Table A

Deep Foundation Recommendations

Table A - Deep Foundation Recommendations															
Material Type	Lpile/Mfad/Caisson Modeled Material Type	Depth (ft)		Consistency	LPile / MFAD			MFAD	Drilled Shafts(Lpile)			Active Earth Pressure Coefficient, K_a	Passive Earth Pressure Coefficient, K_p	Drilled Shafts	
		From	To	Design N-Value	Effective Unit Weight [pcf]	Friction Angle soil [°]	Cohesion [psf]	Deformation Modulus, Ed [ksi]	p-y Modulus, k (Static Loading) [lb/in^3]	p-y Modulus, k (Cyclic Loading) [lb/in^3]	Strain Factor, e50			Ultimate Skin Friction [ksf]	Ultimate End Bearing [ksf]
Clay (CL)	Stiff Clay w/o free water	0	2	8	105	-	1,000	0.62	-	-	*Default*	1.00	1.00	-	-
Clay (CL)	Stiff Clay w/o free water	2	5	18	110	-	2,500	1.50	-	-	*Default*	1.00	1.00	-	-
Clay (CL)	Stiff Clay w/o free water	5	20	26	114	-	3,000	1.80	-	-	*Default*	1.00	1.00	1.29	27.0
Clay (CL/CH)	Stiff Clay w/o free water	20	25	31	118	-	3,500	2.40	-	-	*Default*	1.00	1.00	1.51	31.5
Clay (CL/CH)	Stiff Clay w/o free water	25	30	45	120	-	4,000	3.50	-	-	*Default*	1.00	1.00	1.72	36.0
Clay (CL)	Stiff Clay with free water	30	40	48	58	-	2,500	3.40	-	-	*Default*	1.00	1.00	1.08	22.5

Notes:

1. A factor of safety of 3.0 and 2.0 is recommended for end bearing and skin friction capacities, respectively.
2. ANS Geo notes that the recommended safety factors provided area based on soil strength-limit conditions. Additional factor of safetys may be required to meet Serviceability (settlement) criteria.
3. Parameters assume that ground water is encountered at 30 feet below grade.
4. Skin friction should be neglected in the upper five (5) feet below grade.
5. Skin Friction and End Bearing Resistances assume a 24-inch diameter shaft is constructed. Larger diameter foundations may exhibit larger resistances.
6. Ultimate skin friction should be reduced by 10 percent (factor of 0.9) for uplift resistance evaluations.

Attachment A

Investigation Location Plan

ANS GEO

Client: PLUS POWER

INVESTIGATION LOCATION PLAN

PLUS POWER
MOUNTAIN PEAK BESS
PROJECT
MENTOR, KANSAS

Legend

- Project Boundary.kmz
- Borings
- Test Pits
- ERTs

0 225 450 ft

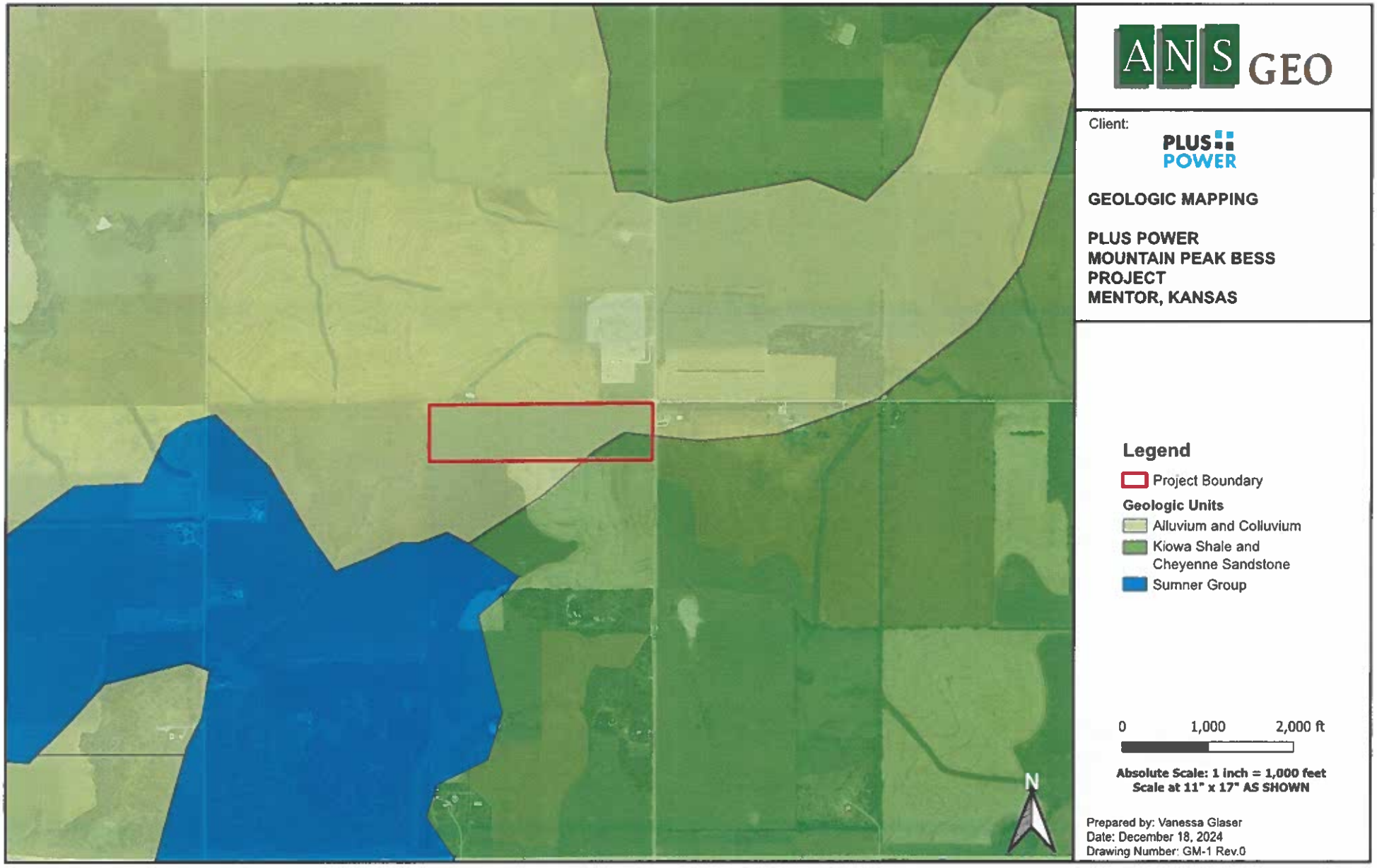
Absolute Scale: 1 inch = 225 feet
Scale at 11" x 17" AS SHOWN

Prepared by: Kyle Hansen
Date: December 23, 2024
Drawing Number: ILP-1 Rev.0

ANS GEO

Attachment B

Geological Map


ANS GEO
Client:
PLUS POWER
GEOLOGIC MAPPING
PLUS POWER
MOUNTAIN PEAK BESS
PROJECT
MENTOR, KANSAS
Legend
Project Boundary
Geologic Units
Alluvium and Colluvium
Kiowa Shale and
Cheyenne Sandstone
Sumner Group
N
0
1,000
2,000 ft
Absolute Scale: 1 inch = 1,000 feet
Scale at 11" x 17" AS SHOWN
Prepared by: Vanessa Glaser
Date: December 18, 2024
Drawing Number: GM-1 Rev.0

Attachment C

Soil Boring Logs

Soil Boring Log

B-01

ANS GEO

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.725144 N, -97.542459 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/19/24 02:00 PM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/19/24 05:00 PM	**Vert. Datum:**	N/A

Rig Model:	Acker Rebel	**Sampler Type:**	Split Spoon	**Casing Type:**	HSA
Rig Type:	Track	**Sampler Length:**	24 inches	**Casing Length:**	5 feet
Drill Method:	Hollow Stem Auger	**Sampler I.D.:**	1.375 inches	**Casing I.D.:**	3.75 inches
Hammer Type:	Automatic	**Hammer Wt.:**	140 pounds	**Hammer Wt.:**	N/A
Drilling Fluid:	None	**Hammer Fall:**	30 inches	**Hammer Fall:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	Drilling & Strata Notes
0	S-1	24	0 0 3 5	3	CL		Top 2": TOPSOIL Medium stiff, dark brown CLAY, little Silt, moist (CL)	M	M	2.8	0.05	
	S-2	18	5 12 18 20	30			Hard, dark brown CLAY, little Silt, trace coarse to fine Gravel, moist (CL)	H	M	>4.5	0.35	
5	S-3	16	6 10 13 16	23			Very stiff, brown CLAY, little Silt, trace coarse to fine Gravel, dry (CL)	H	M	>4.5	0.35	Mottling observed.
	S-4	16	4 8 6 15	14			Stiff, brown CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.30	Mottling observed. Black spots.
	S-5	22	4 8 13 16	21			Very stiff, brown to yellowish red CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.32	Mottling observed. Black spots.
10												
	S-6	8	4 6 13 16	19			Very stiff, brown to yellowish red CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.30	Mottling observed. Black spots.
15												
	S-7	24	4 7 11 13	18			Very stiff, brown CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.30	Mottling observed. Black spots.
20												
	S-8	24	5 9 13 13	22			Very stiff, brownish yellow to gray CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.30	Mottling observed.

N-Value: 10 20 30 40

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▽ = AD Water Level (After Drilling - Short Term)
▽ = EOD Water Level (End of Drilling - Long Term)

ANS GEO

Soil Boring Log

B-01
(Continued)

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.725144 N, -97.542459 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/19/24 02:00 PM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/19/24 05:00 PM	**Vert. Datum:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	N-Value (10 20 30 40)	Drilling & Strata Notes
30	S-9	20	16 35 50/3"	> 50	CL		Hard, brown CLAY, trace coarse to fine Gravel, trace medium to fine Sand, trace Silt, moist (CL)	H	M	>4.5	0.35	>>	Mottling observed.
35	S-10	18	20 30 50/6"	> 50			Hard, gray to light brown CLAY, trace coarse to fine Gravel, trace Silt, dry (CL)	H	M	>4.5	0.30	>>	
40	S-11	6	25 50/2"	> 50			Hard, gray CLAY, trace medium to fine Sand, trace Silt, dry (CL) End of Boring at 38.6' BGS. Borehole backfilled with soil cuttings.	M	M	>4.5	0.32	>>	
45													
50													

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▽ = AD Water Level (After Drilling - Short Term)
▽ = EOD Water Level (End of Drilling - Long Term)

Soil Boring Log

B-02

ANS GEO

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.72489 N, -97.54245 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/19/24 10:50 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/19/24 01:30 PM	**Vert. Datum:**	N/A

Rig Model:	Acker Rebel	**Sampler Type:**	Split Spoon	**Casing Type:**	HSA
Rig Type:	Track	**Sampler Length:**	24 inches	**Casing Length:**	5 feet
Drill Method:	Hollow Stem Auger	**Sampler I.D.:**	1.375 inches	**Casing I.D.:**	3.75 inches
Hammer Type:	Automatic	**Hammer Wt.:**	140 pounds	**Hammer Wt.:**	N/A
Drilling Fluid:	None	**Hammer Fall:**	30 inches	**Hammer Fall:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	Drilling & Strata Notes
							Top 2": TOPSOIL					
	S-1	24	3 6 9 6	15			Stiff, dark brown CLAY, little Silt, moist (CL)	M	M	3.8	.05	
	S-2	18	3 8 11 15	19			Very stiff, dark brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.25	
5	S-3	16	8 11 13 14	24			Very stiff, brown to light brown CLAY, some medium to fine Sand, little Silt, moist (CL)	H	M	>4.5		Mottling observed.
	S-4	20	6 12 19 25	31			Very stiff, brown to light brown CLAY, some medium to fine Sand, little Silt, moist (CL)	H	M	>4.5	0.30	Mottling observed.
	S-5	22	6 12 20 28	32			Very stiff, brown CLAY, little Silt, trace medium to fine Sand, moist (CL)	H	M	>4.5	0.32	Mottling observed.
10					CL							
	S-6	24	4 9 12 16	21			Very stiff, brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed. Black spots.
15												
	S-7	24	4 8 10 13	18			Very stiff, brown CLAY, little Silt, trace coarse to fine Gravel, moist (CL)	M	M	>4.5	0.45	Mottling observed. Black spots.
20												
	S-8	24	4 8 13 14	21			Very stiff, brown CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.30	Mottling observed.

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

= ATD Water Level (At Time of Drilling)
= AD Water Level (After Drilling - Short Term)
= EOD Water Level (End of Drilling - Long Term)

ANS GEO

Soil Boring Log

B-02
(Continued)

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.72489 N, -97.54245 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/19/24 10:50 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/19/24 01:30 PM	**Vert. Datum:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	N-Value 10 20 30 40	Drilling & Strata Notes
30	S-9	24	7 14 28 36	42	CL		Hard, brown CLAY, trace Silt, moist (CL)	H	M	>4.5	0.35		
35	S-10	18	17 31 50/6"	> 50			Hard, brown CLAY, some Silt, moist (CL)	H	M	>4.5		>>	
40	S-11	10	18 50/4"	> 50			Hard, gray CLAY, trace coarse to fine Gravel, trace Silt, moist (CL) End of Boring at 38.8' BGS. Borehole backfilled with soil cuttings.	H	M	>4.5		>>	
45													
50													

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▽ = AD Water Level (After Drilling - Short Term)
▽ = EOD Water Level (End of Drilling - Long Term)

ANS GEO

Soil Boring Log

B-03

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.72507 N, -97.543984 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/20/24 11:20 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/20/24 01:30 PM	**Vert. Datum:**	N/A

Rig Model:	Acker Rebel	**Sampler Type:**	Split Spoon	**Casing Type:**	HSA
Rig Type:	Track	**Sampler Length:**	24 inches	**Casing Length:**	5 feet
Drill Method:	Hollow Stem Auger	**Sampler I.D.:**	1.375 inches	**Casing I.D.:**	3.75 inches
Hammer Type:	Automatic	**Hammer Wt.:**	140 pounds	**Hammer Wt.:**	N/A
Drilling Fluid:	None	**Hammer Fall:**	30 inches	**Hammer Fall:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	Drilling & Strata Notes
							Top 3": TOPSOIL					
	S-1	14	2 4 5 9	9			Stiff, dark brown CLAY, little Silt, moist (CL)	M	M	4.0	0.35	
	S-2	16	1 4 8 12	12			Stiff, dark brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.38	
5	S-3	14	5 9 13 15	22			Very stiff, dark brown CLAY, little Silt, trace organics, moist (CL)	M	M	>4.5	0.30	
	S-4	18	3 7 9 12	16			Very stiff, brown CLAY, little Silt, moist (CL)	H	M	>4.5	0.35	
	S-5	12	3 5 8 10	13			Stiff, light brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed.
10					CL							
	S-6	24	4 8 12 13	20			Very stiff, brown CLAY, some Silt, moist (CL)	M	M	>4.5	0.32	Mottling observed. Black spots.
15												
	S-7	24	4 7 11 14	18			Very stiff, brown CLAY, little medium to fine Sand, little Silt, trace Gravel, moist (CL)	M	M	>4.5	0.30	Mottling observed. Black spots.
20												
	S-8	24	3 7 10 13	17			Very stiff, brown CLAY, little medium to fine Sand, little Silt, trace Gravel, moist (CL)	M	M	>4.5	0.30	Mottling observed. Black spots.

N-Value: 10 20 30 40

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▼ = AD Water Level (After Drilling - Short Term)
▼ = EOD Water Level (End of Drilling - Long Term)

ANS GEO

Soil Boring Log

B-03
(Continued)

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.72507 N, -97.543984 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/20/24 11:20 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/20/24 01:30 PM	**Vert. Datum:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	N-Value (10 20 30 40)	Drilling & Strata Notes
30	S-9	15	14 35 50/3"	> 50	CL		Hard, gray CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.38	>>	30
35	S-10	10	25 50/4"	> 50			Hard, gray CLAY, some Silt, moist (CL)	M	M	>4.5	0.30	>>	35
40	S-11	12	17 50/6"	> 50			Hard, gray CLAY, some Silt, moist (CL) End of Boring at 39' BGS. Borehole backfilled with soil cuttings.	M	M	>4.5	0.30	>>	40
45													45
50													50

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▼ = AD Water Level (After Drilling - Short Term)
▼ = EOD Water Level (End of Drilling - Long Term)

Soil Boring Log

B-04

ANS GEO

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.72427 N, -97.543576 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/20/24 07:50 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/20/24 10:30 AM	**Vert. Datum:**	N/A

Rig Model:	Acker Rebel	**Sampler Type:**	Split Spoon	**Casing Type:**	HSA
Rig Type:	Track	**Sampler Length:**	24 inches	**Casing Length:**	5 feet
Drill Method:	Hollow Stem Auger	**Sampler I.D.:**	1.375 inches	**Casing I.D.:**	3.75 inches
Hammer Type:	Automatic	**Hammer Wt.:**	140 pounds	**Hammer Wt.:**	N/A
Drilling Fluid:	None	**Hammer Fall:**	30 inches	**Hammer Fall:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	Drilling & Strata Notes
							Top 2": TOPSOIL					
	S-1	10	4 9 10 6	19			Very stiff, dark brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.20	
	S-2	16	3 8 12 10	20			Very stiff, dark brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.22	
5	S-3	18	4 8 11 13	19			Very stiff, brownish yellow to gray CLAY, little Silt, trace Gravel, moist (CL)	M	M	>4.5	0.20	Mottling observed. Black spots.
	S-4	24	4 8 13 14	21			Very stiff, light brown CLAY, little medium to fine Sand, little Silt, trace Gravel, moist (CL)	M	M	>4.5	0.25	Mottling observed.
	S-5	22	3 8 19 20	27			Very stiff, light brown CLAY, some Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed.
10					CL							
	S-6	23	13 16 25 26	41			Hard, gray to brownish yellow CLAY, some Silt, trace Gravel, moist (CL)	M	M	>4.5	0.35	Mottling observed.
15												
	S-7	20	14 13 15 18	28			Very stiff, gray to brownish yellow CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.32	Mottling observed.
20												
	S-8	24	4 8 15 15	23			Very stiff, gray to brownish yellow CLAY, little Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed.

N-Value: 10 20 30 40

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▼ = AD Water Level (After Drilling - Short Term)
▼ = EOD Water Level (End of Drilling - Long Term)

ANS GEO

Soil Boring Log

B-04
(Continued)

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.72427 N, -97.543576 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/20/24 07:50 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/20/24 10:30 AM	**Vert. Datum:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	N-Value (10 20 30 40)	Drilling & Strata Notes
30	S-9	18	14 23 50/6"	> 50	CL		Hard, brown CLAY, little Silt, trace medium to fine Sand, moist (CL)	H	M	>4.5	0.40	>>	30
35	S-10	9	19 50/3"	> 50			Hard, gray CLAY, some Silt, moist (CL)	M	M	>4.5	0.20	>>	35
40	S-11	12	16 50/6"	> 50			Hard, reddish brown to brown CLAY, some Silt, dry (CL) End of Boring at 39' BGS. Borehole backfilled with soil cuttings.	M	M	>4.5	0.20	>>	40
45													45
50													50

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

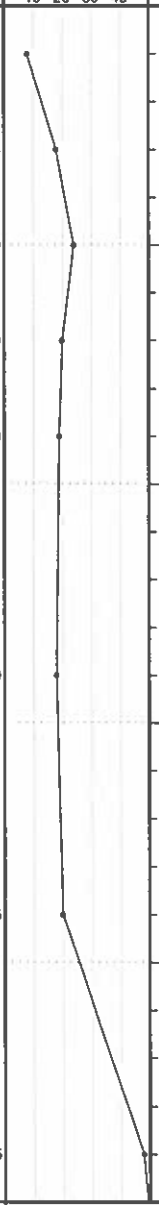
▽ = ATD Water Level (At Time of Drilling)
▽ = AD Water Level (After Drilling - Short Term)
▽ = EOD Water Level (End of Drilling - Long Term)

Soil Boring Log

B-05

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.724666 N, -97.544723 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/20/24 02:00 PM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/20/24 04:05 PM	**Vert. Datum:**	N/A
Rig Model:	Acker Rebel	**Sampler Type:**	Split Spoon	**Casing Type:**	HSA
Rig Type:	Track	**Sampler Length:**	24 inches	**Casing Length:**	5 feet
Drill Method:	Hollow Stem Auger	**Sampler I.D.:**	1.375 inches	**Casing I.D.:**	3.75 inches
Hammer Type:	Automatic	**Hammer Wt.:**	140 pounds	**Hammer Wt.:**	N/A
Drilling Fluid:	None	**Hammer Fall:**	30 inches	**Hammer Fall:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	Drilling & Strata Notes
							Top 2": TOPSOIL					
	S-1	18	0 3 5 7	8			Medium stiff, dark brown CLAY, little Silt, moist (CL)	M	M	3.2	0.15	
	S-2	16	2 6 12 16	18			Very stiff, dark brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.25	
5	S-3	14	6 10 14 15	24			Very stiff, brown to yellowish red CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.30	
	S-4	18	5 10 10 12	20			Very stiff, brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed. White spots.
	S-5	20	3 7 12 16	19			Very stiff, brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed.
10					CL							
	S-6	24	4 7 11 14	18			Very stiff, light brown CLAY, little Silt, trace Gravel, moist (CL)	M	M	>4.5	0.30	Mottling observed.
15												
	S-7	24	3 8 12 14	20			Very stiff, gray to yellowish red CLAY, little Silt, trace Gravel, moist (CL)	M	M	>4.5	0.25	Mottling observed.
20												
	S-8	24	9 18 30 41	48			Hard, brown CLAY, little Silt, trace coarse to fine Sand, moist (CL)	M	M	>4.5	0.35	



In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▼ = AD Water Level (After Drilling - Short Term)
▼ = EOD Water Level (End of Drilling - Long Term)

Soil Boring Log

B-05
(Continued)

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.724666 N, -97.544723 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/20/24 02:00 PM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/20/24 04:05 PM	**Vert. Datum:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	N-Value 10 20 30 40	Drilling & Strata Notes
30	S-9	19	17 30 50/5"	> 50	CL		Hard, brown to dark gray CLAY, little Silt, moist (CL)	H	M	>4.5	0.30	>>	30
35	S-10	11	15 50/5"	> 50			Hard, brown to dark gray CLAY, little Silt, moist (CL)	M	M	>4.5	0.35	>>	Mottling observed. 35
40	S-11	3	50/3"	> 50			Hard, brown to dark gray CLAY, little Silt, trace Gravel, trace medium to fine Sand, moist (CL) End of Boring at 38.25' BGS. Borehole backfilled with soil cuttings.	M	M	>4.5	0.30	>>	40
45													45
50													50

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▼ = AD Water Level (After Drilling - Short Term)
▼ = EOD Water Level (End of Drilling - Long Term)

ANS GEO

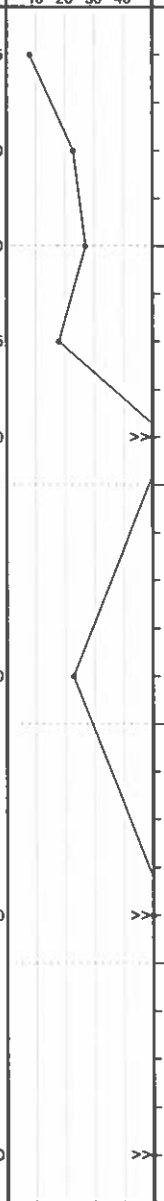
Soil Boring Log

B-06

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.724296 N, -97.54592 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/21/24 09:15 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/21/24 12:00 PM	**Vert. Datum:**	N/A

Rig Model:	Acker Rebel	**Sampler Type:**	Split Spoon	**Casing Type:**	HSA
Rig Type:	Track	**Sampler Length:**	24 inches	**Casing Length:**	5 feet
Drill Method:	Hollow Stem Auger	**Sampler I.D.:**	1.375 inches	**Casing I.D.:**	3.75 inches
Hammer Type:	Automatic	**Hammer Wt.:**	140 pounds	**Hammer Wt.:**	N/A
Drilling Fluid:	None	**Hammer Fall:**	30 inches	**Hammer Fall:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	Drilling & Strata Notes
						Top 2": TOPSOIL					
	S-1	12	1 3 5 5	8	CL	Medium stiff, dark brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.25	
	S-2	20	4 8 15 20	23		Very stiff, brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed.
5	S-3	20	6 13 14 15	27		Very stiff, brown CLAY, little Silt, trace Gravel, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.30	Mottling observed.
	S-4	16	3 8 10 12	18		Very stiff, brown CLAY, little Silt, trace Gravel, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.25	Mottling observed. Black spots.
	S-5	18	12 29 50/6"	> 50	ML	Hard, light gray Sandy SILT, trace Clay, moist (ML)	L	L	>4.5	0.20	Mottling observed.
10											
	S-6	24	4 9 14 18	23	CL	Very stiff, gray to brownish yellow CLAY, little Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed.
15											
	S-7	18	6 16 50/6"	> 50		Hard, light brown to gray CLAY, little Silt, trace Gravel, moist (CL)	H	M	>4.5	0.30	Mottling observed.
20											
	S-8	15	20 30 50/3"	> 50		Hard, brown CLAY, little Silt, trace medium to fine Sand, moist (CL)	H	M	>4.5	0.30	Mottling observed.



In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▼ = AD Water Level (After Drilling - Short Term)
▼ = EOD Water Level (End of Drilling - Long Term)

ANS GEO

Soil Boring Log

B-06
(Continued)

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.724296 N, -97.54592 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/21/24 09:15 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/21/24 12:00 PM	**Vert. Datum:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	N-Value 10 20 30 40	Drilling & Strata Notes
30	S-9	12	20 50/6"	> 50	CL		Hard, gray CLAY, some Silt, moist (CL)	M	M	>4.5	0.32	>>	30
35	S-10	10	15 50/4"	> 50			Hard, gray CLAY, little Silt, moist (CL)	H	M	>4.5	0.35	>>	35
40	S-11	6	50/6"	> 50			Hard, gray CLAY, some Silt, moist (CL) End of Boring 38.5' BGS. Borehole backfilled with soil cuttings.	M	M	>4.5	0.30	>>	40
45													45
50													50

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▼ = AD Water Level (After Drilling - Short Term)
▼ = EOD Water Level (End of Drilling - Long Term)

Soil Boring Log

B-07

ANS GEO

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.725076 N, -97.545979 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/21/24 12:30 PM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/21/24 04:00 PM	**Vert. Datum:**	N/A
Rig Model:	Acker Rebel	**Sampler Type:**	Split Spoon	**Casing Type:**	HSA
Rig Type:	Track	**Sampler Length:**	24 inches	**Casing Length:**	5 feet
Drill Method:	Hollow Stem Auger	**Sampler I.D.:**	1.375 inches	**Casing I.D.:**	3.75 inches
Hammer Type:	Automatic	**Hammer Wt.:**	140 pounds	**Hammer Wt.:**	N/A
Drilling Fluid:	None	**Hammer Fall:**	30 inches	**Hammer Fall:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	Drilling & Strata Notes
						Top 3": TOPSOIL					
	S-1	24	0 2 9 12	11	CL	Stiff, brown CLAY, little Silt, moist (CL)	M	M	4.0	0.28	
	S-2	12	6 13 20 14	33		Hard, brown CLAY, little Silt, trace Gravel, moist (CL)	M	M	>4.5	0.30	Mottling observed.
5	S-3	15	6 15 50/3"	> 50	ML	Hard, brownish yellow to light brown Sandy SILT, trace Clay, moist (ML)	L	L	>4.5	0.20	
	S-4	22	15 22 30 28	> 50		Hard, brownish yellow to light brown Sandy SILT, trace Clay, moist (ML)	L	L	>4.5	0.25	
	S-5	24	6 15 33 38	48	CL	Hard, light brown to light gray CLAY, little Silt, trace fine Sand, moist (CL)	M	M	>4.5	0.20	
10											
	S-6	24	4 10 13 16	23		Very stiff, gray CLAY, trace Silt, moist (CL)	M	M	>4.5	0.40	Mottling observed.
15											
	S-7	24	7 10 15 18	25		Very stiff, light brown to light gray CLAY, little Silt, moist (CL)	M	M	>4.5	0.30	Mottling observed.
20											
	S-8	24	15 29 40 50/3"	> 50		Hard, brown CLAY, little Silt, trace coarse to fine Sand, moist (CL)	H	M	>4.5	0.40	Mottling observed.

N-Value: 10 20 30 40

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)
11/21/24 02:00 PM	ATD			30

General Notes

BGS = Below Ground Surface

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▽ = AD Water Level (After Drilling - Short Term)
▽ = EOD Water Level (End of Drilling - Long Term)

ANS GEO

Soil Boring Log

B-07
(Continued)

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.725076 N, -97.545979 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/21/24 12:30 PM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/21/24 04:00 PM	**Vert. Datum:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	N-Value (10 20 30 40)	Drilling & Strata Notes
30	S-9	12	19 50/6"	> 50	CL		Hard, gray CLAY, trace Silt, moist (CL)	H	M	>4.5	0.40	>>	30
35	S-10	8	27 50/5"	> 50			Hard, gray to light brown CLAY, trace Silt, moist (CL)	H	M	>4.5	0.32	>>	35
	S-11	6	32 50/3"	> 50			Hard, gray CLAY, trace Silt, moist (CL) End of Boring at 38.75' BGS. Borehole backfilled with soil cuttings.	H	M	>4.5	0.35	>>	
40													40
45													45
50													50

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)
11/21/24 02:00 PM	ATD			30

General Notes

BGS = Below Ground Surface

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▽ = AD Water Level (After Drilling - Short Term)
▽ = EOD Water Level (End of Drilling - Long Term)

Soil Boring Log

B-08

ANS GEO

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.724311 N, -97.540899 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/19/24 07:30 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/19/24 10:00 AM	**Vert. Datum:**	N/A

Rig Model:	Acker Rebel	**Sampler Type:**	Split Spoon	**Casing Type:**	HSA
Rig Type:	Track	**Sampler Length:**	24 inches	**Casing Length:**	5 feet
Drill Method:	Hollow Stem Auger	**Sampler I.D.:**	1.375 inches	**Casing I.D.:**	3.75 inches
Hammer Type:	Automatic	**Hammer Wt.:**	140 pounds	**Hammer Wt.:**	N/A
Drilling Fluid:	None	**Hammer Fall:**	30 inches	**Hammer Fall:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)
0	S-1	10	3 6 9 9	15	CL	Stiff, brown CLAY, trace Silt, moist (CL)	M	M	>4.5	0.20
	S-2	12	6 9 14 20	23		Very stiff, brown CLAY, trace Silt, moist (CL)	M	M	>4.5	0.25
5	S-3	16	7 14 22 26	36		Hard, brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.28
	S-4	12	8 10 18 12	28		Hard, brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.20
	S-5	18	7 6 17 20	23		Very stiff, brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.15
10										
	S-6	21	8 13 18 23	31		Hard, brown CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.18
15										
	S-7	22	5 10 15 19	25		Very stiff, brown CLAY, little Silt, trace medium to fine Sand, moist (CL)	M	M	>4.5	0.35
20										
	S-8	24	4 6 9 10	15		Stiff, brown CLAY, little Silt, moist (CL)	M	M	>4.5	0.22

N-Value: 10 20 30 40

Drilling & Strata Notes

Mottling observed.

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▽ = AD Water Level (After Drilling - Short Term)
▽ = EOD Water Level (End of Drilling - Long Term)

ANS GEO

Soil Boring Log

B-08
(Continued)

Client:	Plus Power	**Drilling Firm:**	ANS Consultants, Inc.	**Coordinates:**	38.724311 N, -97.540899 E
Project:	Mountain Peak	**Drill Crew:**	Timothy Mull / Matt Kukuk	**Horiz. Datum:**	WGS84
Location:	Mentor, Kansas	**Boring Start:**	11/19/24 07:30 AM	**Elevation:**	Grade
Inspector:	Michael Cauterucci	**Boring End:**	11/19/24 10:00 AM	**Vert. Datum:**	N/A

Depth (ft)	Sample No.	Rec. (in)	Blows per 6"	N-Value	USCS Symbol	Graphic Log	Visual Classification	Toughness	Plasticity	PP (tsf)	TV (tsf)	N-Value (10 20 30 40)	Drilling & Strata Notes
30	S-9	24	5 7 11 12	18	CL		Very stiff, brown CLAY, little Silt, moist (CL)	M	H	>4.5	0.30		
35	S-10	24	4 7 11 13	18			Very stiff, brown CLAY, little Silt, moist (CL)	M	H	>4.5	0.32		Mottling observed.
40	S-11	24	4 7 12 14	19			Very stiff, brown CLAY, little Silt, moist (CL)	M	H	>4.5	0.30		Mottling observed.
							End of Boring at 40' BGS. Borehole backfilled with soil cuttings.						
45													
50													

In-Borehole Water Levels

Date / Time	Reading Event	Casing Tip (ft)	Bot. of Hole (ft)	Water Lvl (ft)

General Notes

BGS = Below Ground Surface
No groundwater encountered.

Toughness: Low (L), Medium (M), High (H)
Plasticity: Non-Plastic (NP), Low (L), Medium (M), High (H)
PP = Pocket Penetrometer, measured in tons per square ft.
TV = Torvane (Shear Vane), measured in tons per square ft.

▽ = ATD Water Level (At Time of Drilling)
▽ = AD Water Level (After Drilling - Short Term)
▽ = EOD Water Level (End of Drilling - Long Term)

Attachment D

Test Pit Logs

TEST PIT PHOTO LOG

Project Name	**Plus Power – Mountain Peak**	**Test Pit ID**	TP-01
Site Location	Mentor, Kansas	**Date**	11/19/24
Test Pit Contractor	Big Chino Water and Drilling	**ANS Geo Representative**	Michael Cauterucci
Equipment Used	John Deere 310L EP	**Weather/Temp**	Sunny/50°F
Final Test Pit Depth (feet)	10.0 feet (120 inches)	**Time Opened**	1:20 PM
Groundwater Depth (feet)	N/A	**Time Closed**	1:50 PM

0-6"
TOPSOIL

6-36"
Dark brown CLAY, little Silt, moist (CL)

36-120"
Brown to light brown CLAY, little Silt, trace medium to fine Sand, moist (CL)

TEST PIT PHOTO LOG

Project Name	**Plus Power – Mountain Peak**	**Test Pit ID**	TP-02
Site Location	Mentor, Kansas	**Date**	11/19/24
Test Pit Contractor	Big Chino Water and Drilling	**ANS Geo Representative**	Michael Cauterucci
Equipment Used	John Deere 310L EP	**Weather/Temp**	Sunny/50°F
Final Test Pit Depth (feet)	10.0 feet (120 inches)	**Time Opened**	10:15 AM
Groundwater Depth (feet)	Not Encountered	**Time Closed**	10:45 AM

0-48"
Dark brown CLAY, little Silt, moist (CL)

48-120"
Brown to light brown CLAY, little Silt, trace coarse to fine Gravel, trace medium to fine Sand, moist (CL)

N

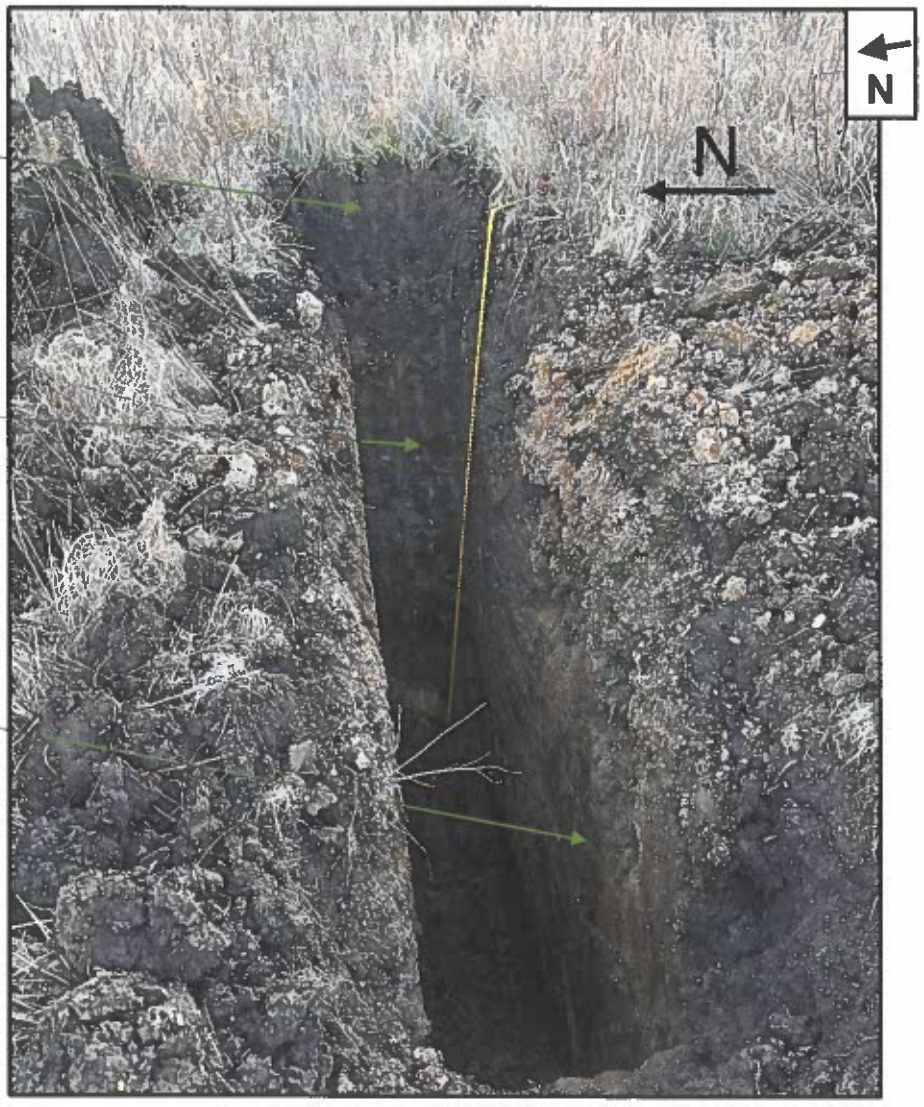
TEST PIT PHOTO LOG

Project Name	**Plus Power – Mountain Peak**	**Test Pit ID**	TP-03
Site Location	Mentor, Kansas	**Date**	11/20/24
Test Pit Contractor	Big Chino Water and Drilling	**ANS Geo Representative**	Michael Cauterucci
Equipment Used	John Deere 310L EP	**Weather/Temp**	Sunny/32°F
Final Test Pit Depth (feet)	10.0 feet (120 inches)	**Time Opened**	7:30 AM
Groundwater Depth (feet)	Not Encountered	**Time Closed**	8:00 AM

0-4"
TOPSOIL

4-60"
Dark brown CLAY, little Silt, moist (CL)

60-120"
Light brown to brownish yellow CLAY, little Silt, trace medium to fine Sand, moist (CL)
Mottling observed



TEST PIT PHOTO LOG

Project Name	Plus Power – Mountain Peak	Test Pit ID	TP-04
Site Location	Mentor, Kansas	Date	11/20/24
Test Pit Contractor	Big Chino Water and Drilling	ANS Geo Representative	Michael Cauterucci
Equipment Used	John Deere 310L EP	Weather/Temp	Sunny/32°F
Final Test Pit Depth (feet)	10.0 feet (120 inches)	Time Opened	10:35 AM
Groundwater Depth (feet)	Not Encountered	Time Closed	11:00 AM

0-8"
TOPSOIL

8-36"
Dark brown CLAY, little Silt, moist (CL)

36-120"
Light brown to brownish yellow CLAY, little Silt, trace medium to fine Sand, moist (CL)
Mottling observed

TEST PIT PHOTO LOG

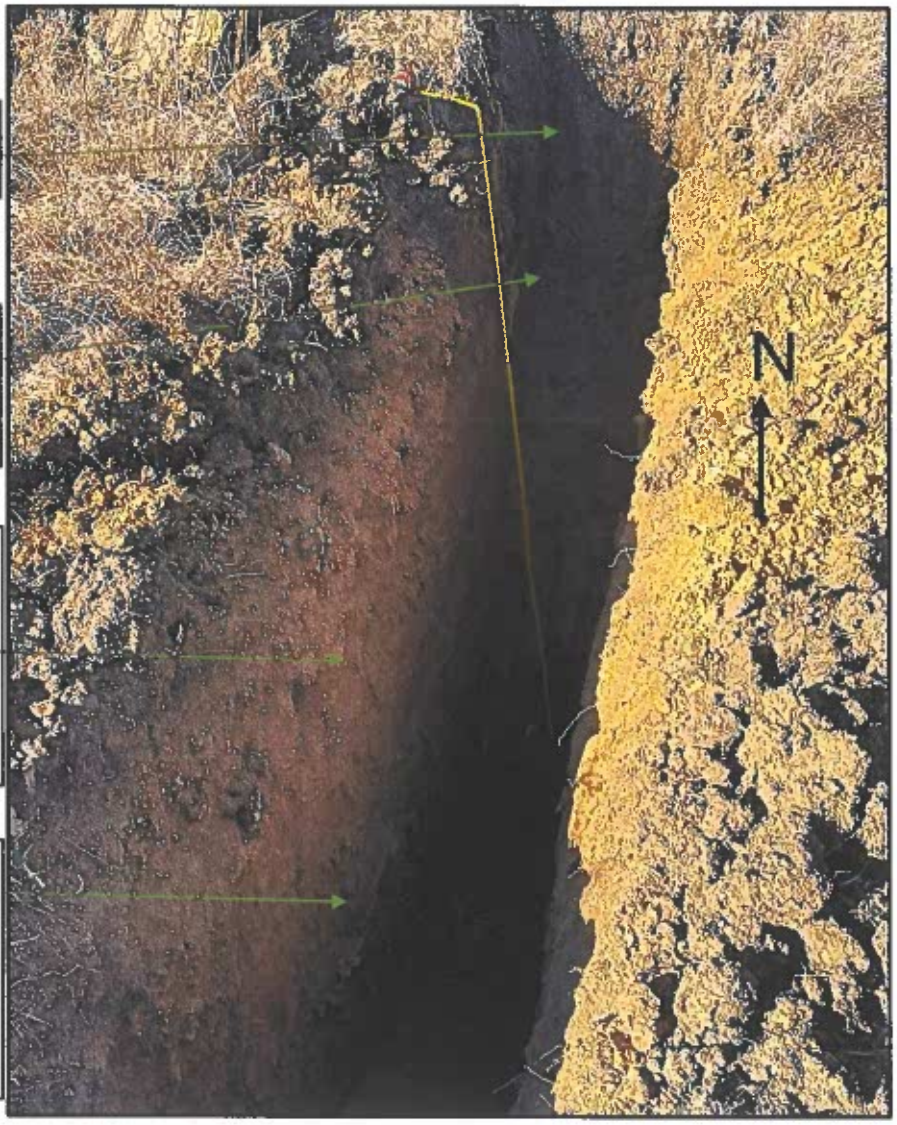
Project Name	**Plus Power – Mountain Peak**	**Test Pit ID**	TP-05
Site Location	Mentor, Kansas	**Date**	11/20/24
Test Pit Contractor	Big Chino Water and Drilling	**ANS Geo Representative**	Michael Cauterucci
Equipment Used	John Deere 310L EP	**Weather/Temp**	Sunny/32°F
Final Test Pit Depth (feet)	10.0 feet (120 inches)	**Time Opened**	1:35 PM
Groundwater Depth (feet)	Not Encountered	**Time Closed**	2:00 PM

0-6"
TOPSOIL

6-36"
Dark brown CLAY, little Silt, moist (CL)

36-60"
Brown to brownish yellow CLAY, little Silt, trace medium to fine Sand, moist (CL)

60-120"
Light brown CLAY, little Silt, trace medium to fine Sand, moist (CL)



TEST PIT PHOTO LOG

Project Name	**Plus Power – Mountain Peak**	**Test Pit ID**	TP-06
Site Location	Mentor, Kansas	**Date**	11/20/24
Test Pit Contractor	Big Chino Water and Drilling	**ANS Geo Representative**	Michael Cauterucci
Equipment Used	John Deere 310L EP	**Weather/Temp**	Sunny/50°F
Final Test Pit Depth (feet)	10.0 feet (120 inches)	**Time Opened**	10:53 AM
Groundwater Depth (feet)	Not Encountered	**Time Closed**	11:20 AM

0-5"
TOPSOIL

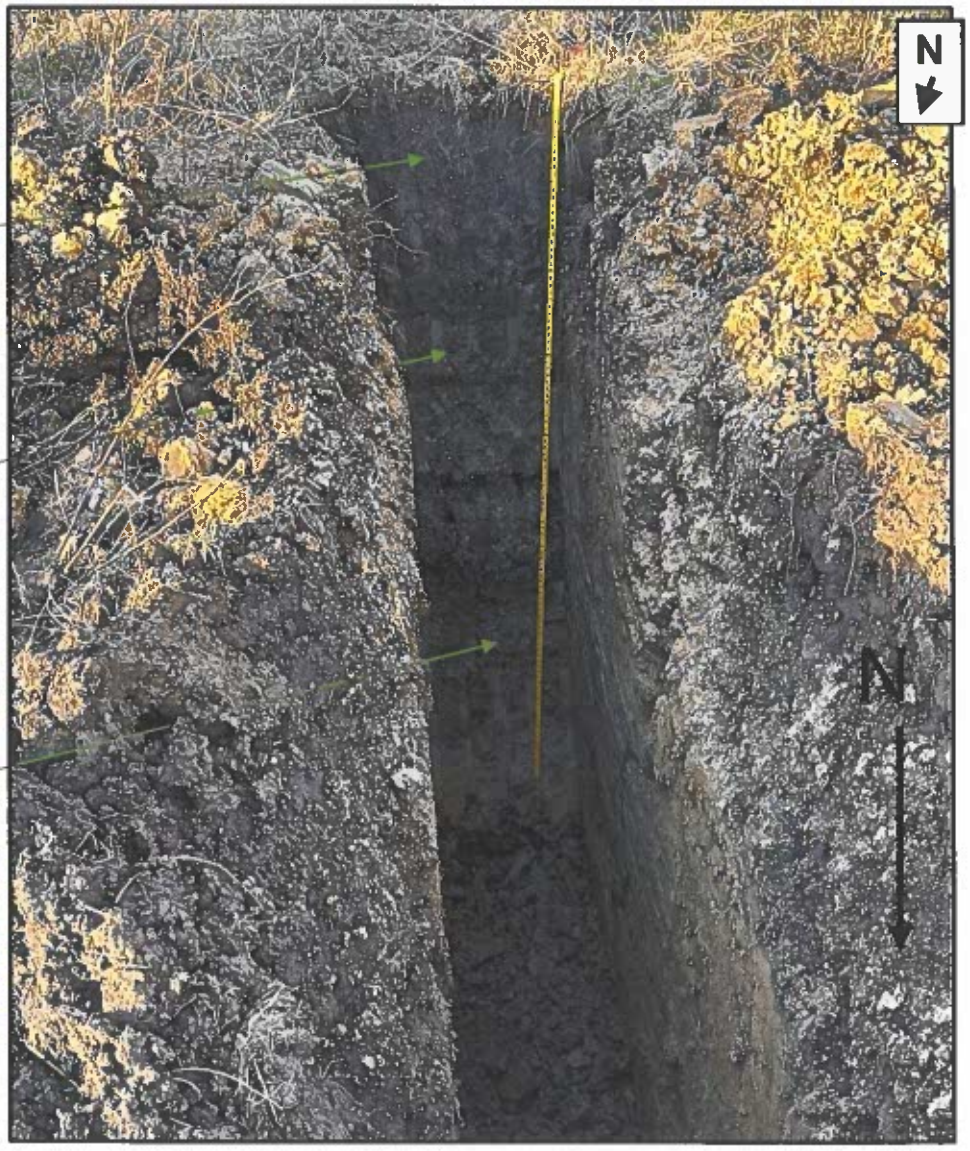
5-48"
Dark brown CLAY, little Silt, moist (CL)

48-60"
Brownish yellow CLAY, little medium to fine Sand, little Silt, moist (CL)
Mottling observed

60-120"
Light brown CLAY, little medium to fine Sand, little Silt, moist (CL)
Mottling observed

TEST PIT PHOTO LOG

Project Name	Plus Power – Mountain Peak	Test Pit ID	TP-07
Site Location	Mentor, Kansas	Date	11/19/24
Test Pit Contractor	Big Chino Water and Drilling	ANS Geo Representative	Michael Cauterucci
Equipment Used	John Deere 310L EP	Weather/Temp	Sunny/52°F
Final Test Pit Depth (feet)	10.0 feet (120 inches)	Time Opened	4:20 PM
Groundwater Depth (feet)	Not Encountered	Time Closed	4:50 PM



0-4"
TOPSOIL

4-36"
Dark brown CLAY, little Silt, moist (CL)

36-120"
Brown to light brown CLAY, little coarse to fine Sand, little Silt, moist (CL)

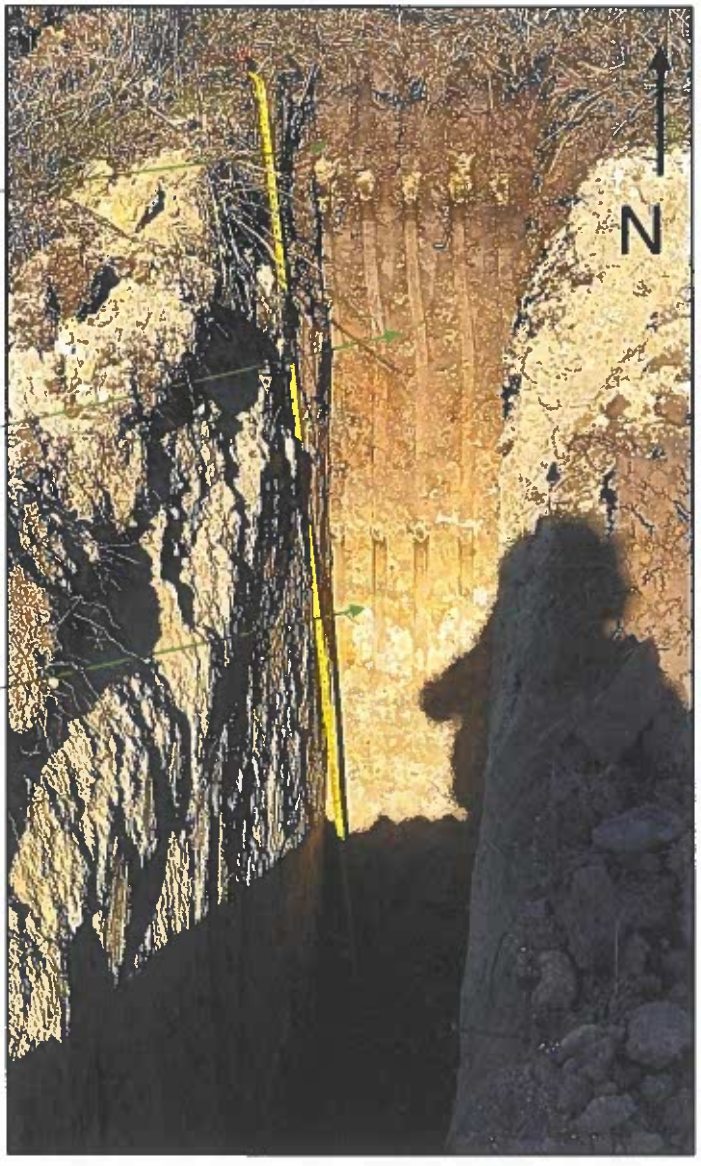
TEST PIT PHOTO LOG

Project Name	Plus Power – Mountain Peak	Test Pit ID	TP-08
Site Location	Mentor, Kansas	Date	11/21/24
Test Pit Contractor	Big Chino Water and Drilling	ANS Geo Representative	Michael Cauterucci
Equipment Used	John Deere 310L EP	Weather/Temp	Sunny/48°F
Final Test Pit Depth (feet)	10.0 feet (120 inches)	Time Opened	12:00 PM
Groundwater Depth (feet)	Not Encountered	Time Closed	12:25 PM

0-6"
TOPSOIL

6-48"
Brown CLAY, little Silt, moist (CL)

48-120"
Light brown to brownish yellow CLAY, little Silt, trace coarse to fine Gravel, trace medium to fine Sand, moist (CL) Mottling observed



Attachment E

Laboratory Test Results

MOISTURE CONTENT ANALYSIS RESULTS

ANS CONSULTANTS, INC.
4405 South Clinton Avenue
South Plainfield, NJ 07080
Tel: (800) 585-ATUL
(908) 754-8383
Fax: (908) 754-8633
NJ EDA Approved Testing Laboratory • MBE/DBE Certified • NJ DEP Certified
www.ANSConsultants.net

Soil, Concrete, Masonry, Rebar, Asphalt, Structural Steel, Precast, Piles, Caissons, Fire-Proofing, Roofing, Soil Boring, Concrete/Rock Coring, UST Removal, Environmental Testing & Reports

Laboratory Determination of Water (Moisture) Content of Soil and Rock (ASTM D2216)

Client Name: Plus Power
Project Name: Mountain Peak BESS, Mentor, KS
LAB IRN: 24-T-154
Date: 12/17/2024

Sample ID	B-01, S-01	B-01, S-08	B-02, S-02	B-02, S-09	B-03, S-03
Depth	0'-2'	23'-25'	2'-4'	28'-30'	4'-6'
Wet soil + Tare (g)	246.3	245.3	238.0	244.8	225.5
Dry soil + Tare (g)	196.6	194.6	209.1	195.0	190.0
Wt. of Tare (g)	15.0	14.4	14.6	14.5	14.7
Moisture Content	**27.4%**	**28.1%**	**14.9%**	**27.6%**	**20.3%**

Sample ID	B-03, S-08	B-04, S-04	B-04, S-08	B-05, S-03	B-05, S-09
Depth	23'-25'	6'-8'	23'-25'	4'-6'	28'-30'
Wet soil + Tare (g)	240.7	237.7	256.6	258.7	242.1
Dry soil + Tare (g)	200.9	207.0	201.5	228.2	208.6
Wt. of Tare (g)	15.0	14.5	14.8	15.1	15.0
Moisture Content	**21.4%**	**15.9%**	**29.5%**	**14.3%**	**17.3%**

Sample ID	B-06, S-05	B-06, S-08	B-07, S-03	B-07, S-09	B-08, S-05
Depth	8'-10'	23'-25'	4'-6'	28'-20'	8'-10'
Wet soil + Tare (g)	815.3	245.1	768.8	231.7	246.7
Dry soil + Tare (g)	735.9	207.0	729.9	198.2	218.4
Wt. of Tare (g)	183.7	14.9	178.8	15.0	14.7
Moisture Content	**14.4%**	**19.9%**	**7.1%**	**18.3%**	**13.9%**

Tested By: JE
Checked By: ANS

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Laboratory Determination of Water (Moisture) Content of Soil and Rock (ASTM D2216)

Client Name:	Plus Power	LAB IRN:	24-T-154
Project Name:	Mountain Peak BESS, Mentor, KS	Date:	12/17/2024

Sample ID	B-08, S-09
Depth	28'-30'
Wet soil + Tare (g)	241.4
Dry soil + Tare (g)	198.6
Wt. of Tare (g)	14.8
Moisture Content	**23.3%**

Tested By: JE

Checked By: ANS

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Laboratory Determination of Water (Moisture) Content of Soil and Rock (ASTM D2216)

Client Name: Plus Power
Project Name: Mountain Peak BESS, Mentor, KS
LAB IRN: 24-T-155
Date: 12/17/2024

Sample ID	TP-01, CBR	TP-02, TRT	TP-03, CORR	TP-04, CBR	TP-05, TRT
Depth	1'-3'	1'-5'	0'-5'	1'-3'	1'-5'
Wet soil + Tare (g)	203.3	202.2	168.2	182.8	192.5
Dry soil + Tare (g)	172.7	172.5	146.3	164.1	175.1
Wt. of Tare (g)	15.0	15.0	14.7	14.9	15.0
Moisture Content	**19.4%**	**18.9%**	**16.7%**	**12.5%**	**10.8%**

Sample ID	TP-06, CORR	TP-07, TRT	TP-08, CORR
Depth	0'-5'	1'-5'	0'-5'
Wet soil + Tare (g)	168.2	152.0	191.6
Dry soil + Tare (g)	151.2	127.4	177.5
Wt. of Tare (g)	15.2	14.9	15.1
Moisture Content	**12.5%**	**21.8%**	**8.7%**

Tested By: JE
Checked By: ANS