7/19/2024

Soils & Geology Report

Pikes Peak BOCES Educational Park Northeast of Judge Orr Rd & Elbert Rd Peyton, Colorado VIVID Project No.: D24-2-759



Only the client or it's designated representatives may use this document and only for the specific project for which this report was prepared. July 19, 2024

Report prepared for:

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SOILS & GEOLOGY REPORT Pikes Peak BOCES Educational Park Northeast of Judge Orr Road & Elbert Road Peyton, Colorado VIVID Project No.: D24-2-759

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1.0 GENERAL SITE AND PROJECT

1.1 GENERAL

Vivid Engineering Group, Inc. (VIVID) has completed a soils & geology evaluation and report in general accordance with the Geology and Soils Report Standards as outlined in Chapter 8, Section 8.4.9 of the Land Development Code, dated August 27, 2019, and in general accordance with the El Paso County Soils & Geology Report Checklist.

1.2 PROJECT LOCATION

The proposed Pikes Peak BOCES Educational Park is planned to be located generally in the southwest corner of Section 35, Township 12 South, Range 64 West of the 6th Principal Meridian in El Paso County, Colorado. The site is located at the northeast corner of the intersection of Judge Orr Road and Elbert Road as shown approximately on Figure 1 of this report.

1.3 EXISTING AND PROPOSED LAND USE

Based on information obtained from the El Paso County Assessor's website, the site is 86.38 acres with land use zoned for animal grazing. The El Paso County Schedule No. of the property is 4200000362. The proposed land use is to be an educational park with a portion of the site consisting of faculty housing.

1.4 PROJECT DESCRIPTION

Based on the information provided, we understand the Pikes Peak BOCES vocational education campus is to be constructed within the vacant property located northeast of the intersection of Judge Orr Road and Elbert Road in Peyton, Colorado as shown approximately in Figure 1 of this report. The educational campus is to include various educational buildings on the west side of the property including buildings for construction trades, medical, culinary arts, firefighting, law enforcement, information technology, veterinary services and horticultural sciences. A residential community is planned on the east side of the property to provide faculty housing. A water treatment facility is planned on the northwest side of the property, and a lift station and pond are planned on the southeast side. Paved parking lots and drive lanes are also planned throughout the campus and residential community. On-site wastewater treatment is not planned for this site.

Final grading plans were still being prepared when this report was completed; however, based on the preliminary site grading plan provided, cuts and fills of up to 13 feet are planned across the site.

1.5 QUALIFICATIONS OF PREPARERS

This report has been prepared under the direction of and reviewed by Brysen T. Mustain, who is a Professional Geologist as defined by Colorado Revised Statutes section 34-1-201(3).



2.0 STUDY OVERVIEW

2.1 PURPOSE AND SCOPE

The purpose of this evaluation was to research the general and site-specific geologic conditions of the subject site as well as observe the conditions at the site. The information gathered was used to analyze, evaluate, and identify potential geologic hazards at the site and assess the possible effect the potential hazards may have on the proposed development of the site. This investigation has been performed in general accordance with the Geology and Soils Report Standards as outlined in Chapter 8, Section 8.4.9 of the Land Development Code, dated August 27, 2019, and in general accordance with the El Paso County Soils & Geology Report Checklist.

2.2 SITE EVALUATION TECHNIQUES

Surface and subsurface conditions at the project site were evaluated using the following techniques:

- Review of available geologic, soil and topographic maps
- Review of available aerial photographs
- Field reconnaissance
- Subsurface exploration and lab testing
- Review of available flood hazards mapping

2.3 ADDITIONAL DOCUMENTS

In addition to performing borings to evaluate geologic conditions of the site, the following reports and maps were reviewed to aid in the evaluation of the subsurface conditions:

- Geologic Map of the Falcon Quadrangle, El Paso County, Colorado (Morgan, M.L., and White, J.L.), 2012, Colorado Geological Survey Open-File Report OF-12-05, scale 1:24,000.
- Flood Insurance Rate Map, El Paso County, Colorado and Unincorporated Areas, Community Panel No. 08041C0559G, Federal Emergency Management Agency (FEMA), December 7, 2018.
- Google Earth Pro, Aerial Imagery dates 9/29/1999 to 10/31/2022, accessed 6/27/24.
- Soil Survey of El Paso County Area, Colorado Soil Conservation Service, USDA, 1979.

2.4 ON-SITE WASTEWATER TREATMENT

It is our understanding that there will be no on-site wastewater treatment facility and that proposed sanitary sewer infrastructure will be connected to existing off-site sewer infrastructure. Therefore, lab testing and design for septic systems were not included in our scope.



3.0 SITE CONDITIONS

3.1 EXISTING SITE CONDITIONS

The site is located northeast of the intersection of Judge Orr Road and Elbert Road in El Paso County, Colorado. The site is currently vacant land with cattle grazing during parts of the year. Sparse residential properties are located north and east of the site. An unnamed ephemeral drainage is present to the northeast of the site, outside of the subject property boundary. The ground surface is predominately covered in arid grass with occasional cacti. Two seasonal pond features were present on the east portion of the site and were dry during the time of our investigation. Overhead electric borders the site to the east and then extends west onto a portion of the property. No exposures of bedrock or areas of groundwater seepage were observed at the time of our investigation.

3.2 TOPOGRAPHY

Based on the topographic map included in the phasing plan provided to us by William Guman & Associates, elevations of the site range from approximately 6743 feet in the northwest corner of the site to approximately 6699 feet at the southeast corner of the site. The site consists of rolling hills and slopes down gently to the southeast.

3.3 VEGETATION

The site vegetation generally consisted of arid grass and weeds with occasional cacti.

3.4 AERIAL PHOTGRAPHS

Based on our review of historic aerial photographs available on Google Earth Pro dating back to 1985, the site has been vacant. The overhead electric poles appear to have been installed around 2015 based on the historic aerial photos from Google Earth Pro.



4.0 FIELD INVESTIGATION AND LABORATORY TESTING

4.1 FIELD EXPLORATION

A field exploration performed from June 11 through June 14, 2024, included drilling 16 widely-spaced borings across the site at the approximate locations indicated on the Field Exploration Plans on Figures 2 and 3. A summary of the field exploration is presented below.

Boring Designation	Approximate Total Depth of Exploration ¹ [feet, bgs]	Approximate Depth to Groundwater at Time of Drilling ¹ [feet, bgs]	Approximate Depth to Groundwater 7-10 Days After Drilling ¹ [feet, bgs]	Approximate Depth to Bedrock ¹ [feet, bgs]
B-1	29.3	None Encountered	14.5	6
B-2	29.5	None Encountered	5.5	4
B-3	29.4	None Encountered	None Encountered	2
B-4	29.4	None Encountered	26.5	5
B-5	29.3	9	8	17
B-6	29.5	16	13.5	17
B-7	29.3	17	10.5	20
B-8	29.3	14	13	22
B-9	29.4	None Encountered	9.5	14.5
B-10	29.4	13	27	17
B-11	29.5	None Encountered	28.5	19.5
B-12	29.3	None Encountered	None Encountered	7
B-13	29.5	14	6.5	6
B-14	29.5	13.5	8	7
B-15	29.3	14	None Encountered	19
B-16	29	13	10.5	14

Table 1
Summary of Subsurface Exploration

1. Depths referenced to feet below existing ground surface (bgs).

The borings were advanced using a truck-mounted CME-45 and CME-55 drill rig equipped with continuous-flight auger. A 140-pound hammer falling 30 inches was used to record blow counts, or the relative density of the soil encountered. Samples were taken with a standard split-spoon (SPT) sampler,



2.0-inch I.D. California-type sampler, and by bulk methods. Penetration tests were obtained at the various sample depths as well.

Appendix A to this report includes logs describing the subsurface conditions. The lines defining boundaries between soil and rock types on the logs are based upon drill behavior and interpolation between samples and are therefore approximate. Transition between soil and rock types may be abrupt or may be gradual.

4.2 LABORATORY TESTING

Laboratory tests were performed on selected soil samples to estimate their relative engineering properties. Tests were performed in general accordance with the following methods of ASTM or other recognized standards-setting bodies, and local practice:

- Description and Identification of Soils (Visual-Manual Procedure)
- Classification of Soils for Engineering Purposes
- Moisture Content and Unit Weight
- Sieve Analysis of Fine and Coarse Aggregates
- Liquid Limit, Plastic Limit, and Plasticity Index
- Swell/Consolidation Test

Results of the geotechnical laboratory tests are included in Appendix B of this report. Selected test results are also shown on the boring logs in Appendix A.

Analytical testing for soil corrosivity was performed on selected samples and included the following tests:

- pH
- Resistivity
- Redox Potential
- Water-soluble Sulfates
- Water-soluble Chlorides
- Sulfide Presence

Results of the analytical laboratory test are included in Appendix C of this report. Selected test results are also shown on the boring logs in Appendix A.

4.3 SUBSURFACE

VIVID explored the subsurface conditions by drilling, logging and sampling 16 exploratory borings across the site. The borings were drilled to a maximum depth of approximately 29.5 feet below the existing ground surface. The general profile encountered in our borings consisted of the following:

Sand and Clay

Predominantly silty to clayey sand and poorly to well graded sand with varying amounts of silt was encountered at the ground surface in every boring and extended to depths of between 2 and 22 feet below the existing ground surface. The sand soils were generally light to medium brown, light yellowish-brown, grayish-brown, and gray with iron-oxide staining, slightly moist to wet, and field penetration testing (blow counts) indicated the soils are loose to dense.



A layer of lean clay with sand was encountered below the sand in boring B-10 and extended to a depth of approximately 17 feet below the existing ground surface. The clay soil was gray with iron-oxide staining, moist and field penetration testing (blow counts) indicated the clay soils are very stiff in consistency.

Bedrock

Weathered to comparatively unweathered claystone and sandstone bedrock of the Black Squirrel Formation was encountered in every boring at the approximate depths presented in Table 1 of this report and extended to the maximum depths explored. The bedrock materials were light gray to dark gray, yellowish-brown, light to medium brown, reddish-brown, greenish-brown and grayish-brown in color, slightly moist to very moist, and field penetration resistance testing (blow counts) indicated the relative density of the bedrock materials ranged from moderately hard to very hard. Swell/consolidation testing performed on 12 samples of the claystone bedrock exhibited low to very high swell potential, with measured swells of between 0.2 and 9.0 percent (average 2.6 percent) when wetted under 1,000 psf load.

The boring logs in Appendix A should be reviewed for more detailed descriptions of the subsurface conditions at each of the boring locations explored.



5.0 SOILS, GEOLOGY, AND ENGINEERING GEOLOGY

5.1 GEOLOGIC RECONNAISSANCE

A visual reconnaissance of the site was performed and was supported by the field drilling explorations, as well as review of available geologic mapping and information from the following sources:

- Geologic Map of the Falcon Quadrangle, El Paso County, Colorado (Morgan, M.L., and White, J.L.), 2012, Colorado Geological Survey Open-File Report OF-12-05, scale 1:24,000.
- Soil Survey of El Paso County Area, Colorado Soil Conservation Service, USDA, 1979

A portion of the geologic map that includes this site is presented as Figure 5 of this report. An NRCS Soil Survey Map and associated Soil Descriptions are presented as Figure 6.

5.2 SITE STRATIGRAPHY

A portion of the Geologic Map of the Falcon Quadrangle showing the approximate site boundaries is presented on Figure 5. Four mappable units were identified on the site:

Qes <u>Holocene to upper</u> <u>Pleistocene eolian sand:</u>	The eolian sand deposits encountered on the site are generally associated with the upper Pleistocene and Holocene Ages. The material is typically yellowish-brown to light brown to tan in color. This unit typically consists of fine to coarse-grained sand and silt windblown deposits.
Qp <u>Holocene playa</u> <u>deposits:</u>	The playa deposits encountered on the site are generally associated with the Holocene Age. Playa deposits form from flat-surfaced seasonal ponds within the eolian sand. The material typically consists of gray to dark brown clay, silt, sand and scattered gravel.
Qa 1 <u>Upper Holocene</u> <u>Alluvium:</u>	The alluvium is predominately present within or near the northeast border of the site, near the unnamed ephemeral drainage. Based on the mapping, the alluvium deposits are generally tan to pale-brown in color and consist of sand, gravel, silt and minor clay.
Tbs <u>Black Squirrel</u> <u>Formation:</u>	The Black Squirrel Formation (Tbs) is Paleocene in age. The Black Squirrel Formation is not mapped at the surface on the project site but is present below the surficial soils units described above and is anticipated to be relatively flat-lying/horizontal (i.e. not steeply bedded). The formation is mapped as being exposed on the ground surface just east of the subject property. The unit (Tbs) typically comprises cross-bedded, gray-green to tan to brownish-gray arkosic sandstone interbedded with sandy claystone. Clay content is quite variable and the expansion potential ranges from low to very high when wetted depending on the amount of clay content in the lenses.



5.3 USDA NRCS SOIL SURVEY

The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil survey map of the project site can be found on Figure 6 of this report. The mapped units within the site area are described below.

- 8 Blakeland loamy sand, 1 to 9 percent slopes. This unit comprises the majority of the site.
- 29 Fluvaquentic Haplaquolls, nearly level. This unit is mapped within the southwest corner of the site.

5.4 ENGINEERING GEOLOGY AND MITIGATION OF GEOLOGIC HAZARDS

No geologic hazards were found that would preclude the proposed development as planned. The following presents a list of potential geologic hazards, their applicability to this site, and the typical mitigation techniques.

Expansive Soil and Bedrock

Weathered to competent claystone bedrock of the Black Squirrel Formation was encountered within several of our borings across the site at depths of between 2 and 22 feet below the existing ground surface. Based on our laboratory testing, the claystone bedrock exhibited measured swells of between 0.2 and 9.0 percent (average 2.6 percent) when wetted under a 1,000 psf load.

If claystone bedrock is encountered at elevations at or near bottom of structure elevations, mitigation for this potential hazard on the subject site may include over-excavation of a thick zone of the expansive materials and replacement with moisture treated soils or granular structural fill, or the use of deep foundations (i.e. drilled piers). Due to the variability in elevation of the claystone bedrock, depth and lateral extent of over-excavation will need to be determined during the time of the final Geotechnical Investigation for each phase. This mitigation method should be addressed in more detail in the sitespecific Geotechnical Evaluation Report for each phase.

Settlement-Prone Soils

The overburden sand and clay soils may undergo some settlement if heavily loaded and/or wetted. Mitigation for this potential hazard may include over-excavation of the settlement-prone materials and replacement with moisture treated soils or granular structural fill. This mitigation method should be addressed in more detail in the site-specific Geotechnical Evaluation Report for each phase.

Erodible Soils

Soils with a sandy matrix, such as those encountered underlying the site, are susceptible to wind and water erosion when exposed. These concerns are normally addressed in an erosion control plan during construction and a long-term seeding/landscape plan that is typical for this type of development. Since we understand the majority of the site will have either a building constructed on it or will be paved and/or landscaped, the potential for erosion will be mitigated by these improvements.



Corrosive Soils

The site may be underlain by soil or bedrock materials that may contain corrosive minerals. Corrosive minerals can have detrimental effects on concrete and buried metals if not identified prior to design and properly mitigated.

Laboratory testing was completed to provide data regarding potential corrosivity of onsite soils. Our scope of services does not include corrosion engineering and, therefore, a detailed analysis of the corrosion test results is not included. A qualified corrosion engineer should be retained to review the test results and design protective systems that may be required.

Laboratory chloride concentration, sulfate concentration, pH, and electrical resistivity tests were performed on samples of onsite materials obtained during our field investigation. The results of the tests are included in Appendix C to this report and are summarized below in Table 2.

Boring No.	Sample Depth (ft)	Material	Water Soluble Chloride (%)	рН	Redox Potential (mV)	Resistivity (ohm-cm)	Water Soluble Sulfate (%)	Sulfide Presence
B-3	9 & 19	CLAYSTONE	0.009	7.9	58.2	1100	<0.001	Positive
B-9	0-4	Silty SAND	0.004	7.5	55.8	2300	<0.001	Trace

 Table 2

 Summary of Laboratory Soil Corrosivity Testing

Metal and concrete elements in contact with soil, whether part of a foundation system or part of a supported structure, are subject to degradation due to corrosion or chemical attack. Therefore, buried metal and concrete elements should be designed to resist corrosion and degradation based on accepted practices.

Based on the "10-point" method developed by the American Water Works Association (AWWA) in standard AWWA C105/A21.5, the corrosivity test results indicate that the onsite claystone and silty sand has corrosive potential just based upon the low electrical resistivity alone.

Mine Subsidence

This project is outside of any areas of known mining and mine subsidence. Geomorphic features associated with mining and mine subsidence were not observed on the site. Mine subsidence is not anticipated to be a significant design factor for this site

Slope Stability

Areas of unstable slopes or potentially unstable slopes were not observed on the site during the time of this investigation. Slope stability is not anticipated to be a significant design factor for this site.



Flooding Potential

As shown on Figure 4, the project site is outside of mapped flood hazard areas. Based on the mapping and our site observations, flooding is not considered to be a hazard for this development.

<u>Seismicity</u>

The major structural feature of this region is the Rampart Range Fault System which is located more than approximately 15 miles west of the site along the Front Range. There is evidence of movement during the past 2 million years along this fault zone. The Rampart Range Fault is considered to be active by the Colorado Geologic Survey. This area, as is the case with most of central Colorado, is subject to a degree of risk due to seismic activity. The site soils on the property generally classify as Site Class C (very dense soil and soft rock) and Site Class D (stiff soil profile) according to the 2015 International Building Code. Seismicity is not anticipated to be a significant design factor for this site and should be addressed in the site-specific Geotechnical Evaluation Report.

Elevated Radioactivity/Radon

Results of an EPA supported radon study in Colorado found that soils similar to those that underlie this site are generally below the EPA guideline level of 4 pCi/l. However, radon levels often vary significantly within the same geologic formation. It should be mentioned that all of El Paso County is considered to be in Zone 1 of the EPA's Map of Radon Zones, which is a county considered to have a predicted average indoor radon screening level greater than 4 pCi/L. This is a more significant issue for inhabited below-grade construction and structures that are more air tight such as residential structures. The higher concentrations of radon gas normally occur in residential structures that have been sealed to prevent exchange of outside air. Buildup of radon gas can usually be mitigated by providing frequent exchange of air within the structure and by sealing joints and cracks that are located adjacent to the subsoil. The presence and concentration of radon gas was not included in this investigation and should be performed during site-specific geotechnical investigations for individual residential lots.

Groundwater and Surface Water Drainage

Groundwater was encountered in fourteen of the exploratory borings at the locations, approximate depths, and times presented above in Table 1, and on the individual boring logs presented in Appendix A. Groundwater may tend to perch on top of the less-permeable clay soils and claystone bedrock layers within the Black Squirrel Formation. If shallow groundwater is encountered during site-specific geotechnical investigations for structures and individual lots, it should be mitigated with cut-off or foundation perimeter drains that are common local design and construction techniques.

Based on the topography of the site, the surface water likely drains to the south and southeast. Ponding may occur within the pond features on the east side of the site during high precipitation events.

5.5 ECONOMIC MINERAL RESOURCES

Based on the El Paso County Aggregate Resource Map, the site is located within the Upland Deposits. These deposits consist of sand, gravel with silt and clay and are remnants of older streams deposited on topographic highs or bench like features.



According to the Evaluation of Mineral and Mineral Fuel Potential of El Paso County State Mineral Lands, the site is mapped within the Denver Basin Coal Region. However, the nearest historic coal mine sites are located 10 miles southwest in eastern Colorado Springs. The site is mapped "poor" for coal resources. This area is not prospective for metallic mineral resources.

5.6 CONCLUSIONS

It is our opinion that the project site exhibits no geologic hazards that pose a significant risk to the proposed project or adjacent properties that cannot be mitigated through proper land usage planning, foundation design, engineering design, and/or construction practice.

The site does have expansive soil and bedrock that will require mitigation for vertical movement (heave) due to swell. These types of mitigations are relatively standard in this area. Recommendations regarding mitigation of the expansive soils and bedrock may include over-excavation of a thick zone of expansive materials from below foundations and slabs, and replacement with moisture treated soils and/or imported granular structural fill, or the use of a deep foundation system. These recommendations should be addressed in the site-specific Geotechnical Evaluation Report.

Based upon the results of this evaluation, the recommendations and comments contained in this report as well as the site-specific Geotechnical Evaluation Report should be incorporated into the plans, designs, specifications and construction planning for this project.



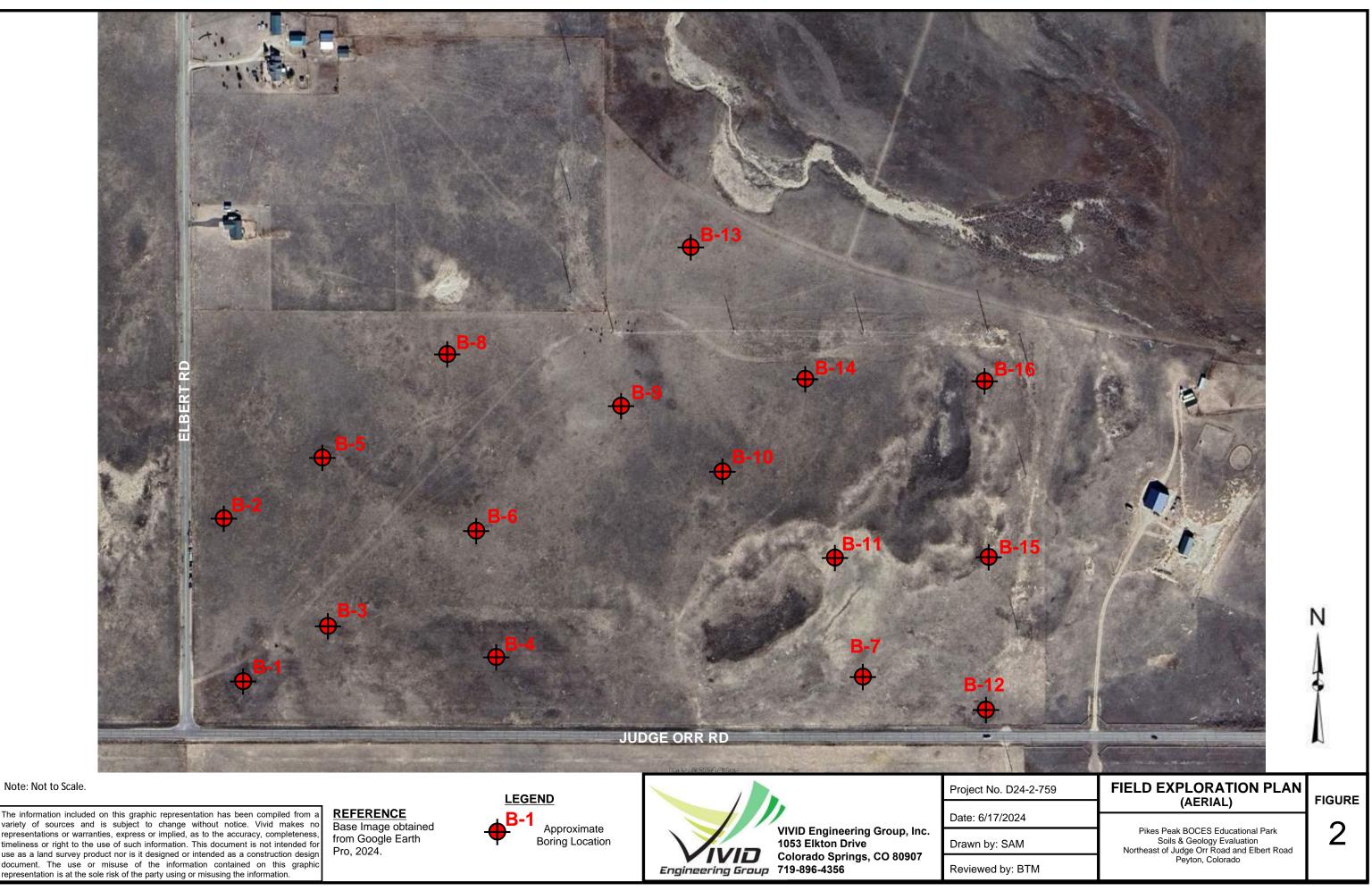
6.0 LIMITATIONS

6.1 LIMITATIONS

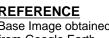
This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of VIVID's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions and opinions are based on a limited number of observations and data. Data or conclusions presented herein apply to the specific test pit and percolation test locations only. It is likely that subsurface conditions will vary somewhat beyond the locations investigated. VIVID makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

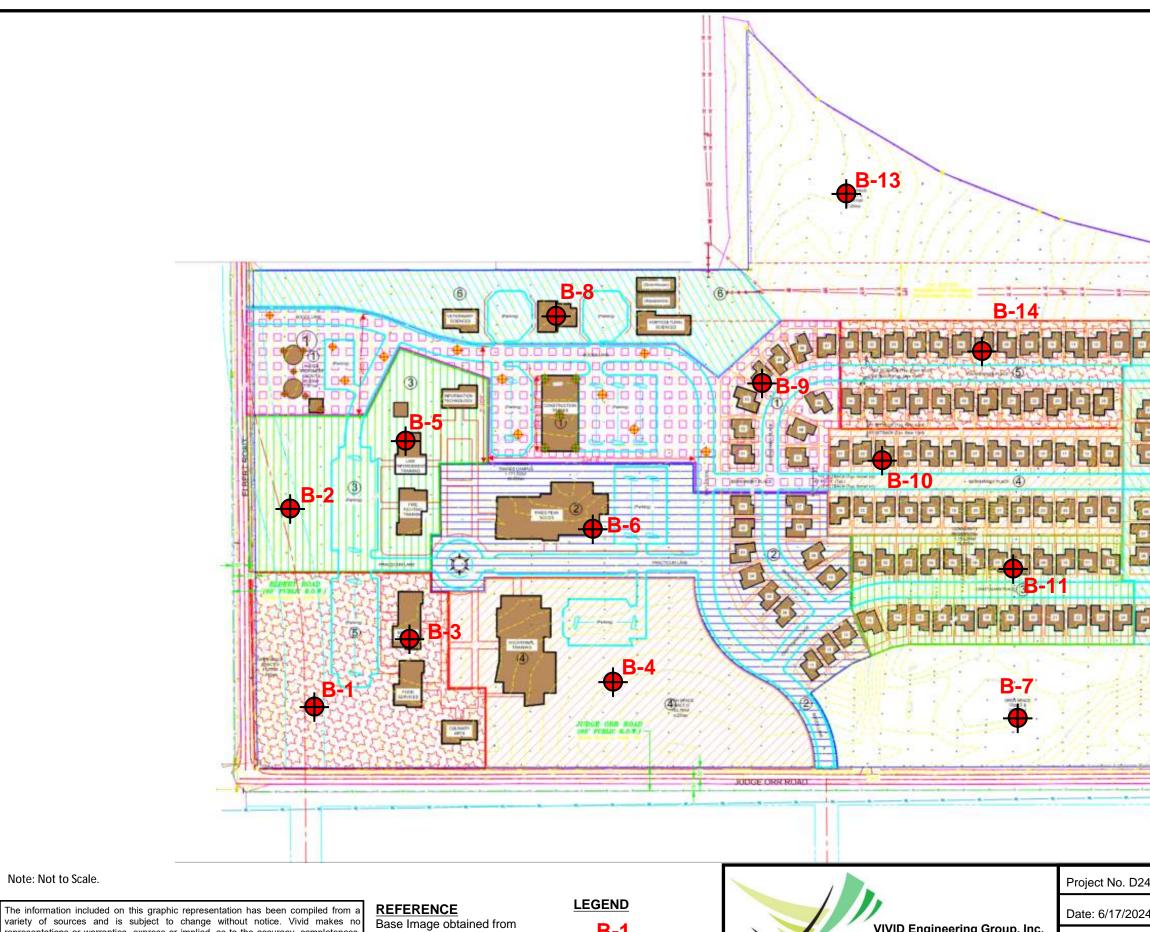
Figures

HUND ZA COLLEGE	Elbert Rd		Heritage Park Tra	Horseback Trail	
Approximate Project Location	Elbert Rd	9	Patomino Rojo Ku	Palonino Rdg Vw	g alomino Rdg Vw-
다. Judge Orr Rd General States State	2d	Judge Orr Rd	Judge Orr Rd	Judge Orr Rd	n Ratch Vw
The information included on this graphic representation has been compiled fr of sources and is subject to change without notice. Vivid makes no represen warranties, express or implied, as to the accuracy, completeness, timeliness use of such information. This document is not intended for use as a land sur nor is it designed or intended as a construction design document. The use o the information contained on this graphic representation is at the sole risk of using or misusing the information.	tations or or right to the vey product r misuse of	REFERENCE: Base image o Google My Ma	btained from aps, 6/17/2024		N
VIVID Engineering Group, Inc. 1053 Elkton Drive Colorado Springs, CO 80907 719-896-4356	Project No Date: 6/17 Drawn by: Reviewed	SAM	VICINITY M Pikes Peak BOCES Educa Soils & Geology Eval Northeast of Judge Orr Road a Peyton, Colorad	ational Park luation and Elbert Road	figure 1



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Base Image obtained from plans by William Guman & Associates dated 3/27/24.

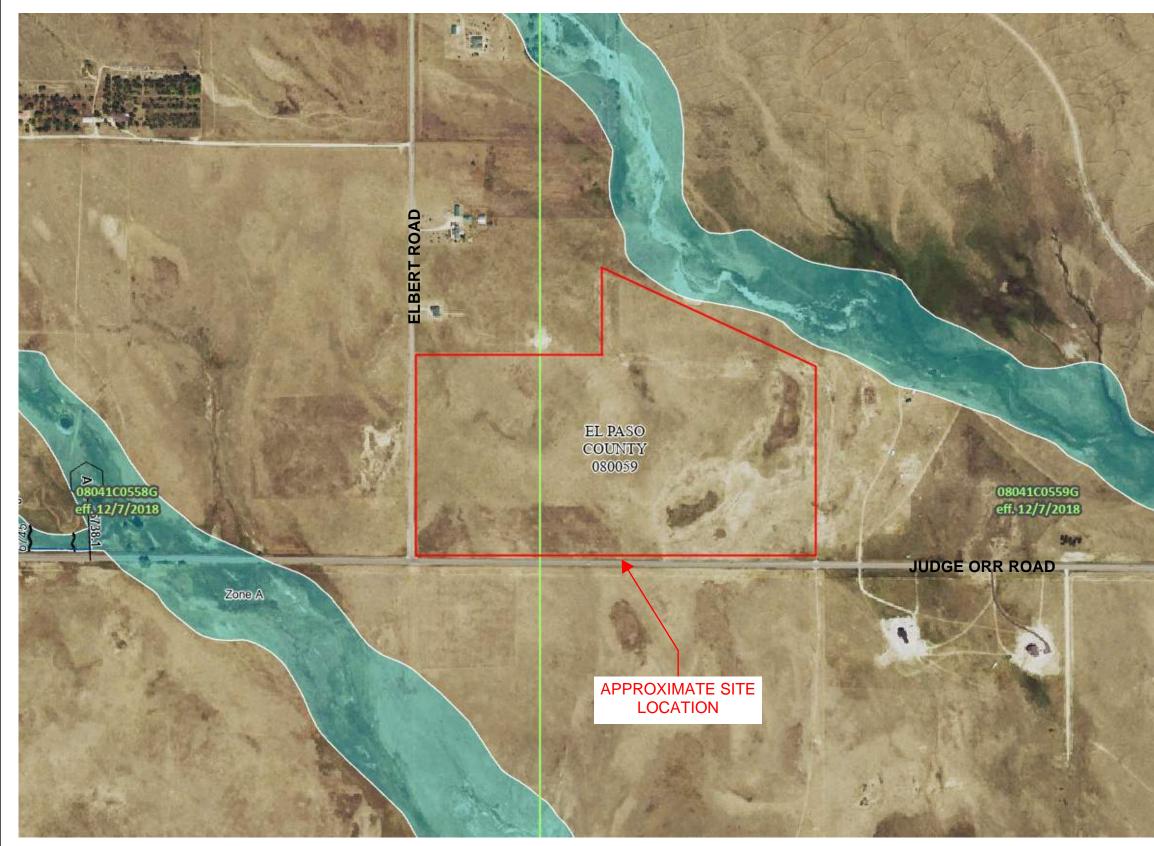


B-1 Approximate Boring Location

VIVID Engineering Group, Inc. 1053 Elkton Drive Engineering Group 719-896-4356 Colorado Springs, CO 80907

Date: 6/17/2024 Drawn by: SAM Reviewed by: B

-2-759	FIELD EXPLORATION PLAN (CONCEPTUAL)	FIGURE
ļ	Pikes Peak BOCES Educational Park Soils & Geology Evaluation	3
ТМ	Northeast of Judge Orr Road and Elbert Road Peyton, Colorado	



Note: Not to Scale.

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REFERENCE

Base Image obtained from https://msc.fema.gov/portal/search?A ddressQuery=Judge%20Orr%20Roa d%20and%20Elbert%20Road%2C% 20El%20Paso%20County, 2024



11000110201020110	F	lood	Hazard	Zone
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2

1% Annual Chance Flood Hazard

Regulatory Floodway

Special Floodway

Area of Undetermined Flood Hazard

0.2% Annual Chance Flood Hazard

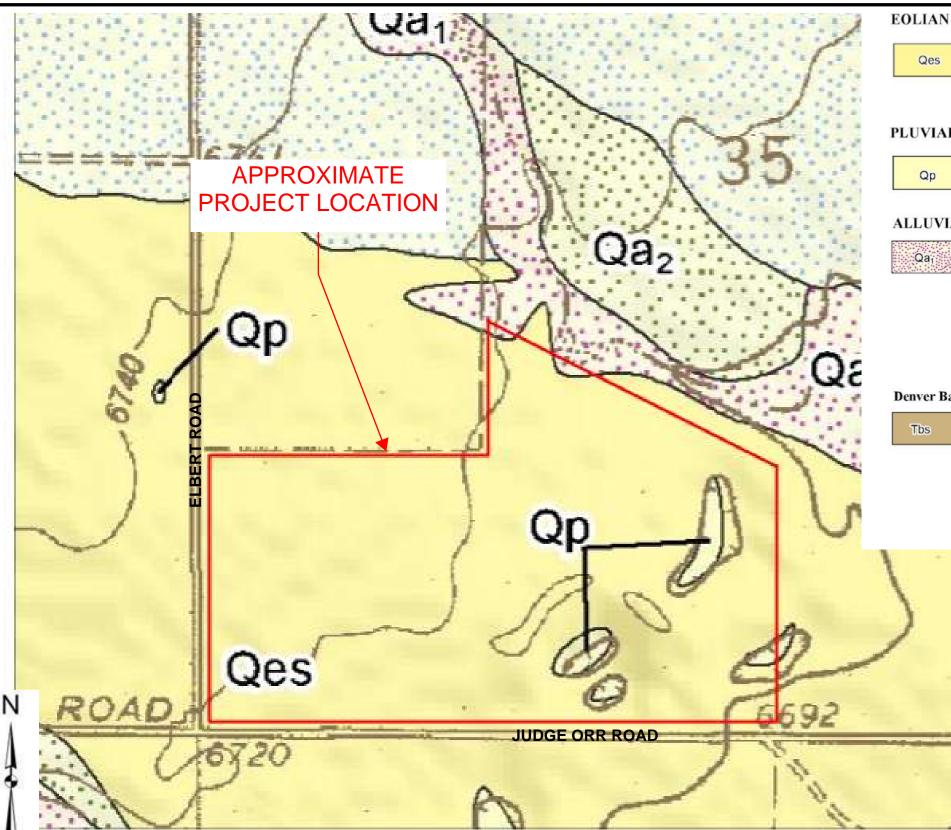
Future Conditions 1% Annual Chance Flood Hazard

💋 Area with Reduced Risk Due to Levee

Area with Risk Due to Levee

-2-759	FLOOD HAZARD MAP	FIGURE
	Pikes Peak BOCES Educational Park Soils & Geology Evaluation Northeast of Judge Orr Road and Elbert Road	4
ТМ	Peyton, Colorado	

N



EOLIAN DEPOSITS

Eolian sand (Holocene to upper Pleistocene) - Yellowish-brown to tan, fine- to coarsegrained, frosted sand and silt deposited by wind. Typically this unit is faintly stratified and noncohesive; dune forms are not present. The unit is likely deposited as a sandsheet by winds capable of moving very fine gravel-sized clasts. Eolian sand is moderately compacted, easily excavated, and drains well. Unit locally may exceed 5 feet in thickness.

PLUVIAL DEPOSITS



Playa deposits (Holocene) — Gray to dark brown, moderately well sorted, moderately consolidated, clay, silt, sand, and scattered granules. Forms flat-surfaced seasonal ponds within eolian sand (Qes). In some areas this unit may be overlain by windblown sand and sheetwash deposits.

ALLUVIAL DEPOSITS

Alluvium one (upper Holocene) — Tan to pale-brown, poorly to moderately sorted, poorly consolidated, sand, gravel, silt, and minor clay and occasional boulders in the currently active stream channels or in low stream-terrace deposits less than 5 feet above the current stream channel. It may be deposited as non-terrace forming alluvium in valleys and swales. Clasts are subrounded to well rounded and the dominant sediment is sandy gravel with a sandy silt matrix. The unit correlates with the Post-Piney Creek Alluvium described by Hunt (1954) in the Denver area and of Maberry and Lindvall (1972). The unit is subject to frequent flooding and is a source of sand and gravel. Maximum exposed thickness of the unit locally exceeds 5 feet.

BEDROCK

Denver Basin Group

Black Squirrel Formation (Paleocene) — Gray-green to tan to brownish gray, moderately-well sorted cross-bedded sandy arkoses interbedded with micaceous sandy claystones that contain abundant plant fragments and occasional, fine- to medium-grained massive arkosic beds. Intermittent paleosols are developed locally. The exposed upper part of the Black Squirrel Formation is gradational with the overlying Dawson Arkose making the location of the contact problematic. The basal contact with the underlying Jimmy Camp Formation is not exposed within the mapped area. Thickness may reach 600 feet in the Monument area; however, the exposed thickness in the Falcon quadrangle is approximately 130 feet. The claystones within this unit may be prone to swelling when wet. The Black Squirrel Formation is described in detail by Thorson (2011).

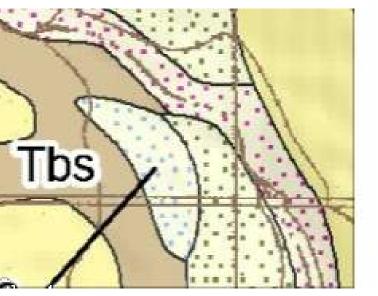
Note: Not to Scale.

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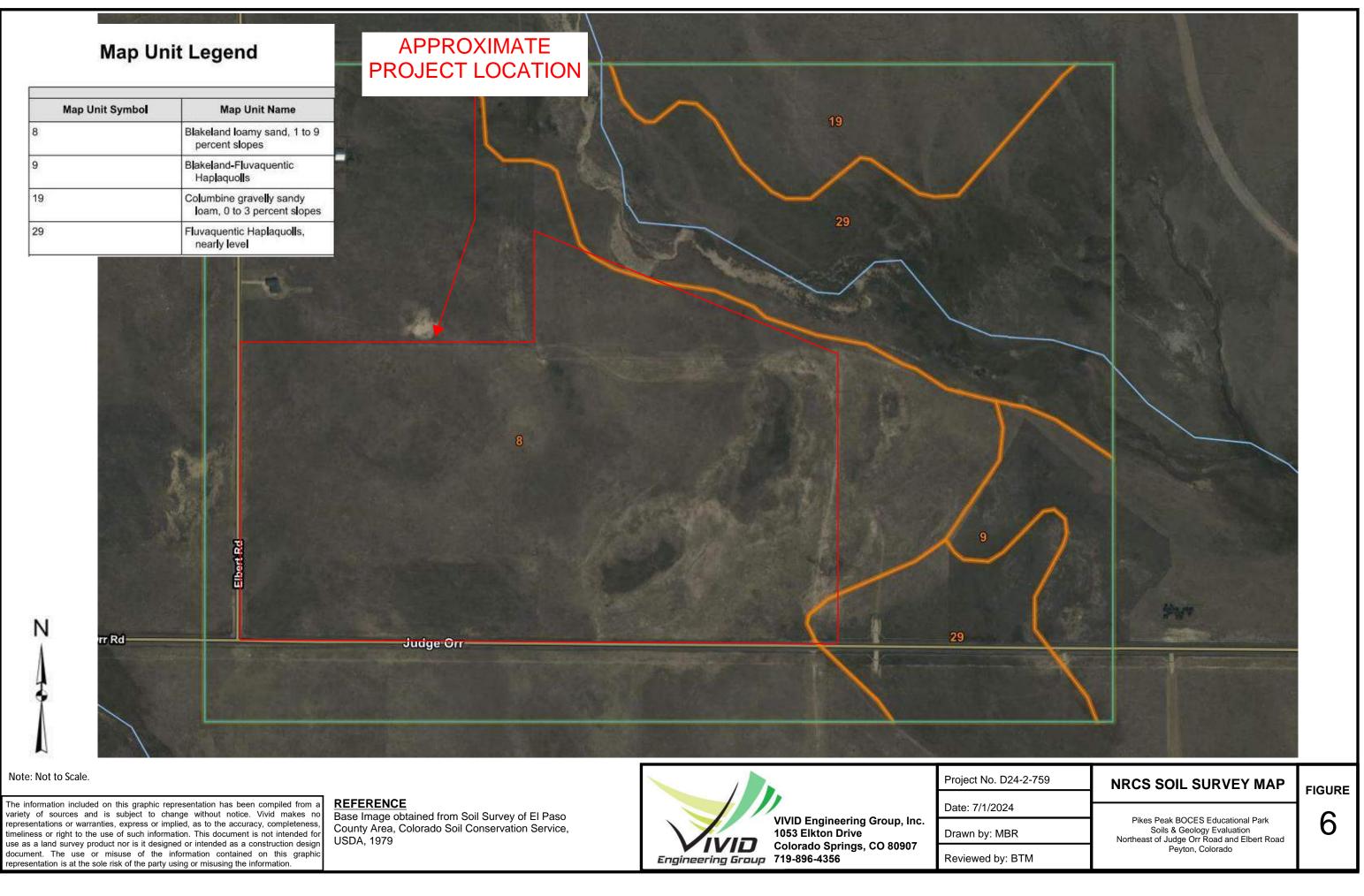
REFERENCE

Base Image obtained from Falcon Quadrangle Geologic Map, El Paso County, Colorado (Morgan, M.L., and White, J.L.), 2012, Colorado Geological Survey Open-File Report OF-12-05.

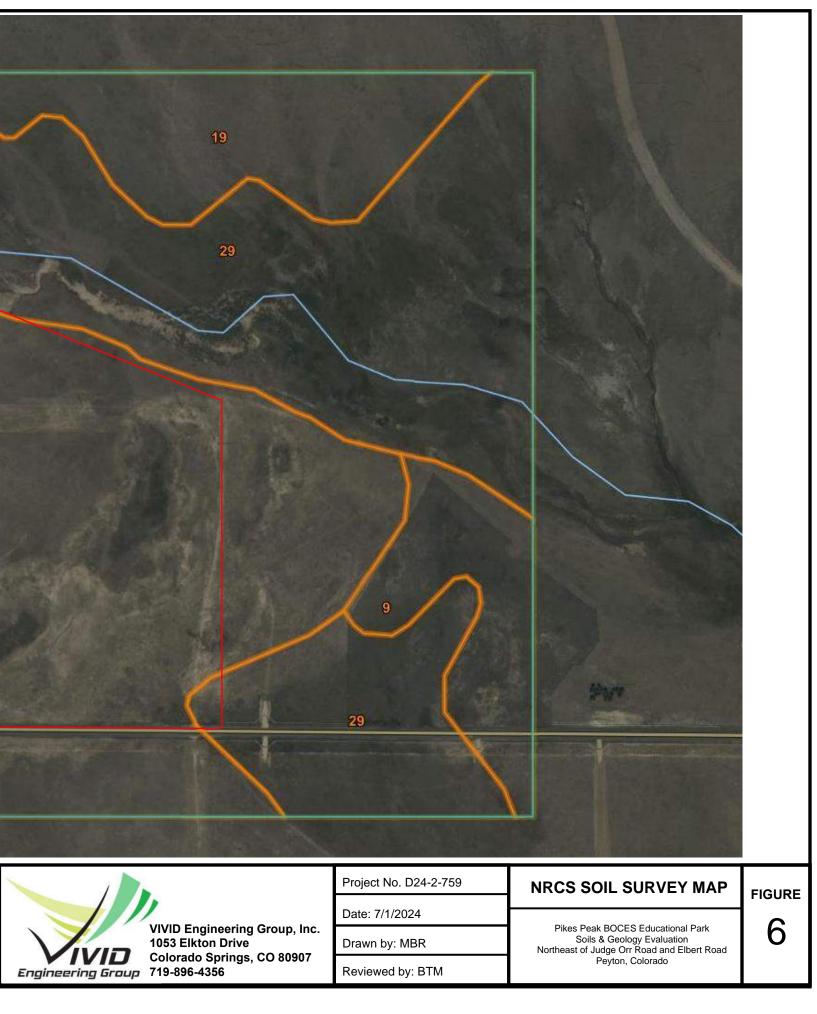




-2-759	GEOLOGIC MAP	FIGURE
	Pikes Peak BOCES Educational Park Soils & Geology Evaluation Northeast of Judge Orr Road and Elbert Road	5
ТМ	Peyton, Colorado	

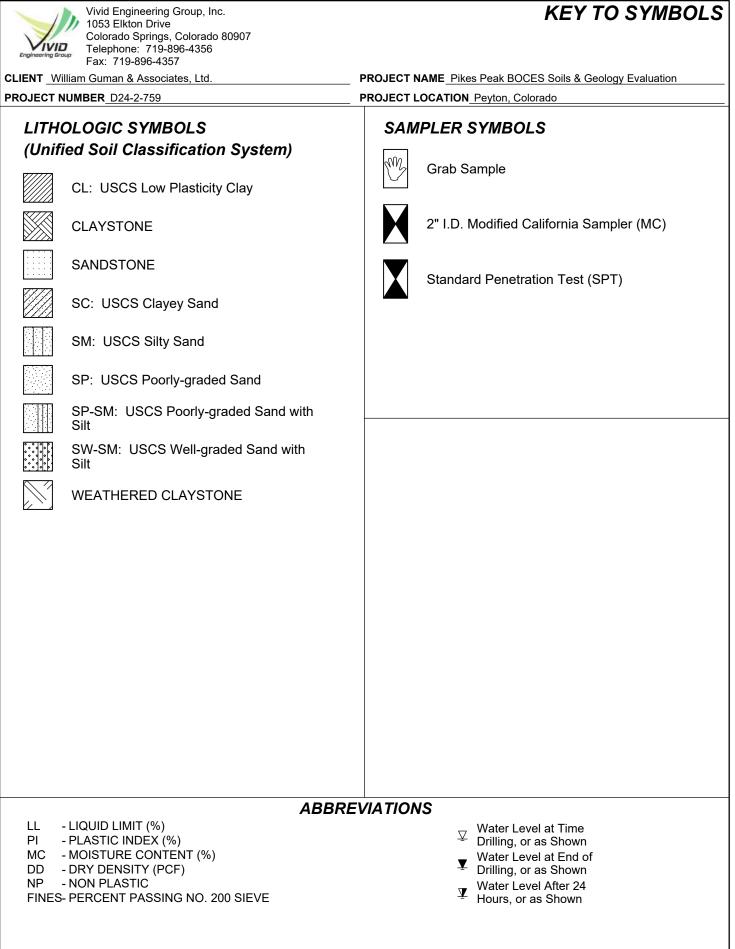


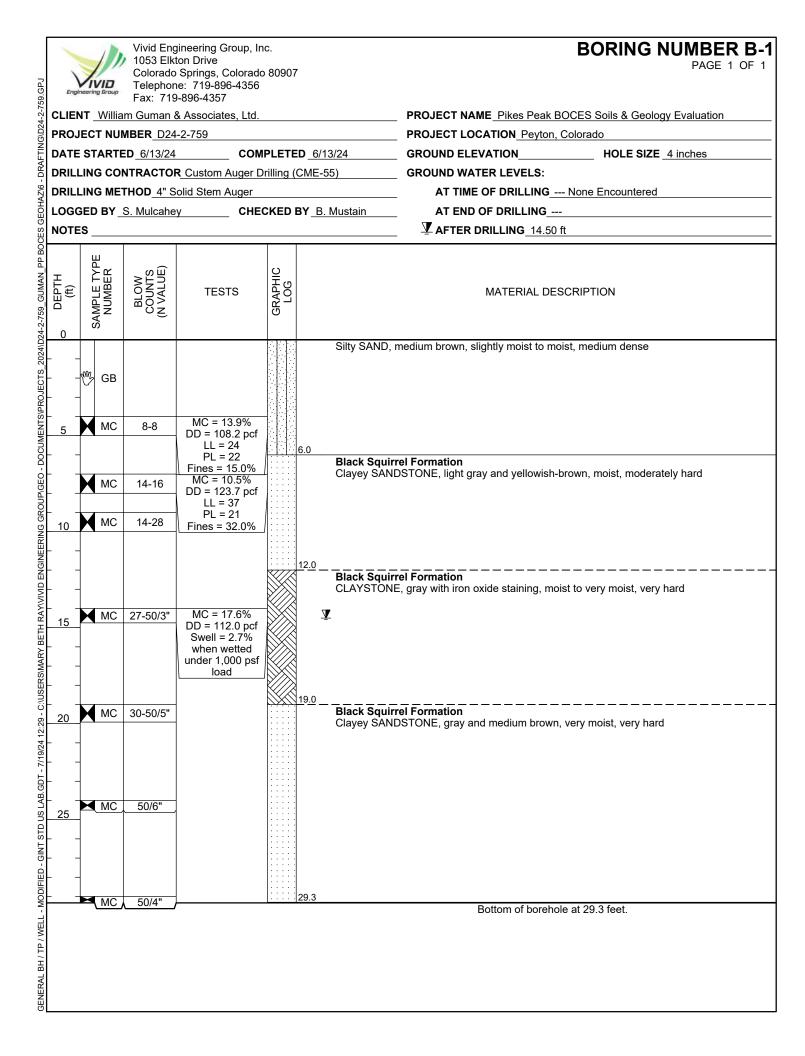
use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.

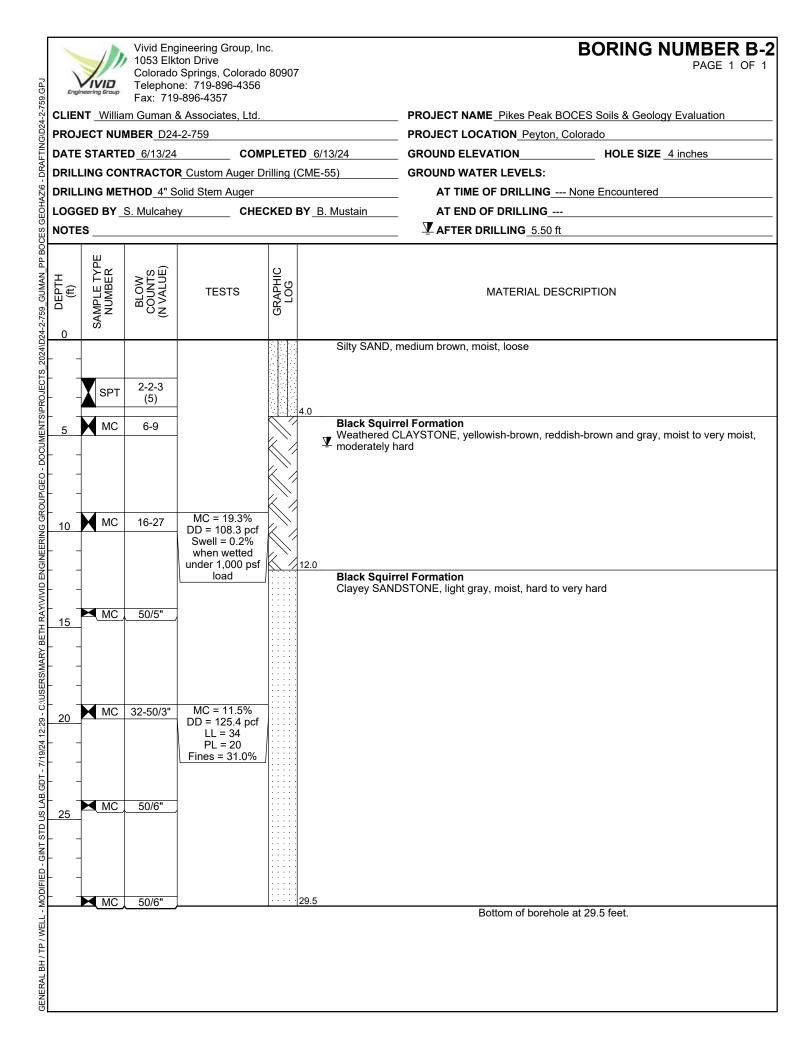


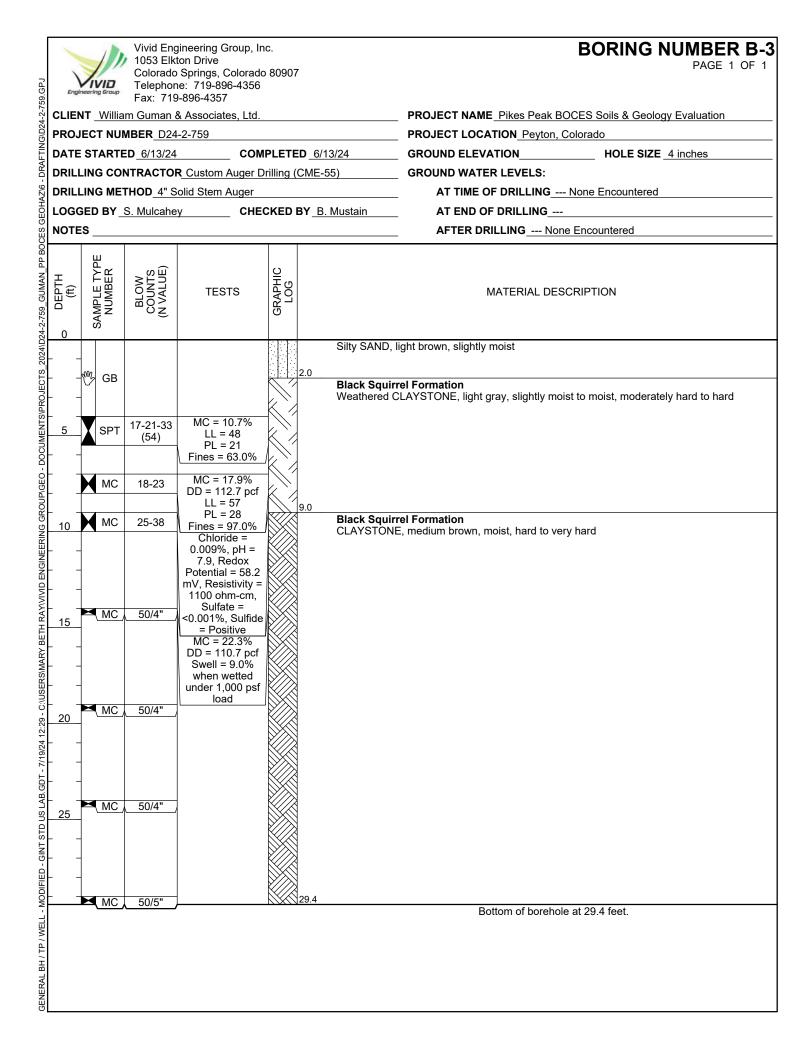
Appendix A

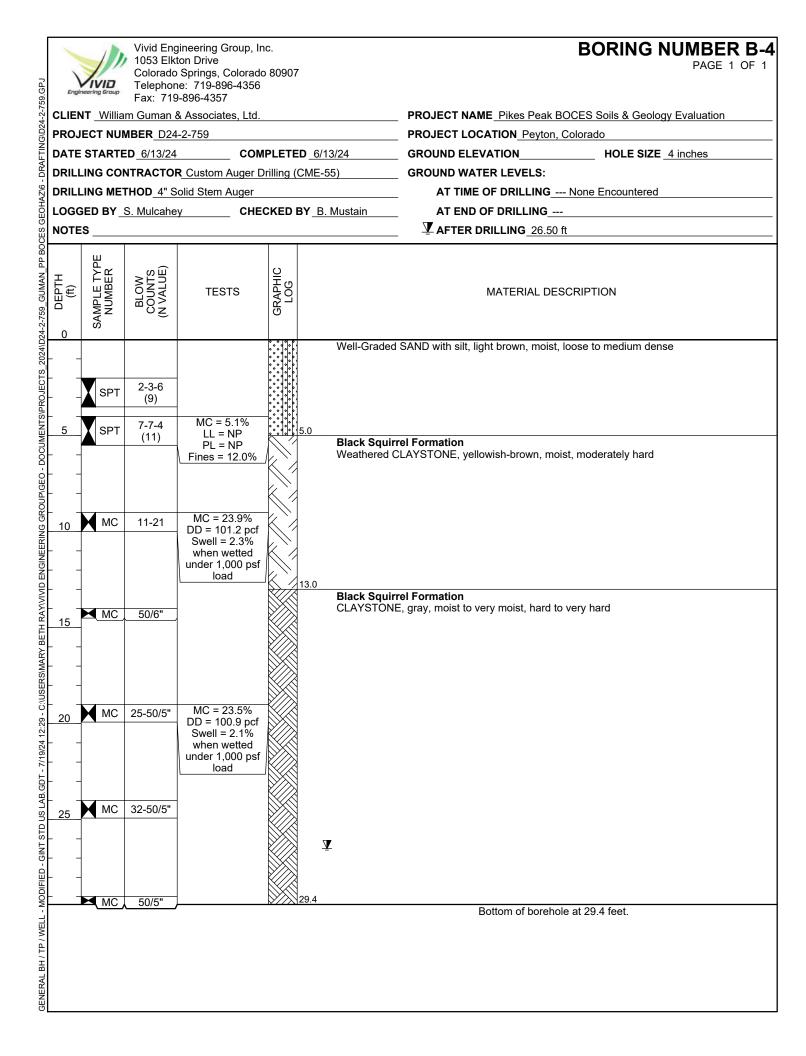
Log of Exploratory Borings

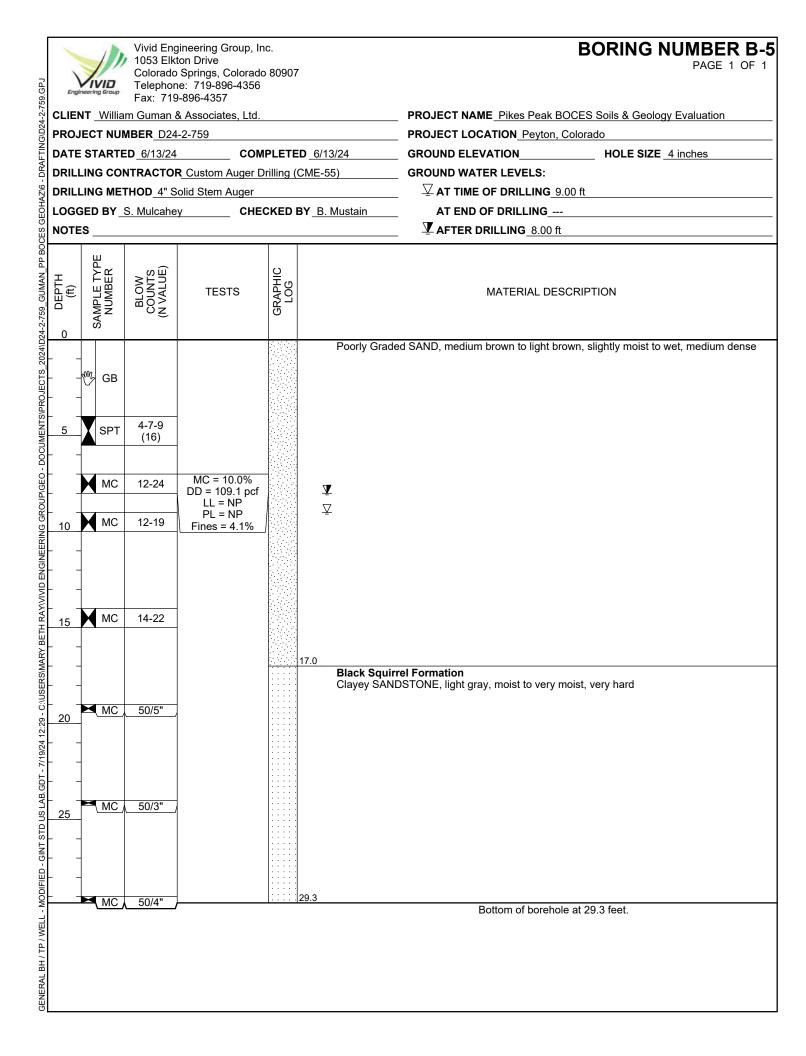




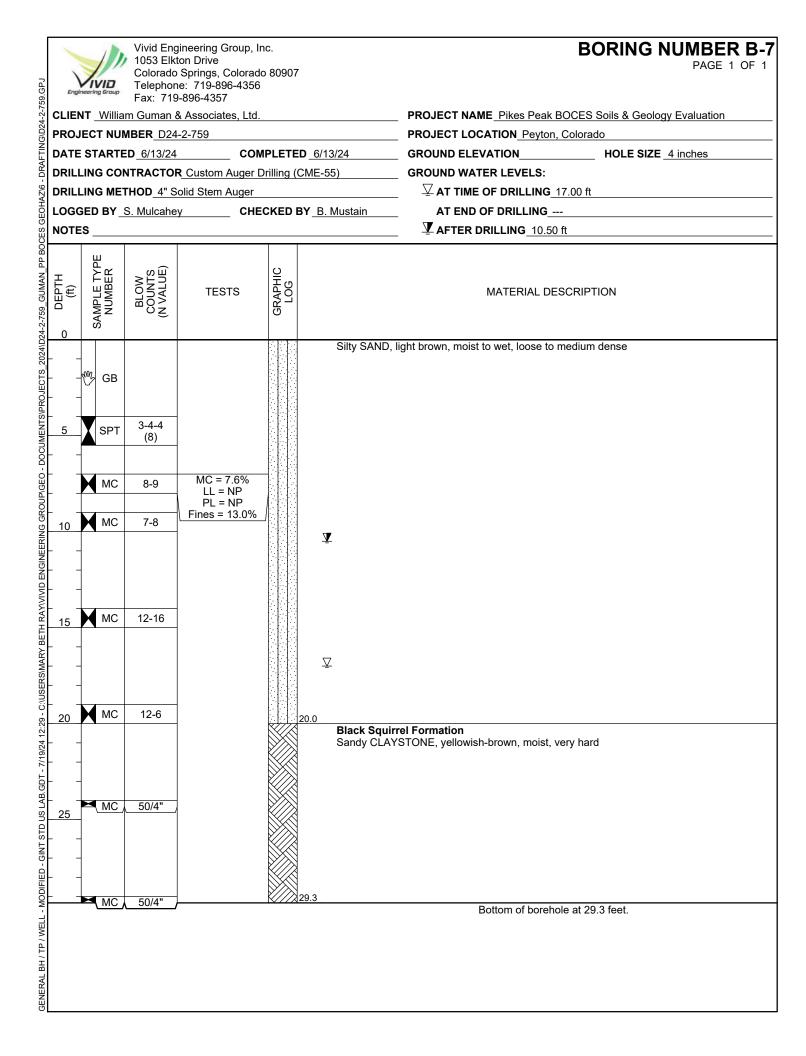


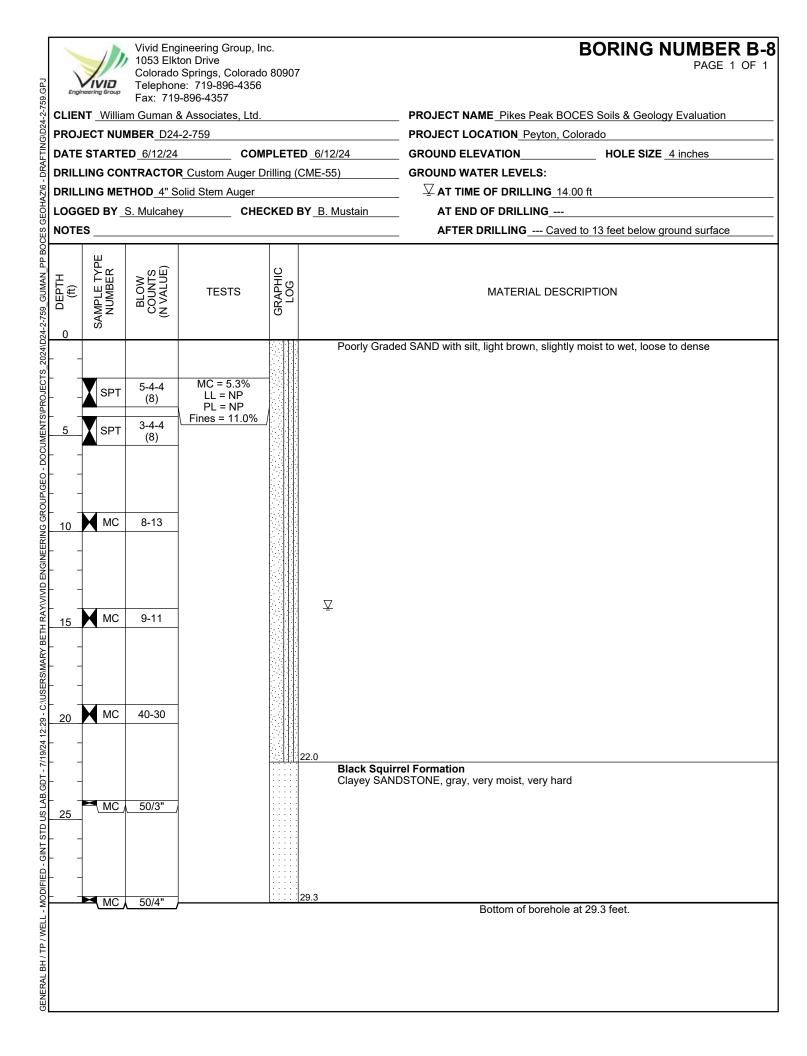


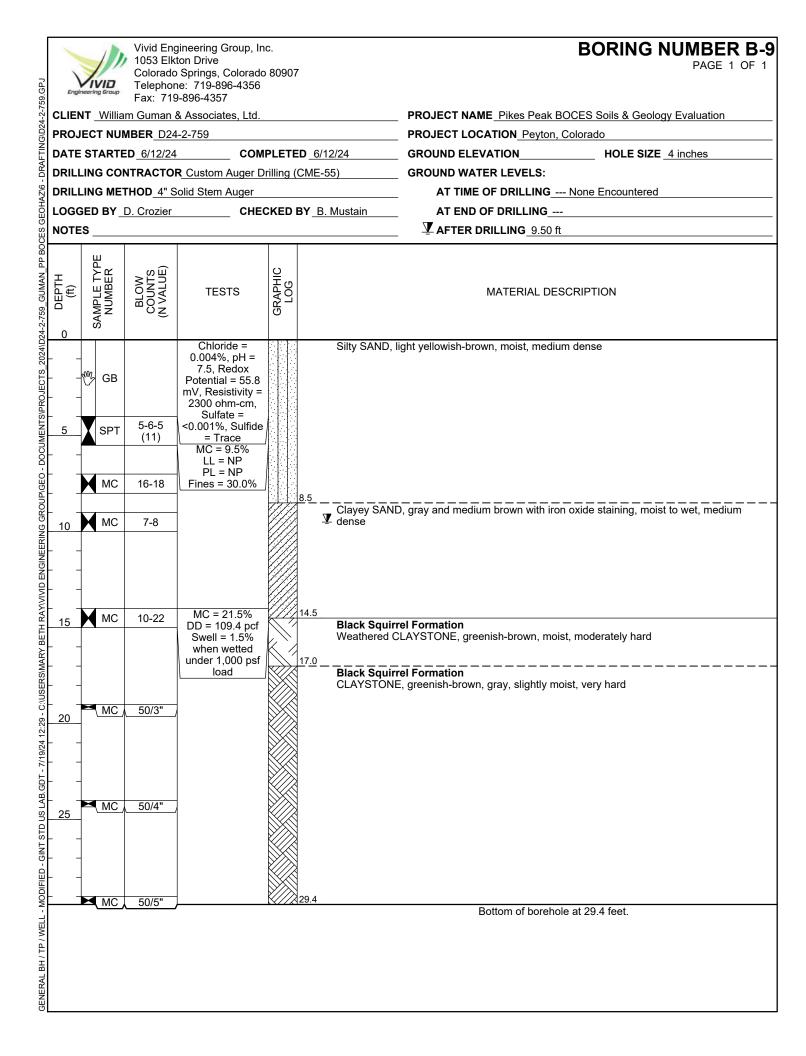


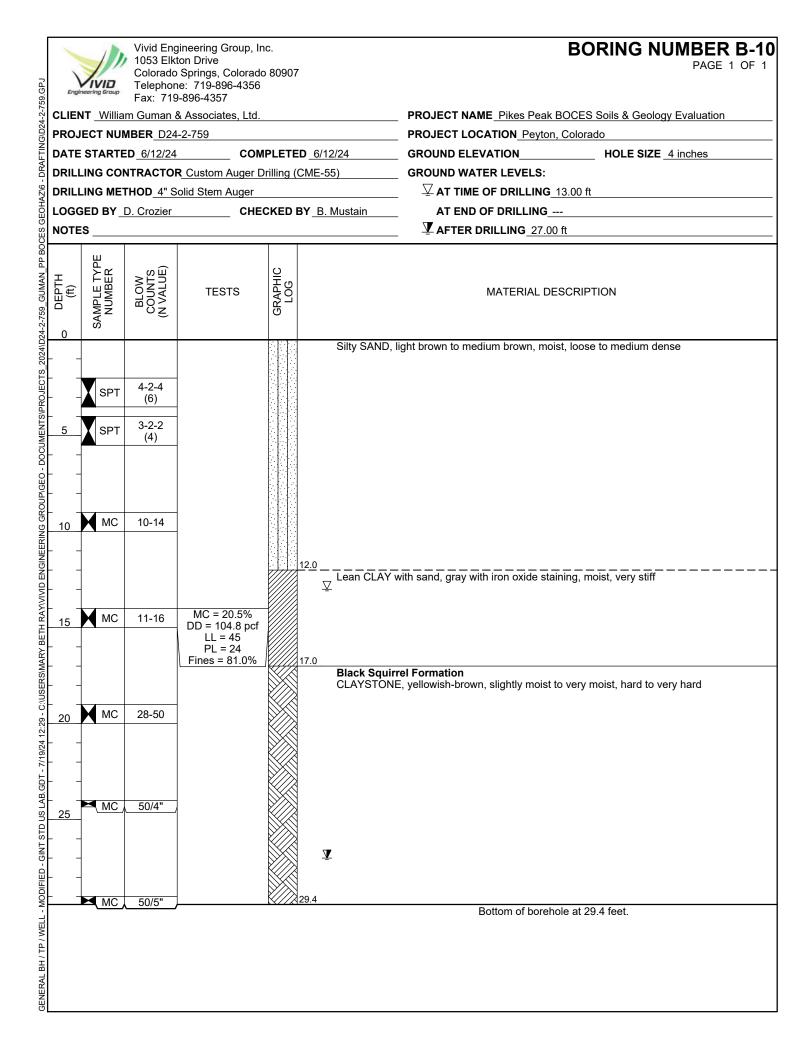


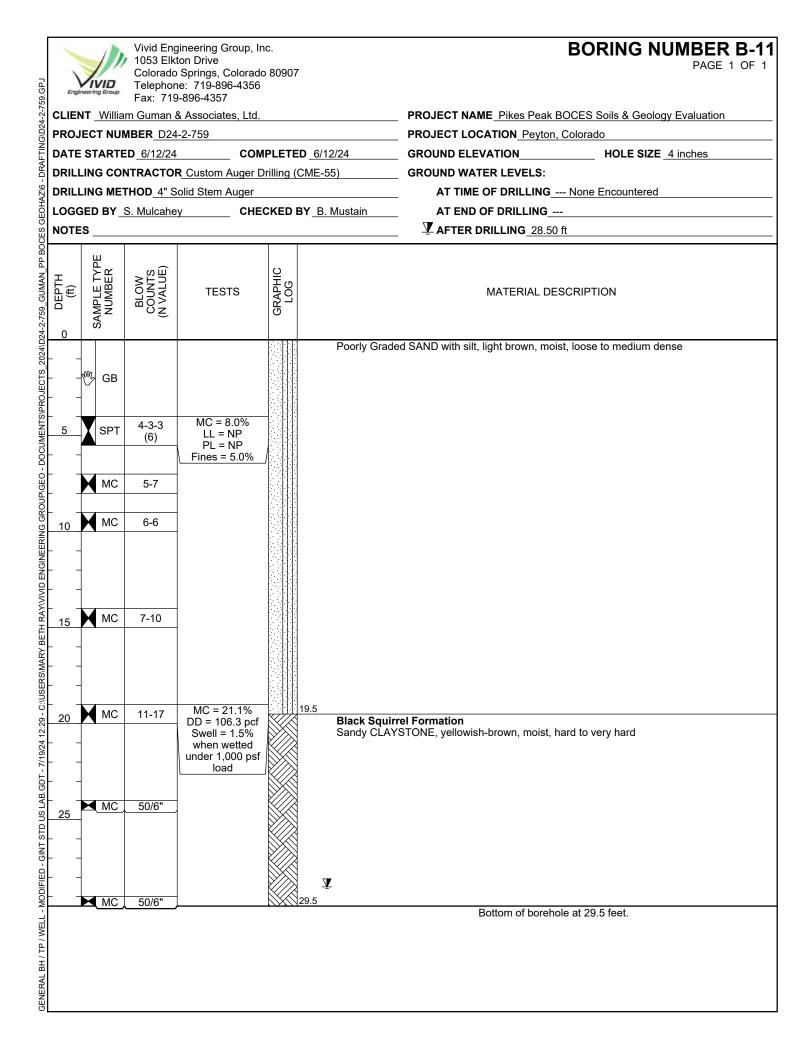
Engl	Vivid Engineering Group, Inc. 1053 Elkton Drive Colorado Springs, Colorado 80907 Telephone: 719-896-4356 Fax: 719-896-4357				7	BORING NUMBER B-6 PAGE 1 OF 1
CLIEN	NT Willia	m Guman &	& Associates, Ltd.			PROJECT NAME Pikes Peak BOCES Soils & Geology Evaluation
5		MBER_D24				PROJECT LOCATION Peyton, Colorado
ź				PLETE	D 6/12	2/24 GROUND ELEVATION HOLE SIZE 4 inches
			R Custom Auger D			
			olid Stem Auger			⊥ AT TIME OF DRILLING 16.00 ft
-			CHEC			
					<u> </u>	Image: A construction of statements Image: A construction of statements </th
0 DEPTH	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	TESTS	GRAPHIC LOG		MATERIAL DESCRIPTION
						Silty SAND, light brown, slightly moist to wet, medium dense to loose
	SPT	4-5-6 (11)				
5	SPT	5-5-4				
		(9)				
		4.5				
10	MC	4-5				
	мс	7-6			Ţ	
;	-				$ $ Σ	
					17.0	Black Squirrel Formation
						SANDSTONE, light brown, very moist, moderately hard
⊧ -		15.04				
 20	MC	15-21				
;L -						
<u> </u>		F. (5"			24.0	
 25 	MC	50/5"/	MC = 19.5% DD = 112.5 pcf Swell = 1.1% when wetted			Black Squirrel Formation CLAYSTONE, dark yellowish-brown, very moist, very hard
			under 1,000 psf	$\langle \rangle \rangle$		
i -			load			
		50/6"		= = = = = = =	29.5	
	MC .	30/0	<u> </u>	*/\\//		Bottom of borehole at 29.5 feet.

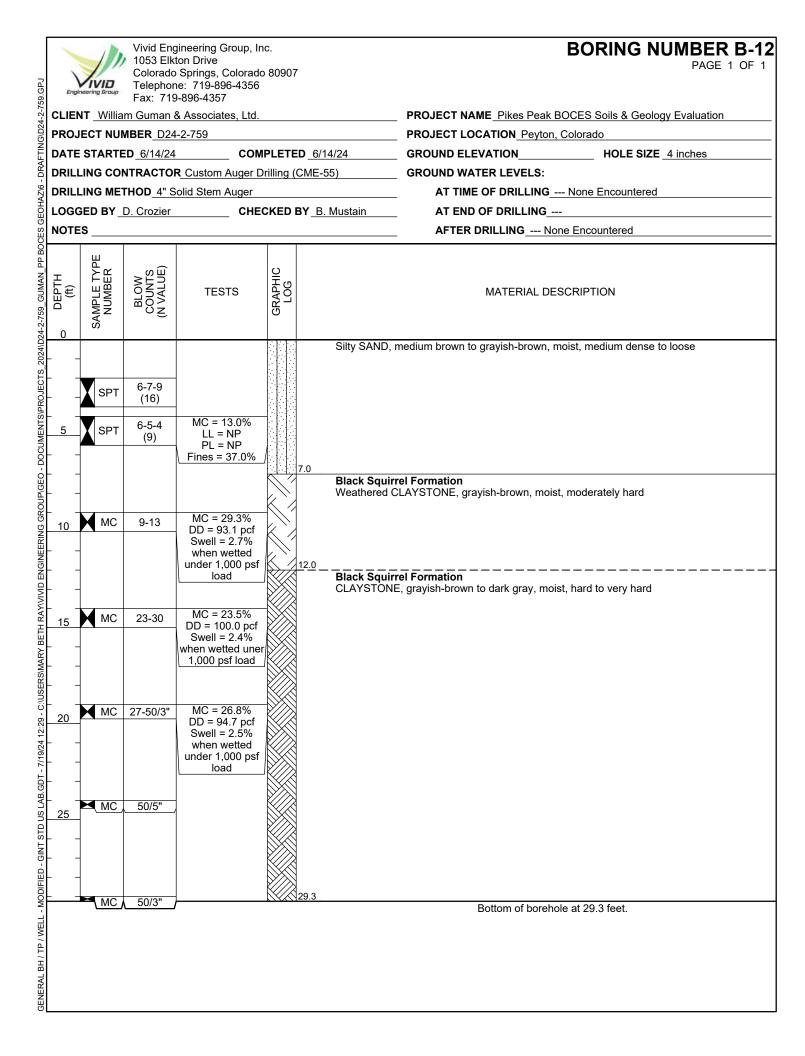






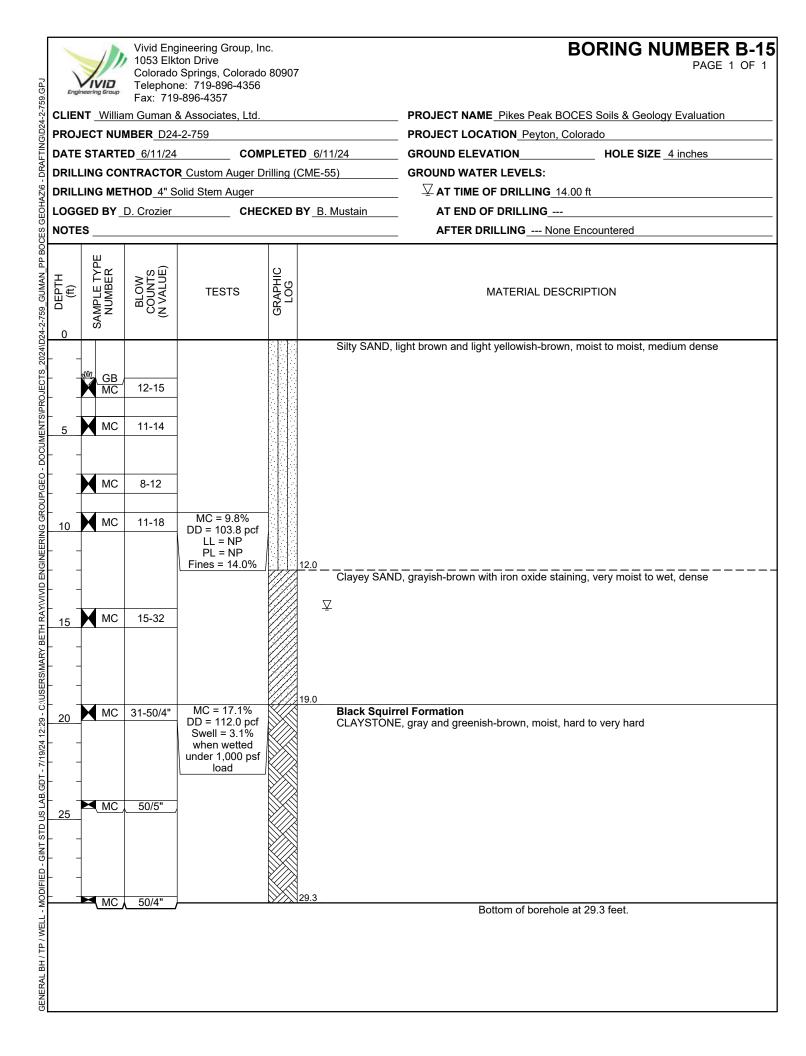


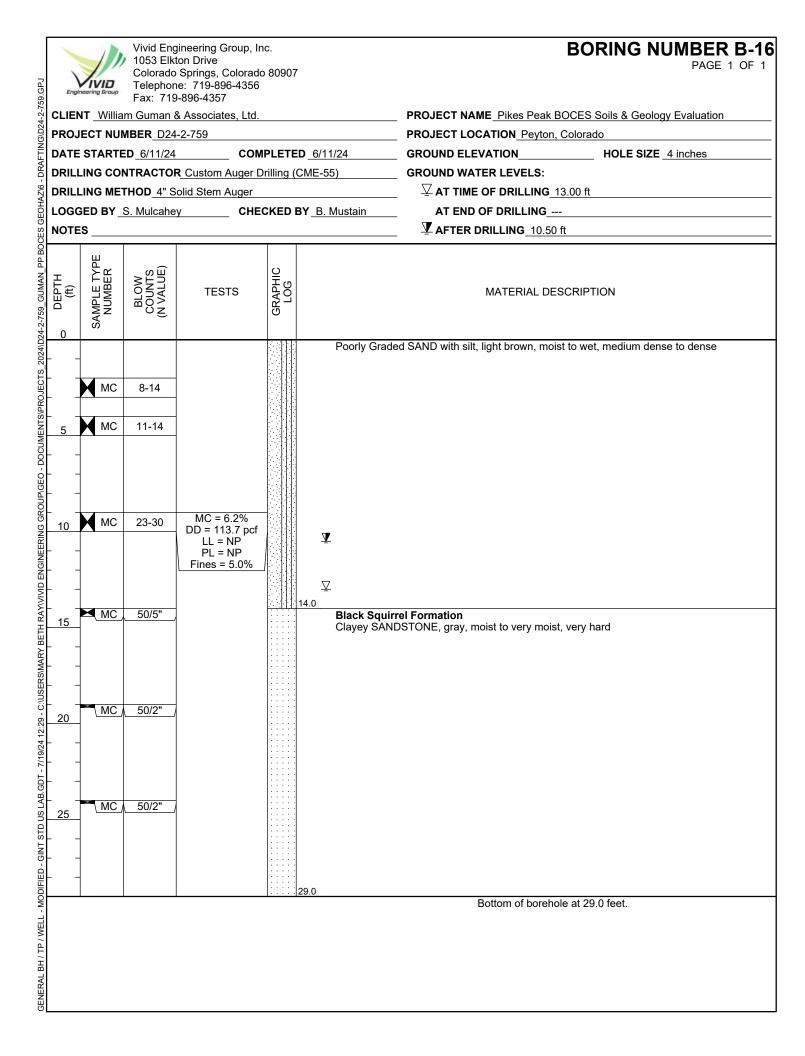




		1053 Ell Colorado	kton Dr o Sprin ne: 71	ıgs, Colorado 80907 9-896-4356	BORING NUMBER B-13 PAGE 1 OF 1
	NT_Willia	m Guman	& Asso	ociates, Ltd.	PROJECT NAME Pikes Peak BOCES Soils & Geology Evaluation
PROJ	PROJECT NUMBER D24-2-759			9	PROJECT LOCATION Peyton, Colorado
				COMPLETED <u>6/12/24</u>	GROUND ELEVATION HOLE SIZE 4 inches
	LING CO	NTRACTO	R Cus	tom Auger Drilling (CME-55)	GROUND WATER LEVELS:
	LING ME	THOD_4" \$	Solid S	tem Auger	
	GED BY	S. Mulcahe	ey	CHECKED BY B. Mustain	AT END OF DRILLING
	S				
	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	GRAPHIC LOG		MATERIAL DESCRIPTION
24/0/				Silty SAND, medium brown	to light brown, slightly moist, loose
	₩ GB				
5	SPT	3-3-3 (6)			
		(0)	-	6.0	
				Black Squirrel Formation SANDSTONE, gravish-brow	/n, very moist, moderately hard to very hard
	MC	15-30			
10	мс	18-40	:::::::		
				$\overline{\Sigma}$	
15	MC	18-20			
	_				
и 	MC	50/5"	-{:::::		
<u> ±</u>	-				
	-			22.0	
	-			Black Squirrel Formation CLAYSTONE, gravish-brow	n to gray, slightly moist, very hard
		F 0 10 11		, <u>g</u> , <u>g</u> , <u>s</u> , <u>s</u> , <u>s</u> , s	
3 25	MC	50/3"	-		
	-				
	-				
	MC	50/6"	<u>y//X</u>	29.5	Bottom of borehole at 29.5 feet.
5					

Engi		1053 Elk Colorado	kton Dri o Sprin ne: 71	gs, Colorado 80907 9-896-4356	BORING NUMBER B-14 PAGE 1 OF 1
	NT Willia	m Guman	& Asso	ociates, Ltd.	PROJECT NAME Pikes Peak BOCES Soils & Geology Evaluation
PROJ		MBER_D24	4-2-759)	PROJECT LOCATION Peyton, Colorado
	STARTE	D 6/12/24	4	COMPLETED 6/12/24	GROUND ELEVATION HOLE SIZE 4 inches
		NTRACTO	R Cust	tom Auger Drilling (CME-55)	_ GROUND WATER LEVELS:
	LING ME	THOD <u>4" 8</u>	Solid St	tem Auger	
	GED BY	D. Crozier		CHECKED BY B. Mustain	AT END OF DRILLING
	S				_ ⊈ AFTER DRILLING _8.00 ft
- DOCIMENT OF TAULT 1 - DOCIMENT F DOC	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	GRAPHIC LOG		MATERIAL DESCRIPTION
	-			Silty SAND, light brown, moist,	medium dense to dense
<u></u>			-		
	MC	5-11	-		
<u> </u>			-		
5	МС	16-21			
	-				
	_			7.0 Black Squirrel Formation	
	-			Ψ Clayey SANDSTONE, gray, ve	ry moist, moderately hard to very hard
		15.00	-		
10	мс	15-28	-		
	-				
	-		· · · · · · · · · · · · · · · · · · ·		
	-			∇	
		40 50/4	-	<u>-</u>	
	мс	43-50/4"			
	-				
	-		· · · · · · · · · · · · · · · · · · ·		
2	-				
	мс	50/6"			
20		50/0	1::::		
17	-				
	_		· · · · · · · · · · · · · · · · · · ·	22.0	
<u>-</u> -	-			Black Squirrel Formation CLAYSTONE, gray, moist, very	/ hard
	мс	50/6"	-		
25		50/0			
	-				
	-				
<u>i</u>	-				
	мс	50/e"		29.5	
2		50/6"	<u>y</u> ///>	20.0	Bottom of borehole at 29.5 feet.





Appendix B

Geotechnical Laboratory Test Results

Vivid Engineering Group, Inc. 1053 Elkton Drive Colorado Springs, Colorado 80907 Telephone: 719-896-4356 Fax: 719-896-4357

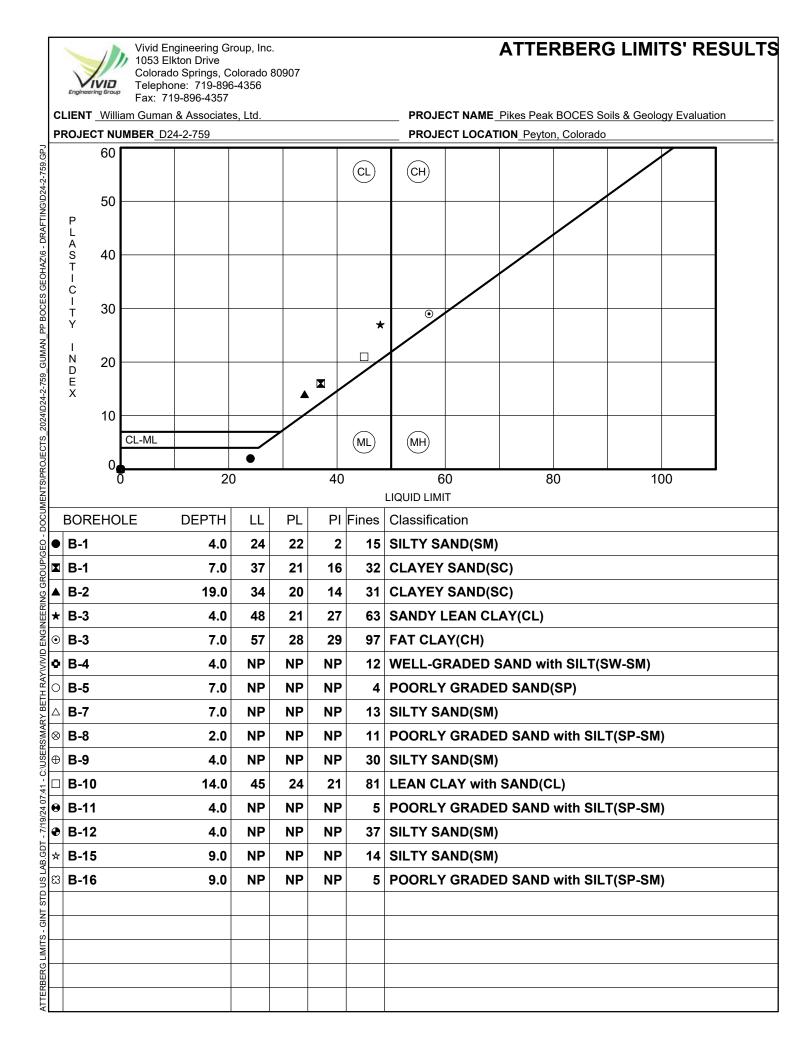
SUMMARY OF LABORATORY RESULTS

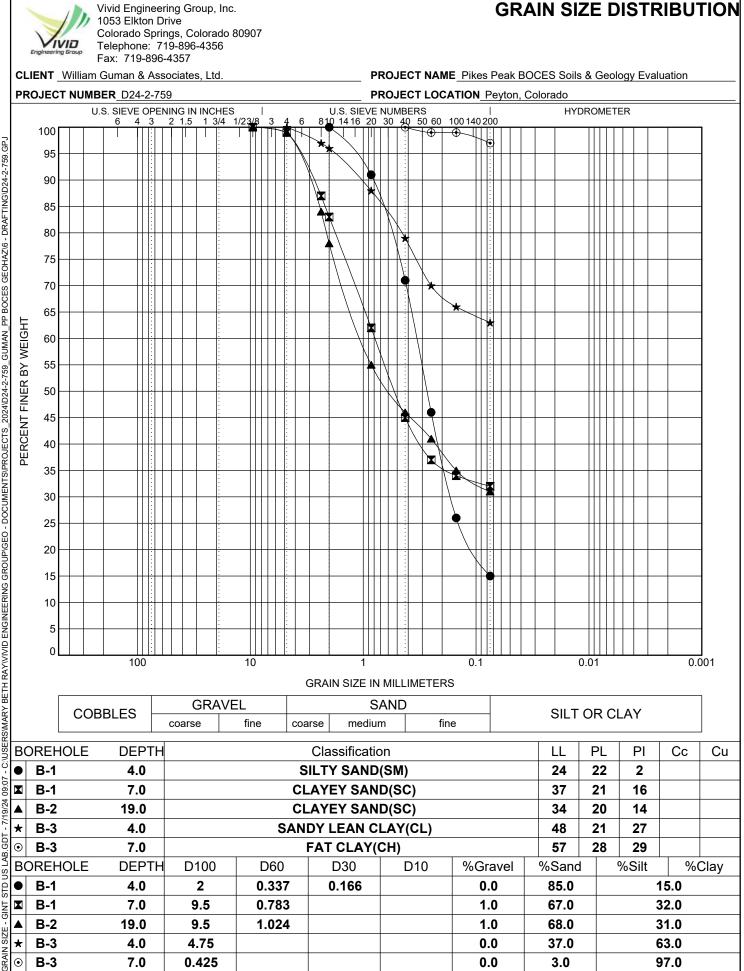
PROJECT NAME Pikes Peak BOCES Soils & Geology Evaluation

PAGE 1 OF 1

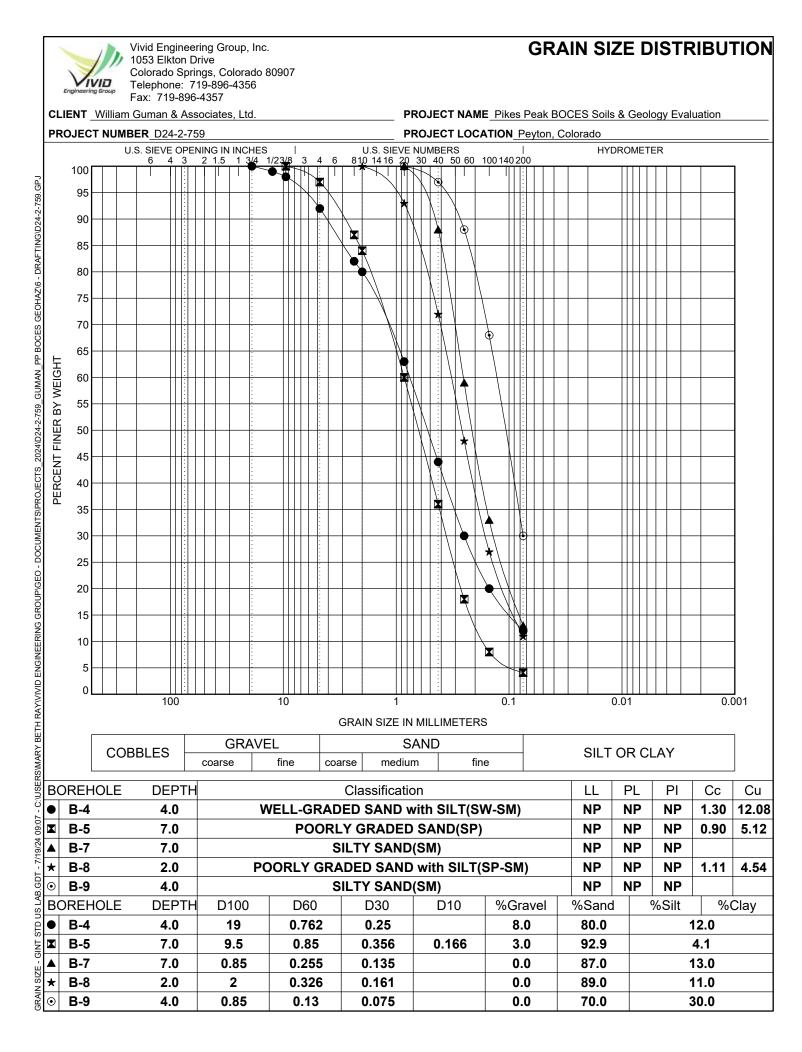
CLIENT William Guman & Associates, Ltd.

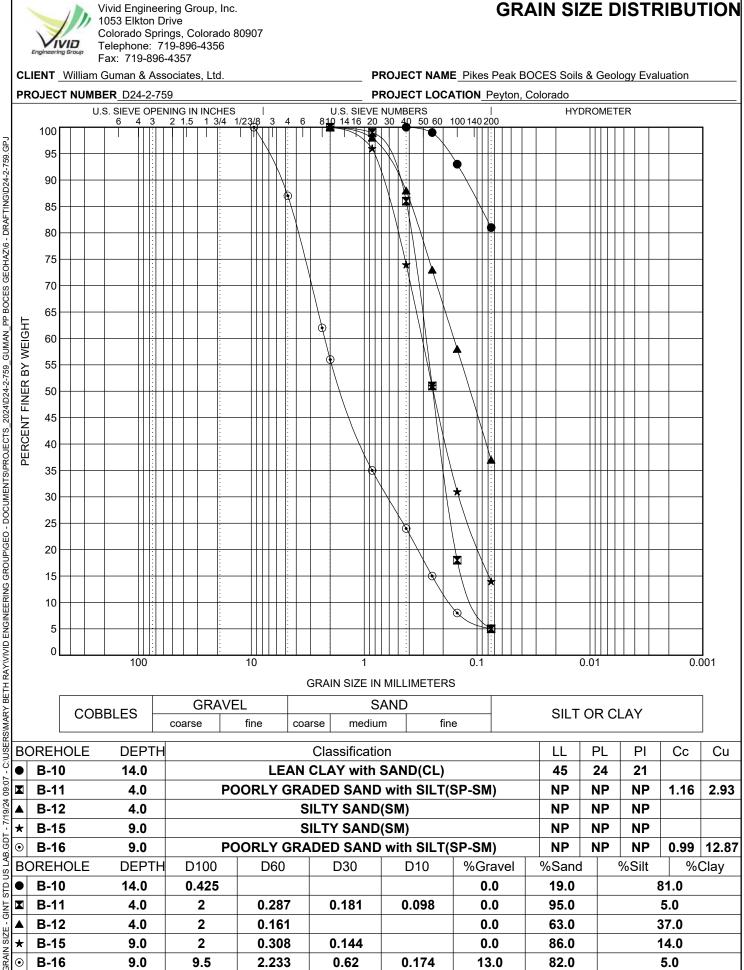
59.GP	PROJECT NU	JMBER D	24-2-759	PROJECT LOCATION Peyton, Colorado							
GUMAN_PP BOCES GEOHAZ/6 - DRAFTING/D24-2-759.GP.	Exploration ID	Approx. Sample Depth (ft)	Sample Description	Passing 3/4" Sieve (%)	Passing #4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Moisture Content (%)	Dry Density (pcf)
RAFI	B-1	4.0	SILTY SAND(SM)			15	24	22	2	13.9	108.2
6 - D	B-1	7.0	CLAYEY SAND(SC)		99	32	37	21	16	10.5	123.7
HAZ	B-1	14.0								17.6	112.0
ы СШ СШ	B-2	9.0								19.3	108.3
SCES	B-2	19.0	CLAYEY SAND(SC)		99	31	34	20	14	11.5	125.4
PBC	B-3	4.0	SANDY LEAN CLAY(CL)		100	63	48	21	27	10.7	
ANF	B-3	7.0	FAT CLAY(CH)			97	57	28	29	17.9	112.7
GUN	B-3	14.0								22.3	110.7
-759	B-4	4.0	WELL-GRADED SAND with SILT(SW-SM)	100	92	12	NP	NP	NP	5.1	
24-2	B-4	9.0								23.9	101.2
024/[B-4	19.0								23.5	100.9
TS_2	B-5	7.0	POORLY GRADED SAND(SP)		97	4	NP	NP	NP	10.0	109.1
DIEC	B-6	24.0								19.5	112.5
S/PR(B-7	7.0	SILTY SAND(SM)			13	NP	NP	NP	7.6	
ENT	B-8	2.0	POORLY GRADED SAND with SILT(SP-SM)			11	NP	NP	NP	5.3	
NOC	B-9	4.0	SILTY SAND(SM)			30	NP	NP	NP	9.5	
ä	B-9	14.0								21.5	109.4
) GEO	B-10	14.0	LEAN CLAY with SAND(CL)			81	45	24	21	20.5	104.8
200F	B-11	4.0	POORLY GRADED SAND with SILT(SP-SM)			5	NP	NP	NP	8.0	
50	B-11	19.0	· /							21.1	106.3
	B-12	4.0	SILTY SAND(SM)			37	NP	NP	NP	13.0	
IGINE	B-12	9.0								29.3	93.1
Ш	B-12	14.0								23.5	100.0
<u>}</u>	B-12	19.0								26.8	94.7
H RA	B-15	9.0	SILTY SAND(SM)			14	NP	NP	NP	9.8	103.8
BET	B-15	19.0								17.1	112.0
SIMARY BETH RAY.VIVID ENGINEERING GROUPIGEO - DOCUMENTS/PROJECTS_2024/D24-2-759	B-16	9.0	POORLY GRADED SAND with SILT(SP-SM)		87	5	NP	NP	NP	6.2	113.7





C:/USERSMARY BETH RAY/IV/ID ENGINEERING GROUP/GEO - DOCUMENTS/PROJECTS 2024/D24-2-759 GUMAN PP BOCES GEOHAZ/6 - DRAFTING/D24-2-759.GP-09:07 7/19/24 GDT LAB.(US I STD GINT

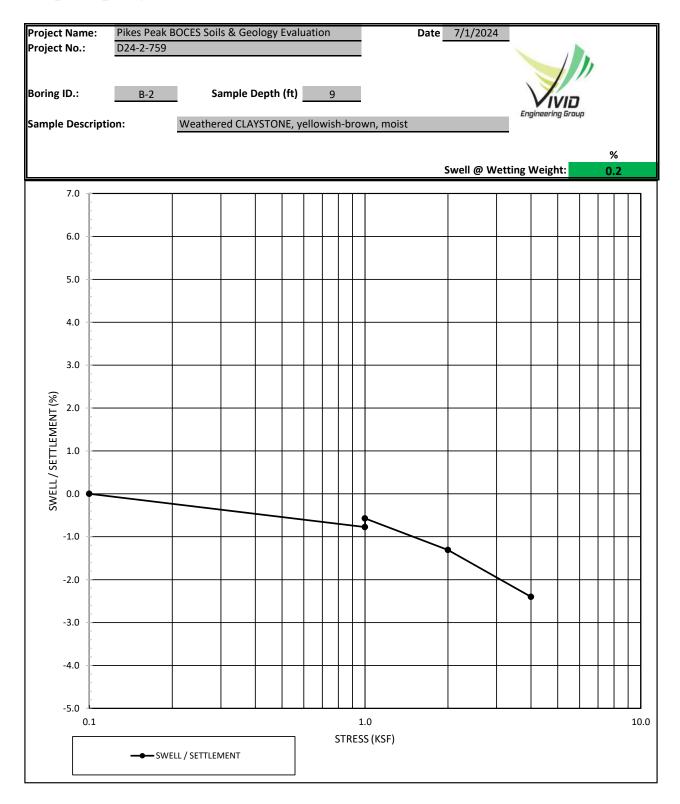




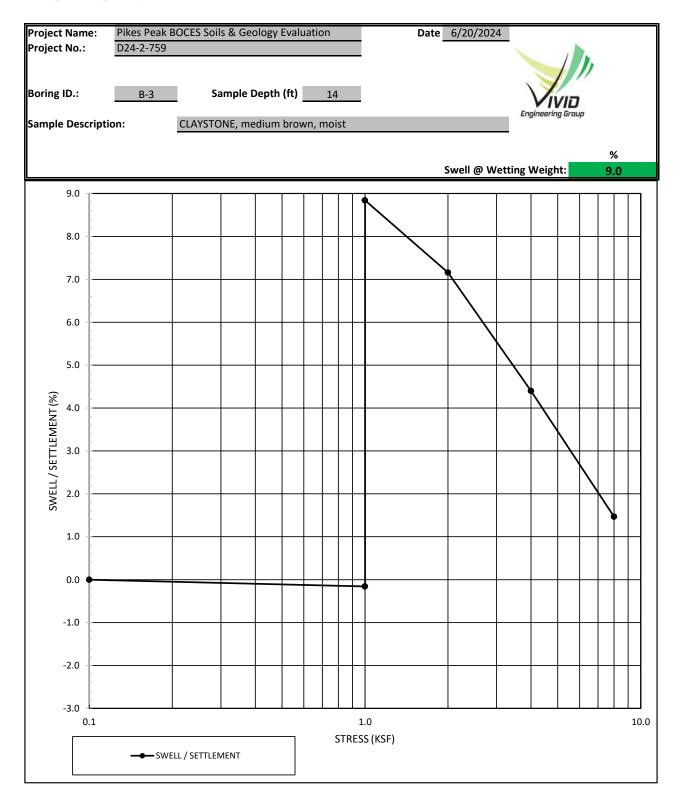
Vivid Engineering Group, Inc.

Project	Name:	Pikes Peak D24-2-759	BOCES Soil	s & Geo	ology E	valua	tion			Date	6/19/202	4					
Project	Project No.:														1,		
Boring	ID.:	B-1	Sa	ample D)epth (ft)	14					`	Y	/			
						_	1-										
Sample	e Descripti	on:	CLAYSTC	NE, gra	iy, moi	st											
											Swell @ W	letting \	Neigh	+·		% 2.7	
<u> </u>	7.0		I								1					···/	
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	-																
	5.0																
	4.0						_										
	3.0						+	$\left \right $						-		+	-
(%).	2.0																
SWELL / SETTLEMENT (%)	2.0									_							
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	-2.0															+	_
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	-4.0						_	$\left \right $						-+		+	_
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	-5.0		1	1	I I	I			1.0			1	ıl	1			10.0
		— ● SWI	ELL / SETTLEN	/IENT			:	STRE	SS (KSF)								
			-,														

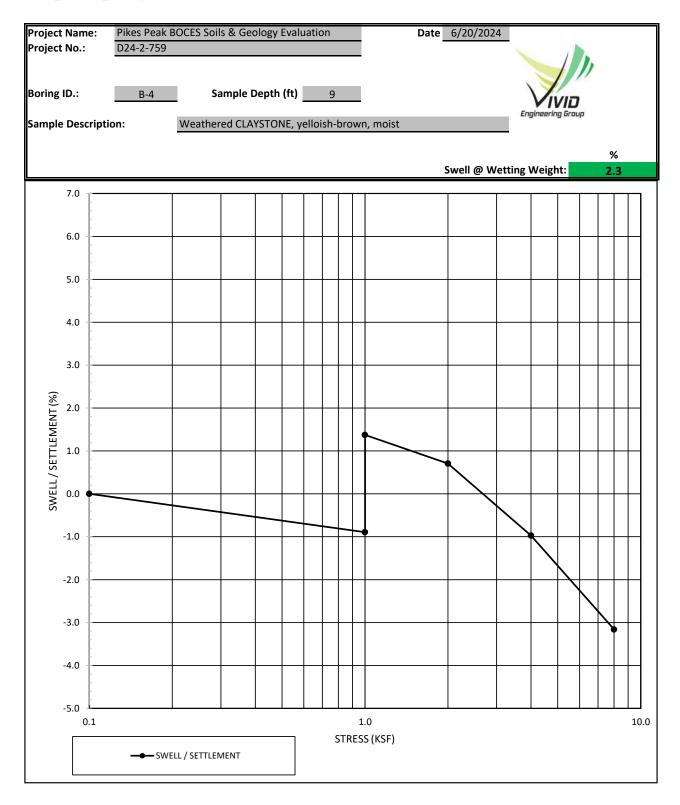
tion
17.6
112.0
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20.5



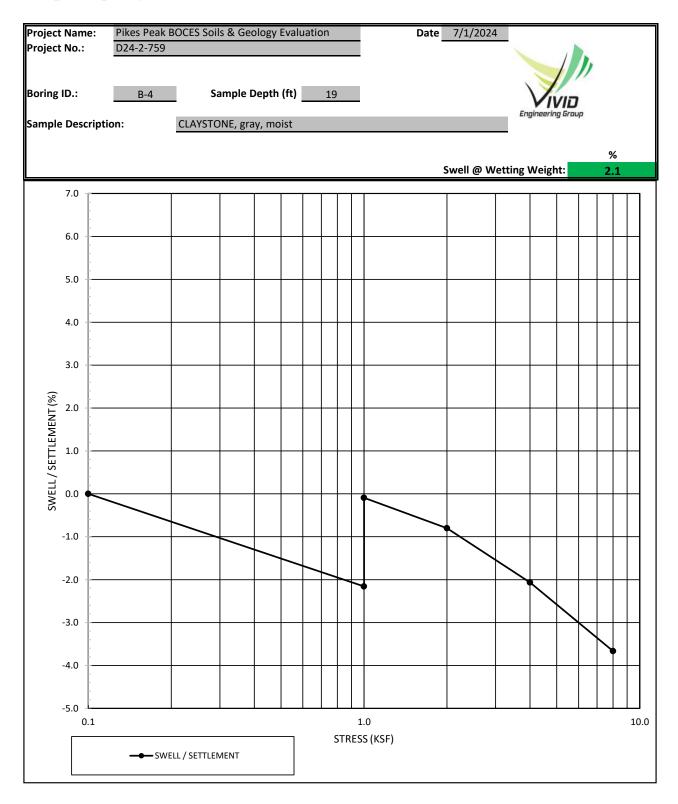
Initial Condition						
Moisture Content %	19.3					
Dry Density (pcf)	108.3					
Post-Swell Condition						
Moisture Content %	21.7					



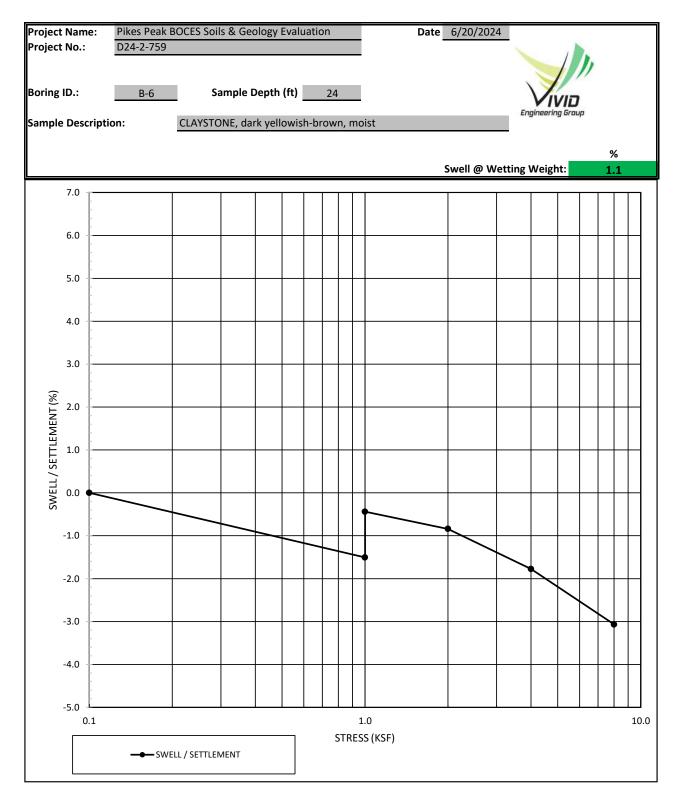
Initial Condition						
Moisture Content %	16.7					
Dry Density (pcf)	110.7					
Post-Swell Condition						
Moisture Content % 22.3						



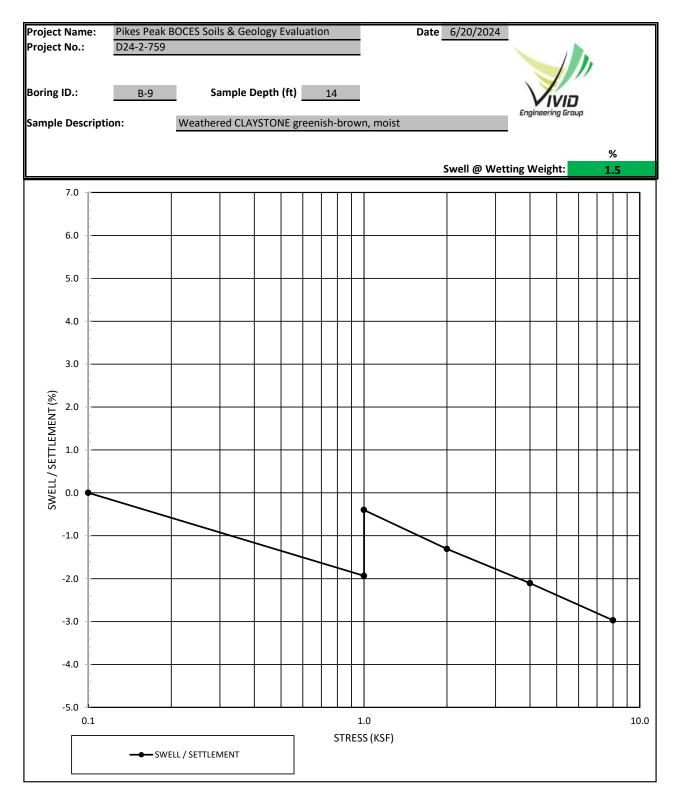
Initial Condition						
Moisture Content %	23.9					
Dry Density (pcf)	101.2					
Post-Swell Condition						
Moisture Content %	25.3					



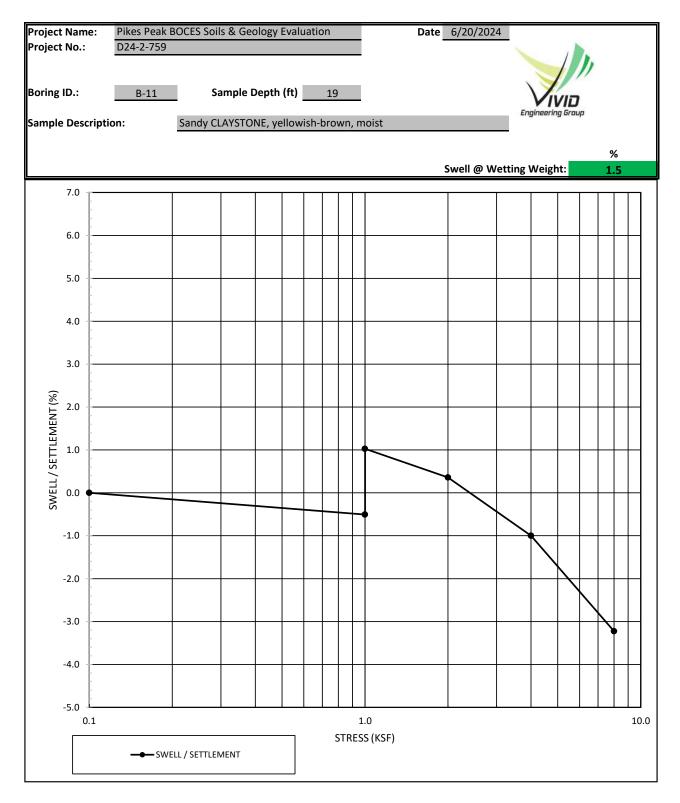
Initial Condition						
Moisture Content %	23.5					
Dry Density (pcf)	100.9					
Post-Swell Condition						
Moisture Content %	25.9					



Initial Condition						
Moisture Content %	19.5					
Dry Density (pcf)	112.5					
Post-Swell Cor	ndition					
Moisture Content %	19.8					



Initial Condition						
Moisture Content %	21.5					
Dry Density (pcf)	109.4					
Post-Swell Cor	ndition					
Moisture Content %	22.1					



Initial Condition						
Moisture Content %	21.1					
Dry Density (pcf)	106.3					
Post-Swell Condition						
Moisture Content % 22.3						

Project	Name:	Pikes Peak	BOCES Soil	s & Geo	ology I	Evalu	ation			Date	6/20/202	4					
Project	No.:	D24-2-759												1			
															1		
Boring	ID.:	B-12	Sa	mple D	Depth	(ft)	1	9					$\sqrt{2}$				
												En	gineerin	g Group	,		
Sample	Descripti	on:	Weather	ed CLA	YSTON	IE, da	ark gr	ay, m	oist								
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Initial Condition								
29.3								
93.1								
ndition								
31.4								

		Pikes Peak	BOCES Soil	ls & Geo	ology E	Evalu	ation		Date 6/20/2024								
Project	No.:	D24-2-759										-		1			
															1		
Boring	ID.:	B-12	Sa	ample [Depth	(ft)	1	4				`	$\sqrt{2}$				
							_	_				En	gineering	g Group			
Sample	e Descripti	ion:	CLAYSTC	DNE, daı	rk gray	, mo	ist										
																%	
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Initial Condi	Initial Condition							
Moisture Content %	23.5							
Dry Density (pcf)	100.0							
Post-Swell Cor	dition							
Moisture Content %	25.6							

Project Project	Name: No.:	Pikes Peak D24-2-759	BOCES Soil	s & Geo	logy Eva	luatio	on			Date	6/20/202	4			2		
.,	-														1)		
Boring	ID.:	B-12	Sa	mple D	epth (ft))	19						Vi	סוי			
Sample	Descripti	on:	CLAYSTO	NE, gray	, moist							Enj	gineering	g Graup	7		
										c	Swell @ W	etting	Weigh	t:		% 2.5	
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SWELL / SETTLEMENT (%)	2.0																
SETTLEN	1.0																
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	5.1	── SWE	ELL / SETTLEN	1ENT			S		55 (KSF)								10.0

Initial Condition								
Moisture Content %	26.8							
Dry Density (pcf)	94.7							
Post-Swell Cor	ndition							
Moisture Content %	30.1							

Project Project	Name: No.:	Pikes Peak I D24-2-759	BOCES Soils	s & Geol	ogy Eval	uatior	า		Date	6/20/202	4				
								-						1	
Boring	ID.:	B-15	Sa	mple De	epth (ft)		19					Viv	כוי		
Sample	Descripti	on:	CLAYSTO	NE, gray	, moist						EN	gineering	Гогор		
									c	Swell @ W	etting \	Weight	H.	% 3. 1	
	7.0														
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	3.0												_		
ENT (%)	2.0														
ITLEMI	1.0														
SWELL / SETTLEMENT (%)	0.0														
	-1.0						_	-							
	-2.0														
	-3.0														
	-4.0														
	-5.0														
	0.1	 SWE	ELL / SETTLEN	IENT			STR	1.0 ESS (KSF)							10.0

Initial Condi	Initial Condition							
Moisture Content %	17.1							
Dry Density (pcf)	112.0							
Post-Swell Con	dition							
Moisture Content %	20.1							

Appendix C

Analytical Laboratory Test Results

Corrosion Test Results



Project Name:	PP BOCES Soils & Geology Evaluation	
Project No.	D24-2-759	

Tested By:	ТА
Date Sampled:	7/3/2024
Date Tested:	7/11/2024

Sample ID: **B-3 @ 9' + 19'**

Matrix: Soil

Test	Results	Method
Chloride - Water Soluble	0.009 %	AASHTO T291-91/ASTM D4327
рН	7.9 units	AASHTO T289-91
Redox Potential	58.2 mv	ASTM D1498
Electrical Resistivity	1100 ohm-cm	AASHTO T288-91
Sulfate - Water Soluble	<0.001 %	CDOT CP-L 2103/ASTM D4327
Sulfide	Positive -	AWWA C105

Sample ID: **B-9@0-4'**

Matrix: Soil

Test	Results	Method
Chloride - Water Soluble	0.004 %	AASHTO T291-91/ASTM D4327
рН	7.5 units	AASHTO T289-91
Redox Potential	55.8 mv	ASTM D1498
Electrical Resistivity	23000 ohm-cm	AASHTO T288-91
Sulfate - Water Soluble	<0.001 %	CDOT CP-L 2103/ASTM D4327
Sulfide	Trace -	AWWA C105

Appendix D

Site Photos



SITE CONDITIONS AT BORING B-1 - LOOKING SOUTHEAST



SITE CONDITIONS AT BORING B-2 - LOOKING WEST



	Project No:	D24-2-759	SITE PHOTOS	FIGURE
	Date:	7/2/2024	Pikes Peak BOCES Educational Park	
	Drawn by:	SAM	Soils & Geology Evaluation	D-1
(ID Group	Reviewed by:	MBR	Northeast of Judge Orr Road and Elbert Road Peyton, Colorado	



SITE CONDITIONS AT BORING B-5 - LOOKING SOUTHEAST



SITE CONDITIONS AT BORING B-11 - LOOKING NORTH



	Project No:	D24-2-759	SITE PHOTOS	FIGURE
	Date:	7/2/2024	Pikes Peak BOCES Educational Park	
	Drawn by:	SAM	Soils & Geology Evaluation	D-2
D Toup	Reviewed by:	MBR	Northeast of Judge Orr Road and Elbert Road Peyton, Colorado	