.64	4.2	21.3	102	44-21-23
		4.0	731+/-												
			Boring Terminated at 4 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-11

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6570° Longitude: -86.5358°

Approximate Surface Elev.: 742 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.7	741.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, brown, stiff												
		3.5	738.5+/-				13	6-6-7 N=13	1.75 (HP)				21.0		
2			**FAT CLAY (CH)**, with rock fragments, reddish brown, very stiff to hard	5			14	10-11-12 N=23	4.50+ (HP)				28.4		
							16	29-32-34 N=66	4.50+ (HP)				24.7		
				10			16	37-40-41 N=81	4.50+ (HP)				21.5		
		13.0	729+/-												
			Auger Refusal at 13 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-12

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6557° Longitude: -86.5321°

Approximate Surface Elev.: 737 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.5	736.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, brown, stiff			X	14	4-7-7 N=14	1.00 (HP)				21.6		
		3.5	733.5+/-												
			LEAN CLAY (CL), brown, very stiff	5		X	16	8-13-15 N=28	4.25 (HP)				29.0		
		6.0	731+/-												
2			**FAT CLAY (CH)**, with rock fragments, reddish brown, very stiff to hard			X	17	30-34-37 N=71	4.50+ (HP)				27.1		
				10		X	16	35-38-40 N=78	4.50+ (HP)				24.1		
		13.5	723.5+/-												
			Auger Refusal at 13.5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-12A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6557° Longitude: -86.5321°
Approximate Surface Elev.: 737 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1			**LEAN CLAY (CL)**												
		3.0	734+/-												48-20-28
			LEAN CLAY (CL), brown, stiff				19		2.00 (HP)	UC	1.91	7	22.8	103	48-20-28
		5.0	732+/-	5											
			Boring Terminated at 5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-23-2020 | Boring Completed: 12-23-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-13

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6574° Longitude: -86.5286°

Approximate Surface Elev.: 718 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.5	717.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, brown, medium stiff to stiff			X	12	2-3-3 N=6	0.75 (HP)				22.5		
						X	10	3-4-4 N=8	0.50 (HP)				25.2		
		6.0	712+/-	5											
2			**FAT CLAY (CH)**, with rock fragments, reddish brown, very stiff to hard			X	13	7-7-9 N=16	1.50 (HP)				36.8		
						X	15	10-11-11 N=22	3.25 (HP)				25.1		
				10											
						X	15	20-21-22 N=43	3.50 (HP)				27.4		
				15											
		17.5	700.5+/-												
			Auger Refusal at 17.5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-14

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6585° Longitude: -86.5318°

Approximate Surface Elev.: 710 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.7	709.5+/-												
		TOPSOIL													
1		**LEAN CLAY (CL)**, brown, medium stiff to stiff					11	2-2-2 N=4	1.25 (HP)				19.6		
							12	4-4-4 N=8	0.75 (HP)				23.1		
		6.0	704+/-	5											
		LEAN CLAY (CL), brown, very stiff					14	9-7-11 N=18	1.00 (HP)				22.2		
		8.5	701.5+/-												
2		**FAT CLAY (CH)**, with rock fragments, reddish brown, very stiff to hard		10			16	9-8-9 N=17	2.75 (HP)				23.2		
							16	17-17-21 N=38	2.50 (HP)				21.4		
		16.5	693.5+/-	15											
		Auger Refusal at 16.5 Feet													

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-15

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6612° Longitude: -86.5325°

Approximate Surface Elev.: 703 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.5	702.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, brown, medium stiff to stiff				12	2-2-4 N=6	2.00 (HP)				15.1		
							15	5-6-9 N=15	1.25 (HP)				25.2		
		6.0	697+/-	5											
			FAT CLAY (CH), with rock fragments, reddish brown, very stiff to hard				16	15-16-16 N=32	3.25 (HP)				23.1		
							15	16-18-19 N=37	3.75 (HP)				20.8		
2				10											
							15	25-23-20 N=43	2.00 (HP)				31.9		
				15											
							14	18-19-18 N=37	2.75 (HP)				23.6		
		20.0	683+/-	20											
			Boring Terminated at 20 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-15A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6612° Longitude: -86.5325°

Approximate Surface Elev.: 703 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1		0.0	703+/-												
		4.0	699+/-												
				5			15		2.00 (HP)	UC	0.88	4.2	26.0	95	48-20-28
		6.0	697+/-												

LEAN CLAY (CL), brown

LEAN CLAY (CL), brown, medium stiff

Boring Terminated at 6 Feet

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-16

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6621° Longitude: -86.5353°

Approximate Surface Elev.: 701 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.7	700.5+/-												
	TOPSOIL														
1	**LEAN CLAY (CL)**, brown, medium stiff					X	10	3-3-4 N=7	0.75 (HP)				24.9		
		3.5	697.5+/-												
	LEAN CLAY (CL), brown, very stiff to hard					X	13	7-7-9 N=16	1.50 (HP)				24.1		
				5											
		7.5	693.5+/-			X	16	13-16-17 N=33	2.75 (HP)				24.5		
	FAT CLAY (CH), with rock fragments, reddish brown, hard					X	15	18-19-19 N=38	3.50 (HP)				24.7		
2				10											
						X	15	23-25-25 N=50	3.50 (HP)				29.5		
				15											
						X	14	20-21-23 N=44	2.75 (HP)				24.3		
		20.0	681+/-	20											
	Boring Terminated at 20 Feet														

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-16A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 36.6621° Longitude: -86.5353° Approximate Surface Elev.: 701 (Ft.) +/- DEPTH / ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1		**LEAN CLAY (CL)**, brown 5.0 / 696+/-	5											
		LEAN CLAY (CL), brown, medium stiff 7.0 / 694+/-				17		2.00 (HP)	UC	0.90	4.2	23.2	98	42-20-22
		Boring Terminated at 7 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-17

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6637° Longitude: -86.5329°

Approximate Surface Elev.: 700 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.7	699.5+/-												
			TOPSOIL												
1			**FAT CLAY (CH)**, reddish brown, medium stiff to stiff				11	3-3-4 N=7	1.50 (HP)				24.4		
							13	5-5-5 N=10	0.50 (HP)				24.8		
		6.0	694+/-	5											
			FAT CLAY (CH), reddish brown, very stiff to hard trace rock fragments				14	11-11-11 N=22	2.00 (HP)				23.2		
							16	13-15-18 N=33	4.00 (HP)				27.6		
2				10											
							16	30-31-31 N=62	4.50 (HP)				23.7		
				15											
							15	35-36-35 N=71	4.00 (HP)				25.2		
		20.0	680+/-	20											
			Boring Terminated at 20 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-18

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6649° Longitude: -86.5355°

Approximate Surface Elev.: 694 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.5	693.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, reddish brown, medium stiff to stiff			X	13	4-4-4 N=8	1.75 (HP)				24.7		
						X	14	4-5-6 N=11	1.25 (HP)				24.4		
				5											
		6.0	688+/-												
			LEAN CLAY (CL), reddish brown, very stiff to hard			X	15	10-11-14 N=25	1.25 (HP)				21.9		
			trace rock fragments			X	16	14-16-19 N=35	0.75 (HP)				23.3		
				10											
2															
						X	17	29-31-28 N=59	4.50 (HP)				23.4		
				15											
						X	15	30-30-30 N=60	4.50 (HP)				24.0		
		20.0	674+/-	20											
			Boring Terminated at 20 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-18A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6649° Longitude: -86.5355°

Approximate Surface Elev.: 694 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1		0.0	694+/-												
			LEAN CLAY (CL), reddish brown												
		3.0	691+/-												
2		3.0	**LEAN CLAY (CL)**, reddish brown, very stiff				24		3.00 (HP)	UC	2.41	3.5	19.5	109	29-19-10
		5.0	689+/-	5											
			Boring Terminated at 5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-19

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6650° Longitude: -86.5389°

Approximate Surface Elev.: 715 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.5	714.5+/-												
			TOPSOIL												
1			**FAT CLAY (CH)**, reddish brown, stiff			X	16	5-6-5 N=11	2.75 (HP)				21.0		
		3.5	711.5+/-												
2			**FAT CLAY (CH)**, reddish brown, very stiff to hard	5		X	13	7-9-12 N=21	4.50 (HP)				23.8		
						X	15	24-26-29 N=55	4.50 (HP)				22.9		
			transition to brown and gray color	10		X	15	35-40-42 N=82	3.75 (HP)				21.1		
		13.5	701.5+/-												
			Auger Refusal at 13.5 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-19A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6650° Longitude: -86.5389°

Approximate Surface Elev.: 715 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1		0													
			FAT CLAY (CH), reddish brown												
		3.5	711.5+/-												
2			**FAT CLAY (CH)**, reddish brown	5											
				10											
		13.0	702+/-												
			Auger Refusal at 13 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-20

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6663° Longitude: -86.5331°

Approximate Surface Elev.: 692 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.5	691.5+/-												
			TOPSOIL												
1			**LEAN CLAY (CL)**, brown, stiff												
						X	8	3-7-7 N=14	1.00 (HP)				23.1		
		3.5	688.5+/-												
2			**FAT CLAY (CH)**, reddish brown, very stiff to hard			X	14	7-8-8 N=16	4.00 (HP)				27.4		
				5											
						X	12	23-25-31 N=56	4.50+ (HP)				23.8		
						X	15	36-40-47 N=87	3.50 (HP)				23.3		
				10											
		13.0	679+/-												
			Auger Refusal at 13 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-20A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6663° Longitude: -86.5331°
Approximate Surface Elev.: 692 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1		0.0	692+/-												
			LEAN CLAY (CL), brown												
		3.0	689+/-												
2			**FAT CLAY (CH)**, reddish brown, very stiff				8		3.50 (HP)	UC			29.3	51	66-22-44
		5.0	687+/-	5											
			FAT CLAY (CH), reddish brown												
				10											
		13.0	679+/-												
			Auger Refusal at 13 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-24-2020 | Boring Completed: 12-24-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-21

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6665° Longitude: -86.5371°

Approximate Surface Elev.: 704 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.3	703.5+/-												
		TOPSOIL													
1		**FAT CLAY (CH)**, reddish brown, stiff				X	12	4-6-8 N=14	4.50+ (HP)				26.2		
		3.5	700.5+/-												
		FAT CLAY (CH), reddish brown, very stiff to hard				X	14	10-12-14 N=26	3.75 (HP)				26.9		
				5		X	16	25-26-28 N=54	4.25 (HP)				26.4		
						X	17	27-29-30 N=59	2.75 (HP)				28.8		
2				10											
		trace rock fragments				X	16	25-29-29 N=58	3.50 (HP)				25.6		
				15											
						X	15	22-25-22 N=47	2.75 (HP)				27.1		
				20											
		22.0	682+/-												
		Auger Refusal at 22 Feet													

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-28-2020 | Boring Completed: 12-28-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-21A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6665° Longitude: -86.5371°
Approximate Surface Elev.: 704 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1		0.0	**FAT CLAY (CH)**, reddish brown												
		3.0	701+/-												76-25-51
		3.0	**FAT CLAY (CH)**, reddish brown, stiff				24		3.00 (HP)	UC	1.50	4.2	26.1	95	76-25-51
		5.0	699+/-	5											
2		5.0	**FAT CLAY (CH)**, reddish brown												
		11.0	693+/-	10											
		11.0	**FAT CLAY (CH)**, reddish brown, very stiff				18		4.00 (HP)	UC	2.10	3.5	23.6	97	64-24-40
		13.0	691+/-												
			Boring Terminated at 13 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-28-2020 | Boring Completed: 12-28-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-22

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan

Latitude: 36.6669° Longitude: -86.5377°

Approximate Surface Elev.: 706 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
		0.3	705.5+/-												
		TOPSOIL													
1		**LEAN CLAY (CL)**, reddish brown, stiff													
						X	13	6-7-7 N=14	4.00 (HP)				27.2		
		3.5	702.5+/-												
		LEAN CLAY (CL), reddish brown, very stiff to hard				X	12	10-11-13 N=24	4.50+ (HP)				25.1		
				5											
						X	14	25-25-29 N=54	4.50+ (HP)				25.6		
						X	16	29-30-31 N=61	3.50 (HP)				25.4		
				10											
2						X	16	30-30-32 N=62	3.00 (HP)				26.2		
				15											
						X	17	25-25-33 N=58	3.25 (HP)				26.1		
				20											
		23.0	683+/-												
		Auger Refusal at 23 Feet													

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 12-28-2020 | Boring Completed: 12-28-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

BORING LOG NO. B-22A

PROJECT: Hoffman Solar Project

CLIENT: OPDE Energy C/O, Horus Renewables Corp
Jupiter, FL

SITE: Tyree Chapel Road
Franklin, KY

LOCATION See Exploration Plan
Latitude: 36.6669° Longitude: -86.5377°
Approximate Surface Elev.: 706 (Ft.) +/-

MODEL LAYER	GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	STRENGTH TEST: TEST TYPE	STRENGTH TEST: COMPRESSIVE STRENGTH (tsf)	STRENGTH TEST: STRAIN (%)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS: LL-PL-PI
1		0.0	**LEAN CLAY (CL)**, reddish brown												
		3.0	703+/-												40-21-19
			LEAN CLAY (CL), reddish brown, stiff				20		2.50 (HP)	UC	1.60	5.6	21.2	105	40-21-19
		5.0	701+/-	5											
			LEAN CLAY (CL), reddish brown												
		11.0	695+/-	10											
			LEAN CLAY (CL), reddish brown, stiff				22		3.50 (HP)	UC	1.84	2.8	20.4	102	44-21-23
		13.0	693+/-												
			Boring Terminated at 13 Feet												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
2 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were interpolated from Google Earth pro.

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

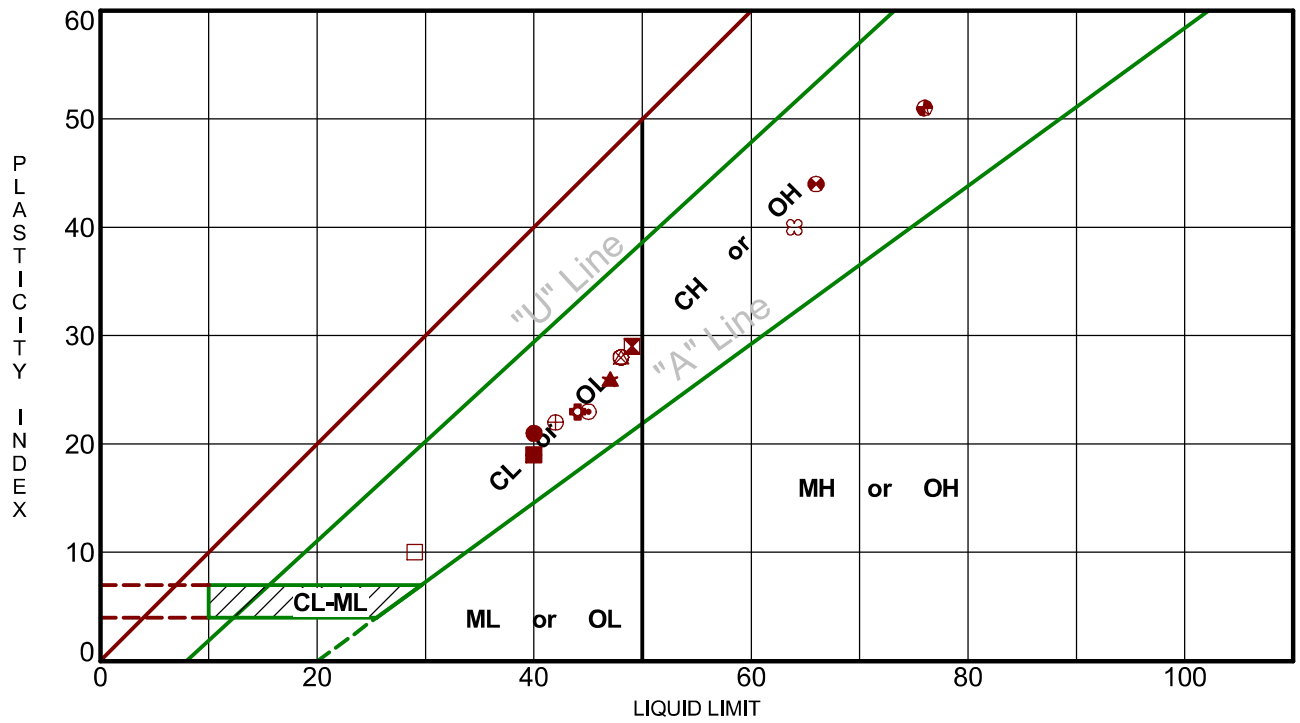
Boring Started: 12-28-2020 | Boring Completed: 12-28-2020

Drill Rig: 7822 DT | Driller: M. Reynolds

Project No.: 57205066

ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID		Depth	LL	PL	PI	Fines	USCS	Description
●	B-2A	2 - 4	40	19	21		CL	Lean Clay
⊠	B-4A	3 - 5	49	20	29		CL	Lean Clay
▲	B-6A	1 - 4	47	21	26		CL	Lean Clay
★	B-6A	3 - 5	47	21	26		CL	Lean Clay
⊙	B-8A	4 - 6	45	22	23		CL	Lean Clay
✿	B-10A	2 - 4	44	21	23		CL	Lean Clay
○	B-12A	1 - 4	48	20	28		CL	Lean Clay
△	B-12A	3 - 5	48	20	28		CL	Lean Clay
⊗	B-15A	4 - 6	48	20	28		CL	Lean Clay
⊕	B-16A	5 - 7	42	20	22		CL	Lean Clay
□	B-18A	3 - 5	29	19	10		CL	Lean Clay
◕	B-20A	3 - 5	66	22	44		CH	Fat Clay
◕	B-21A	1 - 4	76	25	51		CH	Fat Clay
☆	B-21A	3 - 5	76	25	51		CH	Fat Clay
✿	B-21A	11 - 13	64	24	40		CH	Fat Clay
■	B-22A	1 - 4	40	21	19		CL	Lean Clay
◆	B-22A	3 - 5	40	21	19		CL	Lean Clay
◇	B-22A	11 - 13	44	21	23		CL	Lean Clay

PROJECT: Hoffman Solar Project

PROJECT NUMBER: 57205066

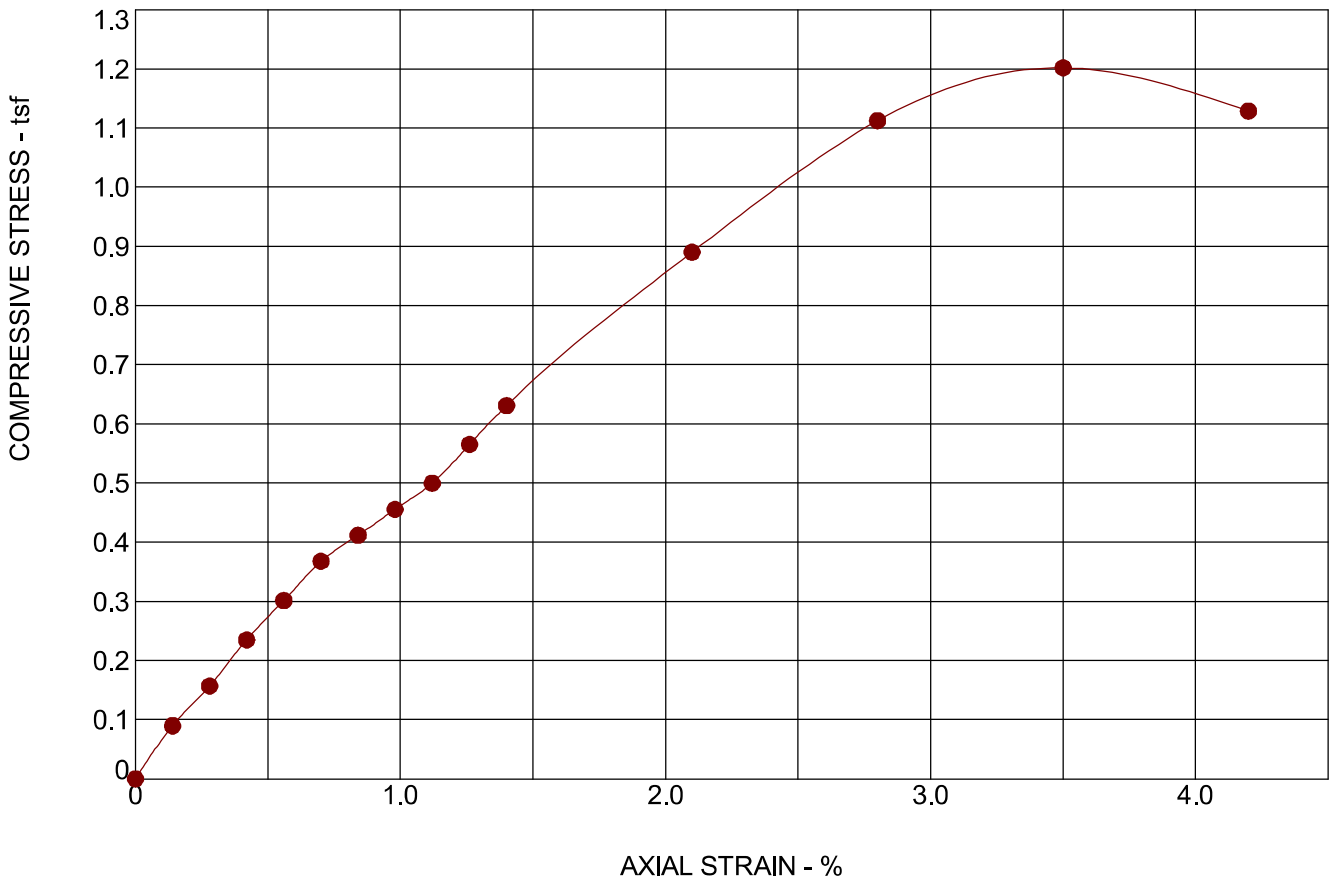
SITE: Tyree Chapel Road
Franklin, KY

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

CLIENT: Horus Renewables Corp
Newton, MA

UNCONFINED COMPRESSION TEST

ASTM D2166



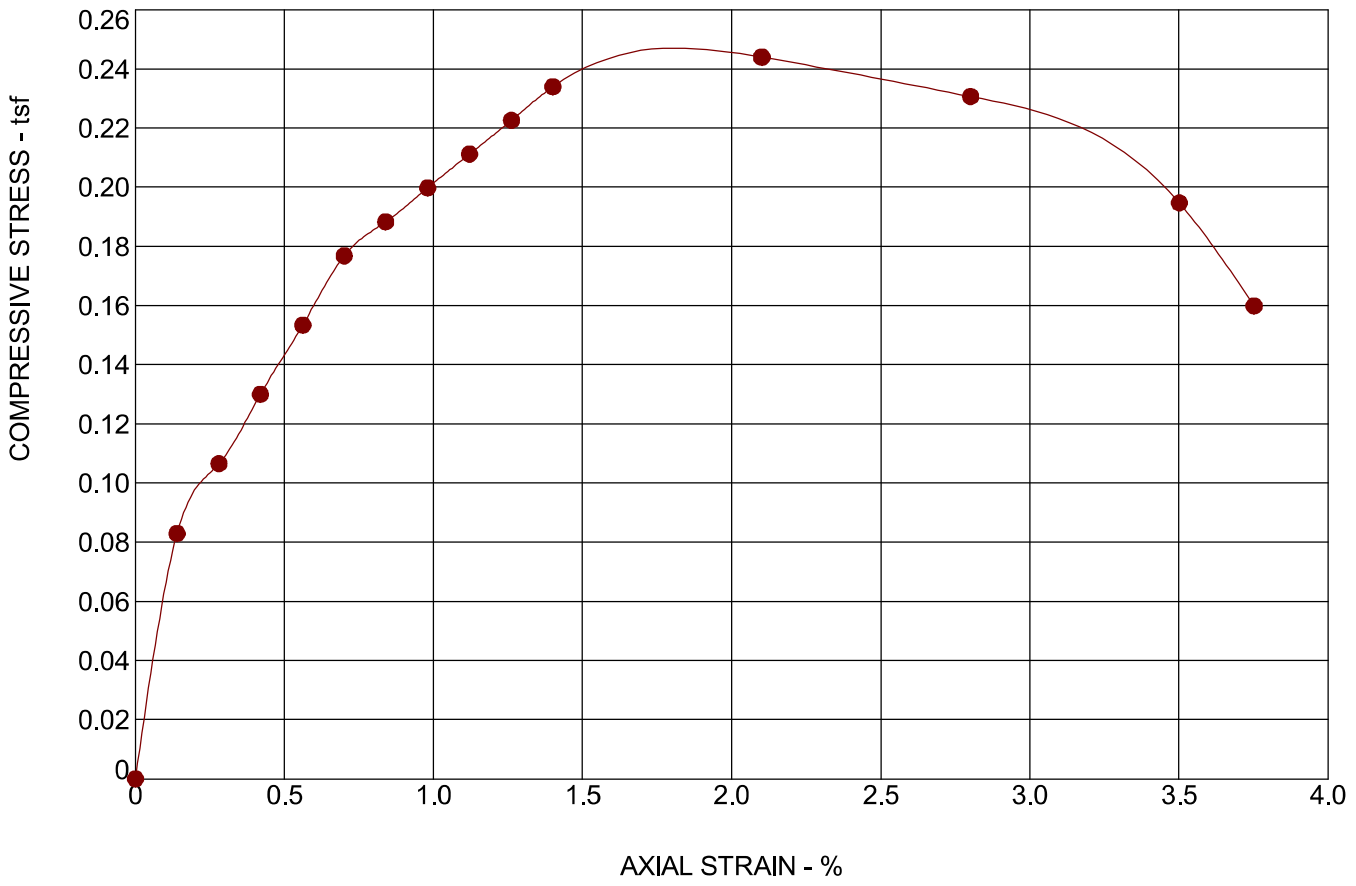
SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	23.5
	Dry Density:	pcf	99
	Diameter:	in.	2.86
	Height:	in.	5.57
	Height / Diameter Ratio:		1.95
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	3.50
	Unconfined Compressive Strength	(tsf)	1.20
	Undrained Shear Strength:	(tsf)	0.60
	Strain Rate:	in/min	0.0780
	Remarks:		

SAMPLE TYPE: Shelby Tube	SAMPLE LOCATION: B-2A @ 2 - 4 feet			
DESCRIPTION: Lean Clay	LL	PL	PI	Percent < #200 Sieve
	40	19	21	

PROJECT: Hoffman Solar Project	Terracon 13050 Eastgate Park Way Ste 101 Louisville, KY	PROJECT NUMBER: 57205066
SITE: Tyree Chapel Road Franklin, KY		CLIENT: Horus Renewables Corp Newton, MA

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	23.1
	Dry Density:	pcf	88
	Diameter:	in.	2.78
	Height:	in.	5.60
	Height / Diameter Ratio:		2.01
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	2.10
	Unconfined Compressive Strength	(tsf)	0.24
	Undrained Shear Strength:	(tsf)	0.12
	Strain Rate:	in/min	0.0784
	Remarks:		

SAMPLE TYPE: Shelby Tube

SAMPLE LOCATION: B-4A @ 3 - 5 feet

DESCRIPTION: Lean Clay

LL	PL	PI	Percent < #200 Sieve
49	20	29	

PROJECT: Hoffman Solar Project

PROJECT NUMBER: 57205066

SITE: Tyree Chapel Road
Franklin, KY

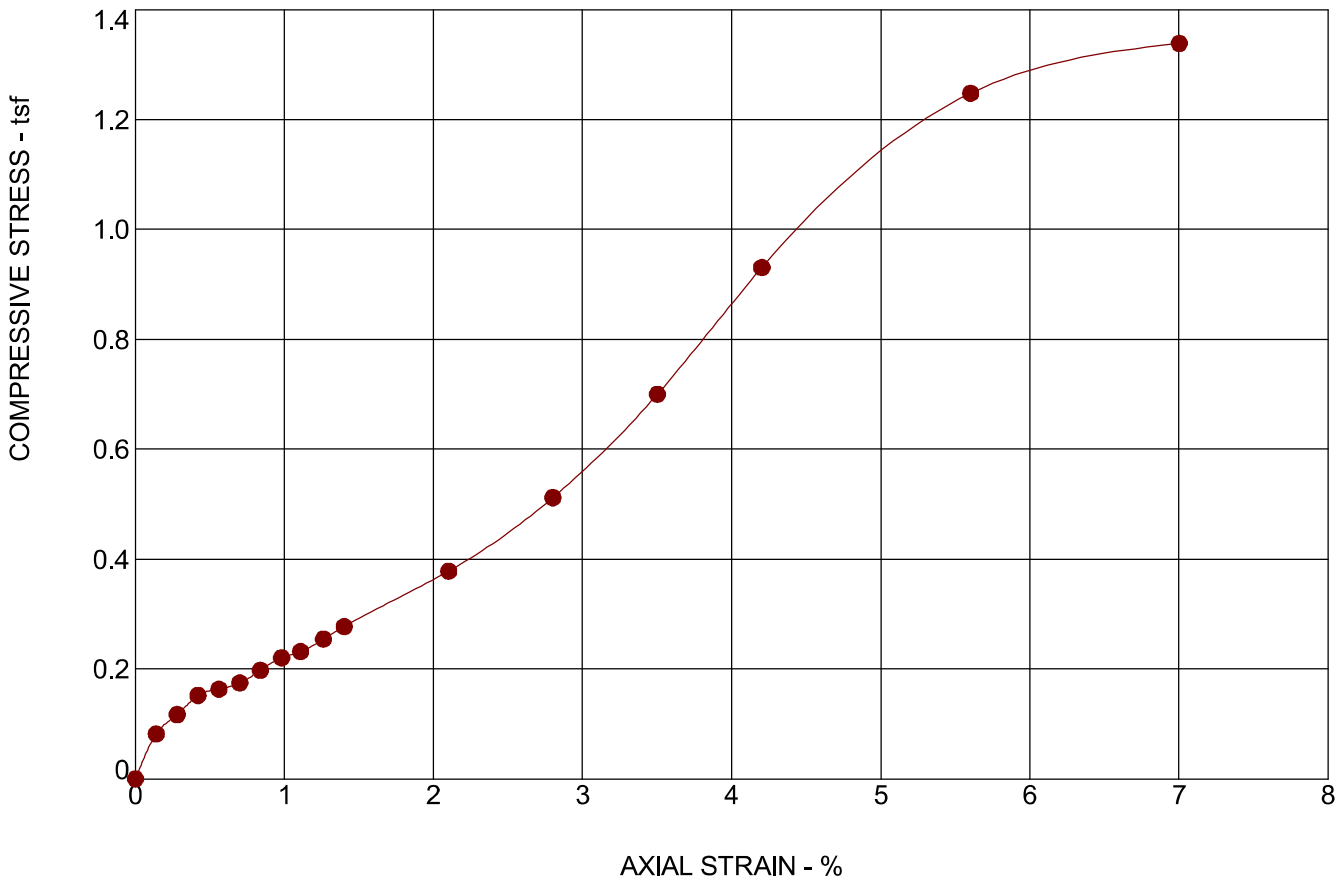
Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

CLIENT: Horus Renewables Corp
Newton, MA

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. UNCONFINED WITH PHOTOS 57205066 PROPOSED HOFFMAN .GPJ 02195238 US 50 AND CHIPMAN.GPJ 1/28/21

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	24.4
	Dry Density:	pcf	98
	Diameter:	in.	2.80
	Height:	in.	5.60
	Height / Diameter Ratio:		2.00
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	7.00
	Unconfined Compressive Strength	(tsf)	1.34
	Undrained Shear Strength:	(tsf)	0.67
	Strain Rate:	in/min	0.0784
	Remarks:		

SAMPLE TYPE: Shelby Tube	SAMPLE LOCATION: B-6A @ 3 - 5 feet			
DESCRIPTION: Lean Clay	LL	PL	PI	Percent < #200 Sieve
	47	21	26	

PROJECT: Hoffman Solar Project

SITE: Tyree Chapel Road
Franklin, KY

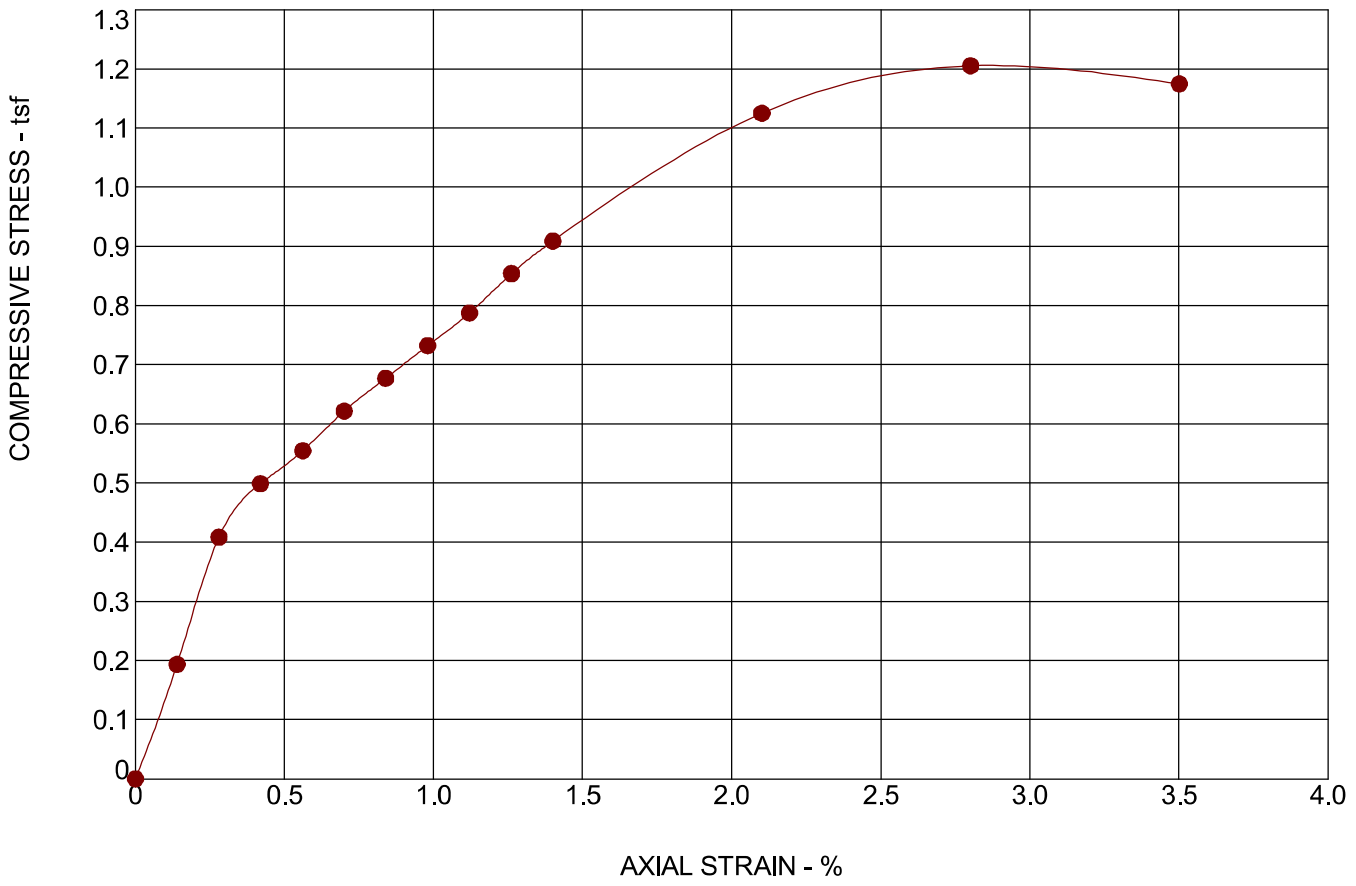
Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

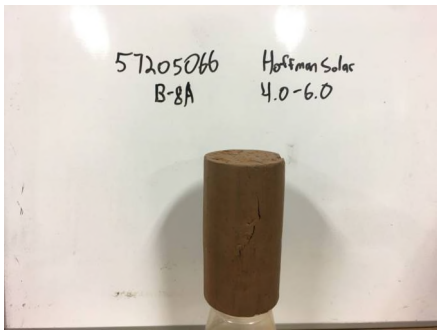
PROJECT NUMBER: 57205066

CLIENT: Horus Renewables Corp
Newton, MA

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	23.6
	Dry Density:	pcf	99
	Diameter:	in.	2.84
	Height:	in.	5.60
	Height / Diameter Ratio:		1.97
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	2.80
	Unconfined Compressive Strength	(tsf)	1.21
	Undrained Shear Strength:	(tsf)	0.60
	Strain Rate:	in/min	0.0784
	Remarks:		

SAMPLE TYPE: Shelby Tube

SAMPLE LOCATION: B-8A @ 4 - 6 feet

DESCRIPTION: Lean Clay

LL	PL	PI	Percent < #200 Sieve
45	22	23	

PROJECT: Hoffman Solar Project

PROJECT NUMBER: 57205066

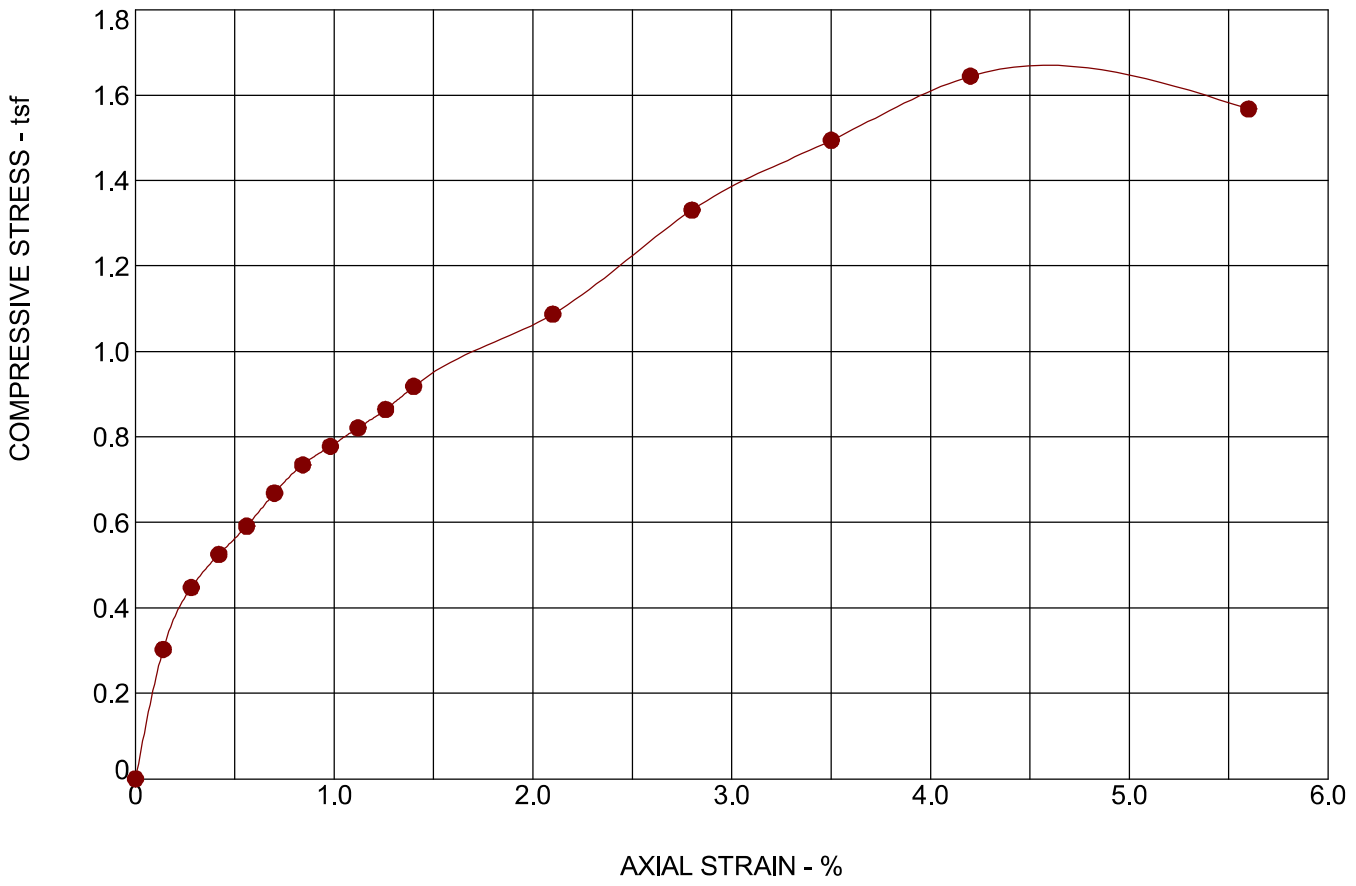
SITE: Tyree Chapel Road
Franklin, KY

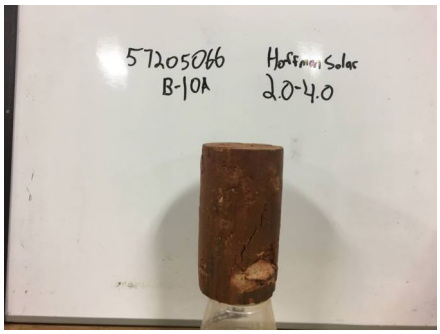
Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

CLIENT: Horus Renewables Corp
Newton, MA

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	21.3
	Dry Density:	pcf	102
	Diameter:	in.	2.86
	Height:	in.	5.59
	Height / Diameter Ratio:		1.96
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	4.20
	Unconfined Compressive Strength	(tsf)	1.64
	Undrained Shear Strength:	(tsf)	0.82
	Strain Rate:	in/min	0.0783
	Remarks:		

SAMPLE TYPE: Shelby Tube	SAMPLE LOCATION: B-10A @ 2 - 4 feet			
DESCRIPTION: Lean Clay	LL	PL	PI	Percent < #200 Sieve
	44	21	23	

PROJECT: Hoffman Solar Project

PROJECT NUMBER: 57205066

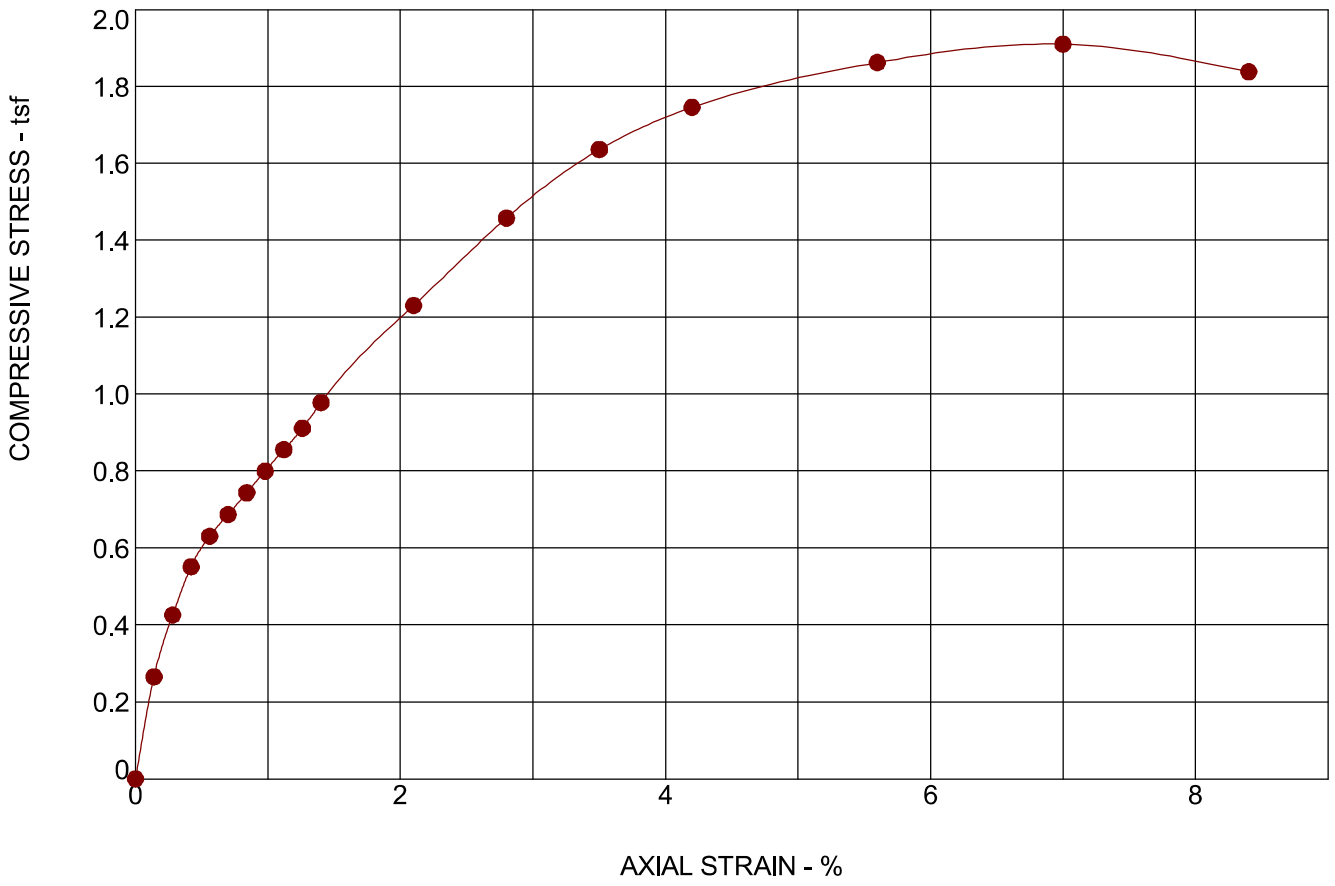
SITE: Tyree Chapel Road
Franklin, KY

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

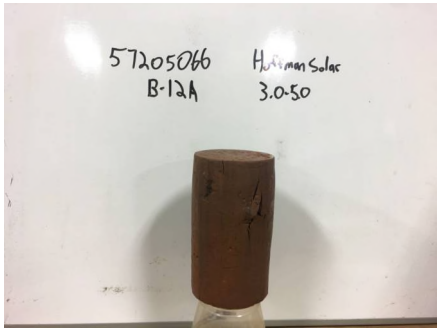
CLIENT: Horus Renewables Corp
Newton, MA

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH



SPECIMEN TEST DATA

Moisture Content:	%	22.8
Dry Density:	pcf	103
Diameter:	in.	2.82
Height:	in.	5.59
Height / Diameter Ratio:		1.98
Calculated Saturation:	%	
Calculated Void Ratio:		
Assumed Specific Gravity:		
Failure Strain:	%	7.00
Unconfined Compressive Strength	(tsf)	1.91
Undrained Shear Strength:	(tsf)	0.95
Strain Rate:	in/min	0.0783
Remarks:		

SAMPLE TYPE: Shelby Tube

SAMPLE LOCATION: B-12A @ 3 - 5 feet

DESCRIPTION: Lean Clay

LL	PL	PI	Percent < #200 Sieve
48	20	28	

PROJECT: Hoffman Solar Project

PROJECT NUMBER: 57205066

SITE: Tyree Chapel Road
Franklin, KY

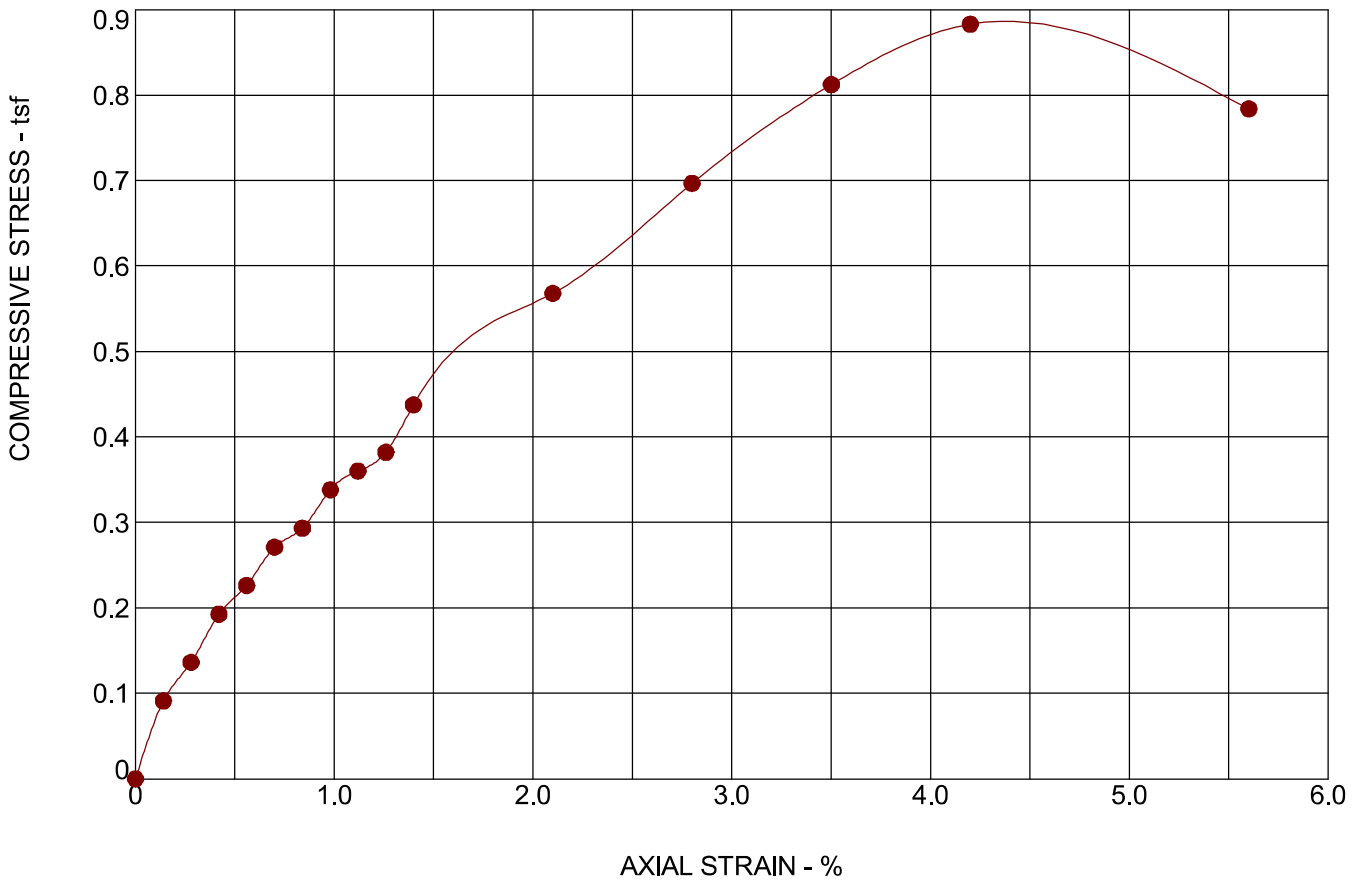
Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

CLIENT: Horus Renewables Corp
Newton, MA

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. UNCONFINED WITH PHOTOS 57205066 PROPOSED HOFFMAN .GPJ 02195238 US 50 AND CHIPMAN.GPJ 1/28/21

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	26.0
	Dry Density:	pcf	95
	Diameter:	in.	2.84
	Height:	in.	5.61
	Height / Diameter Ratio:		1.98
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	4.20
	Unconfined Compressive Strength	(tsf)	0.88
	Undrained Shear Strength:	(tsf)	0.44
	Strain Rate:	in/min	0.0785
	Remarks:		

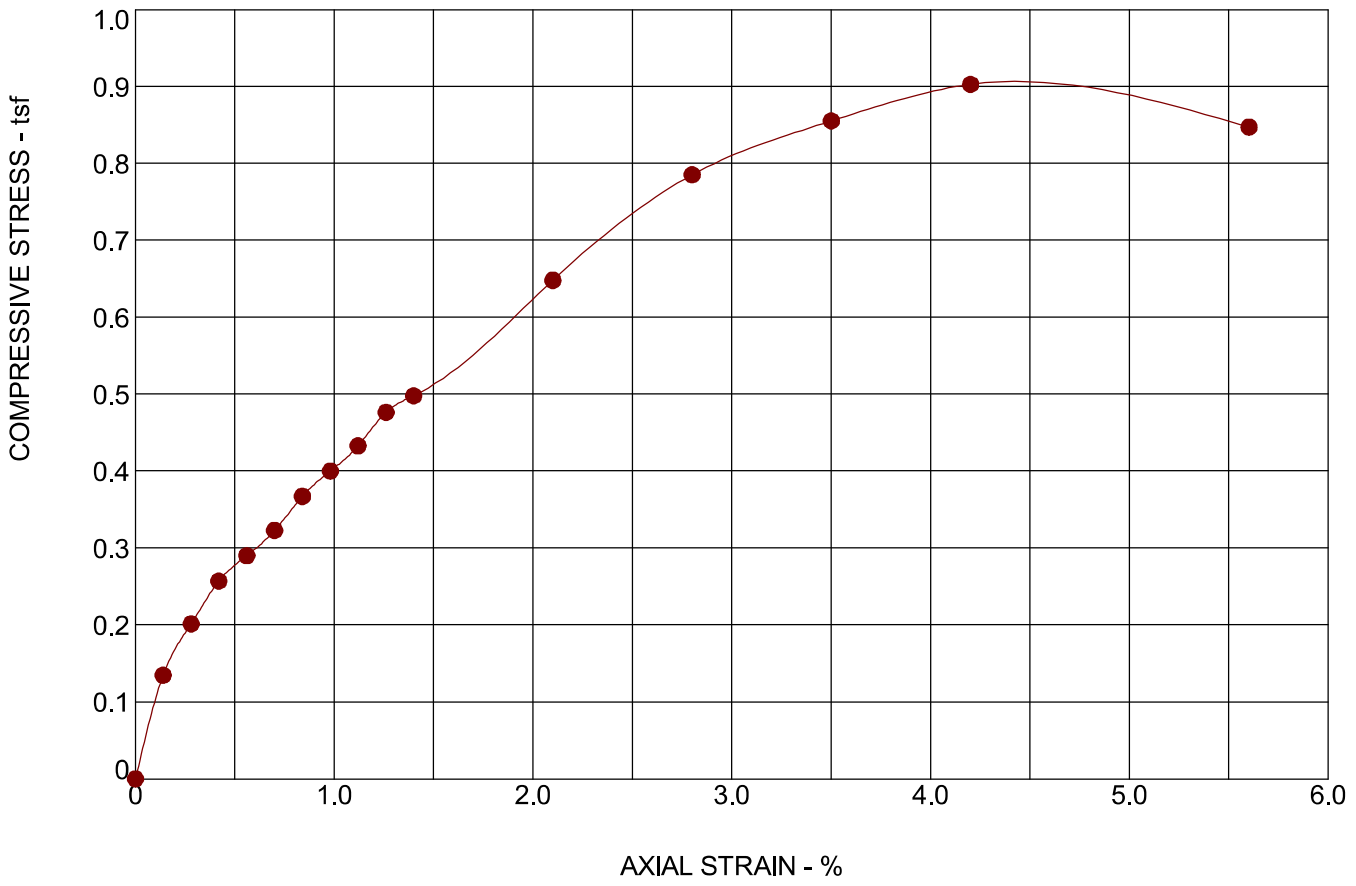
SAMPLE TYPE: Shelby Tube	SAMPLE LOCATION: B-15A @ 4 - 6 feet			
DESCRIPTION: Lean Clay	LL	PL	PI	Percent < #200 Sieve
	48	20	28	

PROJECT: Hoffman Solar Project	Terracon 13050 Eastgate Park Way Ste 101 Louisville, KY	PROJECT NUMBER: 57205066
SITE: Tyree Chapel Road Franklin, KY		CLIENT: Horus Renewables Corp Newton, MA

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. UNCONFINED WITH PHOTOS 57205066 PROPOSED HOFFMAN .GPJ 02195238 US 50 AND CHIPMAN.GPJ 1/28/21

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	23.2
	Dry Density:	pcf	98
	Diameter:	in.	2.86
	Height:	in.	5.60
	Height / Diameter Ratio:		1.96
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	4.20
	Unconfined Compressive Strength	(tsf)	0.90
	Undrained Shear Strength:	(tsf)	0.45
	Strain Rate:	in/min	0.0784
	Remarks:		

SAMPLE TYPE: Shelby Tube	SAMPLE LOCATION: B-16A @ 5 - 7 feet			
DESCRIPTION: Lean Clay	LL	PL	PI	Percent < #200 Sieve
	42	20	22	

PROJECT: Hoffman Solar Project

PROJECT NUMBER: 57205066

SITE: Tyree Chapel Road
Franklin, KY

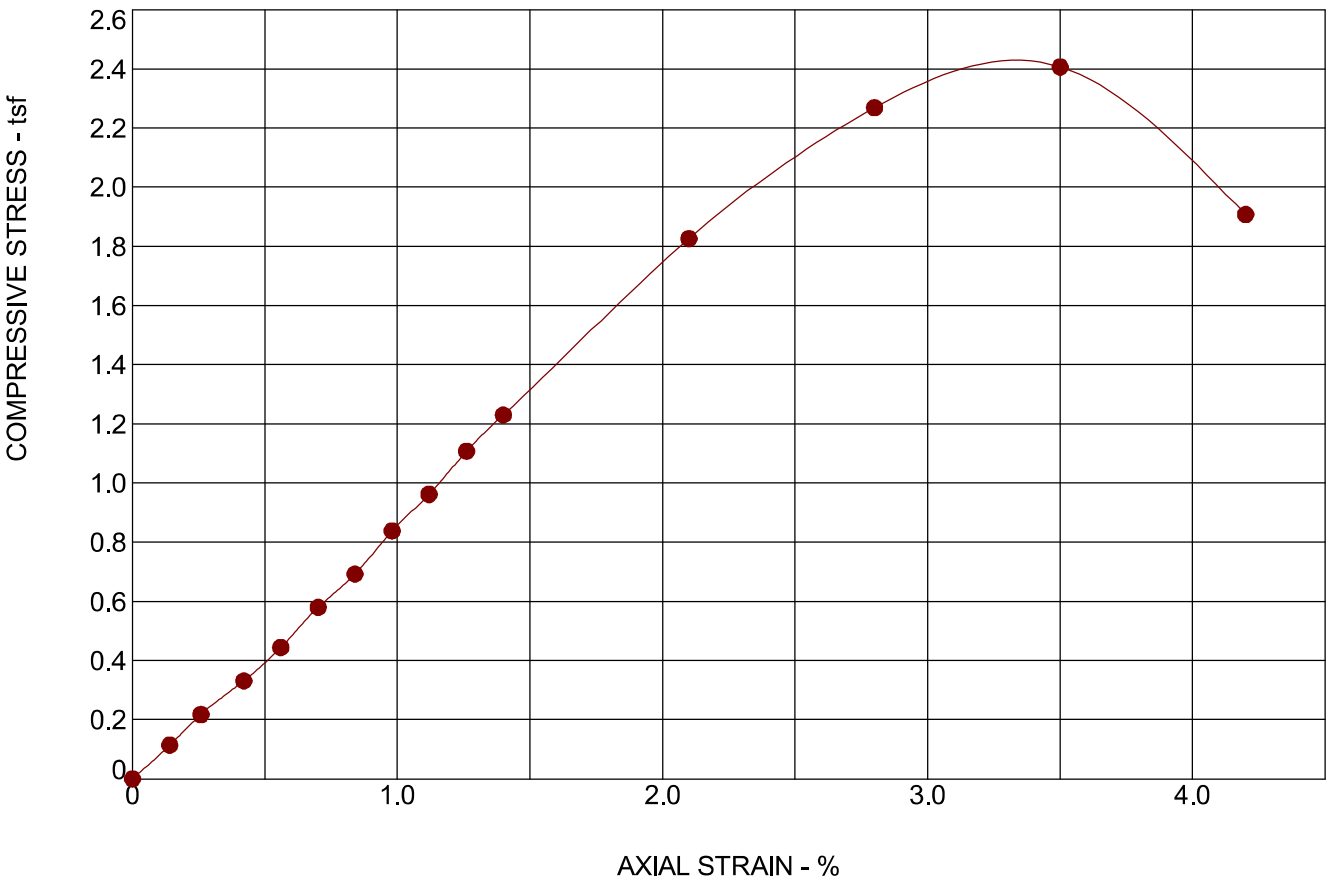
Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

CLIENT: Horus Renewables Corp
Newton, MA

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. UNCONFINED WITH PHOTOS 57205066 PROPOSED HOFFMAN .GPJ 02195238 US 50 AND CHIPMAN.GPJ 1/28/21

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	19.5
	Dry Density:	pcf	109
	Diameter:	in.	2.83
	Height:	in.	5.61
	Height / Diameter Ratio:		1.98
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	3.50
	Unconfined Compressive Strength	(tsf)	2.41
	Undrained Shear Strength:	(tsf)	1.20
	Strain Rate:	in/min	0.0785
	Remarks:		

SAMPLE TYPE: Shelby Tube

SAMPLE LOCATION: B-18A @ 3 - 5 feet

DESCRIPTION:

LL	PL	PI	Percent < #200 Sieve
29	19	10	

PROJECT: Hoffman Solar Project

PROJECT NUMBER: 57205066

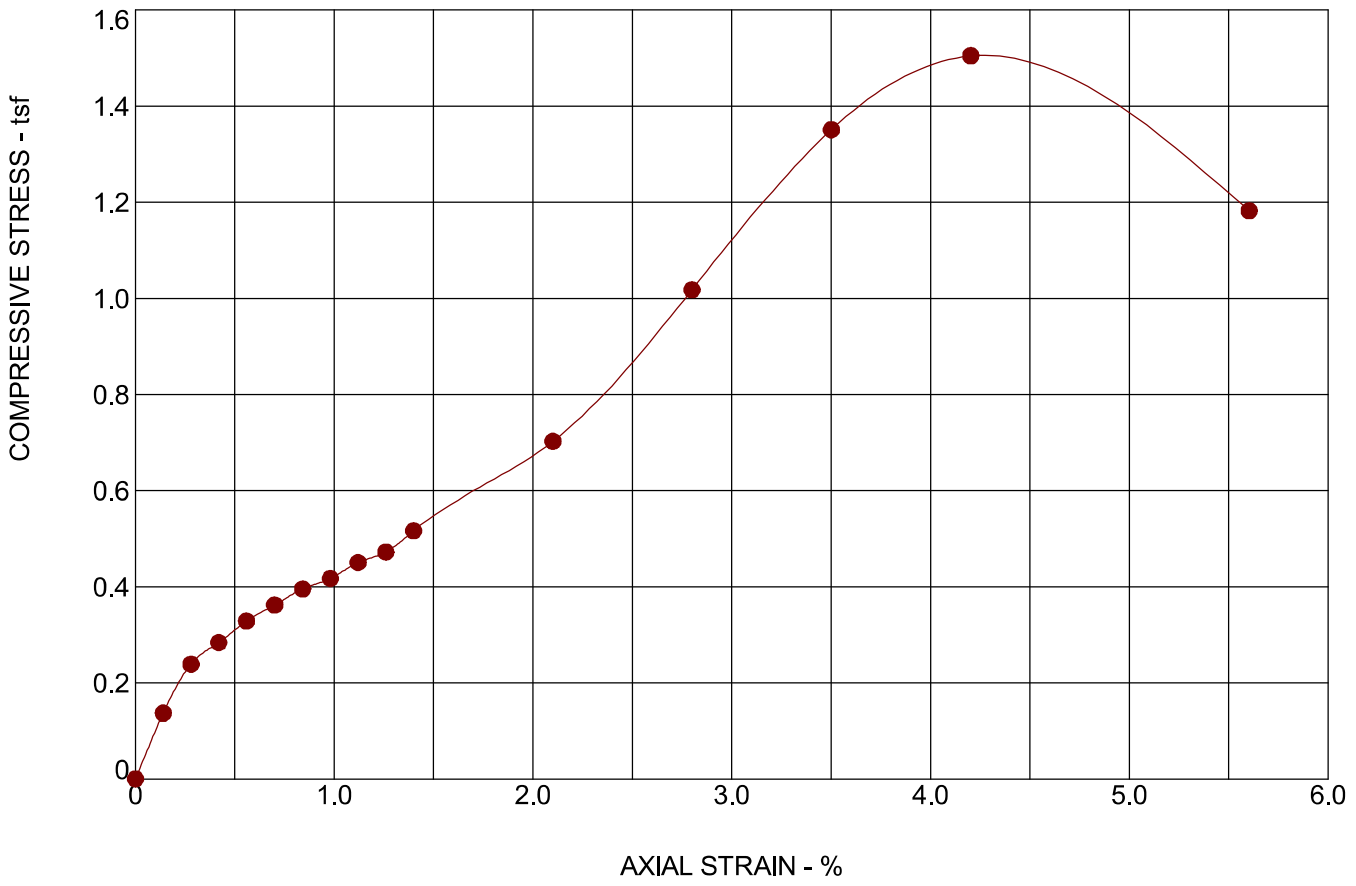
SITE: Tyree Chapel Road
Franklin, KY

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

CLIENT: Horus Renewables Corp
Newton, MA

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	26.1
	Dry Density:	pcf	95
	Diameter:	in.	2.84
	Height:	in.	5.58
	Height / Diameter Ratio:		1.97
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	4.20
	Unconfined Compressive Strength	(tsf)	1.50
	Undrained Shear Strength:	(tsf)	0.75
	Strain Rate:	in/min	0.0781
	Remarks:		

SAMPLE TYPE: Shelby Tube	SAMPLE LOCATION: B-21A @ 3 - 5 feet			
DESCRIPTION: Fat Clay	LL	PL	PI	Percent < #200 Sieve
	76	25	51	

PROJECT: Hoffman Solar Project

SITE: Tyree Chapel Road
Franklin, KY

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

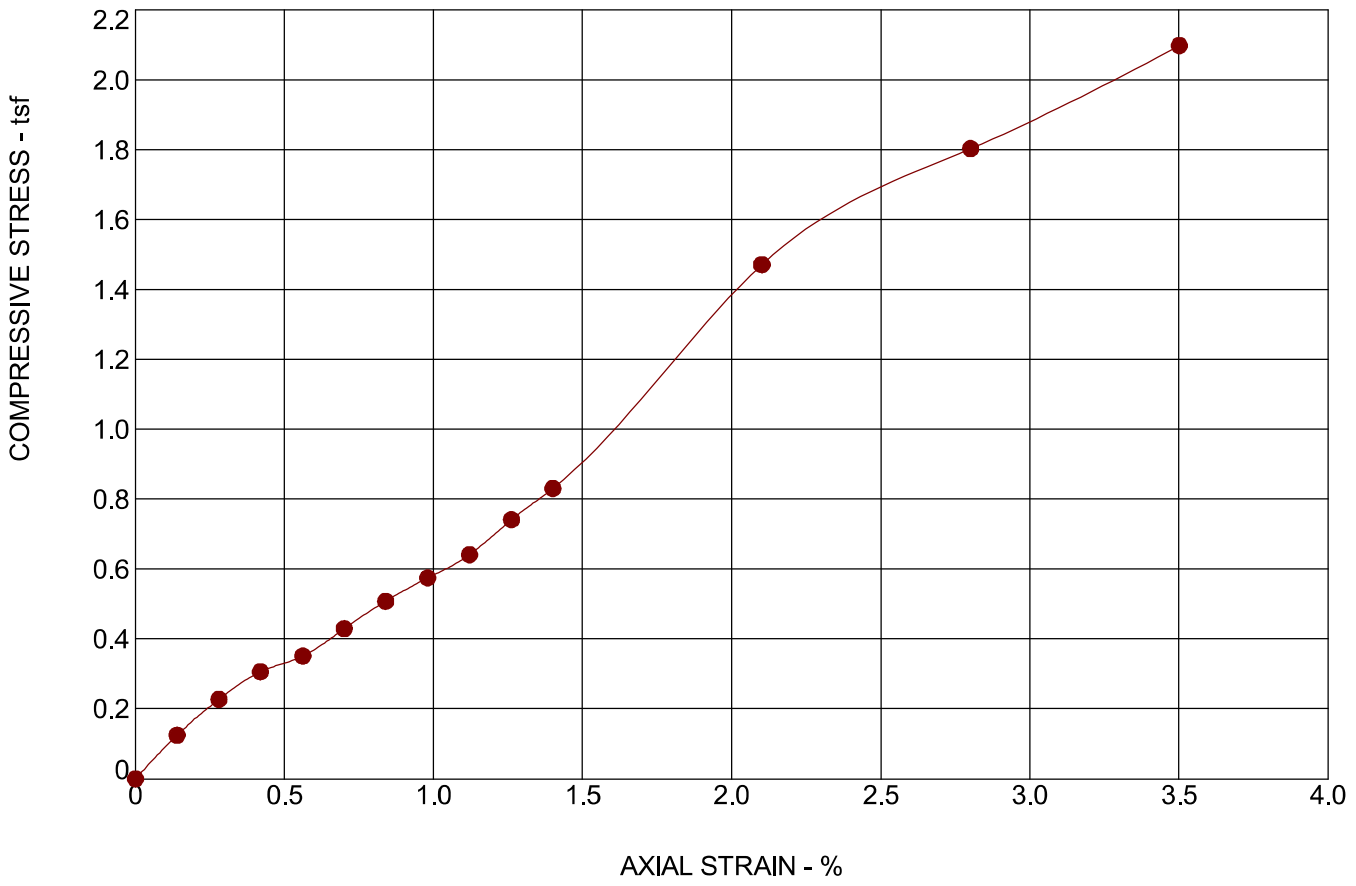
PROJECT NUMBER: 57205066

CLIENT: Horus Renewables Corp
Newton, MA

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. UNCONFINED WITH PHOTOS 57205066 PROPOSED HOFFMAN .GPJ 02195238 US 50 AND CHIPMAN.GPJ 1/28/21

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH

SPECIMEN TEST DATA

Moisture Content:	%	23.7
Dry Density:	pcf	97
Diameter:	in.	2.84
Height:	in.	5.60
Height / Diameter Ratio:		1.97
Calculated Saturation:	%	
Calculated Void Ratio:		
Assumed Specific Gravity:		
Failure Strain:	%	3.50
Unconfined Compressive Strength	(tsf)	2.10
Undrained Shear Strength:	(tsf)	1.05
Strain Rate:	in/min	0.0784
Remarks:		

SAMPLE TYPE: Shelby Tube

SAMPLE LOCATION: B-21A @ 11 - 13 feet

DESCRIPTION: Fat Clay

LL	PL	PI	Percent < #200 Sieve
64	24	40	

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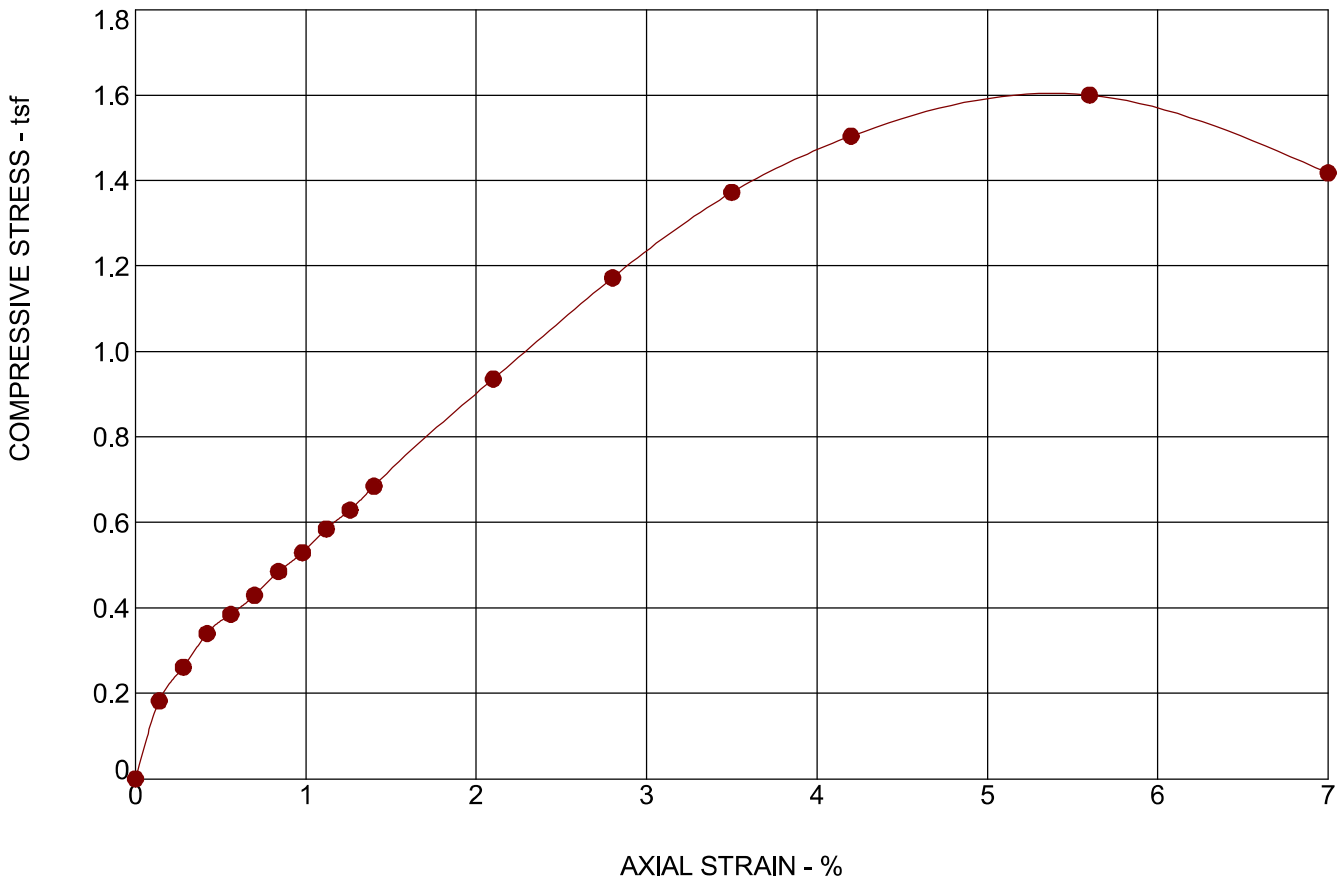
UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH	SPECIMEN TEST DATA		
	Moisture Content:	%	21.2
	Dry Density:	pcf	105
	Diameter:	in.	2.84
	Height:	in.	5.59
	Height / Diameter Ratio:		1.97
	Calculated Saturation:	%	
	Calculated Void Ratio:		
	Assumed Specific Gravity:		
	Failure Strain:	%	5.60
	Unconfined Compressive Strength	(tsf)	1.60
	Undrained Shear Strength:	(tsf)	0.80
	Strain Rate:	in/min	0.0783
	Remarks:		

SAMPLE TYPE: Shelby Tube

SAMPLE LOCATION: B-22A @ 3 - 5 feet

DESCRIPTION: Lean Clay

LL	PL	PI	Percent < #200 Sieve
40	21	19	

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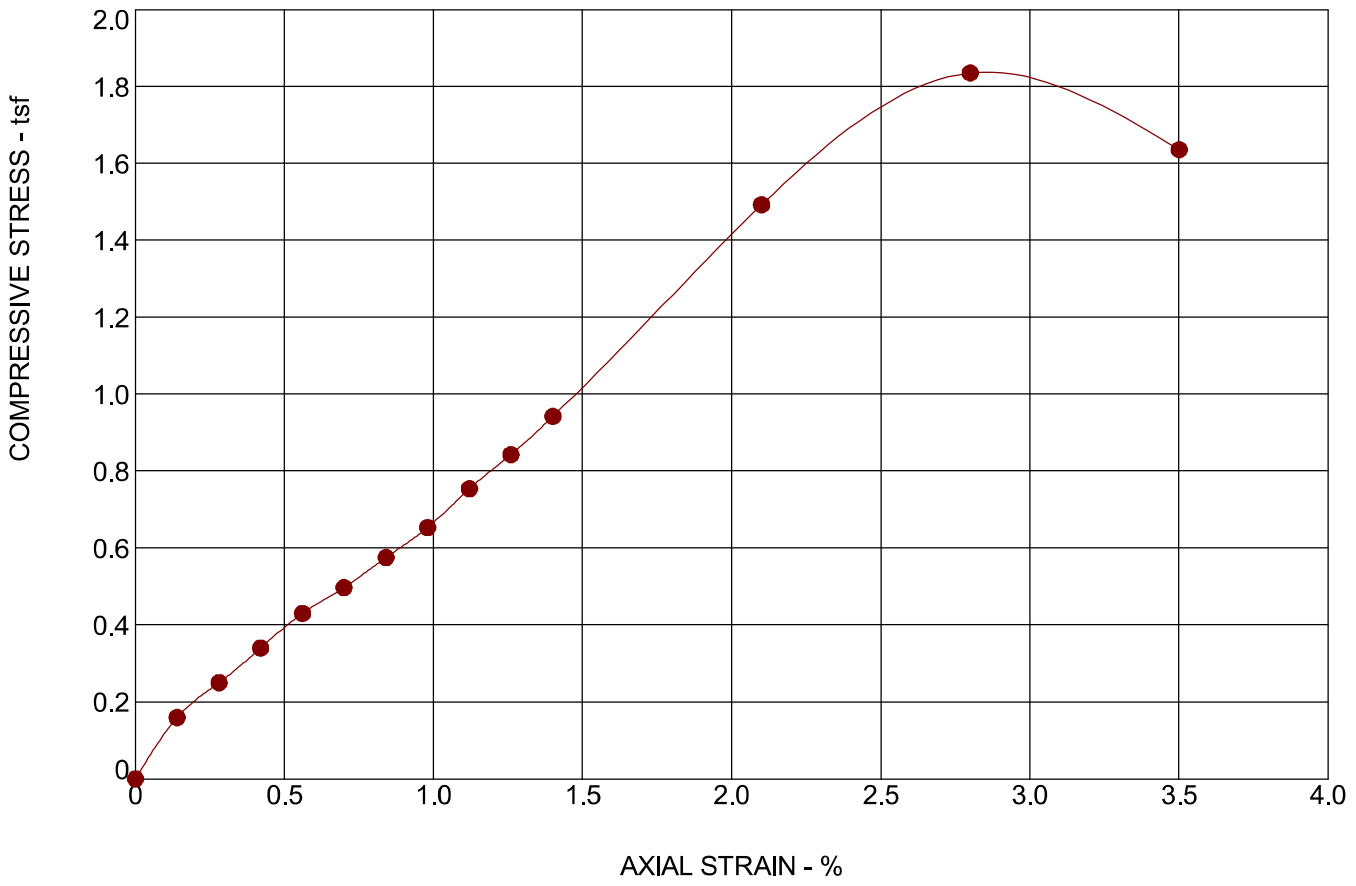
UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH

SPECIMEN TEST DATA

Moisture Content:	%	20.4
Dry Density:	pcf	102
Diameter:	in.	2.84
Height:	in.	5.59
Height / Diameter Ratio:		1.97
Calculated Saturation:	%	
Calculated Void Ratio:		
Assumed Specific Gravity:		
Failure Strain:	%	2.80
Unconfined Compressive Strength	(tsf)	1.84
Undrained Shear Strength:	(tsf)	0.92
Strain Rate:	in/min	0.0783
Remarks:		

SAMPLE TYPE: Shelby Tube

SAMPLE LOCATION: B-22A @ 11 - 13 feet

DESCRIPTION: Lean Clay

LL	PL	PI	Percent < #200 Sieve
44	21	23	

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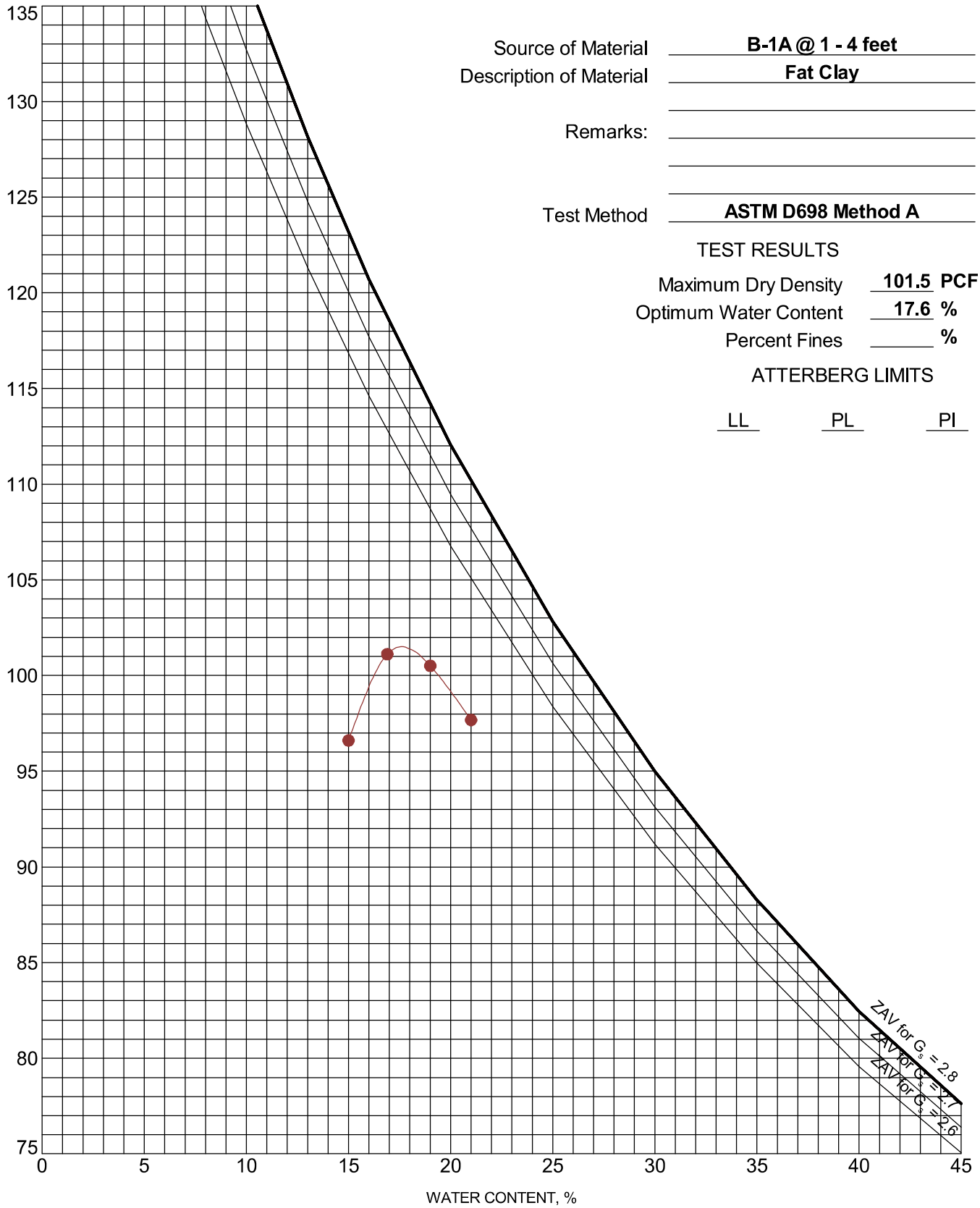
MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material: **B-1A @ 1 - 4 feet**

Description of Material: **Fat Clay**

Remarks:

Test Method: **ASTM D698 Method A**

TEST RESULTS

Maximum Dry Density	**101.5**	**PCF**
Optimum Water Content	**17.6**	**%**
Percent Fines		**%**

ATTERBERG LIMITS

LL	PL	PI

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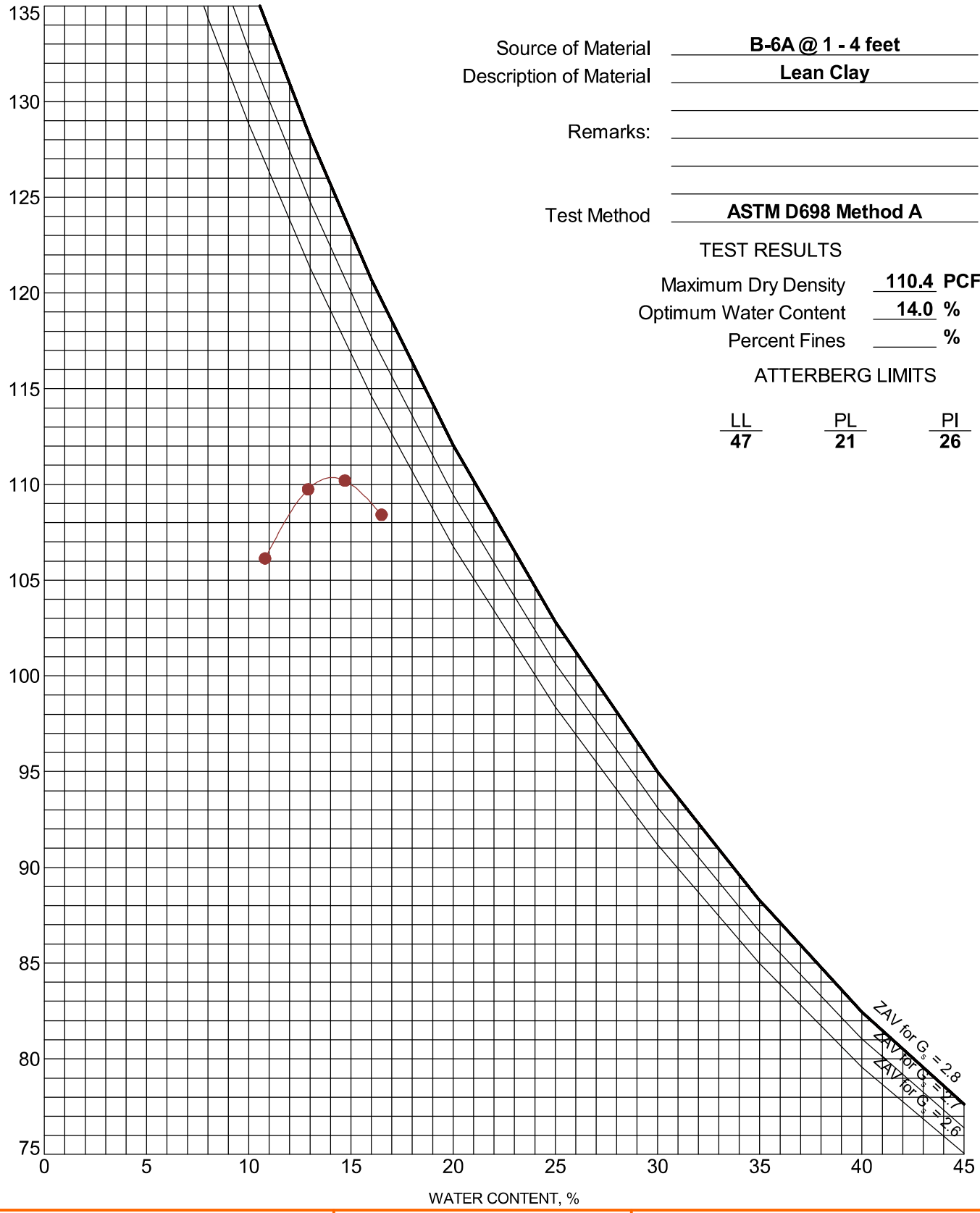
MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material: **B-6A @ 1 - 4 feet**

Description of Material: **Lean Clay**

Remarks:

Test Method: **ASTM D698 Method A**

TEST RESULTS

Maximum Dry Density	**110.4**	**PCF**
Optimum Water Content	**14.0**	**%**
Percent Fines		**%**

ATTERBERG LIMITS

LL	PL	PI
47	**21**	**26**

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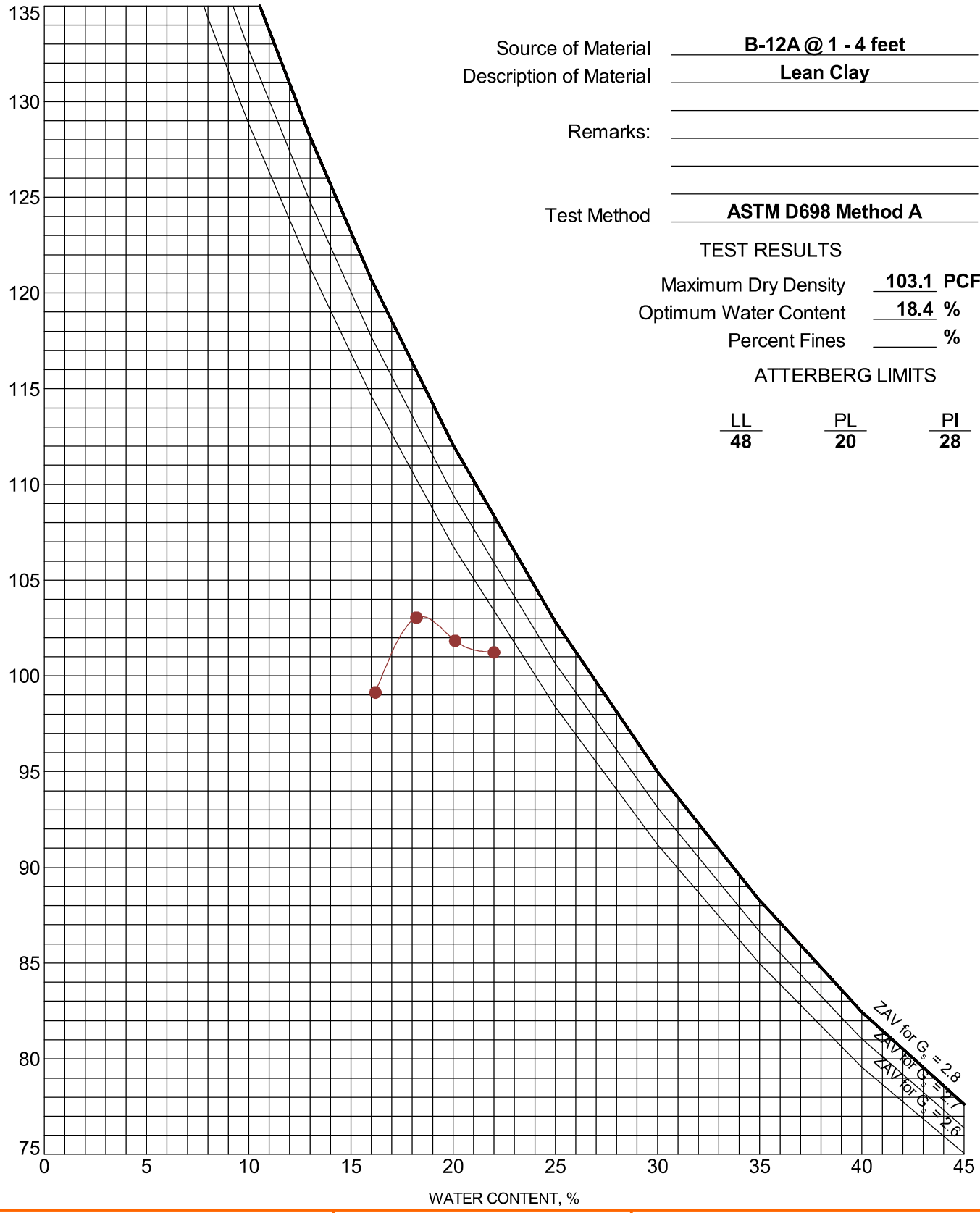
MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material	**B-12A @ 1 - 4 feet**
Description of Material	**Lean Clay**
Remarks:	
Test Method	**ASTM D698 Method A**

TEST RESULTS

Maximum Dry Density	**103.1**	**PCF**
Optimum Water Content	**18.4**	**%**
Percent Fines		**%**

ATTERBERG LIMITS

LL	PL	PI
48	**20**	**28**

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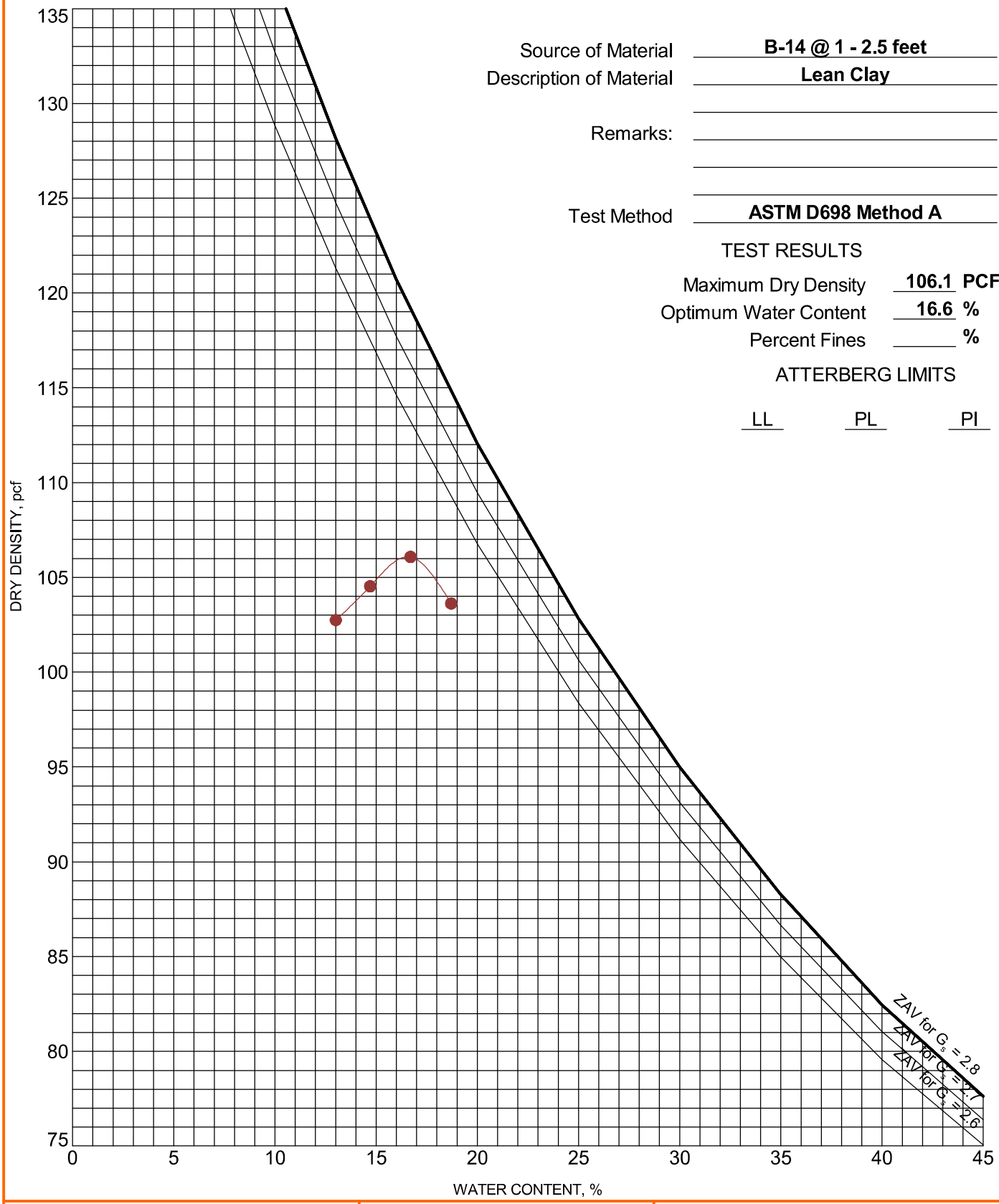
MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material: **B-14 @ 1 - 2.5 feet**

Description of Material: **Lean Clay**

Remarks:

Test Method: **ASTM D698 Method A**

TEST RESULTS

Maximum Dry Density	**106.1**	**PCF**
Optimum Water Content	**16.6**	**%**
Percent Fines		**%**

ATTERBERG LIMITS

LL	PL	PI

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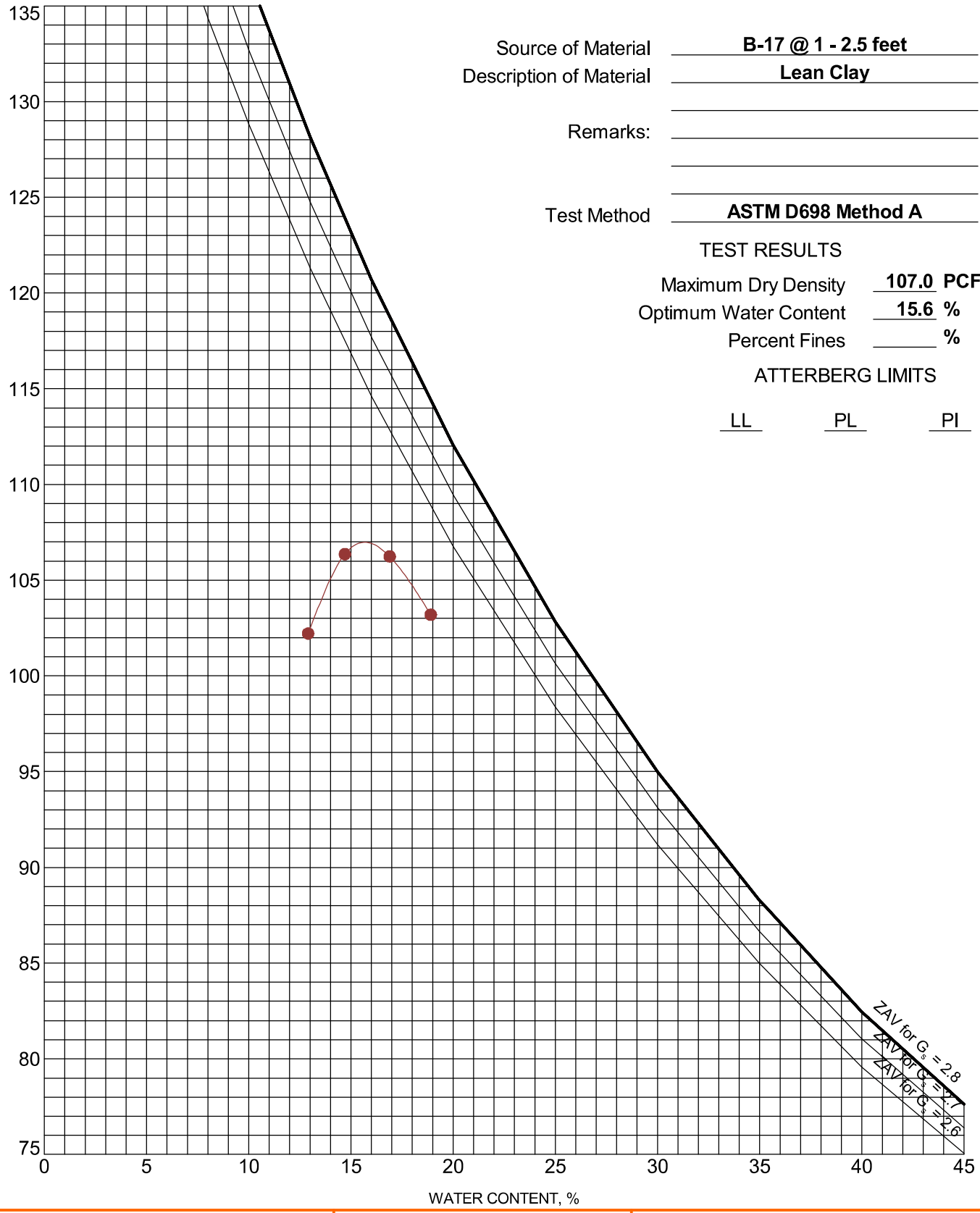
MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material	**B-17 @ 1 - 2.5 feet**
Description of Material	**Lean Clay**
Remarks:	
Test Method	**ASTM D698 Method A**

TEST RESULTS

Maximum Dry Density	**107.0**	**PCF**
Optimum Water Content	**15.6**	**%**
Percent Fines		**%**

ATTERBERG LIMITS

LL	PL	PI

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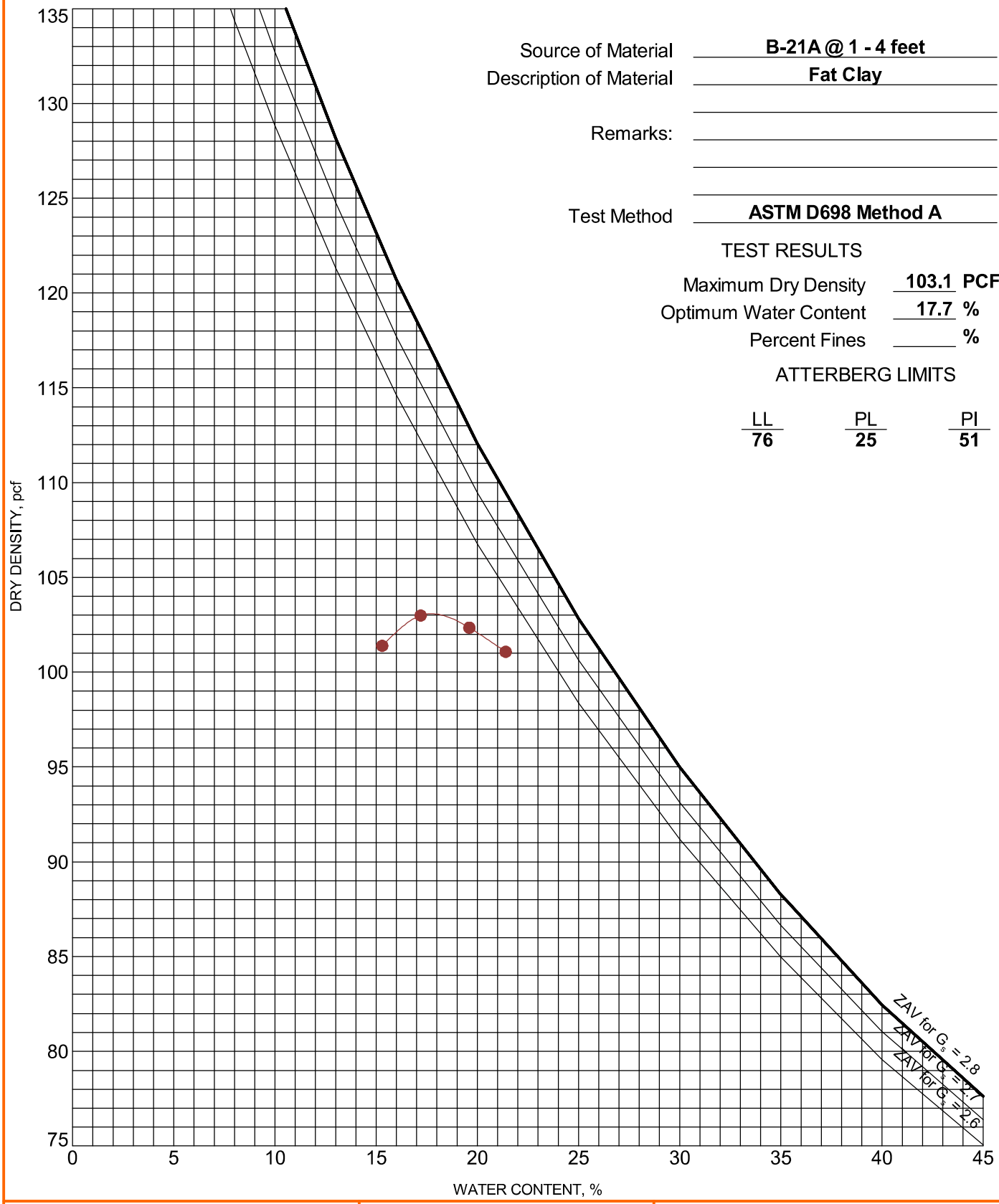
MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material: **B-21A @ 1 - 4 feet**

Description of Material: **Fat Clay**

Remarks:

Test Method: **ASTM D698 Method A**

TEST RESULTS

Maximum Dry Density	**103.1**	**PCF**
Optimum Water Content	**17.7**	**%**
Percent Fines		**%**

ATTERBERG LIMITS

LL	PL	PI
76	**25**	**51**

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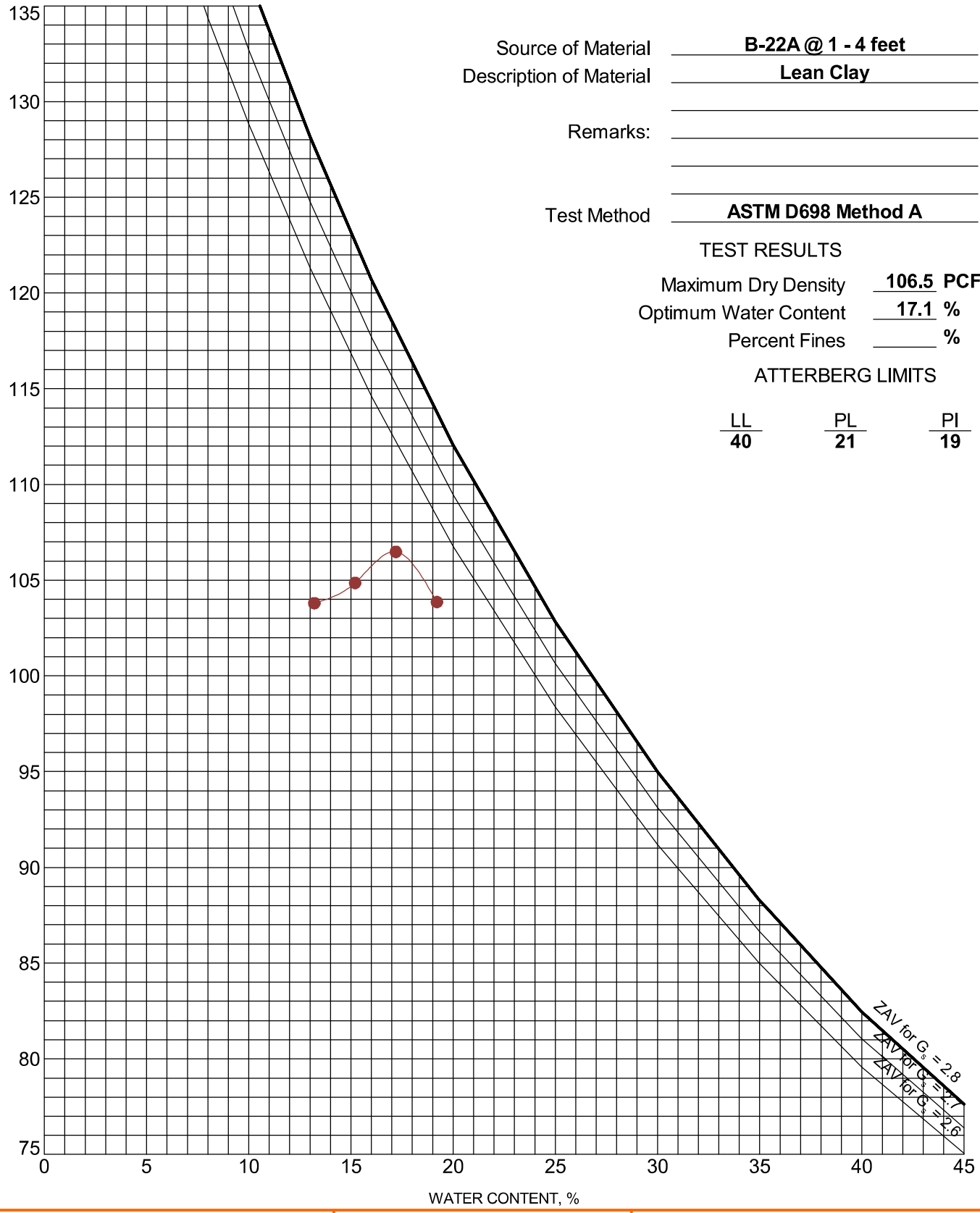
ASTM D698/D1557



Source of Material: **B-22A @ 1 - 4 feet**

Description of Material: **Lean Clay**

Remarks:

Test Method: **ASTM D698 Method A**

TEST RESULTS

Maximum Dry Density	**106.5**	**PCF**
Optimum Water Content	**17.1**	**%**
Percent Fines		**%**

ATTERBERG LIMITS

LL	PL	PI
40	**21**	**19**

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